HIGH-SPEED MULTISERVICE TEST MODULE

SCPI Commands
Power Blazer/NetBlazer

EXFO

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1 Introducing the 88xx/8xx SCPI Commands

The 88xx/8xx modules can be remotely controlled using SCPI commands. You can also use these commands directly on the unit to build scripts to automate test processes.

The SCPI commands described in this user guide cover the modules listed in the following table. However not all commands and options are available on all modules.

Application	Platform	Modules
Power Blazer	FTB-2 FTB-2 Pro FTB-4 Pro LTB-2 LTB-8	8870 8880 88200NGE 88260 88460 88480 88481 88482 88800
NetBlazer[a]	FTB-1v2 (modular back)	8870 8880 88200NGE 88260 88480 88481 88800
	FTB-1v2 (non-modular back)	720Gv2/730Gv2 870v2/870Q 880v2/880Q 890/890NGE

a. Operating the NetBlazer instrument uses the same amount of resources than the NetBlazer application that is, the same limitations are applicable. Refer to **Starting the Module Application** from the NetBlazer user guide for more information.

Conventions

Before using the product described in this guide, you should understand the following conventions:

WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in *death or serious injury*. Do not proceed unless you understand and meet the required conditions.

CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in *minor or moderate injury*. Do not proceed unless you understand and meet the required conditions.

CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in *component damage*. Do not proceed unless you understand and meet the required conditions.

IMPORTANT

Refers to information about this product you should not overlook.

2 *Getting Started*

This section contains a brief summary of the 88xx/8xx specific commands.

Following steps will give an idea about the command and sequence of commands to execute and perform a specific test.

To create a BERT test for example:

1. *CLS

   This command clears the register of module.

2. INST:CAT:FULL?

   This command will detect the module attached to the platform back panel and return the name of the module and its position with Unit number and Slot number.

   For example "FTB-88xxx-Power Blazer", 10. This information is added with LINS keyword before each and every SCPI command. Following SCPI commands describes the use of LINS.

3. LINS10:SOURce:DATA:TELecom:TEST:TYPE EBERT

   This command selects Ethernet Bert Test.

4. LINS10:SOURce:DATA:TELecom:ITYPe LANE4X10

   This command sets the interface type as 4X10.

5. LINS10:SOURce:DATA:TELecom:ITYPe?

   This query returns the interface type as 4X10.

6. LINS10:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver CFP

   This command selects the type of connector as CFP.

7. LINS10:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

   This query returns the type of connector.

8. LINS10:SOURce:DATA:TELecom:ETHernet:BERT:FRAMing FRAMEDLAYER2

   This command selects the framing type as FRAMEDLAYER2.

9. LINS10:SOURce:DATA:TELecom:ETHernet:BERT:FRAMing?

   This query returns the framing type.

10. LINS10:SENSe:DATA:TELecom:ALASer ON

    This command enables or disables the status of all lasers.

11. LINS10:SENSe:DATA:TELecom:ALASer?

    This query returns the current state of all lasers.

12. LINS10:SOURce:DATA:TELecom:PATTern:TYPE PRBs2E9

    This command selects the payload pattern type for the transmitter as PRBS2E9.

13. LINS10:SOURce:DATA:TELecom:PATTern:TYPE?

    This query returns the payload pattern type of the transmitter.

14. LINS10:SOURce:DATA:TELecom:TEST ON

    This command starts the manual test.

15. LINS10:SOURce:DATA:TELecom:TEST?

    This query returns the status of the manual test.

16. LINS10:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:MANual: TYPE BIT

    This command sets the type of pattern error as BIT.

17. LINS10:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:MANual: TYPE?

    This query returns the type of pattern error.

18. LINS10:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt 25

    This command sets the amount of pattern error to be injected into the instrument as 25.

19. LINS10:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt?

    This query returns the amount of pattern error injected into the instrument.

20. LINS10:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:INJect

This command injects the type of pattern error.

21. LINS10:SOURce:DATA:TELecom:TEST OFF

This command stops the manual test.

Note: *In User Interface, if "--" is displayed for any field, the related SCPI results will be according to the following table conditions:*

Data Type	Has Minimum Value	Command Result
<NR1 NUMERIC RESPONSE DATA> <NR2 NUMERIC RESPONSE DATA> <NR3 NUMERIC RESPONSE DATA> <HEXADECIMAL NUMERIC RESPONSE DATA>	Yes	[Minimum value]
<NR1 NUMERIC RESPONSE DATA> <NR2 NUMERIC RESPONSE DATA> <NR3 NUMERIC RESPONSE DATA> <HEXADECIMAL NUMERIC RESPONSE DATA>	No	This data does not yet have a value, it is pending.
<STRING RESPONSE DATA> <CHARACTER RESPONSE DATA>	No	This data does not yet have a value, it is pending.

Dual Port Topology and Multi-Port Test

Port Selection

For **Dual Port** topology or multi-port test (FlexE), it is required to first select the port using the following command, then the next commands will be addressed to the selected port:

LINS10:SOURce:DATA:TELecom:PORT P1,
LINS10:SOURce:DATA:TELecom:PORT P2, etc.

Specific port command example:

LINS10:SOURce:DATA:TELecom:PORT P1

LINS10:SOURce:DATA:TELecom:ETHernet:PORT:FCONtrol TX

LINS10:SOURce:DATA:TELecom:ETHernet:PORT:FCONtrol?

LINS10:SOURce:DATA:TELecom:ETHernet:PORT:DUPLex NONE

LINS10:SOURce:DATA:TELecom:ETHernet:PORT:DUPLex?

Port Direction

The SOURce:DATA:TELecom:PORT command should only be used for specific port commands which do not have direction as parameter. For commands which have direction as parameter, use P1TOP2 and P2TOP1.

Specific port direction in Dual Port topology examples:

LINS10:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:VALue 1, P1TOP2,99.0

LINS10:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:VALue 1, P2TOP1,99.0

3 *Communicating Through TCP/IP over Telnet*

Introducing TCP/IP over Telnet

The EXFO Instrument Control provides SCPI automation or remote control over Telnet through TCP/IP as a Windows Service that continuously listens to a port from a Telnet server (FTB/IQS/LTB) on which modules to be tested are connected.

TCP/IP protocols are used for communication.

Note: *Port 5024 is designated for sending SCPI commands over Telnet, and port 5025 for sending commands over a raw (socket) communication.*

Most of Windows versions include the Telnet client and the Telnet server components. With these components, you can create a remote command console session on a remote computer.

Commands can be executed simply by logging on the server using the Telnet interface.

There are two types of commands that can be sent over Telnet: SCPI commands and internal protocol commands of the TCP/IP over Telnet service. The internal commands allow you to perform certain actions such as send SCPI commands as a script instead of one by one, force the disconnection of an active session, view the status of modules and of connected clients, etc.

Features

➤ A client from any operating system (Windows, Linux, or Unix) can use the freely available Telnet components to connect to the service.

➤ A client can connect to multiple modules at a time.

➤ A user can connect to multiple modules through single/multiple sessions.

➤ A client can execute single commands or a batch of commands.

➤ A user can disconnect any client/session that is already connected.

Configuring Your Unit and Modules to Work With TCP/IP over Telnet

The TCP/IP over Telnet Service, which is part of the EXFO Instrument Control, is a mediator between the Telnet client and the test instrument.

Once your unit is configured properly, any request from the Telnet client is transferred to the appropriate instrument. The instrument executes the request and returns the response to TCP/IP over Telnet accordingly.

IMPORTANT

If you are working with an FTB-1v2/FTB-1v2 Pro, an FTB-2/FTB-2 Pro/FTB-4 Pro, an LTB-1, an LTB-2, or an LTB-8 unit, before being able to control instruments with SCPI commands, you must first allow remote access to these instruments.

To allow remote access to your instruments (all units except IQS-600 and FTB-500):

1. From Mini ToolBox X or ToolBox X, tap or click the **System Settings** button.

2. Tap or click **Remote Control Configuration**.
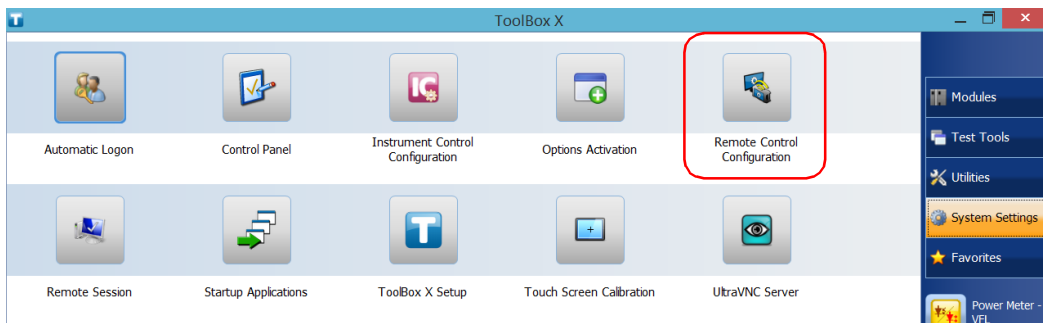
3. If necessary, tap or click **Change settings**, and then, when the application prompts you to authorize the changes to your unit (identified as "computer"), select **Yes**.
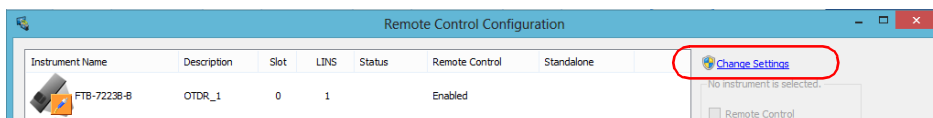
4. From the **Remote Control Configuration** window you will see all the inserted modules. Select the module for which you want to have remote access.

5. Set the parameters:

➤ Select **Remote Control** to be able to access the module remotely (via TCP/IP over Telnet or other).

➤ Select **Standalone** to leave the module active even if all users close their dedicated applications.

6. If desired, under **Description**, type a description that will help you identify the instrument.
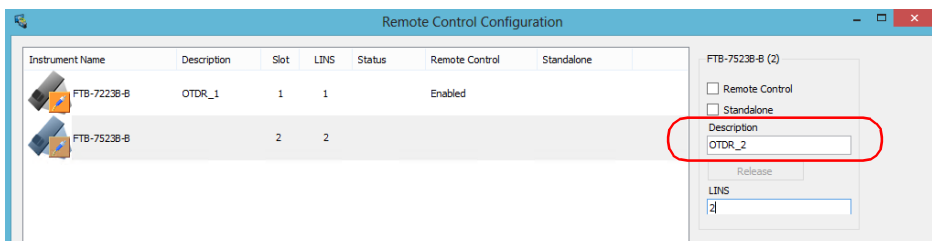
Note: *You can enter up to 10 characters. The description can correspond to the test interface ID or to any other short text of your choice.*

7. If necessary, under **LINS**, modify the logical instrument number that you will use to access the instrument remotely.
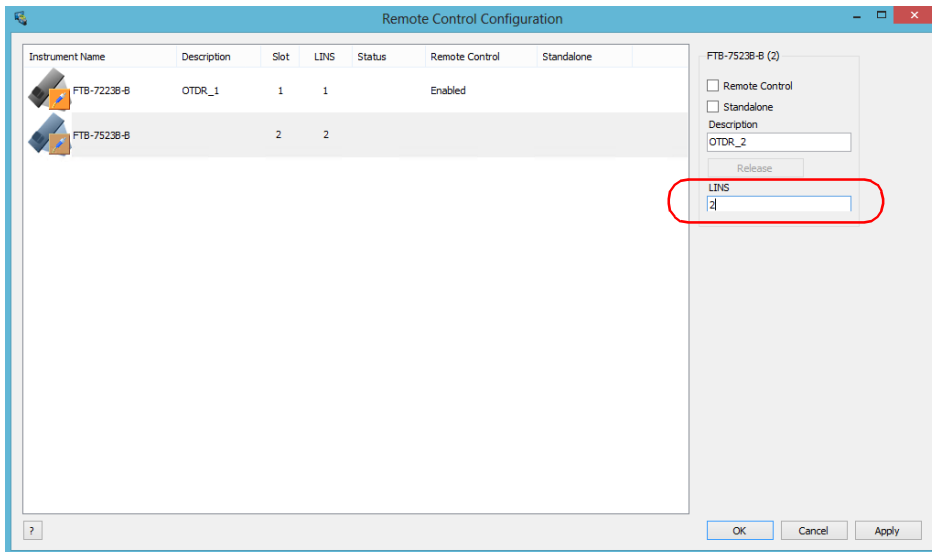
Note: *If the **LINS** column is empty, it means that the corresponding module cannot be controlled using SCPI commands.*

8. Tap or click **Apply** to confirm your changes or **OK** to apply your changes and close the window.

Note: *This information will be updated the next time you start the module application, or set Instrument Control in remote mode. Refer to the corresponding module documentation for more details.*

To activate TCP/IP over Telnet on your unit:

1. Access the Instrument Control Configuration utility:

   ➤ On an IQS-600: From IQS Manager, click the **Utilities** function tab, and then click **Instrument Control Configuration**.

   ➤ On an FTB-500: From ToolBox, tap the **System Settings** button, then tap **Instrument Control Configuration**.

   ➤ On an FTB-1v2/FTB-1v2 Pro: From Mini ToolBox X, tap the **System Settings** button, then tap or click **Instrument Control Configuration**.

   ➤ On an FTB-2/FTB-2 Pro, an FTB-4 Pro, an LTB-1, an LTB-2, or an LTB-8: From ToolBox X, tap or click the **System Settings** button, then tap or click **Instrument Control Configuration**.

2. If necessary, tap or click **Change settings**, and then, when the application prompts you to authorize the changes to your unit, select **Yes**.

IQS-600 or FTB-500
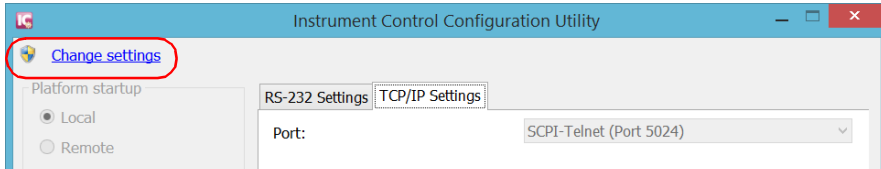
All other platforms
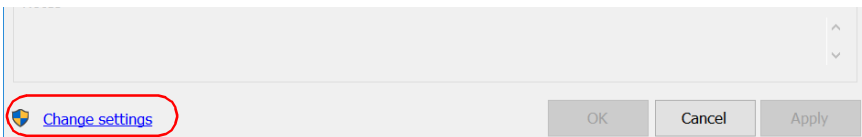
3. Allow remote control:

➤ On an IQS-600 or FTB-500: Under **Platform Startup**, select **Remote**.
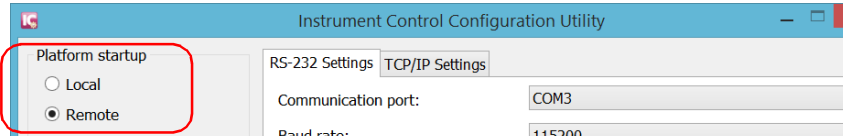
➤ On an FTB-1v2/FTB-1v2 Pro, FTB-2/FTB-2 Pro, FTB-4 Pro, LTB-1, LTB-2, or LTB-8: Select the **Allow automation on instruments** check box.
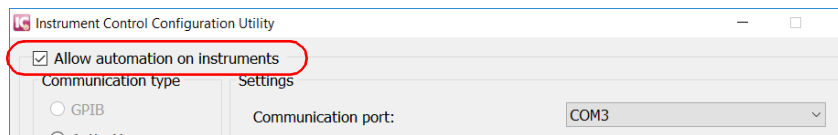
4. Under **Communication Type**, select **TCP/IP**.
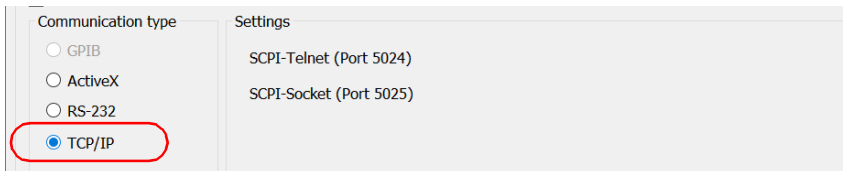
5. Tap or click **Apply**, and then **OK**.

6. Depending on the unit you are using, restart either IQS Manager, ToolBox, Mini ToolBox X, or ToolBox X.

Executing SCPI Commands Over Telnet

You can remotely control the modules by executing SCPI commands through TCP/IP over Telnet. The commands are sent remotely from the Telnet client (on a computer) to the Telnet server (in this case, the IQS, FTB, or LTB unit).

You can connect from a remote Windows client or a Linux (or Unix) remote client.

Note: *The Telnet client is available on almost all units in case you intend to use these units as computers to connect to a Telnet server. However, on an FTB-1v2, FTB-2, or LTB-1 running Windows Embedded 8 Standard, the Telnet client is not available. With these units, you must use the PuTTY application to establish communication.*

Before being able to send SCPI commands, you must first establish a connection to the Telnet service.

To execute SCPI commands over Telnet from a remote Windows client:

1. Establish a connection to the Telnet service as follows:

1a. From your computer, start Windows.

1b. On the taskbar, click **Start** (Start button (⊞) under Windows 8.1 and Windows 10) and select **Run**.

Note: *Depending on the operating system,* Run *can sometimes be found under* Windows System.

1c. In the **Open** box, type *telnet*, and then click **OK**.
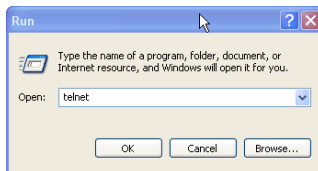
Note: *If you receive an error message, it probably means that the Telnet client is not already activated on your computer. In this case, in the **Open** box, type* pkgmgr /iu:TelnetClient*, and then click **OK** to enable the client. Once it is done, perform step 3 again.*

1d. In the displayed Telnet editor window, type the
OPEN <IP_ADDRESS_OF_TELNET_SERVER> <PORT> command to
connect to the TCP/IP Telnet Service.

Example: *open 10.192.2.45 5024*

IP address of the IQS, FTB, or LTB unit ———

——— Port number
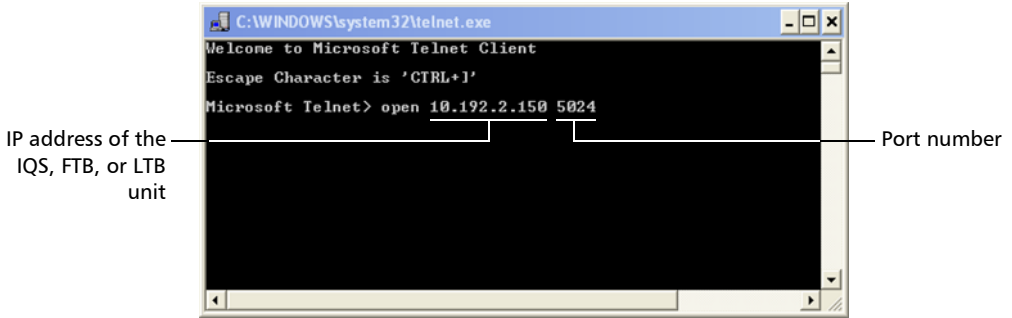
Note: *Port 5024 is designated for sending SCPI commands in the Telnet protocol.*

1e. Press ENTER to establish a connection with the Service.
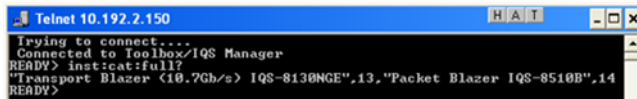
Once the connection is established, the READY> prompt is displayed in
the Telnet editor window.
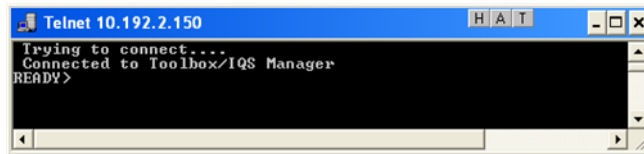
Note: *If the connection cannot be established, the **Connection to host lost** message is
displayed instead.*

2. Enter the desired SCPI commands as follows:

➤ For a single SCPI command: Type or copy the desired command in the Telnet editor window, and then press ENTER to execute it.

➤ For multiple SCPI commands: Copy the desired commands from any script file, enclose them in a BEGIN and END block in the Telnet editor window, and then press ENTER. For more information, see *Internal Commands of the TCP/IP over Telnet Protocol* on page 22.

3. Click ✕ to close the session.

To execute SCPI commands over Telnet from a remote Linux client:

1. Establish a connection to the Telnet service as follows:

   1a. From your computer, right-click on the desktop, and then click **Open Terminal**.

   The command prompt is displayed in the Telnet editor window.

   1b. Connect to the TCP/IP Telnet Service by typing the *OPEN <IP_ADDRESS_OF_TELNET_SERVER> <PORT>* command:

   Example: *open 10.192.2.45 5024*
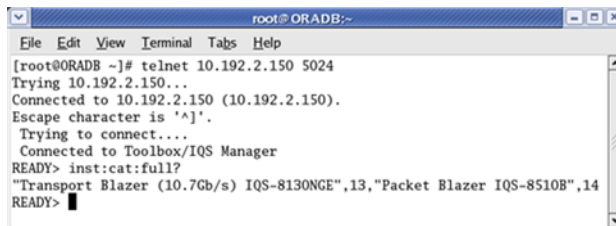
Note: *Port 5024 is designated for sending SCPI commands in the Telnet protocol.*

   The connection is established when the message **Connected to Toolbox/IQS Manager** is displayed in the Telnet editor window.
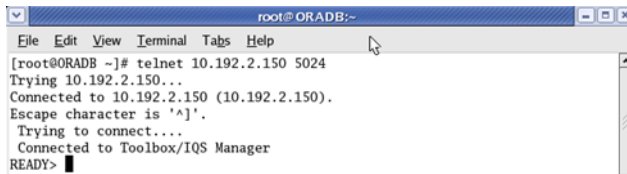
2. Enter the desired SCPI commands as follows:

➤ For a single SCPI command: Type or copy the desired command in the Telnet editor window, and then press ENTER to execute it.

```
root@ORADB:~

File   Edit   View   Terminal   Tabs   Help

[root@ORADB ~]# telnet 10.192.2.150 5024
Trying 10.192.2.150...
Connected to 10.192.2.150 (10.192.2.150).
Escape character is '^]'.
 Trying to connect....
 Connected to Toolbox/IQS Manager
READY> inst:cat:full?
"Transport Blazer (10.7Gb/s) IQS-8130NGE",13,"Packet Blazer IQS-8510B",14
READY>
```

➤ For multiple SCPI commands: Copy the desired commands from any script file, enclose them in a BEGIN and END block in the Telnet editor window, and then press ENTER. For more information, see *Internal Commands of the TCP/IP over Telnet Protocol* on page 22.

3. Click ✖ to close the session.

Accessing Modules

A session can directly access an instrument using valid LINS commands such as LINS10:SOURce:DATA:TELecom:CLEar.

However, in a context of multiple sessions, additional commands are available to inform other sessions that an instrument is currently in use.

When a session uses the CONNECT LINS command, another session using the same CONNECT LINS command will receive an error indicating that the instrument is already in use.

For example:

➤ SESSION 1 sends this command:
  CONNECT LINS10

  The command returns...OK

➤ SESSION 2 sends this command:
  CONNECT LINS10

  The commands returns...Error

At this moment, SESSION 2 knows that LINS10 is already in use by another session.

Note: *Both sessions must use these commands to ensure that they receive accurate information.*

A module is released by one of the following actions:

➤ Executing the CLOSE LINS command to disconnect the link with the module. For more information, see *CLOSE LINS* on page 26.

➤ Executing the CLOSE command to end the current session once the execution of all the desired commands has been completed. For more information, see *CLOSE* on page 25.

➤ Closing the current session by clicking the Close button on the Telnet editor windows' title bar.

➤ Shutting down and restarting the client computer.

➤ A network interruption.

A module can also be released when you terminate the communication by using the KILL LINS command. For more information, see *KILL LINS* on page 30.

Internal Commands of the TCP/IP over Telnet Protocol
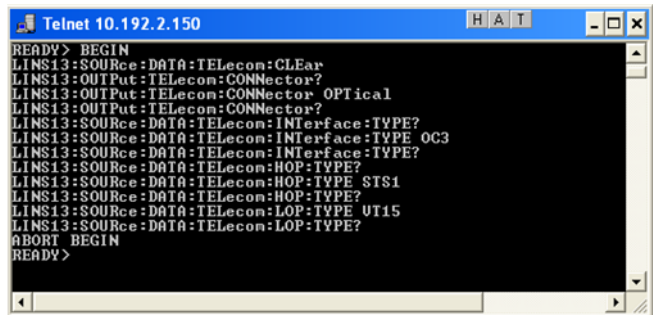
The internal commands allow you to perform certain actions such as send SCPI commands as a script instead of one by one, force the disconnection of an active session, view the status of modules and of connected clients, etc. The internal commands are not case-sensitive.

ABORT BEGIN

Description	The ABORT BEGIN command prevents the execution of the SCPI commands that are enclosed in a BEGIN and END block, and returns to the READY> prompt in the Telnet editor window.
Syntax	ABORT BEGIN
Examples	


```
Telnet 10.192.2.150                              H A T    _ □ ×
READY> BEGIN
LINS13:SOURce:DATA:TELecom:CLEar
LINS13:OUTPut:TELecom:CONNector?
LINS13:OUTPut:TELecom:CONNector OPTical
LINS13:OUTPut:TELecom:CONNector?
LINS13:SOURce:DATA:TELecom:INTerface:TYPE?
LINS13:SOURce:DATA:TELecom:INTerface:TYPE OC3
LINS13:SOURce:DATA:TELecom:INTerface:TYPE?
LINS13:SOURce:DATA:TELecom:HOP:TYPE?
LINS13:SOURce:DATA:TELecom:HOP:TYPE STS1
LINS13:SOURce:DATA:TELecom:HOP:TYPE?
LINS13:SOURce:DATA:TELecom:LOP:TYPE VT15
LINS13:SOURce:DATA:TELecom:LOP:TYPE?
ABORT BEGIN
READY>
```

BEGIN and END
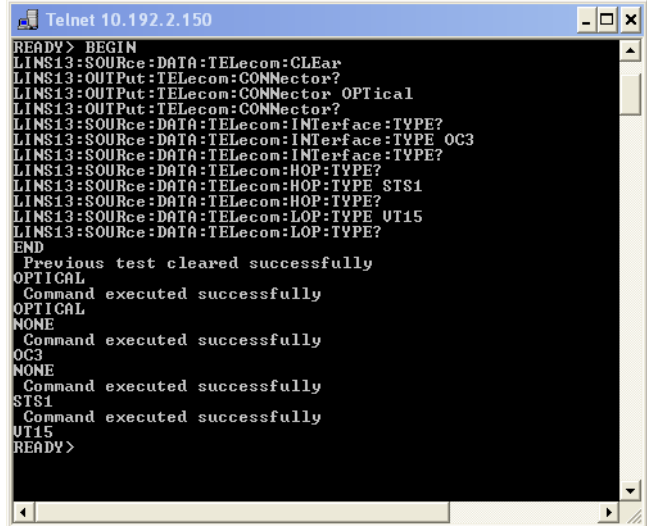
Description	The BEGIN and END commands allow to define blocks of SCPI commands (script) in a Telnet editor window. The SCPI commands enclosed in BEGIN and END blocks will be executed in batch.
Syntax	BEGIN
	<SCPI_command>
	<SCPI_command>
	...
	END

BEGIN and END

Examples

```
Telnet 10.192.2.150                                        _ □ ×
READY> BEGIN
LINS13:SOURce:DATA:TELecom:CLEar
LINS13:OUTPut:TELecom:CONNector?
LINS13:OUTPut:TELecom:CONNector OPTical
LINS13:OUTPut:TELecom:CONNector?
LINS13:SOURce:DATA:TELecom:INTerface:TYPE?
LINS13:SOURce:DATA:TELecom:INTerface:TYPE OC3
LINS13:SOURce:DATA:TELecom:INTerface:TYPE?
LINS13:SOURce:DATA:TELecom:HOP:TYPE?
LINS13:SOURce:DATA:TELecom:HOP:TYPE STS1
LINS13:SOURce:DATA:TELecom:HOP:TYPE?
LINS13:SOURce:DATA:TELecom:LOP:TYPE VT15
LINS13:SOURce:DATA:TELecom:LOP:TYPE?
END
 Previous test cleared successfully
OPTICAL
 Command executed successfully
OPTICAL
NONE
 Command executed successfully
OC3
NONE
 Command executed successfully
STS1
 Command executed successfully
VT15
READY>
```

Notes

➤ To execute a single command, simply type or paste the command in the Telnet editor window.

➤ You cannot enclose internal commands in a BEGIN and END block, except the ABORT BEGIN command.
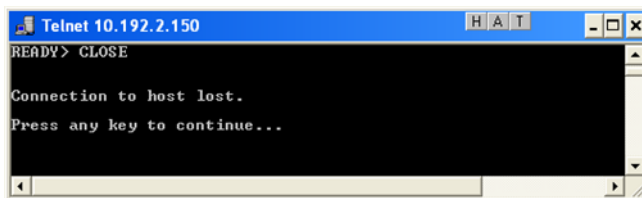
CLOSE

Description	The CLOSE command terminates the current Telnet session.
Syntax	CLOSE
Examples	

CLOSE LINS

Description   This command allows to close any active connections that have been previously established with the CONNECT LINS command (see *CONNECT LINS* on page 28). You can send this command to close all client's connections to any module, including the current connection.

Syntax   The syntax of the command vary according to the type of platform you are using.

➤ For IQS-600 and FTB-500:

CLOSE LINS<Unit_Number><Slot_Number>

You must specify the unit number and the slot number identifying the module for which you want to close the connections.

➤ For LTB-1, LTB-2, LTB-8, FTB-1v2, FTB-1v2 Pro, FTB-2, FTB-2 Pro, and FTB-4 Pro:

CLOSE LINS<Logical_Instrument_Number>

You must specify the logical instrument number corresponding to the module for which you want to close the connections. This number is configurable from the Remote Control Configuration application.

CLOSE LINS

Examples

```
Telnet 10.192.3.13
Trying to connect....
Connected to Toolbox/IQS Manager.
READY> connect lins14
  Client: 10.192.2.218:2190 connected to Module at LINS14 now.
READY> close lins14
  LINS14 is closed by this client.
READY> _
```

Notes

➤ If the command is not executed successfully, a possible reason could be that the provided information does not correspond to a valid LINS.

➤ On all platforms except IQS-600 and FTB-500, CLOSE LINS does not prevent another session from accessing the instrument using a direct LINS command.

CONNECT LINS

Description   This command allows to inform other sessions that you are connected to one or more instruments.

Syntax   The syntax of the command vary according to the type of platform you are using.

➤ For IQS-600 and FTB-500:

CONNECT LINS<Unit_Number><Slot_Number>

You must specify the unit number and the slot number identifying the module to which the session will connect.

➤ For LTB-1, LTB-2, LTB-8, FTB-1v2, FTB-1v2 Pro, FTB-2, FTB-2 Pro, and FTB-4 Pro:

CONNECT LINS<Logical_Instrument_Number>

You must specify the logical instrument number corresponding to the module to which the session will connect. This number is configurable from the Remote Control Configuration application.

CONNECT LINS

Examples

Notes

➤ On all platforms except IQS-600 and FTB-500, for compatibility reasons, you can connect to a module with a valid instrument command and a valid LINS (such as Lins10:SOURce:DATA:TELecom:CLEar). However, there will be no way for other sessions to know that you are connected to this instrument.

➤ If the command is not executed successfully, the possible reasons could be:

➤ The module is already connected to a different client session.

➤ The provided information does not correspond to a valid LINS.
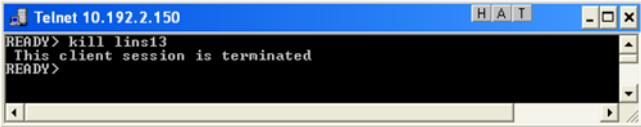
KILL LINS

Description

This command allows any user to terminate the session that contains the specified connection (LINS), if this connection has been previously established with the CONNECT LINS command (see *CONNECT LINS* on page 28). This means that it will terminate all active connections that belong to a session if these connections have been previously established with CONNECT LINS.

Syntax

The syntax of the command vary according to the type of platform you are using.

➤ For IQS-600 and FTB-500:

KILL LINS<Unit_Number><Slot_Number>

You must specify the unit number and the slot number identifying the module for which you want to terminate the session.

➤ For LTB-1, LTB-2, LTB-8, FTB-1v2, FTB-1v2 Pro, FTB-2, FTB-2 Pro, and FTB-4 Pro:

KILL LINS<Logical_Instrument_Number>

You must specify the logical instrument number corresponding to the module for which you want to terminate the session. This number is configurable from the Remote Control Configuration application.

Examples


```
Telnet 10.192.2.150                          H A T    _ □ ×
READY> kill lins13
  This client session is terminated
READY>
```
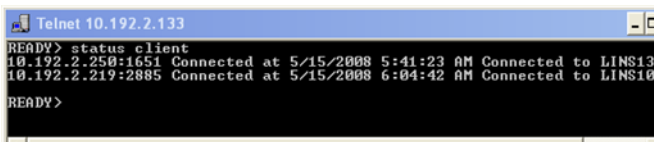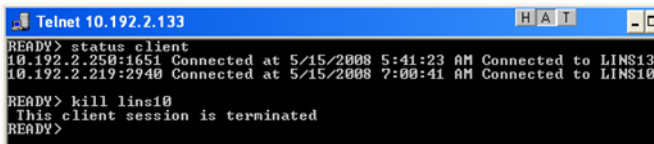
KILL LINS

Notes
➤ To know the status of the modules before terminating connections using the KILL LINS command, you can first enter the STATUS CLIENT command. For more information, see *STATUS CLIENT* on page 32.

In the example below, two modules are connected: LINS13 and LINS10.
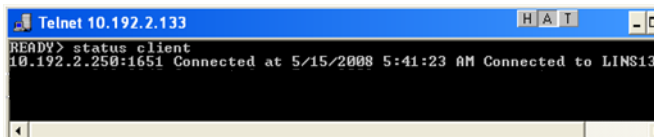
➤ To disconnect the LINS10 module used by another session, enter the *kill lins10* command. A confirmation message is displayed once the module is disconnected.

➤ Enter again the STATUS CLIENT command to confirm the termination of the module (LINS10 in our example). Only the information of the remaining connected client is displayed.
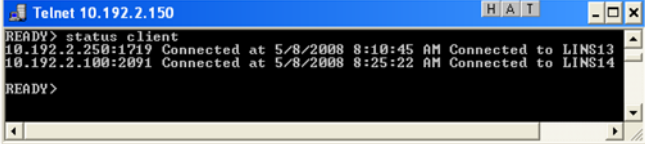
STATUS CLIENT

Description

This command lists out all clients with their connection time and modules.

Syntax

STATUS CLIENT

Examples
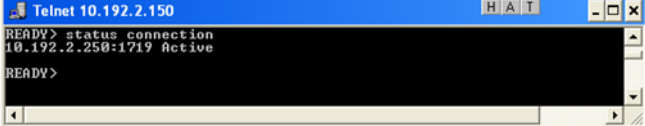
STATUS CONNECTION

Description

This command lists out all the connections with their *Idle* or *Active* status.

Syntax

STATUS CONNECTION

Examples
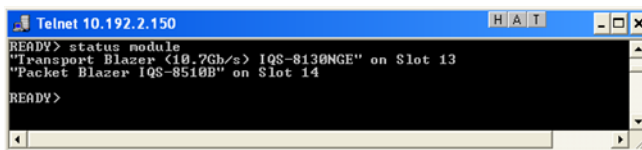
Notes

By default, any connection that is idle for 5 minutes or more is identified as *Idle*.

STATUS MODULE

Description   This command lists out all the modules with the slot numbers where they are located (IQS-600 and FTB-500), or with their LINS (all other platforms).

Syntax   STATUS MODULE

Examples
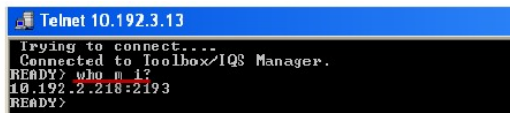
WHO M I?

Description   This command retrieves the IP address and the communication port of the current session.

Syntax   WHO M I?

Examples

4 *SCPI Command List - General*

Note: *The symbol || precedes a parallel interface command when a different command is used for a serial interface.*

Note: *For **Dual Port** topology or multi-port test (FlexE/FlexO) use the following command to select the port for subsequent commands/queries:*
:SOURce:DATA:TELecom:PORT

Note: *For multiple link interface (for example 2 x 100GE), use the following command to select the link for subsequent commands/queries:*
:SOURce:DATA:TELecom:LINK

Delay Between SCPI Commands

:CONFig:WAIT:TIME

Standard or T.50 Control Characters for Trace Message Commands

:SOURce:DATA:TELecom:ControlCHAracter:MODE
:SOURce:DATA:TELecom:ControlCHAracter:MODE?

Date/Time Format

:CONFig:TIMe:FORMat
:CONFig:TIMe:FORMat?

Test Applications

:SOURce:DATA:TELecom:TEST:TYPE
:SOURce:DATA:TELecom:TEST:TYPE?

DSn/PDH BERT and NI/CSU Emulation:
:SOURce:DATA:TELecom:SONet:TEST:TYPE
:SOURce:DATA:TELecom:SONet:TEST:TYPE?

Status Bar

Live Power
:FETCh:DATA:TELecom:OPTical:LIVE:POWer:STATus?
:FETCh:DATA:TELecom:OPTical:LIVE:POWer?

Global Indicator

Alarms/Errors
:FETCh:DATA:TELecom:AlarmERRor:CURRent?
:FETCh:DATA:TELecom:AlarmERRor:HISTory?

Time Elapsed
:FETCh:DATA:TELecom:TEST:TIME?

Start/Stop/TX Button

Start/**Stop** button
:SOURce:DATA:TELecom:TEST
:SOURce:DATA:TELecom:TEST?

TX button
:SOURce:DATA:TELecom:ETHernet:STReam:STATus
:SOURce:DATA:TELecom:ETHernet:STReam:STATus?

Reset Button

:SOURce:DATA:TELecom:RESet

Save/Load Button

:CONFig:DATA:TELecom:LOAD
:CONFig:DATA:TELecom:SAVE

Laser Button

:OUTPut:TELecom:LASer
:OUTPut:TELecom:LASer?

Discover Remote Button

See *Discover Remote Button*.

Lpbk Tool Button

See *Lpbk Tool Button (Loopback Tool)*
See *Lpbk Tool Button (Interface)*
Refer to Network on page 330
Refer to SFP+ on page 229

Discover Remote Button

Remote Module Type

:SOURce:DATA:TELecom:ETHernet:REMote:MODule:TYPE
:SOURce:DATA:TELecom:ETHernet:REMote:MODule:TYPE

Remote Modules Discovery (EXFO)

Scan
:SOURce:DATA:TELecom:ETHernet:REMote:SSUBnet
:SOURce:DATA:TELecom:ETHernet:REMote:SSUBnet?

Target
:SOURce:DATA:TELecom:ETHernet:REMote:SCANtarget:TYPE
:SOURce:DATA:TELecom:ETHernet:REMote:SCANtarget:TYPE?

Status
:FETCh:DATA:TELecom:ETHernet:REMote:RSCStatus?

Table
:FETCh:DATA:TELecom:ETHernet:DUALtest:STATistics?

Loop Up
:SOURce:DATA:TELecom:ETHernet:REMote:LOOP:UP

Loop Down
:SOURce:DATA:TELecom:ETHernet:REMote:LOOP:DOWN

Connect
:SOURce:DATA:TELecom:ETHernet:REMote:CONNect
:SOURce:DATA:TELecom:ETHernet:REMote:CONNect?

Disconnect
:SOURce:DATA:TELecom:ETHernet:REMote:DISConnect

Remote Modules Discovery (3rd Party Loopback)

Use Stream Destination from Test Application
:SOURce:DATA:TELecom:ETHernet:REMote:TPARty:DESTination:USTReam
:SOURce:DATA:TELecom:ETHernet:REMote:TPARty:DESTination:USTReam?

Loop Layer
:SOURce:DATA:TELecom:ETHernet:REMote:TPARty:LOOP:LAYer
:SOURce:DATA:TELecom:ETHernet:REMote:TPARty:LOOP:LAYer?

Destination MAC Address
:SOURce:DATA:TELecom:ETHernet:REMote:TPARty:DESTination:MAC
:SOURce:DATA:TELecom:ETHernet:REMote:TPARty:DESTination:MAC?

Destination IP Address
:SOURce:DATA:TELecom:ETHernet:REMote:TPARty:DESTination:IP
:SOURce:DATA:TELecom:ETHernet:REMote:TPARty:DESTination:IP?

Destination Port
:SOURce:DATA:TELecom:ETHernet:REMote:TPARty:DESTination:PORT
:SOURce:DATA:TELecom:ETHernet:REMote:TPARty:DESTination:PORT?

Remote Module ID
:FETCh:DATA:TELecom:ETHernet:REMote:TPARty:MODule:ID?

Remote Status
:FETCh:DATA:TELecom:ETHernet:REMote:TPARty:MODule:STATus?

Loop UP/Down
:SOURce:DATA:TELecom:ETHernet:REMote:TPARty:LOOP:UP
:SOURce:DATA:TELecom:ETHernet:REMote:TPARty:LOOP:DOWN

Lpbk Tool Button (Loopback Tool)

> # IMPORTANT
>
> **Before to be able to use the Loopback Tool it has to be enabled using the command:**
>
> **SOUR:DATA:TEL:ETH:SLT:ENAB ON**

Enable/Disable Loopback Tool
:SOURce:DATA:TELecom:ETHernet:SLTool:ENABle
:SOURce:DATA:TELecom:ETHernet:SLTool:ENABle?

Status
:FETCh:DATA:TELecom:TEST:SLTool:STATus?

Start Time
:FETCh:DATA:TELecom:TEST:SLTool:STARt:TIME?

Transparent (Pseudo-Physical)
:SOURce:DATA:TELecom:ETHernet:SLTool:SLOopback:TRANsparent:MODE:ENABle
:SOURce:DATA:TELecom:ETHernet:SLTool:SLOopback:TRANsparent:MODE:ENABle?

Loopback Mode
:SOURce:DATA:TELecom:ETHernet:SLTool:SLOopback:MODE
:SOURce:DATA:TELecom:ETHernet:SLTool:SLOopback:MODE?

Traffic

- Line Utilization
:SENSe:DATA:TELecom:ETHernet:SLTool:PACKet:LINE:UTILization?
- Ethernet BW
:SENSe:DATA:TELecom:ETHernet:SLTool:PACKet:BANDwidth?
- Frame Rate
:SENSe:DATA:TELecom:ETHernet:SLTool:PACKet:FRAMe:RATE?
- Frame Count
:SENSe:DATA:TELecom:ETHernet:SLTool:PACKet:FRAMe:COUNt?

OAM Responder

- Check Box
:SOURce:DATA:TELecom:SOAM:SLTool:RESPonder:ENABle
:SOURce:DATA:TELecom:SOAM:SLTool:RESPonder:ENABle?

- TX/RX Count
:FETCh:DATA:TELecom:SOAM:SLTool:TRAFfic:RESPonder:TX:COUNt?
:FETCh:DATA:TELecom:SOAM:SLTool:TRAFfic:RESPonder:RX:COUNt?

- TX/RX Total
:FETCh:DATA:TELecom:SOAM:SLTool:TRAFfic:RESPonder:TX:TOTal?
:FETCh:DATA:TELecom:SOAM:SLTool:TRAFfic:RESPonder:RX:TOTal?

Loopback button
:SOURce:DATA:TELecom:ETHernet:SLTool:TEST
:SOURce:DATA:TELecom:ETHernet:SLTool:TEST?

Lpbk Tool Button (Interface)

IMPORTANT

Before to be able to use the Loopback Tool it has to be enabled using the command: SOUR:DATA:TEL:ETH:SLT:ENAB ON

Physical Interface

- Interface/Rate
:SOURce:DATA:TELecom:SLTool:ITYPe
:SOURce:DATA:TELecom:SLTool:ITYPe?

- Connector
:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:TRANsceiver
:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:TRANsceiver?

- Wavelength
:SENSe:DATA:TELecom:OPTical:SLTool:LASer:WAVelength?

For tunable transceivers:
:SOURce:DATA:TELecom:OPTical:SLTool:TUNable:WAVelength?

- Modify Wavelength
Refer to *Modify Wavelength (SFP)* on page 429.

- Clock Mode
:INPut:TELecom:SLTool:BACKplane:CLOCk?

- RX Power
:SENSe:DATA:TELecom:OPTical:SLTool:RX:POWer?

- Power Range
:SENSe:DATA:TELecom:OPTical:SLTool:POWer:RANGe?

- RX Frequency
:SENSe:DATA:TELecom:OPTical:SLTool:PORT:FREQuency?
:SENSe:DATA:TELecom:ELECtrical:SLTool:PORT:FREQuency?

Link

- LINK and Alarms
:FETCh:DATA:TELecom:ETHernet:SLTool:ALARm:LINK?

- Auto-Negotiation
:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:NEGotiation
:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:NEGotiation?

- Speed
:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:BANDwidth
:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:BANDwidth?

:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:ANEGotiation:BANDwidth
:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:ANEGotiation:BANDwidth?
:FETCh:DATA:TELecom:ETHernet:SLTool:PORT:BANDwidth?

- Duplex
:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:DUPLex?
:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:ANEGotiation:DUPLex
:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:ANEGotiation:DUPLex?
:FETCh:DATA:TELecom:ETHernet:SLTool:PORT:DUPLex?

- Flow Control
:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:FCONtrol?
:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:ANEGotiation:FCONtrol?
:FETCh:DATA:TELecom:ETHernet:SLTool:PORT:FCONtrol?

- Cable Mode
:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:CABLe:MODE
:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:CABLe:MODE?
Type selection
:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:CABLe:MODE:STATus
:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:CABLe:MODE:STATus?

- Local Clock
:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:LOCal:CLOCk
:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:LOCal:CLOCk?
:FETCh:DATA:TELecom:ETHernet:SLTool:PORT:LOCal:CLOCk?

About (i) Button

Module Details

- Module ID
:FETCh:DATA:TELecom:MODule:DETails:MID?

- Serial Number
:FETCh:DATA:TELecom:MODule:DETails:SNUMber?

Assembly Hardware Revision
:FETCh:DATA:TELecom:MODule:DETails:AHRevision?

- Calibration Date
:FETCh:DATA:TELecom:MODule:DETails:CDATe?

- Software Product Verison
:FETCh:DATA:TELecom:MODule:DETails:SPVersion?

5 *SCPI Command List - Setup*

Note: *The symbol || precedes a parallel interface command when a different command is used for a serial interface.*

Note: *For **Dual Port** topology or multi-port test (FlexE/FlexO) use the following command to select the port for subsequent commands/queries:*
:SOURce:DATA:TELecom:PORT

Note: *For multiple link interface (for example 2 x 100GE), use the following command to select the link for subsequent commands/queries:*
:SOURce:DATA:TELecom:LINK

List of Pages

1588 PTP (Client)

PTP

Link Status
:FETCh:DATA:TELecom:PACKetsync:PTP:STATus?

Profile
:FETCh:DATA:TELecom:PACKetsync:PTP:PROFile?

Domain
:SOURce:DATA:TELecom:PACKetsync:PTP:DOMain
:SOURce:DATA:TELecom:PACKetsync:PTP:DOMain?

Framing
:FETCh:DATA:TELecom:PACKetsync:PTP:FRAMing?

Pkt Mode
:FETCh:DATA:TELecom:PACKetsync:PTP:MODE?

Multicast MAC
Selection from the list:
:SOURce:DATA:TELecom:PACKetsync:PTP:MMAC
:SOURce:DATA:TELecom:PACKetsync:PTP:MMAC?
Selecting User Defined:
:SOURce:DATA:TELecom:PACKetsync:PTP:UDMAc:STATus
:SOURce:DATA:TELecom:PACKetsync:PTP:UDMAc:STATus?
Entering User Defined Address:
:SOURce:DATA:TELecom:PACKetsync:PTP:UDMAc:ADDRess
:SOURce:DATA:TELecom:PACKetsync:PTP:UDMAc:ADDRess?

GM/BC IP Address
IPv4
:SOURce:DATA:TELecom:PACKetsync:PTP:GMIPaddress
:SOURce:DATA:TELecom:PACKetsync:PTP:GMIPaddress?
IPv6
:SOURce:DATA:TELecom:PACKetsync:PTP:GMADdress:IPVersion
:SOURce:DATA:TELecom:PACKetsync:PTP:GMADdress:IPVersion?

Flow Label (IPv6)
:SOURce:DATA:TELecom:PACKetsync:PTP:FLABel
:SOURce:DATA:TELecom:PACKetsync:PTP:FLABel?

IP TOS/DS / **Traffic Class (TOS/DS)**
:SOURce:DATA:TELecom:PACKetsync:PTP:IPTosds
:SOURce:DATA:TELecom:PACKetsync:PTP:IPTosds?

Mechanism
:FETCh:DATA:TELecom:PACKetsync:PTP:MECHanism?

Delay Mode
:FETCh:DATA:TELecom:PACKetsync:PTP:DELay:MODE?

Connect
:SOURce:DATA:TELecom:PACKetsync:PTP:CONNect:ENABled
:SOURce:DATA:TELecom:PACKetsync:PTP:CONNect:ENABled?

Negotiation Status
:FETCh:DATA:TELecom:PACKetsync:PTP:NEGotiation:STATus?

PTP - Message Rate

Announce
:SOURce:DATA:TELecom:PACKetsync:PTP:RATE:ANNounce
:SOURce:DATA:TELecom:PACKetsync:PTP:RATE:ANNounce?

Sync
:SOURce:DATA:TELecom:PACKetsync:PTP:RATE:SYNC
:SOURce:DATA:TELecom:PACKetsync:PTP:RATE:SYNC?

Delay-Request
:SOURce:DATA:TELecom:PACKetsync:PTP:RATE:DELay:REQuest
:SOURce:DATA:TELecom:PACKetsync:PTP:RATE:DELay:REQuest?

PTP - Service Duration

Lease Duration
:FETCh:DATA:TELecom:PACKetsync:PTP:LEASe:DURation?

Renewal Interval
:FETCh:DATA:TELecom:PACKetsync:PTP:RENewal:INTerval?

Alarm Timeout/Threshold

Receipt Timeout
:SOURce:DATA:TELecom:PACKetsync:PTP:RECeipt:TIMeout
:SOURce:DATA:TELecom:PACKetsync:PTP:RECeipt:TIMeout?

IPDV Threshold
:SOURce:DATA:TELecom:PACKetsync:PTP:IPDV:THReshold
:SOURce:DATA:TELecom:PACKetsync:PTP:IPDV:THReshold?

Quality Level

QL Mismatch Monitoring
:SOURce:DATA:TELecom:PACKetsync:PTP:QL:MISMatch:ENABled
:SOURce:DATA:TELecom:PACKetsync:PTP:QL:MISMatch:ENABled?

Expected QL
:SOURce:DATA:TELecom:PACKetsync:PTP:QL:EXPected
:SOURce:DATA:TELecom:PACKetsync:PTP:QL:EXPected?

Pass/Fail Verdict

:SOURce:DATA:TELecom:PACKetsync:PTP:VERDict:ENABled
:SOURce:DATA:TELecom:PACKetsync:PTP:VERDict:ENABled?

Restore 1588 PTP Defaults

:SOURce:DATA:TELecom:RESTore:DEFault

1588 PTP (GM)

PTP

Link Status
:FETCh:DATA:TELecom:PACKetsync:PTP:STATus?

Profile
:FETCh:DATA:TELecom:PACKetsync:PTP:PROFile?

Domain
:SOURce:DATA:TELecom:PACKetsync:PTP:DOMain
:SOURce:DATA:TELecom:PACKetsync:PTP:DOMain?

Framing
:FETCh:DATA:TELecom:PACKetsync:PTP:FRAMing?

Pkt Mode
:FETCh:DATA:TELecom:PACKetsync:PTP:MODE?

Multicast MAC
Selection from the list:
:SOURce:DATA:TELecom:PACKetsync:PTP:MMAC
:SOURce:DATA:TELecom:PACKetsync:PTP:MMAC?
Enabling User Defined:
:SOURce:DATA:TELecom:PACKetsync:PTP:UDMAc:STATus
:SOURce:DATA:TELecom:PACKetsync:PTP:UDMAc:STATus?
Entering User Defined Address:
:SOURce:DATA:TELecom:PACKetsync:PTP:UDMAc:ADDRess
:SOURce:DATA:TELecom:PACKetsync:PTP:UDMAc:ADDRess?

Mechanism
:FETCh:DATA:TELecom:PACKetsync:PTP:MECHanism?

Clock Type
:SOURce:DATA:TELecom:PACKetsync:PTP:CLOCk:TYPE
:SOURce:DATA:TELecom:PACKetsync:PTP:CLOCk:TYPE?

Delay Mode
:FETCh:DATA:TELecom:PACKetsync:PTP:DELay:MODE?

Delay Req Receipt Timeout
:SOURce:DATA:TELecom:PACKetsync:PTP:RECeipt:TIMeout
:SOURce:DATA:TELecom:PACKetsync:PTP:RECeipt:TIMeout?

Pass/Fail Verdict
:SOURce:DATA:TELecom:PACKetsync:PTP:VERDict:ENABled
:SOURce:DATA:TELecom:PACKetsync:PTP:VERDict:ENABled?

Clock Attributes

Clock Class
:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CCLass
:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CCLass?
:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CCCode
:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CCCode?

Clock Accuracy
:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CACCuracy
:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CACCuracy?

Time Source
:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:TSOurce
:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:TSOurce?

Clock Identity
:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CIDentity?

UTC Offset
:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:UTCoffset
:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:UTCoffset?

Priority 1
:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:PONE
:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:PONE?

Priority 2
:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:PTWO
:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:PTWO?

Steps Removed

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:SREMoved
:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:SREMoved?

Current UTC Offset Valid

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:UTCoffset:VALid
:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:UTCoffset:VALid

PTP Timescale

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:TIMescale
:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:TIMescale?

Time Traceable

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:TTRaceable
:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:TTRaceable?

Frequency Traceable

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:FTRaceable
:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:FTRaceable?

Restore 1588 PTP Defaults

:SOURce:DATA:TELecom:RESTore:DEFault

BERT and Unframed BERT (Transport)

Note: *For EtherBERT Unframed serial interface, see EtherBERT and Unframed BERT on page 78.*

Pattern

LINK
:FETCh:DATA:TELecom:EOTN:ALARm:LINK?

Coupled RX to TX
Framed
:SENSe:DATA:TELecom:COUPled
:SENSe:DATA:TELecom:COUPled?

Unframed
:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:COUPled
:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:COUPled?

No Pattern Analysis (Live)
:SENSe:DATA:TELecom:PATTern:RXPanalysis:STATus
:SENSe:DATA:TELecom:PATTern:RXPanalysis:STATus?

All Lanes
:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:ALL
:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:ALL?

TX Pattern
Framed
:SOURce:DATA:TELecom:PATTern:TYPE
:SOURce:DATA:TELecom:PATTern:TYPE?
:SOURce:DATA:TELecom:PATTern:TYPE:USER:VALue
:SOURce:DATA:TELecom:PATTern:TYPE:USER:VALue?
Invert
:SOURce:DATA:TELecom:POLarity
:SOURce:DATA:TELecom:POLarity?

Unframed

:SOURce:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:TX
:SOURce:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:TX?
:SOURce:DATA:TELecom:UPRBs:PATTern:PRBS:TYPE:TX
:SOURce:DATA:TELecom:UPRBs:PATTern:PRBS:TYPE:TX?

Invert

:SOURce:DATA:TELecom:UPRBs:PATTern:GLOBal:POLarity:TX
:SOURce:DATA:TELecom:UPRBs:PATTern:GLOBal:POLarity:TX?
:SOURce:DATA:TELecom:UPRBs:PATTern:POLarity:TX
:SOURce:DATA:TELecom:UPRBs:PATTern:POLarity:TX?

RX Pattern

Framed

:SENSe:DATA:TELecom:PATTern:TYPE
:SENSe:DATA:TELecom:PATTern:TYPE?
:SENSe:DATA:TELecom:PATTern:TYPE:USER:VALue
:SENSe:DATA:TELecom:PATTern:TYPE:USER:VALue?

Invert

:SENSe:DATA:TELecom:POLarity
:SENSe:DATA:TELecom:POLarity?

Unframed

:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:RX
:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:RX?
:SENSe:DATA:TELecom:UPRBs:PATTern:PRBS:TYPE:RX
:SENSe:DATA:TELecom:UPRBs:PATTern:PRBS:TYPE:RX?

Invert

:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:POLarity:RX
:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:POLarity:RX?
:SENSe:DATA:TELecom:UPRBs:PATTern:POLarity:RX
:SENSe:DATA:TELecom:UPRBs:PATTern:POLarity:RX?

Pattern Sync

:FETCh:DATA:TELecom:PATTern:ALARm:SYNC?
:FETCh:DATA:TELecom:PATTern:GLOBal:ALARm:SYNC?

Bit Error

Pass/Fail Verdict and **BER Threshold**
- Framed
:SENSe:DATA:TELecom:PATTern:THReshold:RATE
:SENSe:DATA:TELecom:PATTern:THReshold:RATE?
:SENSe:DATA:TELecom:PATTern:THReshold:COUNt
:SENSe:DATA:TELecom:PATTern:THReshold:COUNt?
:SOURce:DATA:TELecom:PATTern:VERDict:DISable

- Unframed
:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:RATE
:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:RATE?
:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:COUNt
:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:COUNt?
:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:VERDict:DISable

Lane TX/RX Pattern and Invert

TX Pattern
:SOURce:DATA:TELecom:UPRBs:PATTern:PRBS:TYPE:TX
:SOURce:DATA:TELecom:UPRBs:PATTern:PRBS:TYPE:TX?
Invert
:SOURce:DATA:TELecom:UPRBs:PATTern:POLarity:TX
:SOURce:DATA:TELecom:UPRBs:PATTern:POLarity:TX?

RX Pattern
:SENSe:DATA:TELecom:UPRBs:PATTern:PRBS:TYPE:RX
:SENSe:DATA:TELecom:UPRBs:PATTern:PRBS:TYPE:RX?
Invert
:SENSe:DATA:TELecom:UPRBs:PATTern:POLarity:RX
:SENSe:DATA:TELecom:UPRBs:PATTern:POLarity:RX?

Service Disruption

Disruption Monitoring

:SENSe:DATA:TELecom:SDT

:SENSe:DATA:TELecom:SDT?

Defect

:SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE

:SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE?

:SENSe:DATA:TELecom:SDT:OTN:DSELection

:SENSe:DATA:TELecom:SDT:OTN:DSELection?

No Defect time

:SENSe:DATA:TELecom:SDT:NDTime

:SENSe:DATA:TELecom:SDT:NDTime?

Pass/Fail Verdict

:SENSe:DATA:TELecom:SDT:VERDict

:SENSe:DATA:TELecom:SDT:VERDict?

SDT Threshold

:SENSe:DATA:TELecom:SDT:THReshold

:SENSe:DATA:TELecom:SDT:THReshold?

Restore [test] Defaults

:SOURce:DATA:TELecom:OTN:REStore:DEFault

BERT and Unframed BERT (CPRI/OBSAI)

Pattern

Coupled RX to TX
Framed
:SENSe:DATA:TELecom:COUPled
:SENSe:DATA:TELecom:COUPled?

Unframed
:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:COUPled
:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:COUPled?

No Pattern Analysis (Live)
:SENSe:DATA:TELecom:PATTern:RXPanalysis:STATus
:SENSe:DATA:TELecom:PATTern:RXPanalysis:STATus?

TX Pattern
Framed
:SOURce:DATA:TELecom:PATTern:TYPE
:SOURce:DATA:TELecom:PATTern:TYPE?
:SOURce:DATA:TELecom:PATTern:TYPE:USER:VALue
:SOURce:DATA:TELecom:PATTern:TYPE:USER:VALue?
Invert
:SOURce:DATA:TELecom:POLarity
:SOURce:DATA:TELecom:POLarity?

Unframed
:SOURce:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:TX
:SOURce:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:TX?
Invert
:SOURce:DATA:TELecom:UPRBs:PATTern:GLOBal:POLarity:TX
:SOURce:DATA:TELecom:UPRBs:PATTern:GLOBal:POLarity:TX?

RX Pattern
Framed
:SENSe:DATA:TELecom:PATTern:TYPE
:SENSe:DATA:TELecom:PATTern:TYPE?

:SENSe:DATA:TELecom:PATTern:TYPE:USER:VALue
:SENSe:DATA:TELecom:PATTern:TYPE:USER:VALue?
Invert
:SENSe:DATA:TELecom:POLarity
:SENSe:DATA:TELecom:POLarity?

Unframed
:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:RX
:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:RX?
Invert
:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:POLarity:RX
:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:POLarity:RX?

Pattern Sync
:FETCh:DATA:TELecom:PATTern:GLOBal:ALARm:SYNC?

Bit Error

Pass/Fail Verdict and **BER Threshold**
:SENSe:DATA:TELecom:PATTern:THReshold:RATE
:SENSe:DATA:TELecom:PATTern:THReshold:RATE?
:SENSe:DATA:TELecom:PATTern:THReshold:COUNt
:SENSe:DATA:TELecom:PATTern:THReshold:COUNt?
:SOURce:DATA:TELecom:PATTern:VERDict:DISable

Unframed
:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:RATE
:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:RATE?
:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:COUNt
:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:COUNt?
:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:VERDict:DISable

CPRI

Pass/Fail Verdict
:SOURce:DATA:TELecom:CPRI:VERDict:ENABle
:SOURce:DATA:TELecom:CPRI:VERDict:ENABle?

OBSAI

Pass/Fail Verdict
:SOURce:DATA:TELecom:CPRI:OBSai:VERDict:ENABle
:SOURce:DATA:TELecom:CPRI:OBSai:VERDict:ENABle?

Service Disruption

Disruption Monitoring
:SENSe:DATA:TELecom:SDT
:SENSe:DATA:TELecom:SDT?

No Defect Time
:SENSe:DATA:TELecom:SDT:NDTime
:SENSe:DATA:TELecom:SDT:NDTime?

Pass/Fail Verdict
:SENSe:DATA:TELecom:SDT:VERDict
:SENSe:DATA:TELecom:SDT:VERDict?

SDT Threshold
:SENSe:DATA:TELecom:SDT:THReshold
:SENSe:DATA:TELecom:SDT:THReshold?

Restore CPRI/OBSAI Defaults

:SOURce:DATA:TELecom:RESTore:DEFault

BERT (DCO BERT)

Note: *Not supported yet.*

BERT and Unframed BERT (eCPRI)

Pattern

Coupled RX to TX
Framed
:SENSe:DATA:TELecom:COUPled
:SENSe:DATA:TELecom:COUPled?

Unframed
:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:COUPled
:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:COUPled?

No Pattern Analysis (Live)
:SENSe:DATA:TELecom:PATTern:RXPanalysis:STATus
:SENSe:DATA:TELecom:PATTern:RXPanalysis:STATus?

TX Pattern
Framed
:SOURce:DATA:TELecom:PATTern:TYPE
:SOURce:DATA:TELecom:PATTern:TYPE?
:SOURce:DATA:TELecom:PATTern:TYPE:USER:VALue
:SOURce:DATA:TELecom:PATTern:TYPE:USER:VALue?
Invert
:SOURce:DATA:TELecom:POLarity
:SOURce:DATA:TELecom:POLarity?

Unframed
:SOURce:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:TX
:SOURce:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:TX?
Invert
:SOURce:DATA:TELecom:UPRBs:PATTern:GLOBal:POLarity:TX
:SOURce:DATA:TELecom:UPRBs:PATTern:GLOBal:POLarity:TX?

RX Pattern
Framed
:SENSe:DATA:TELecom:PATTern:TYPE
:SENSe:DATA:TELecom:PATTern:TYPE?

:SENSe:DATA:TELecom:PATTern:TYPE:USER:VALue
:SENSe:DATA:TELecom:PATTern:TYPE:USER:VALue?
Invert
:SENSe:DATA:TELecom:POLarity
:SENSe:DATA:TELecom:POLarity?

Unframed
:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:RX
:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:RX?
Invert
:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:POLarity:RX
:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:POLarity:RX?

Pattern Sync
:FETCh:DATA:TELecom:PATTern:GLOBal:ALARm:SYNC?

Bit Error

Pass/Fail Verdict and **BER Threshold**
:SENSe:DATA:TELecom:PATTern:THReshold:RATE
:SENSe:DATA:TELecom:PATTern:THReshold:RATE?
:SENSe:DATA:TELecom:PATTern:THReshold:COUNt
:SENSe:DATA:TELecom:PATTern:THReshold:COUNt?
:SOURce:DATA:TELecom:PATTern:VERDict:DISable

Unframed
:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:RATE
:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:RATE?
:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:COUNt
:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:COUNt?
:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:VERDict:DISable

BERT (FlexE)

Pattern on Client ID (for FlexE)

:SOURce:DATA:TELecom:FETHernet:PATTern:CLIent:IDentifier
:SOURce:DATA:TELecom:FETHernet:PATTern:CLIent:IDentifier?

Pattern

Coupled RX to TX
:SENSe:DATA:TELecom:COUPled
:SENSe:DATA:TELecom:COUPled?

No Pattern Analysis (Live)
:SENSe:DATA:TELecom:PATTern:RXPanalysis:STATus
:SENSe:DATA:TELecom:PATTern:RXPanalysis:STATus?

TX Pattern
:SOURce:DATA:TELecom:PATTern:TYPE
:SOURce:DATA:TELecom:PATTern:TYPE?
:SOURce:DATA:TELecom:PATTern:TYPE:USER:VALue
:SOURce:DATA:TELecom:PATTern:TYPE:USER:VALue?
Invert
:SOURce:DATA:TELecom:POLarity
:SOURce:DATA:TELecom:POLarity?

RX Pattern
Framed
:SENSe:DATA:TELecom:PATTern:TYPE
:SENSe:DATA:TELecom:PATTern:TYPE?
:SENSe:DATA:TELecom:PATTern:TYPE:USER:VALue
:SENSe:DATA:TELecom:PATTern:TYPE:USER:VALue?
Invert
:SENSe:DATA:TELecom:POLarity
:SENSe:DATA:TELecom:POLarity?

Pattern Sync
:FETCh:DATA:TELecom:PATTern:GLOBal:ALARm:SYNC?

Bit Error

Pass/Fail Verdict and **BER Threshold**

:SENSe:DATA:TELecom:PATTern:THReshold:RATE
:SENSe:DATA:TELecom:PATTern:THReshold:RATE?
:SENSe:DATA:TELecom:PATTern:THReshold:COUNt
:SENSe:DATA:TELecom:PATTern:THReshold:COUNt?
:SOURce:DATA:TELecom:PATTern:VERDict:DISable

Cable Test

Global Options

Wiring Standards

:SOURce:DATA:TELecom:CABLetest:WIRestandard
:SOURce:DATA:TELecom:CABLetest:WIRestandard?

Pass/Fail Verdict

Prop. Delay Threshold

:SOURce:DATA:TELecom:CABLetest:PROPdelay:THReshold
:SOURce:DATA:TELecom:CABLetest:PROPdelay:THReshold?

Delay Skew Threshold

:SOURce:DATA:TELecom:CABLetest:SKEW:THReshold
:SOURce:DATA:TELecom:CABLetest:SKEW:THReshold?

Length Threshold

:SOURce:DATA:TELecom:CABLetest:LENGth:THReshold
:SOURce:DATA:TELecom:CABLetest:LENGth:THReshold?

Restore Cable Test Defaults

:SOURce:DATA:TELecom:CABLetest:REStore:THReshold:DEFault

CFP4/CFP8/OSFP/QSFP/SFP/SFP+/SFP28

Port

:SOURce:DATA:TELecom:PORT
:SOURce:DATA:TELecom:PORT?

FlexE PHY Number

:SOURce:DATA:TELecom:FETHernet:GROup:PNUMber?

FlexO Instance ID

:SOURce:DATA:TELecom:FOTN:INSTance:IDentifier?

CFP4/CFP8

:SENSe:DATA:TELecom:OPTical:CFP:MODule:ID?
:SENSe:DATA:TELecom:OPTical:CFP:VENDor:NAMe?
:SENSe:DATA:TELecom:OPTical:CFP:PART:NUMBer?
:SENSe:DATA:TELecom:OPTical:CFP:SERial:NUMBer?
:SENSe:DATA:TELecom:OPTical:CFP:REVision?
:SENSe:DATA:TELecom:OPTical:CFP:FIRMware:VERSion?
:SENSe:DATA:TELecom:OPTical:CFP:CONNector:TYPE?
:SENSe:DATA:TELecom:OPTical:CFP:SPEed?
:SENSe:DATA:TELecom:OPTical:CFP:TYPE?
:SENSe:DATA:TELecom:OPTical:CFP:POWer:CLASs?
:SENSe:DATA:TELecom:OPTical:CFP:POWer:CLASs?
:SENSe:DATA:TELecom:OPTical:CFP:POWer:CLASs?
:FETCh:DATA:TELecom:IOPTics:MONitoring:TEMPerature:ACTual?
:FETCh:DATA:TELecom:IOPTics:MONitoring:TEMPerature:MAXimum?
:SENSe:DATA:TELecom:OPTical:CFP:WDM:TYPE?
:SENSe:DATA:TELecom:OPTical:CFP:CLEI:PRESence?
:SENSe:DATA:TELecom:OPTical:CFP:MODE?

CFP4 only:
:SENSe:DATA:TELecom:OPTical:CFP:LRATio:TYPE?

CFP8 only:
:SENSe:DATA:TELecom:OPTical:CFP:HLANe:SSPec?
:SENSe:DATA:TELecom:OPTical:CFP:SCODe:CODing?
:SENSe:DATA:TELecom:OPTical:CFP:SCODe:MODulation?

OSFP

:SENSe:DATA:TELecom:OPTical:OSFP:MODule:ID?
:SENSe:DATA:TELecom:OPTical:OSFP:VENDor:NAMe?
:SENSe:DATA:TELecom:OPTical:OSFP:CLEi:CODe?
:SENSe:DATA:TELecom:OPTical:OSFP:PART:NUMBer?
:SENSe:DATA:TELecom:OPTical:OSFP:SERial:NUMBer?
:SENSe:DATA:TELecom:OPTical:OSFP:REVision?
:SENSe:DATA:TELecom:OPTical:OSFP:REVision:COMPliance?
:SENSe:DATA:TELecom:OPTical:OSFP:CONNector:TYPe?
:SENSe:DATA:TELecom:OPTical:OSFP:SPEed?
:SENSe:DATA:TELecom:OPTical:OSFP:TYPe?
:SENSe:DATA:TELecom:OPTical:OSFP:POWer:CLASs?
:FETCh:DATA:TELecom:IOPTics:MONitoring:TEMPerature:ACTual?
:FETCh:DATA:TELecom:IOPTics:MONitoring:TEMPerature:MAXimum?
:SENSe:DATA:TELecom:OPTical:OSFP:MODE?

QSFP

:SENSe:DATA:TELecom:OPTical:QSFP:MODule:ID?
:SENSe:DATA:TELecom:OPTical:QSFP:VENDor:NAMe?
:SENSe:DATA:TELecom:OPTical:QSFP:PART:NUMBer?
:SENSe:DATA:TELecom:OPTical:QSFP:SERial:NUMBer?
:SENSe:DATA:TELecom:OPTical:QSFP:REVision?
:SENSe:DATA:TELecom:OPTical:QSFP:REVision:COMPliance?
:SENSe:DATA:TELecom:OPTical:QSFP:CONNector:TYPE?
:SENSe:DATA:TELecom:OPTical:QSFP:SPEed?
:SENSe:DATA:TELecom:OPTical:QSFP:TYPE?
:SENSe:DATA:TELecom:OPTical:QSFP:POWer:CLASs?
:FETCh:DATA:TELecom:IOPTics:MONitoring:TEMPerature:ACTual?

:FETCh:DATA:TELecom:IOPTics:MONitoring:TEMPerature:MAXimum?
:SENSe:DATA:TELecom:OPTical:QSFP:CLEI:CODE?
:SENSe:DATA:TELecom:OPTical:QSFP:MODE?

SFP/SFP+/SFP28

:SENSe:DATA:TELecom:OPTical:SFP:MODule:ID?
:SENSe:DATA:TELecom:OPTical:SFP:VENDor:NAMe?
:SENSe:DATA:TELecom:OPTical:SFP:PART:NUMBer?
:SENSe:DATA:TELecom:OPTical:SFP:SERial:NUMBer?
:SENSe:DATA:TELecom:OPTical:SFP:REVision?
:SENSe:DATA:TELecom:OPTical:SFP:CONNector:TYPE?
:SENSe:DATA:TELecom:OPTical:SFP:SPEed?
:SENSe:DATA:TELecom:OPTical:SFP:TYPE?
:SENSe:DATA:TELecom:OPTical:SFP:POWer:CLASs?
:FETCh:DATA:TELecom:IOPTics:MONitoring:TEMPerature:ACTual?
:FETCh:DATA:TELecom:IOPTics:MONitoring:TEMPerature:MAXimum?
:SENSe:DATA:TELecom:OPTical:SFP:MODE?
:SENSe:DATA:TELecom:OPTical:SFP:WAVelength?

For Loopback Tool
:SENSe:DATA:TELecom:OPTical:SLTool:SFP:MODule:ID?
:SENSe:DATA:TELecom:OPTical:SLTool:SFP:VENDor:NAMe?
:SENSe:DATA:TELecom:OPTical:SLTool:SFP:PART:NUMBer?
:SENSe:DATA:TELecom:OPTical:SLTool:SFP:SERial:NUMBer?
:SENSe:DATA:TELecom:OPTical:SLTool:SFP:REVision?
:SENSe:DATA:TELecom:OPTical:SLTool:SFP:CONNector:TYPE?
:SENSe:DATA:TELecom:OPTical:SLTool:SFP:SPEed?
:SENSe:DATA:TELecom:OPTical:SLTool:SFP:TYPE?
:SENSe:DATA:TELecom:OPTical:SLTool:SFP:MODE?
:SENSe:DATA:TELecom:OPTical:SLTool:SFP:WAVelength?

Clients - Path OAM

Path OAM
:SOURce:DATA:TELecom:FETHernet:POAM:GSTatus
:SOURce:DATA:TELecom:FETHernet:POAM:GSTatus?

OAM Responder
:SOURce:DATA:TELecom:FETHernet:POAM:RESPonder:ENABle
:SOURce:DATA:TELecom:FETHernet:POAM:RESPonder:ENABle?

Global Pass/Fail Verdict
:SOURce:DATA:TELecom:FETHernet:POAM:VERDisct:ENABle
:SOURce:DATA:TELecom:FETHernet:POAM:VERDisct:ENABle?

Path OAM on Client ID
:SOURce:DATA:TELecom:FETHernet:POAM:CLIent:IDentifier
:SOURce:DATA:TELecom:FETHernet:POAM:CLIent:IDentifier?

Basic OAM

CC Function
:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:CCFunction
:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:CCFunction?

Period
:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:PERiod
:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:PERiod?

Bidirectional Delay Measurement

2DM Function
:SOURce:DATA:TELecom:FETHernet:POAM:DELay:ENABle
:SOURce:DATA:TELecom:FETHernet:POAM:DELay:ENABle?

TX Enable
:SOURce:DATA:TELecom:FETHernet:POAM:DELay:TX:ENABle
:SOURce:DATA:TELecom:FETHernet:POAM:DELay:TX:ENABle?

Period
:SOURce:DATA:TELecom:FETHernet:POAM:DELay:TX:PERiod
:SOURce:DATA:TELecom:FETHernet:POAM:DELay:TX:PERiod?

Continuous
:SOURce:DATA:TELecom:FETHernet:POAM:DELay:TX:CONTinuous:ENABle
:SOURce:DATA:TELecom:FETHernet:POAM:DELay:TX:CONTinuous:ENABle?

Count
:SOURce:DATA:TELecom:FETHernet:POAM:DELay:TX:FRAMe:COUNt
:SOURce:DATA:TELecom:FETHernet:POAM:DELay:TX:FRAMe:COUNt?

Connectivity Verification

CV Function
:SOURce:DATA:TELecom:FETHernet:POAM:CVER:ENABle
:SOURce:DATA:TELecom:FETHernet:POAM:CVER:ENABle?

Period
:SOURce:DATA:TELecom:FETHernet:POAM:CVER:TX:PERiod
:SOURce:DATA:TELecom:FETHernet:POAM:CVER:TX:PERiod?

Expected
:SENSe:DATA:TELecom:FETHernet:POAM:CVER:MONitoring:ENABle
:SENSe:DATA:TELecom:FETHernet:POAM:CVER:MONitoring:ENABle?

SAPI Generated
:SOURce:DATA:TELecom:FETHernet:POAM:CVER:SAPI:GENeration
:SOURce:DATA:TELecom:FETHernet:POAM:CVER:SAPI:GENeration?
:SENSe:DATA:TELecom:FETHernet:POAM:CVER:SAPI:EXPexted
:SENSe:DATA:TELecom:FETHernet:POAM:CVER:SAPI:EXPexted?

DAPI Generated
:SOURce:DATA:TELecom:FETHernet:POAM:CVER:DAPI:GENeration
:SOURce:DATA:TELecom:FETHernet:POAM:CVER:DAPI:GENeration?
:SENSe:DATA:TELecom:FETHernet:POAM:CVER:DAPI:EXPexted
:SENSe:DATA:TELecom:FETHernet:POAM:CVER:DAPI:EXPexted?

CS Type

CS Type Function

:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:ENABle
:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:ENABle?

Period

:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:TX:PERiod
:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:TX:PERiod?

Type

:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:TYPE:GENerated
:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:TYPE:GENerated?

Expected

:SENSe:DATA:TELecom:FETHernet:POAM:CSIGnal:MONitoring:ENABle
:SENSe:DATA:TELecom:FETHernet:POAM:CSIGnal:MONitoring:ENABle?
:SENSe:DATA:TELecom:FETHernet:POAM:CSIGnal:TYPE:EXPexted
:SENSe:DATA:TELecom:FETHernet:POAM:CSIGnal:TYPE:EXPexted?

Clients - Profile

Client ID

:SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier
:SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier?

Size

:SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:CONFig?

Ethernet Frame

:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE
:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE?

Shapping

TX Rate
:SOURce:DATA:TELecom:ETHernet:STReam:RATE
:SOURce:DATA:TELecom:ETHernet:STReam:RATE?

Enable TX
:SOURce:DATA:TELecom:ETHernet:STReam:TX:STATus
:SOURce:DATA:TELecom:ETHernet:STReam:TX:STATus?

Clock

Clock Synchronization

Clock Mode
:INPut:TELecom:BACKplane:CLOCk
:INPut:TELecom:BACKplane:CLOCk?

Tributary Synchronization

Clock Mode
:INPut:TELecom:TRIButary:CLOCk
:INPut:TELecom:TRIButary:CLOCk?

Internal GNSS

Reference is set to **IPPS**, no SCPI command.

Ext Clock In

Interface
:OUTPut:TELecom:LEVel
:OUTPut:TELecom:LEVel?
:OUTPut:TELecom:CLOCk:ALARm:STATus?

Termination Mode
:OUTPut:TELecom:TERMination
:OUTPut:TELecom:TERMination?

Line Coding
:OUTPut:TELecom:CODE
:OUTPut:TELecom:CODE?

Framing
:OUTPut:TELecom:FRAMing
:OUTPut:TELecom:FRAMing?

Frequency
:OUTPut:TELecom:CLOCk:FREQuency?

Offset
:OUTPut:TELecom:CLOCk:FREQuency:OFFSet?

Ext Clock Out

Interface
:INPut:TELecom:LEVel
:INPut:TELecom:LEVel?

LBO
:INPut:TELecom:LBO
:INPut:TELecom:LBO?

Line Coding
:INPut:TELecom:CODE
:INPut:TELecom:CODE?

Framing
:INPut:TELecom:FRAMing
:INPut:TELecom:FRAMing?

Ref Out

Source
:INPut:TELecom:COUTput:SOURce
:INPut:TELecom:COUTput:SOURce?

Frequency
:INPut:TELecom:COUTput:FREQuency?
:INPut:TELecom:COUTput:STATus?

Backplane

Backplane Clock

:INPut:TELecom:BCLock:ENABle
:INPut:TELecom:BCLock:ENABle?
:INPut:TELecom:CLOCk:ALARm:STATus?

Device Under Test - iOptics

Transceiver selection

:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

:SOURce:DATA:TELecom:IOPTics:LOOPback:PORT?

Use with QSFP28 to SFP28 Adapter
:SOURce:DATA:TELecom:IOPTics:ADAPter:QSFP:SFP:ENABle?

Rate

:SOURce:DATA:TELecom:IOPTics:RATE
:SOURce:DATA:TELecom:IOPTics:RATE?

Bidirectional

:SOURce:DATA:TELecom:IOPTics:BDIRectional
:SOURce:DATA:TELecom:IOPTics:BDIRectional?

Host/Media Loopback

:SOURce:DATA:TELecom:IOPTics:LTYPe
:SOURce:DATA:TELecom:IOPTics:LTYPe

Parameters

See *CFP4/CFP8/OSFP/QSFP/SFP/SFP+/SFP28* on page 67.

Refer to *Modify Wavelength (SFP)* on page 429 for tunable transceivers.

Lasers OFF at Start-Up

:SENSe:DATA:TELecom:LOFF
:SENSe:DATA:TELecom:LOFF?

EtherBERT and Unframed BERT

Note: *For EtherBERT Unframed parallel interface, see BERT and Unframed BERT (Transport) on page 55.*

Link and Enable (multiple link interface)

:SOURce:DATA:TELecom:LINK
:SOURce:DATA:TELecom:LINK?

:SOURce:DATA:TELecom:LINK:ENABle
:SOURce:DATA:TELecom:LINK:ENABle

Link (for EoOTN)

Link
:FETCh:DATA:TELecom:EOTN:ALARm:LINK?
:FETCh:DATA:TELecom:ETHernet:ALARm:LINK?

Pattern

Coupled RX to TX
Framed
:SENSe:DATA:TELecom:COUPled
:SENSe:DATA:TELecom:COUPled?

Unframed
:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:COUPled
:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:COUPled?

No Pattern Analysis (Live)
:SENSe:DATA:TELecom:PATTern:RXPanalysis:STATus
:SENSe:DATA:TELecom:PATTern:RXPanalysis:STATus?

All Lanes
:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:ALL
:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:ALL?

TX Pattern

Framed

:SOURce:DATA:TELecom:PATTern:TYPE

:SOURce:DATA:TELecom:PATTern:TYPE?

:SOURce:DATA:TELecom:PATTern:TYPE:USER:VALue

:SOURce:DATA:TELecom:PATTern:TYPE:USER:VALue?

Invert

:SOURce:DATA:TELecom:POLarity

:SOURce:DATA:TELecom:POLarity?

Unframed

:SOURce:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:TX

:SOURce:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:TX?

:SOURce:DATA:TELecom:UPRBs:PATTern:PRBS:TYPE:TX

:SOURce:DATA:TELecom:UPRBs:PATTern:PRBS:TYPE:TX?

Invert

:SOURce:DATA:TELecom:UPRBs:PATTern:GLOBal:POLarity:TX

:SOURce:DATA:TELecom:UPRBs:PATTern:GLOBal:POLarity:TX?

:SOURce:DATA:TELecom:UPRBs:PATTern:POLarity:TX

:SOURce:DATA:TELecom:UPRBs:PATTern:POLarity:TX?

RX Pattern

Framed

:SENSe:DATA:TELecom:PATTern:TYPE

:SENSe:DATA:TELecom:PATTern:TYPE?

:SENSe:DATA:TELecom:PATTern:TYPE:USER:VALue

:SENSe:DATA:TELecom:PATTern:TYPE:USER:VALue?

Invert

:SENSe:DATA:TELecom:POLarity

:SENSe:DATA:TELecom:POLarity?

Unframed

:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:RX

:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:RX?

:SENSe:DATA:TELecom:UPRBs:PATTern:PRBS:TYPE:RX

:SENSe:DATA:TELecom:UPRBs:PATTern:PRBS:TYPE:RX?

Invert

:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:POLarity:RX
:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:POLarity:RX?
:SENSe:DATA:TELecom:UPRBs:PATTern:POLarity:RX
:SENSe:DATA:TELecom:UPRBs:PATTern:POLarity:RX?

Pattern Sync
:FETCh:DATA:TELecom:PATTern:ALARm:SYNC?
:FETCh:DATA:TELecom:PATTern:GLOBal:ALARm:SYNC?

Bit Error

Pass/Fail Verdict and **BER Threshold**
:SENSe:DATA:TELecom:PATTern:THReshold:RATE
:SENSe:DATA:TELecom:PATTern:THReshold:RATE?
:SENSe:DATA:TELecom:PATTern:THReshold:COUNt
:SENSe:DATA:TELecom:PATTern:THReshold:COUNt?
:SOURce:DATA:TELecom:PATTern:VERDict:DISable

Unframed
:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:RATE
:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:RATE?
:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:COUNt
:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:COUNt?
:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:VERDict:DISable

Lane TX/RX Pattern and Invert

TX Pattern
Invert
:SOURce:DATA:TELecom:UPRBs:PATTern:POLarity:TX
:SOURce:DATA:TELecom:UPRBs:PATTern:POLarity:TX?

RX Pattern
Invert
:SENSe:DATA:TELecom:UPRBs:PATTern:POLarity:RX
:SENSe:DATA:TELecom:UPRBs:PATTern:POLarity:RX?

Service Disruption

Disruption Monitoring
:SENSe:DATA:TELecom:SDT
:SENSe:DATA:TELecom:SDT?

No Traffic Time
:SENSe:DATA:TELecom:SDT:NTTime
:SENSe:DATA:TELecom:SDT:NTTime?

Pass/Fail Verdict
:SENSe:DATA:TELecom:SDT:VERDict
:SENSe:DATA:TELecom:SDT:VERDict?

SDT Threshold
:SENSe:DATA:TELecom:SDT:THReshold
:SENSe:DATA:TELecom:SDT:THReshold?

Debounce Time
:SENSe:DATA:TELecom:SDT:DT
:SENSe:DATA:TELecom:SDT:DT?

Ethernet Frame

Frame Size
:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE:TYPE
:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE:TYPE?

:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE
:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE?

Fixed - Frame Size
:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE
:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE?

EMIX, refer to *EMIX* on page 409.

Shapping

TX Rate
Ethernet
:SOURce:DATA:TELecom:ETHernet:STReam:RATE
:SOURce:DATA:TELecom:ETHernet:STReam:RATE?

Fibre Channel
:SOURce:DATA:TELecom:FIBer:STReam:RATE
:SOURce:DATA:TELecom:FIBer:STReam:RATE?

Enable TX
:SOURce:DATA:TELecom:ETHernet:STReam:TX:STATus
:SOURce:DATA:TELecom:ETHernet:STReam:TX:STATus?

Latency

Enable
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:ENABle
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:ENABle?

Mode
:SOURce:DATA:TELecom:ETHernet:STReam:LATency:MODE:TYPE
:SOURce:DATA:TELecom:ETHernet:STReam:LATency:MODE:TYPE?

Pass/Fail Verdict
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:STATus
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:STATus?

Round-Trip Threshold Threshold
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:VALue
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:VALue?

EtherSAM - Burst

Parameters

Number of Burst Sequence
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:NOBSequence
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:NOBSequence?

Refil Delay Ratio
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:RDERatio
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:RDERatio?

Burst/IR Frame Ratio
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:BIRFrame
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:BIRFrame?

Table

CBS Test Time
:FETCh:DATA:TELecom:ETHernet:ESAM:BURSt:CBS:TIME?

EBS Test Time
:FETCh:DATA:TELecom:ETHernet:ESAM:BURSt:EBS:TIME?

Total Burst Test Time
:FETCh:DATA:TELecom:ETHernet:ESAM:BURSt:TBURst:TIME?

Total
:FETCh:DATA:TELecom:ETHernet:ESAM:BURSt:TOTal?

EtherSAM - Global

Dual Test Set

Dual Test Set
:SOURce:DATA:TELecom:ETHernet:DUALtest:ENABled
:SOURce:DATA:TELecom:ETHernet:DUALtest:ENABled?

NAT LAN/WAN and **WAN IP**
:FETCh:DATA:TELecom:ETHernet:ESAM:NATDiscovery:STATus?
:FETCh:DATA:TELecom:ETHernet:ESAM:NATDiscovery:LWIPaddress?

Discover Remote Button
Refer to *Discover Remote Button*.

Subtests

Service Configuration Test
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:OVERview:SCOTest:TYPE
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:OVERview:SCOTest:TYPE?

Service Performance Test
:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:SPRTest:ENABled
:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:SPRTest:ENABled?

Subtest Duration
:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:SPRTest:DURation
:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:SPRTest:DURation?

Global Test Duration Estimation
:FETCh:DATA:TELecom:ETHernet:ESAM:GLOBal:TDURation:ESTimate?

Global Options

Per Direction Configuration
:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:PDIRection:CONFig:STATus
:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:PDIRection:CONFig:STATus?

Latency Measurement Mode
:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:LMMode
:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:LMMode?

LOPPS-L and **LOPPS-R**
:FETCh:DATA:TELecom:ETHernet:ESAM:GLOBal:LATency:ALARm:CURRent?

Restore EtherSAM Defaults

:SOURce:DATA:TELecom:ETHernet:ESAM:RESTore:DEFault

EtherSAM - Ramp

Add Step
:SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:ADD

Delete Step
:SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:DELete

Defaults
:SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:DEFault

Step Time
:SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:TIME
:SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:TIME?

Ramp Duration
:FETCh:DATA:TELecom:ETHernet:ESAM:RAMP:DURation?

FC BERT

Pattern

Coupled RX to TX
:SENSe:DATA:TELecom:COUPled
:SENSe:DATA:TELecom:COUPled?

TX Pattern
:SOURce:DATA:TELecom:PATTern:TYPE
:SOURce:DATA:TELecom:PATTern:TYPE?
:SOURce:DATA:TELecom:PATTern:TYPE:USER:VALue
:SOURce:DATA:TELecom:PATTern:TYPE:USER:VALue?
Invert
:SOURce:DATA:TELecom:POLarity
:SOURce:DATA:TELecom:POLarity?

RX Pattern
:SENSe:DATA:TELecom:PATTern:TYPE
:SENSe:DATA:TELecom:PATTern:TYPE?
:SENSe:DATA:TELecom:PATTern:TYPE:USER:VALue
:SENSe:DATA:TELecom:PATTern:TYPE:USER:VALue?
Invert
:SENSe:DATA:TELecom:POLarity
:SENSe:DATA:TELecom:POLarity?

Bit Error

Pass/Fail Verdict and BER Threshold
:SENSe:DATA:TELecom:PATTern:THReshold:RATE
:SENSe:DATA:TELecom:PATTern:THReshold:RATE?
:SENSe:DATA:TELecom:PATTern:THReshold:COUNt
:SENSe:DATA:TELecom:PATTern:THReshold:COUNt?
:SOURce:DATA:TELecom:PATTern:VERDict:DISable

Service Disruption

Disruption Monitoring
:SENSe:DATA:TELecom:SDT
:SENSe:DATA:TELecom:SDT?

No Traffic Time
:SENSe:DATA:TELecom:SDT:NTTime
:SENSe:DATA:TELecom:SDT:NTTime?

Pass/Fail Verdict
:SENSe:DATA:TELecom:SDT:VERDict
:SENSe:DATA:TELecom:SDT:VERDict?

SDT Threshold
:SENSe:DATA:TELecom:SDT:THReshold
:SENSe:DATA:TELecom:SDT:THReshold?

Debounce Time
:SENSe:DATA:TELecom:SDT:DT
:SENSe:DATA:TELecom:SDT:DT?

FC Frame

Frame Size
:SOURce:DATA:TELecom:FIBer:STReam:SIZE
:SOURce:DATA:TELecom:FIBer:STReam:SIZE?

Latency Tag Insertion

Latency Tag
:SOURce:DATA:TELecom:FIBer:STReam:LATency
:SOURce:DATA:TELecom:FIBer:STReam:LATency?

Pass/Fail Verdict
:SOURce:DATA:TELecom:FIBer:STReam:LATency:VERDict
:SOURce:DATA:TELecom:FIBer:STReam:LATency:VERDict?

Round-Trip Latency Threshold
:SENSe:DATA:TELecom:FIBer:RTLatency:THReshold
:SENSe:DATA:TELecom:FIBer:RTLatency:THReshold?

Shapping

TX Rate
:SOURce:DATA:TELecom:FIBer:STReam:RATE
:SOURce:DATA:TELecom:FIBer:STReam:RATE?

Fibre Channel

World Wide Name (WWN)

Source
:SOURce:DATA:TELecom:FIBer:PORT:WSOurce
:SOURce:DATA:TELecom:FIBer:PORT:WSOurce?

Destination
:SOURce:DATA:TELecom:FIBer:PORT:WDEStination
:SOURce:DATA:TELecom:FIBer:PORT:WDEStination?

Buffer to Buffer Flow Control

Enable
:SOURce:DATA:TELecom:FIBer:PORT:FCONtrol:ENABle
:SOURce:DATA:TELecom:FIBer:PORT:FCONtrol:ENABle?

Available BB_Credit
:SOURce:DATA:TELecom:FIBer:PORT:AVAilable:BBCRedit
:SOURce:DATA:TELecom:FIBer:PORT:AVAilable:BBCRedit?

Login

Enable
:SOURce:DATA:TELecom:FIBer:PORT:LOGin:STATus
:SOURce:DATA:TELecom:FIBer:PORT:LOGin:STATus?

Login
:FETCh:DATA:TELecom:FIBer:PORT:LOGin

Advertised BB_Credit
:SOURce:DATA:TELecom:FIBer:PORT:ADVertised:BBCRedit
:SOURce:DATA:TELecom:FIBer:PORT:ADVertised:BBCRedit?

Discoverd Topology
:FETCh:DATA:TELecom:FIBer:PORT:DTOPology?

Fabric Status
:FETCh:DATA:TELecom:FIBer:PORT:FLOGin:STATus?

Port Status
:FETCh:DATA:TELecom:FIBer:PORT:PLOGin:STATus?

FlexE Group

FlexE Status

:FETCh:DATA:TELecom:FETHernet:GROup:STATus?

Calendar Mismatch

:SOURce:DATA:TELecom:FETHernet:GROup:CALendar
:SOURce:DATA:TELecom:FETHernet:GROup:CALendar?

FlexE Group Number

:SOURce:DATA:TELecom:FETHernet:GROup:NUMBer
:SOURce:DATA:TELecom:FETHernet:GROup:NUMBer?

Calendar

:SOURce:DATA:TELecom:FETHernet:GROup:CALendar
:SOURce:DATA:TELecom:FETHernet:GROup:CALendar?

Calendar Granularity

:SOURce:DATA:TELecom:FETHernet:GROup:CALendar:GRANularity
:SOURce:DATA:TELecom:FETHernet:GROup:CALendar:GRANularity?

Link

:FETCh:DATA:TELecom:ETHernet:LINK:LRATe:GLOBal:STATus?

Modify

Refer to *FlexE Calendar*.

FlexO/OTN

FlexO

FlexO Status
:FETCh:DATA:TELecom:FOTN:GROup:STATus?

FlexO Group ID
:SOURce:DATA:TELecom:FOTN:GROup:IDentifier
:SOURce:DATA:TELecom:FOTN:GROup:IDentifier?

OTUCn

Edit ID
:SOURce:DATA:TELecom:FOTN:CLIent:MCID

Client ID, **Type**, and **Trib Slot**
:SOURce:DATA:TELecom:FOTN:CLIent:CONFig?

FTFL/PT

FTFL

Overwrite

:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OVERwrite:ENABled
:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OVERwrite:ENABled?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:OVERwrite:ENABled
:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:OVERwrite:ENABled?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:OVERwrite:ENABled
:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:OVERwrite:ENABled?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe:OVERwrite:ENABled
:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe:OVERwrite:ENABled?

Fault Indication

:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication
:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication
:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:INDication
:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:INDication?

Code

:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE
:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:CODE
:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:CODE?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:CODE
:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:CODE?

Operator Identifier

:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier
:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:IDENtifier
:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:IDENtifier?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:IDENtifier
:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:IDENtifier?

Operator Specific
:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OPSPec
:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OPSPec?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:OPSPec
:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:OPSPec?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:OPSPec
:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:OPSPec?

PT / Global PT

Overwrite
:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe:OVERwrite:ENABled
:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe:OVERwrite:ENABled?
:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe:OVERwrite:ENABled
:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe:OVERwrite:ENABled?

Payload Type
:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe
:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe?
:SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe
:SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe?

For OPU1e and OPU2e only
:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe
:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe?
:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe
:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe
:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe?
:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe
:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe?

Payload Type - Global Overwrite Status Icon (Multi-Channel OTN)
:SENSe:DATA:TELecom:OTN:OPU[1..n]:GOVErwrite?

Code
:SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe
:SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe?
:SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe
:SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PCODe
:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PCODe?
:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PCODe
:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PCODe?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PCODe
:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PCODe?
:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PCODe
:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PCODe?

OPU-PLM
:SENSe:DATA:TELecom:OTN:OPU[1..n]:PLM
:SENSe:DATA:TELecom:OTN:OPU[1..n]:PLM?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PLM
:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PLM?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PLM
:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PLM?

Frequency

Port

:SOURce:DATA:TELecom:PORT
:SOURce:DATA:TELecom:PORT?

Link and Enable (multiple link interface)

:SOURce:DATA:TELecom:LINK
:SOURce:DATA:TELecom:LINK?

:SOURce:DATA:TELecom:LINK:ENABle
:SOURce:DATA:TELecom:LINK:ENABle

FlexE PHY Number

:SOURce:DATA:TELecom:FETHernet:GROup:PNUMber?

FlexO Instance ID

:SOURce:DATA:TELecom:FOTN:INSTance:IDentifier?

TX Frequency

Frequency
:SOURce:DATA:TELecom:OPTical:PORT:FREQuency?

Offset

Mode selection
:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:METHod
:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:METHod?

Activation
:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet
:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet?

Fixed value
:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue
:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue?

Sweep value
:FETCh:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet?
Sweep Range
:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:MINimum
:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:MINimum?
:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:MAXimum
:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:MAXimum?

RX Frequency

Frequency
:SENSe:DATA:TELecom:OPTical:PORT:FREQuency?

Offset
:SENSe:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue?

Max Negative Offset
:SENSe:DATA:TELecom:OPTical:PORT:FREQuency:NEGative?

Max Positive Offset
:SENSe:DATA:TELecom:OPTical:PORT:FREQuency:POSitive?

GFP-F/GFP-T

CDF pFCS / CMF pFCS

:SOURce:DATA:TELecom:GFP:CHANnel:CONFig:TYPE
:SOURce:DATA:TELecom:GFP:CHANnel:CONFig:TYPE?

EXI

:SOURce:DATA:TELecom:GFP:CONFig:EXI
:SOURce:DATA:TELecom:GFP:CONFig:EXI?

CID

:SOURce:DATA:TELecom:GFP:CHANnel:CONFig:CID
:SOURce:DATA:TELecom:GFP:CHANnel:CONFig:CID?

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

FlexE Equipped/Unequipped Instances List (available on the Interface Block)
:SOURce:DATA:TELecom:FETHernet:INSTances:STATus?

Port

:SOURce:DATA:TELecom:PORT
:SOURce:DATA:TELecom:PORT?

Link and Enable (multiple link interface)

:SOURce:DATA:TELecom:LINK
:SOURce:DATA:TELecom:LINK?

:SOURce:DATA:TELecom:LINK:ENABle
:SOURce:DATA:TELecom:LINK:ENABle

FlexE PHY Number

:SOURce:DATA:TELecom:FETHernet:GROup:PNUMber
:SOURce:DATA:TELecom:FETHernet:GROup:PNUMber?

FlexO Instance ID

:SOURce:DATA:TELecom:FOTN:INSTance:IDentifier
:SOURce:DATA:TELecom:FOTN:INSTance:IDentifier?

LINK

Note: *There is no SCPI command for the **All Links** check box, available with multilink interface, each link has to be configured individually.*

LINK

For Ethernet up to 25G or FlexE client (all rates): Live LINK status
:FETCh:DATA:TELecom:ETHernet:LINK:LRATe:GLOBal:STATus?

For Ethernet parallel interfaces: Live LINK and alarm status
For Ethernet serial interfaces 25G and up: Live alarm status
:FETCh:DATA:TELecom:ETHernet:ALARm:LINK?

For Ethernet 50G
:FETCh:DATA:TELecom:ETHernet:FEC:ALARm:LINK?

For Fiber Channel
:FETCh:DATA:TELecom:FIBer:LINK?

WIS Link (10G WAN)
:FETCh:DATA:TELecom:ETHernet:WIS:ALARm:LINK?

RS-FEC
:SOURce:DATA:TELecom:ETHernet:RSFec
:SOURce:DATA:TELecom:ETHernet:RSFec?
- CPRI - 24.3G
:SOURce:DATA:TELecom:CPRI:FEC:ENABle
:SOURce:DATA:TELecom:CPRI:FEC:ENABle?

RS-FEC (RX Only)
:SOURce:DATA:TELecom:ETHernet:FEC:ENABle
:SOURce:DATA:TELecom:ETHernet:FEC:ENABle?

FEC Degraded SER
:SOURce:DATA:TELecom:ETHernet:FEC:DSER:ENABle
:SOURce:DATA:TELecom:ETHernet:FEC:DSER:ENABle?

Thresholds - FEC Degraded SER Thresholds
Refer to *Thresholds (FEC Degraded SER)* on page 437.

Auto-Negotiation
:SOURce:DATA:TELecom:ETHernet:PORT:NEGotiation
:SOURce:DATA:TELecom:ETHernet:PORT:NEGotiation?

Flow Control

:FETCh:DATA:TELecom:ETHernet:PORT:FCONtrol?
:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:FCONtrol
:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:FCONtrol?

Speed

:SOURce:DATA:TELecom:ETHernet:PORT:BANDwidth
:SOURce:DATA:TELecom:ETHernet:PORT:BANDwidth?
:FETCh:DATA:TELecom:ETHernet:PORT:BANDwidth?

Cable Mode

:SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE
:SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE?
:SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE:STATus
:SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE:STATus?

Flow Control

:SOURce:DATA:TELecom:ETHernet:PORT:FCONtrol
:SOURce:DATA:TELecom:ETHernet:PORT:FCONtrol?

WIS

:SOURce:DATA:TELecom:ETHernet:WIS:TRACe
:SOURce:DATA:TELecom:ETHernet:WIS:TRACe?
:SOURce:DATA:TELecom:ETHernet:WIS:PATH:LABel
:SOURce:DATA:TELecom:ETHernet:WIS:PATH:LABel?

Duplex

:SOURce:DATA:TELecom:ETHernet:PORT:DUPLex
:SOURce:DATA:TELecom:ETHernet:PORT:DUPLex?
:FETCh:DATA:TELecom:ETHernet:PORT:DUPLex?

:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:DUPLex
:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:DUPLex?

Local Clock

:SOURce:DATA:TELecom:ETHernet:PORT:LOCal:CLOCk
:SOURce:DATA:TELecom:ETHernet:PORT:LOCal:CLOCk?
:FETCh:DATA:TELecom:ETHernet:PORT:LOCal:CLOCk?

PSP (Link Protocol)
:SOURce:DATA:TELecom:FIBer:PSP
:SOURce:DATA:TELecom:FIBer:PSP?

Link Degrade Signaling
:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:ENABle
:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:ENABle?
Threshold, refer to *Thresholds (Link Degrade Signaling)* on page 437.

LINK (CPRI)

LINK
:FETCh:DATA:TELecom:CPRI:PORT:LINK:STATus?

Sequence
:FETCh:DATA:TELecom:CPRI:PORT:SSTate?
:FETCh:DATA:TELecom:CPRI:PORT:FSYNc:STATus?

Protocol
:SOURce:DATA:TELecom:CPRI:PORT:PROTocol
:SOURce:DATA:TELecom:CPRI:PORT:PROTocol?
:SENSe:DATA:TELecom:CPRI:PORT:PROTocol:VERSion?

C&M Channel
:SOURce:DATA:TELecom:CPRI:PORT:CMCHannel
:SOURce:DATA:TELecom:CPRI:PORT:CMCHannel?

Subchannel
:SOURce:DATA:TELecom:CPRI:PORT:SUBChannel
:SOURce:DATA:TELecom:CPRI:PORT:SUBChannel?

Rate for HDLC
:SOURce:DATA:TELecom:CPRI:PORT:HDLC:RATE
:SOURce:DATA:TELecom:CPRI:PORT:HDLC:RATE?

Rate for Ethernet C&M Channel
:FETCh:DATA:TELecom:CPRI:PORT:ETHernet:RATE?
:SENSe:DATA:TELecom:CPRI:PORT:ETHernet:RATE?
:SENSe:DATA:TELecom:CPRI:PORT:HDLC:RATE?

Scrambling

:SOURce:DATA:TELecom:CPRI:UNFRamed:SCRamble:ENABle
:SOURce:DATA:TELecom:CPRI:UNFRamed:SCRamble:ENABle?

LINK (OBSAI)

LINK

:FETCh:DATA:TELecom:CPRI:OBSai:LINK:LIVE?
:FETCh:DATA:TELecom:CPRI:OBSai:STATe:TRANsmit:LIVE?
:FETCh:DATA:TELecom:CPRI:OBSai:STATe:RECeive:LIVE?

:SOURce:DATA:TELecom:CPRI:OBSai:FTIDle
:SOURce:DATA:TELecom:CPRI:OBSai:FTIDle?
:SOURce:DATA:TELecom:CPRI:OBSai:SCRamble
:SOURce:DATA:TELecom:CPRI:OBSai:SCRamble?
:SOURce:DATA:TELecom:CPRI:OBSai:TXSeed
:SOURce:DATA:TELecom:CPRI:OBSai:TXSeed?
:FETCh:DATA:TELecom:CPRI:OBSai:RXSeed?
:SOURce:DATA:TELecom:CPRI:OBSai:FCBGen
:SOURce:DATA:TELecom:CPRI:OBSai:FCBGen?

Remote Fault Emulation

:SOURce:DATA:TELecom:ETHernet:LRATe:RFE:ENABle
:SOURce:DATA:TELecom:ETHernet:LRATe:RFE:ENABle?
|| :SOURce:DATA:TELecom:ETHernet:HRATe:RFE:ENABle
|| :SOURce:DATA:TELecom:ETHernet:HRATe:RFE:ENABle?

RP3 Address

:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:SOURce
:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:SOURce?
:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:TARGet
:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:TARGet?
:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:PTARget?
:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:MISMatch
:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:MISMatch?

RP3 Message

:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:MESSages:TYPE
:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:MESSages:TYPE?
:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:MESSages:KMG?
:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:MESSages:MMG?
:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:MESSages:NMG?

FEC (FlexO BERT)

:SOURce:DATA:TELecom:FOTN:FEC
:SOURce:DATA:TELecom:FOTN:FEC?

Physical Interface

TX Power
:SENSe:DATA:TELecom:OPTical:TX:POWer?
:SENSe:DATA:TELecom:OPTical:RX:POWer?

Min RX Power
:SENSe:DATA:TELecom:OPTical:RX:POWer:MINimum?
:SENSe:DATA:TELecom:OPTical:RX:POWer:MAXimum?

Wavelength
:SENSe:DATA:TELecom:OPTical:LASer:WAVelength?
|| :SENSe:DATA:TELecom:OPTical:WAVelength?

For tunable transceivers:
:SOURce:DATA:TELecom:OPTical:TUNable:WAVelength?

Laser ON/OFF button
Refer to *Laser ON/OFF Button*

Power Range
:SENSe:DATA:TELecom:OPTical:POWer:RANGe?

Laser OFF at Start-Up
:SENSe:DATA:TELecom:LOFF
:SENSe:DATA:TELecom:LOFF?

Modify Wavelength

For tunable SFP transceivers, refer to *Modify Wavelength (SFP)* on page 429.

For DCO transceivers, refer to *Modify Wavelength (DCO)* on page 430.

Interface (DCO BERT)

Note: *Not supported yet.*

Labels

STS/AU Path (C2)
:SOURce:DATA:TELecom:SDHSonet:HOP:PATH:LABel
:SOURce:DATA:TELecom:SDHSonet:HOP:PATH:LABel?
:SENSe:DATA:TELecom:SDHSonet:HOP:PATH:LABel:EXPected
:SENSe:DATA:TELecom:SDHSonet:HOP:PATH:LABel:EXPected?

PLM-P/UNEQ-P / HP-PLM/HP-UNEQ
:SENSe:DATA:TELecom:SDHSonet:HOP:PUNeq
:SENSe:DATA:TELecom:SDHSonet:HOP:PUNeq?

VT/TU Path (V5)
:SOURce:DATA:TELecom:SDHSonet:LOP:PATH:LABel
:SOURce:DATA:TELecom:SDHSonet:LOP:PATH:LABel?
:SENSe:DATA:TELecom:SDHSonet:LOP:PATH:LABel:EXPected
:SENSe:DATA:TELecom:SDHSonet:LOP:PATH:LABel:EXPected?

:SOURce:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel
:SOURce:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel?
:SENSe:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel:EXPected
:SENSe:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel:EXPected?

PLM-V/UNEQ-V / LP-PLM/LP-UNEQ
:SENSe:DATA:TELecom:SDHSonet:LOP:PUNeq
:SENSe:DATA:TELecom:SDHSonet:LOP:PUNeq?

Link OAM

OAM Mode

:SOURce:DATA:TELecom:LOAM:MODE
:SOURce:DATA:TELecom:LOAM:MODE?

OAMPDU Destination MAC Address

:SOURce:DATA:TELecom:LOAM:PDU:DESTination:MAC
:SOURce:DATA:TELecom:LOAM:PDU:DESTination:MAC?

Default
:SOURce:DATA:TELecom:LOAM:PDU:DESTination:MAC:ENABle
:SOURce:DATA:TELecom:LOAM:PDU:DESTination:MAC:ENABle?

Pass/Fail Verdict

:SOURce:DATA:TELecom:LOAM:VERDict:ENABle
:SOURce:DATA:TELecom:LOAM:VERDict:ENABle?

Remote Alarms
:SOURce:DATA:TELecom:LOAM:VERDict:ALARm:ENABle
:SOURce:DATA:TELecom:LOAM:VERDict:ALARm:ENABle?

Remote Loopback
:SOURce:DATA:TELecom:LOAM:VERDict:LBACk:ENABle
:SOURce:DATA:TELecom:LOAM:VERDict:LBACk:ENABle?

OAM Discovery Status

Local
:FETCh:DATA:TELecom:LOAM:DISCovery:LOCal:STATus?

Remote
:FETCh:DATA:TELecom:LOAM:DISCovery:REMote:STATus?

Loopback

Local - Enable/Disable
:SOURce:DATA:TELecom:LOAM:LBACk:LOCal

Remote - Enable/Disable
:SOURce:DATA:TELecom:LOAM:LBACk:REMOte

Status
:FETCh:DATA:TELecom:LOAM:LBACk:STATus?

MAC/IP/UDP

Link and Enable (multiple link interface)

:SOURce:DATA:TELecom:LINK
:SOURce:DATA:TELecom:LINK?

:SOURce:DATA:TELecom:LINK:ENABle
:SOURce:DATA:TELecom:LINK:ENABle

Couple With Interface

:SOURce:DATA:TELecom:ETHernet:STReam:COUPled:ENABle
:SOURce:DATA:TELecom:ETHernet:STReam:COUPled:ENABle?

Discovery

Refer to *Remote Interface Discovery* on page 432.

Client ID

:SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier
:SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier?

Size

:SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:CONFig?

MAC

Source MAC Address

:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce
:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce?

Destination MAC Address
:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination
:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination?

EtherType
:SOURce:DATA:TELecom:ETHernet:STReam:ETHer
:SOURce:DATA:TELecom:ETHernet:STReam:ETHer?

OUI
:SOURce:DATA:TELecom:ETHernet:STReam:MAC:OUI
:SOURce:DATA:TELecom:ETHernet:STReam:MAC:OUI?

Source Flooding
:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:FLOoding
:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:FLOoding?

Destination Flooding
:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:FLOoding
:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:FLOoding?

Flood Range
:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:FLOoding:RANGe
:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:FLOoding:RANGe?

VLAN

VLAN ID
:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:ID
:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:ID?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID?

Priority
:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:PRIority
:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:PRIority?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:PRIority
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:PRIority?

Type
:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:TYPE
:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:TYPE?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:TYPE
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:TYPE?

Drop Eligible
:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:ID:ELIGiblebit
:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:ID:ELIGiblebit?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID:ELIGiblebit
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID:ELIGiblebit?

MPLS

Label
:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:LABel
:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:LABel?

COS
:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:COSexp
:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:COSexp?

TTL
:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:TTL
:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:TTL?

IP (IPv4)

Automatic IP (DHCP)
:SOURce:DATA:TELecom:ETHernet:STReam:IP:AUTomatic:STATus
:SOURce:DATA:TELecom:ETHernet:STReam:IP:AUTomatic:STATus?

Source IP Address
:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP
:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP?

Destination IP Address
:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP
:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP?
:SOURce:DATA:TELecom:ETHernet:STReam:QPINg
:SOURce:DATA:TELecom:ETHernet:STReam:QPINg?

Subnet Mask

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:MASK:IP
:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:MASK:IP?

Source IP Multiplicator

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IP:MULTiplicat
:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IP:MULTiplicat?
:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IP:RANGe
:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IP:RANGe?

Resolve MAC Address

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:RESolve
:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:RESolve?
:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:RESolve:STATus?

Default Gateway

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway
:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway?
:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway:ADDRess
:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway:ADDRess?

TTL

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TTL
:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TTL?

IP TOS/DS

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TOSDs
:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TOSDs?

IPv6

IPv6 Destination IP Address

:SENSe:DATA:TELecom:ETHernet:STReam:DESTination:IPVersion
:SENSe:DATA:TELecom:ETHernet:STReam:DESTination:IPVersion?

Resolve MAC Address

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:RESolve
:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:RESolve?
:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:RESolve:STATus?

Source IP Multiplicator

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IPVersion:MULTiplicat
:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IPVersion:MULTiplicat?
:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IPVersion:RANGe
:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IPVersion:RANGe?

HOP Limit

:SOURce:DATA:TELecom:ETHernet:STReam:IPVersion:HOP:LIMit
:SOURce:DATA:TELecom:ETHernet:STReam:IPVersion:HOP:LIMit?

Flow Control

:SENSe:DATA:TELecom:ETHernet:STReam:FLABel:IPVersion
:SENSe:DATA:TELecom:ETHernet:STReam:FLABel:IPVersion?

TOS/DS (Traffic Class)

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TOSDs
:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TOSDs?

UDP

Source Port

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT
:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT?

Destination Port

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT
:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT?

TCP

Source Port

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT:TCP
:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT:TCP?

Destination Port

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT:TCP
:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT:TCP?

Payload

User Defined Header

:SOURce:DATA:TELecom:ETHernet:STReam:PAYLoad:UDHeader:ENABle
:SOURce:DATA:TELecom:ETHernet:STReam:PAYLoad:UDHeader:ENABle?
:SOURce:DATA:TELecom:ETHernet:STReam:PAYLoad:UDHeader
:SOURce:DATA:TELecom:ETHernet:STReam:PAYLoad:UDHeader?

Pattern

:SOURce:DATA:TELecom:ETHernet:STReam:PAYLoad
:SOURce:DATA:TELecom:ETHernet:STReam:PAYLoad?

Modify Structure - 1588 PTP

Interface
:SOURce:DATA:TELecom:ITYPe
:SOURce:DATA:TELecom:ITYPe?

Connector
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

Modify Structure - Cable Test

Interface
:SOURce:DATA:TELecom:ITYPe
:SOURce:DATA:TELecom:ITYPe?

Connector
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

Modify Structure - Carrier Ethernet OAM

Interface
:SOURce:DATA:TELecom:ITYPe
:SOURce:DATA:TELecom:ITYPe?

Connector
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

Modify Structure - CPRI/OBSAI BERT

Note: For **Dual Port** topology, use the following command to select the port for subsequent commands/queries.
:SOURce:DATA:TELecom:PORT
:SOURce:DATA:TELecom:PORT?

Interface
:SOURce:DATA:TELecom:ITYPe
:SOURce:DATA:TELecom:ITYPe?

Connector
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

Framing
:SOURce:DATA:TELecom:CPRI:FRAMing:TYPE
:SOURce:DATA:TELecom:CPRI:FRAMing:TYPE?

Vendor
:SOURce:DATA:TELecom:CPRI:OBSai:VENDor:TYPE
:SOURce:DATA:TELecom:CPRI:OBSai:VENDor:TYPE?

Emulation Mode
:SOURce:DATA:TELecom:CPRI:EMULation:MODE
:SOURce:DATA:TELecom:CPRI:EMULation:MODE?

Modify Structure - DCO BERT

Note: Not supported yet.

Modify Structure - DSn/PDH BERT

Interface/Rate
:SOURce:DATA:TELecom:ITYPe
:SOURce:DATA:TELecom:ITYPe?

:SENSe:DATA:TELecom:ITYPe
:SENSe:DATA:TELecom:ITYPe?

Connector
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

:SENSe:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SENSe:DATA:TELecom:ETHernet:PORT:TRANsceiver?

DSn/PDH Multiplexing
:SOURce:DATA:TELecom:DSNPdh:TYPE
:SOURce:DATA:TELecom:DSNPdh:TYPE?
:FETCh:DATA:TELecom:DSNPdh:TYPE?

Client
:FETCh:DATA:TELecom:DSNPdh:CLIent?

Topology
:SOURce:DATA:TELecom:TOPology
:SOURce:DATA:TELecom:TOPology?

Modify Structure - eCPRI BERT

Note: For **Dual Port** topology, use the following command to select the port for subsequent commands/queries.
:SOURce:DATA:TELecom:PORT
:SOURce:DATA:TELecom:PORT?

Interface
:SOURce:DATA:TELecom:ITYPe
:SOURce:DATA:TELecom:ITYPe?

PHY Type
:SOURce:DATA:TELecom:ETHernet:PHY:TYPE
:SOURce:DATA:TELecom:ETHernet:PHY:TYPE?

Connector
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

Framing
:SOURce:DATA:TELecom:CPRI:FRAMing:TYPE
:SOURce:DATA:TELecom:CPRI:FRAMing:TYPE?

Modify Structure - EtherBERT

Note: *For **Dual Port** topology, use the following command to select the port for
subsequent commands/queries.*
:SOURce:DATA:TELecom:PORT
:SOURce:DATA:TELecom:PORT?

Interface
:SOURce:DATA:TELecom:ITYPe
:SOURce:DATA:TELecom:ITYPe?

PHY Type
Per port:
:SOURce:DATA:TELecom:ETHernet:PHY:TYPE
:SOURce:DATA:TELecom:ETHernet:PHY:TYPE?

Connector
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

Host/Media Loopback
:SOURce:DATA:TELecom:OPTical:PORT:LTYPe
:SOURce:DATA:TELecom:OPTical:PORT:LTYPe?

Framing
:SOURce:DATA:TELecom:ETHernet:BERT:FRAMing
:SOURce:DATA:TELecom:ETHernet:BERT:FRAMing?

Topology
:SOURce:DATA:TELecom:TOPology
:SOURce:DATA:TELecom:TOPology?

Modify Structure - EtherSAM (Y.1564)

Note: *For **Dual Port** topology, use the following command to select the port for subsequent commands/queries.*
:SOURce:DATA:TELecom:PORT
:SOURce:DATA:TELecom:PORT?

Interface
:SOURce:DATA:TELecom:ITYPe
:SOURce:DATA:TELecom:ITYPe?

PHY Type
Per port:
:SOURce:DATA:TELecom:ETHernet:PHY:TYPE
:SOURce:DATA:TELecom:ETHernet:PHY:TYPE?

Connector
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

Topology
:SOURce:DATA:TELecom:TOPology
:SOURce:DATA:TELecom:TOPology?

Modify Structure - FC BERT

Interface
:SOURce:DATA:TELecom:ITYPe
:SOURce:DATA:TELecom:ITYPe?

Connector
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

Modify Structure - FlexE BERT

Interface
:SOURce:DATA:TELecom:ITYPe
:SOURce:DATA:TELecom:ITYPe?

PHY Type
For all selected ports (FlexE):
:SOURce:DATA:TELecom:FETHernet:GROup:PTYPe
:SOURce:DATA:TELecom:FETHernet:GROup:PTYPe?

Group Size
:SOURce:DATA:TELecom:FETHernet:GROup:SIZE
:SOURce:DATA:TELecom:FETHernet:GROup:SIZE?

Connector(s)
:SOURce:DATA:TELecom:FETHernet:PORT:SELection
:SOURce:DATA:TELecom:FETHernet:PORT:SELection?

Modify Structure - FlexO BERT

Interface/Rate
:SOURce:DATA:TELecom:FOTN:GROup:RATE:SELection

Connector
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

:SENSe:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SENSe:DATA:TELecom:ETHernet:PORT:TRANsceiver?

OTN (FlexO)
:SOURce:DATA:TELecom:FOTN:GROup:RATE:SELection
:SOURce:DATA:TELecom:FOTN:GROup:RATE:SELection

Client
:SOURce:DATA:TELecom:OTN:CLIent?

Topology
:SOURce:DATA:TELecom:TOPology?

Modify Structure - ISDN PRI

Note: *This test application is not supported by SCPI commands.*

Modify Structure - Multi-Channel OTN

Interface/Rate
:SOURce:DATA:TELecom:ITYPe
:SOURce:DATA:TELecom:ITYPe?

Connector
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

Framing
:SOURce:DATA:TELecom:OTN:FRAMing?

Client
:SOURce:DATA:TELecom:OTN:CLIent?

Topology
:SOURce:DATA:TELecom:TOPology?

Modify Structure - NI/CSU Emulation

Interface/Rate
:SOURce:DATA:TELecom:ITYPe
:SOURce:DATA:TELecom:ITYPe?

Connector
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

Modify Structure - OTN BERT

Interface/Rate
:SOURce:DATA:TELecom:ITYPe
:SOURce:DATA:TELecom:ITYPe?

Connector
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

:SENSe:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SENSe:DATA:TELecom:ETHernet:PORT:TRANsceiver?

Framing
:SOURce:DATA:TELecom:OTN:FRAMing
:SOURce:DATA:TELecom:OTN:FRAMing?

OTN Multiplexing
:SOURce:DATA:TELecom:ODU:TYPE
:SOURce:DATA:TELecom:ODU:TYPE?

Client
:SOURce:DATA:TELecom:OTN:CLIent
:SOURce:DATA:TELecom:OTN:CLIent?

Topology
:SOURce:DATA:TELecom:TOPology
:SOURce:DATA:TELecom:TOPology?

Modify Structure - OTN-SONET/SDH BERT

Interface/Rate
:SOURce:DATA:TELecom:ITYPe
:SOURce:DATA:TELecom:ITYPe?

Connector
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

:SENSe:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SENSe:DATA:TELecom:ETHernet:PORT:TRANsceiver?

OTN Multiplexing
:SOURce:DATA:TELecom:ODU:TYPE
:SOURce:DATA:TELecom:ODU:TYPE?

Embedded SONET/SDH
:SOURce:DATA:TELecom:OTN:MULTiplex:ITYPe
:SOURce:DATA:TELecom:OTN:MULTiplex:ITYPe?

SONET/SDH Multiplexing
:SOURce:DATA:TELecom:SDHSonet:MULTiplex:TYPE
:SOURce:DATA:TELecom:SDHSonet:MULTiplex:TYPE?
:SENSe:DATA:TELecom:SDHSonet:MULTiplex:TYPE
:SENSe:DATA:TELecom:SDHSonet:MULTiplex:TYPE?

Client
:SOURce:DATA:TELecom:OTN:CLIent?

Topology
:SOURce:DATA:TELecom:TOPology
:SOURce:DATA:TELecom:TOPology?

Modify Structure - RFC 2544

Note: For **Dual Port** topology, use the following command to select the port for subsequent commands/queries.
:SOURce:DATA:TELecom:PORT
:SOURce:DATA:TELecom:PORT?

Interface/Rate
:SOURce:DATA:TELecom:ITYPe
:SOURce:DATA:TELecom:ITYPe?

PHY Type
Per port:
:SOURce:DATA:TELecom:ETHernet:PHY:TYPE
:SOURce:DATA:TELecom:ETHernet:PHY:TYPE?

Connector
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

Topology
:SOURce:DATA:TELecom:TOPology
:SOURce:DATA:TELecom:TOPology?

Modify Structure - RFC 6349

Interface/Rate
:SOURce:DATA:TELecom:ITYPe
:SOURce:DATA:TELecom:ITYPe?

PHY Type
:SOURce:DATA:TELecom:ETHernet:PHY:TYPE
:SOURce:DATA:TELecom:ETHernet:PHY:TYPE?

Connector
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

Modify Structure - Smart Loopback

Interface/Rate
:SOURce:DATA:TELecom:ITYPe
:SOURce:DATA:TELecom:ITYPe?

PHY Type
:SOURce:DATA:TELecom:ETHernet:PHY:TYPE
:SOURce:DATA:TELecom:ETHernet:PHY:TYPE?

Connector
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

Modify Structure - SONET/SDH BERT

Interface/Rate
:SOURce:DATA:TELecom:ITYPe
:SOURce:DATA:TELecom:ITYPe?

:SENSe:DATA:TELecom:ITYPe
:SENSe:DATA:TELecom:ITYPe?

Connector
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

:SENSe:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SENSe:DATA:TELecom:ETHernet:PORT:TRANsceiver?

Framing
:FETCh:DATA:TELecom:SDHSonet:FRAMing?

SONET/SDH Multiplexing
:SOURce:DATA:TELecom:SDHSonet:MULTiplex:TYPE
:SOURce:DATA:TELecom:SDHSonet:MULTiplex:TYPE?
:SENSe:DATA:TELecom:SDHSonet:MULTiplex:TYPE
:SENSe:DATA:TELecom:SDHSonet:MULTiplex:TYPE?

Client
:FETCh:DATA:TELecom:SDHSonet:CLIent?

Topology
:SOURce:DATA:TELecom:TOPology
:SOURce:DATA:TELecom:TOPology?

Modify Structure - SONET/SDH-DSn/PDH BERT

Interface/Rate
:SOURce:DATA:TELecom:ITYPe
:SOURce:DATA:TELecom:ITYPe?

:SENSe:DATA:TELecom:ITYPe
:SENSe:DATA:TELecom:ITYPe?

Connector
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

:SENSe:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SENSe:DATA:TELecom:ETHernet:PORT:TRANsceiver?

SONET/SDH Multiplexing
:SOURce:DATA:TELecom:SDHSonet:MULTiplex:TYPE
:SOURce:DATA:TELecom:SDHSonet:MULTiplex:TYPE?
:SENSe:DATA:TELecom:SDHSonet:MULTiplex:TYPE
:SENSe:DATA:TELecom:SDHSonet:MULTiplex:TYPE?

Embedded DSn/PDH
:SOURce:DATA:TELecom:DSNPdh:TYPE
:SOURce:DATA:TELecom:DSNPdh:TYPE?
:FETCh:DATA:TELecom:DSNPdh:TYPE?

Client
:FETCh:DATA:TELecom:SDHSonet:CLIent?

Topology
:SOURce:DATA:TELecom:TOPology
:SOURce:DATA:TELecom:TOPology?

Modify Structure - SyncE

Interface
:SOURce:DATA:TELecom:ITYPe
:SOURce:DATA:TELecom:ITYPe?

Connector
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

Modify Structure - TCP Throughput

Interface/Rate
:SOURce:DATA:TELecom:ITYPe
:SOURce:DATA:TELecom:ITYPe?

Connector
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

Modify Structure - Through Mode

Interface
:SOURce:DATA:TELecom:ITYPe
:SOURce:DATA:TELecom:ITYPe?

PHY Type
Per port:
:SOURce:DATA:TELecom:ETHernet:PHY:TYPE
:SOURce:DATA:TELecom:ETHernet:PHY:TYPE?

Primary Port and **Secondary Port**
:SOURce:DATA:TELecom:PORT
:SOURce:DATA:TELecom:PORT?
and
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

Modify Structure - Traffic Gen & Mon

Note: *For **Dual Port** topology, use the following command to select the port for subsequent commands/queries.*
:SOURce:DATA:TELecom:PORT
:SOURce:DATA:TELecom:PORT?

Interface/Rate
:SOURce:DATA:TELecom:ITYPe
:SOURce:DATA:TELecom:ITYPe?

PHY Type
:SOURce:DATA:TELecom:ETHernet:PHY:TYPE
:SOURce:DATA:TELecom:ETHernet:PHY:TYPE?

Connector
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver
:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

Topology
:SOURce:DATA:TELecom:TOPology
:SOURce:DATA:TELecom:TOPology?

Network

MAC

MAC Address
:SOURce:DATA:TELecom:ETHernet:NETWork:MAC:ADDRess
:SOURce:DATA:TELecom:ETHernet:NETWork:MAC:ADDRess?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:MAC:ADDRess
:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:MAC:ADDRess?

Factory Default
:SOURce:DATA:TELecom:ETHernet:NETWork:FACTory:DEFault
:SOURce:DATA:TELecom:ETHernet:NETWork:FACTory:DEFault?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:FACTory:DEFault
:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:FACTory:DEFault?

Frame Format
:SOURce:DATA:TELecom:ETHernet:NETWork:DATalink:TYPE
:SOURce:DATA:TELecom:ETHernet:NETWork:DATalink:TYPE?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DATalink:TYPE
:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DATalink:TYPE?

IP

IP Version
:SOURce:DATA:TELecom:ETHernet:PORT:IPVersion
:SOURce:DATA:TELecom:ETHernet:PORT:IPVersion?

:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:IPVersion
:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:IPVersion?

IP Address
:SOURce:DATA:TELecom:ETHernet:PORT:ADDRess:IP
:SOURce:DATA:TELecom:ETHernet:PORT:ADDRess:IP?

:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:ADDRess:IP
:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:ADDRess:IP?

Link-Local IPv6 Address

:SOURce:DATA:TELecom:ETHernet:NETWork:LOCal:IPVersion:ADDRess
:SOURce:DATA:TELecom:ETHernet:NETWork:LOCal:IPVersion:ADDRess?

:FETCh:DATA:TELecom:ETHernet:SLTool:NETWork:LOCal:IPVersion:ADDRess:STATus?
:FETCh:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:ADDRess:STATus?

Global IPv6 Address

:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:ADDRess
:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:ADDRess?

Automatic IP (DHCP)

:SOURce:DATA:TELecom:ETHernet:NETWork:DHCP:STATus
:SOURce:DATA:TELecom:ETHernet:NETWork:DHCP:STATus?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DHCP:STATus
:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DHCP:STATus?

Subnet Mask

:SOURce:DATA:TELecom:ETHernet:NETWork:SUBNet:MASK
:SOURce:DATA:TELecom:ETHernet:NETWork:SUBNet:MASK?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:SUBNet:MASK
:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:SUBNet:MASK?

Default Gateway

:SOURce:DATA:TELecom:ETHernet:NETWork:DEFault:GATeway:STATus
:SOURce:DATA:TELecom:ETHernet:NETWork:DEFault:GATeway:STATus?

:SOURce:DATA:TELecom:ETHernet:NETWork:DEFault:GATeway:ADDRess
:SOURce:DATA:TELecom:ETHernet:NETWork:DEFault:GATeway:ADDRess?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DEFault:GATeway:STATus
:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DEFault:GATeway:STATus?
:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DEFault:GATeway:ADDRess
:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DEFault:GATeway:ADDRess?
:FETCh:DATA:TELecom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:ADDRess:STATus?

VLAN

VLAN Tag

:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN
:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN
:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN?

:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:STACked
:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:STACked?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:STACked
:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:STACked?

VLAN ID

:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID
:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:ID
:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:ID?

Type

:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:TYPE
:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:TYPE?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:TYPE
:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:TYPE?

Priority

:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:PRIority
:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:PRIority?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:PRIority
:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:PRIority?

Drop Eligible

:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID:ELIGiblebit
:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID:ELIGiblebit?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:ID:ELIGiblebit
:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:ID:ELIGiblebit?

ODU Channels - Global

Pattern

No Pattern Analysis (Live)
:SENSe:DATA:TELecom:PATTern:RXPanalysis:STATus
:SENSe:DATA:TELecom:PATTern:RXPanalysis:STATus?

TX Pattern
:SOURce:DATA:TELecom:PATTern:TYPE
:SOURce:DATA:TELecom:PATTern:TYPE?

Invert
:SOURce:DATA:TELecom:POLarity
:SOURce:DATA:TELecom:POLarity?

Bit Error

Pass/Fail Verdict and BER Threshold
:SENSe:DATA:TELecom:PATTern:THReshold:RATE
:SENSe:DATA:TELecom:PATTern:THReshold:RATE?
:SENSe:DATA:TELecom:PATTern:THReshold:COUNt
:SENSe:DATA:TELecom:PATTern:THReshold:COUNt?
:SOURce:DATA:TELecom:PATTern:VERDict:DISable

Service Disruption

Disruption Monitoring
:SENSe:DATA:TELecom:SDT
:SENSe:DATA:TELecom:SDT?

Defect
:SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE
:SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE?
:SENSe:DATA:TELecom:SDT:OTN:DSELection
:SENSe:DATA:TELecom:SDT:OTN:DSELection?

No Defect time
:SENSe:DATA:TELecom:SDT:NTTime
:SENSe:DATA:TELecom:SDT:NTTime?

Pass/Fail Verdict
:SENSe:DATA:TELecom:SDT:VERDict
:SENSe:DATA:TELecom:SDT:VERDict?

SDT Threshold
:SENSe:DATA:TELecom:SDT:THReshold
:SENSe:DATA:TELecom:SDT:THReshold?

Profile (DOC BERT)

Note: *Not supported yet.*

RFC 2544 - Global

Dual Test Set

Dual Test Set
:SOURce:DATA:TELecom:ETHernet:DUALtest:ENABled
:SOURce:DATA:TELecom:ETHernet:DUALtest:ENABled?

Discover Remote Button
Refer to *Discover Remote Button*.

Global Options

Flow Direction
:SOURce:DATA:TELecom:ETHernet:RFC:FDIRection
:SOURce:DATA:TELecom:ETHernet:RFC:FDIRection?

Pass/Fail Verdict
:SOURce:DATA:TELecom:VERDict:ENABle
:SOURce:DATA:TELecom:VERDict:ENABle?

Subtests

Throughput
:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:ENABle
:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:ENABle?
:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:MINtime?

Back-to-Back
:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ENABle
:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ENABle?
:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:MINtime?

Frame Loss
:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:ENABle
:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:ENABle?
:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:MINtime?

Latency

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:ENABle

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:ENABle?

:FETCh:DATA:TELecom:ETHernet:RFC:LATency:MINtime?

Total

:FETCh:DATA:TELecom:ETHernet:RFC:TOTal:MINtime?

Frame Distribution

Frame Distribution

:SOURce:DATA:TELecom:ETHernet:RFC:FDIStrib

:SOURce:DATA:TELecom:ETHernet:RFC:FDIStrib?

Quantity

:SOURce:DATA:TELecom:ETHernet:RFC:QUANtity

:SOURce:DATA:TELecom:ETHernet:RFC:QUANtity?

Frame Size

:SOURce:DATA:TELecom:ETHernet:RFC:FSIZe

:SOURce:DATA:TELecom:ETHernet:RFC:FSIZe?

Restore RFC 2544 Defaults

:SOURce:DATA:TELecom:ETHernet:RFC:RESTore

RFC 2544 - Subtests

Throughput

Max. Rate
:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate
:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate?

Trial Duration
:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TTIMe
:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TTIMe?

Trials
:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage
:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage?

Accuracy
:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:ACCuracy
:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:ACCuracy?

Acceptable Errors
:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors
:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors?

Validations
:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:VALidations
:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:VALidations?

Back-to_Back

Burst Time
:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:MTFRames
:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:MTFRames?

Trials
:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:TAVerage
:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:TAVerage?

Accuracy

:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ACCuracy
:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ACCuracy?

Acceptable Errors

:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:AERRors
:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:AERRors?

Bursts

:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:NBURst
:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:NBURst?

Frame Loss

Max. Rate

:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:MAXRate
:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:MAXRate?

Trial Duration

:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TTIMe
:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TTIMe?

Trials

:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TAVerage
:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TAVerage?

Granularity

:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TGRanularity
:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TGRanularity?

Latency

Margin

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MARGin
:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MARGin?

Trial Duration

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:TTIMe
:SOURce:DATA:TELecom:ETHernet:RFC:LATency:TTIMe?

Trials

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:TAVerage
:SOURce:DATA:TELecom:ETHernet:RFC:LATency:TAVerage?

Measurement Mode

:SOURce:DATA:TELecom:ETHernet:RFC:GLOBal:LMMode
:SOURce:DATA:TELecom:ETHernet:RFC:GLOBal:LMMode?

Copy From Throughput

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:COPYtest
:SOURce:DATA:TELecom:ETHernet:RFC:LATency:COPYtest?

RFC 6349

Connection

Operation Mode
:SOURce:DATA:TELecom:ETHernet:RFC:OPERation:MODe
:SOURce:DATA:TELecom:ETHernet:RFC:OPERation:MODe?

Direction
:SOURce:DATA:TELecom:ETHernet:RFC:DIRection
:SOURce:DATA:TELecom:ETHernet:RFC:DIRection?

Remote IP Address
:SOURce:DATA:TELecom:ETHernet:RFC:REMOte:ADDRess:IP
:SOURce:DATA:TELecom:ETHernet:RFC:REMOte:ADDRess:IP?

TCP Port
:SOURce:DATA:TELecom:ETHernet:RFC:REMOte:PORT
:SOURce:DATA:TELecom:ETHernet:RFC:REMOte:PORT?

Remote Status
:FETCh:DATA:TELecom:ETHernet:RFC:EWORx:RSTAte?

Remote Name ID
:FETCh:DATA:TELecom:ETHernet:RFC:EWORx:RID?

Remote WAN IP Address
:FETCh:DATA:TELecom:ETHernet:RFC:NATDiscovery:LWIPaddress?

NAT Discovery Status
:FETCh:DATA:TELecom:ETHernet:RFC:NATDiscovery:STATus?

Listening TCP Port
:SOURce:DATA:TELecom:ETHernet:RFC:LISTening:PORT
:SOURce:DATA:TELecom:ETHernet:RFC:LISTening:PORT?

Max Nb of Connection Allowed
:SOURce:DATA:TELecom:ETHernet:RFC:MAXConnections
:SOURce:DATA:TELecom:ETHernet:RFC:MAXConnections?

Parameters

Multiple Connections
:SOURce:DATA:TELecom:ETHernet:RFC:MULTiple:CONNections
:SOURce:DATA:TELecom:ETHernet:RFC:MULTiple:CONNections?

Window Size Target per Connection
:SOURce:DATA:TELecom:ETHernet:RFC:WSIZetarget
:SOURce:DATA:TELecom:ETHernet:RFC:WSIZetarget

CIR
:SOURce:DATA:TELecom:ETHernet:RFC:CIR
:SOURce:DATA:TELecom:ETHernet:RFC:CIR?

Number of Connections
:SOURce:DATA:TELecom:ETHernet:RFC:CONNection:MODe:
:SOURce:DATA:TELecom:ETHernet:RFC:CONNection:MODe?
:SOURce:DATA:TELecom:ETHernet:RFC:CONNection:MANual
:SOURce:DATA:TELecom:ETHernet:RFC:CONNection:MANual?

TOS/DS
:SOURce:DATA:TELecom:ETHernet:RFC:TOSDs
:SOURce:DATA:TELecom:ETHernet:RFC:TOSDs?

Window Boost
:SOURce:DATA:TELecom:ETHernet:RFC:WBFactor
:SOURce:DATA:TELecom:ETHernet:RFC:WBFactor?
Enable
:SOURce:DATA:TELecom:ETHernet:RFC:WBFactor:ENABle
:SOURce:DATA:TELecom:ETHernet:RFC:WBFactor:ENABle?

MTU

Max MTU
:SOURce:DATA:TELecom:ETHernet:RFC:MAX:MTU
:SOURce:DATA:TELecom:ETHernet:RFC:MAX:MTU?

Path MTU Discovery
:SOURce:DATA:TELecom:ETHernet:RFC:PATH:MTU:DISCovery
:SOURce:DATA:TELecom:ETHernet:RFC:PATH:MTU:DISCovery?

Window Sweep

Window Sweep
:SOURce:DATA:TELecom:ETHernet:RFC:WINDow:SWEep
:SOURce:DATA:TELecom:ETHernet:RFC:WINDow:SWEep?

Duration (per step)
:SOURce:DATA:TELecom:ETHernet:RFC:WINDow:SWEep:DURation
:SOURce:DATA:TELecom:ETHernet:RFC:WINDow:SWEep:DURation?

TCP Throughput

Duration
:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:DURation
:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:DURation?

Pass/Fail Verdict
:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:VERDict
:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:VERDict?

Threshold (% of ideal)
:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:THReshold
:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:THReshold?

Advanced

Recommended Window Boost

Buffer Delay Weight
:SOURce:DATA:TELecom:ETHernet:RFC:ADVanced:BUFFerdelay
:SOURce:DATA:TELecom:ETHernet:RFC:ADVanced:BUFFerdelay?

TCP Throughput Weight
:SOURce:DATA:TELecom:ETHernet:RFC:ADVanced:TCPThr
:SOURce:DATA:TELecom:ETHernet:RFC:ADVanced:TCPThr?

Restore RFC 6349 Defaults

:SOURce:DATA:TELecom:ETHernet:RFC:RESTore:DEFault

S-OAM and MPLS-TP OAM

OAM Mode

:SOURce:DATA:TELecom:SOAM:MODE
:SOURce:DATA:TELecom:SOAM:MODE?

S-OAM Responder / MPLS-TP OAM Responder

:SOURce:DATA:TELecom:SOAM:RESPonder:ENABle
:SOURce:DATA:TELecom:SOAM:RESPonder:ENABle?

Pass/Fail Verdict

:SOURce:DATA:TELecom:VERDict:ENABle
:SOURce:DATA:TELecom:VERDict:ENABle?

Local Parameters

MEG ID
:SOURce:DATA:TELecom:SOAM:LOCal:MEG:ID
:SOURce:DATA:TELecom:SOAM:LOCal:MEG:ID?

MEG Level
:SOURce:DATA:TELecom:SOAM:LOCal:MEG:LEVel
:SOURce:DATA:TELecom:SOAM:LOCal:MEG:LEVel?

MEP ID
:SOURce:DATA:TELecom:SOAM:LOCal:MEP:ID
:SOURce:DATA:TELecom:SOAM:LOCal:MEP:ID?

Domain ID
:SOURce:DATA:TELecom:SOAM:LOCal:DOMain:ID
:SOURce:DATA:TELecom:SOAM:LOCal:DOMain:ID?

MA Name
:SOURce:DATA:TELecom:SOAM:LOCal:MA:NAME
:SOURce:DATA:TELecom:SOAM:LOCal:MA:NAME?

MD Level
:SOURce:DATA:TELecom:SOAM:LOCal:MD:LEVel
:SOURce:DATA:TELecom:SOAM:LOCal:MD:LEVel?

Peer MEP Parameters

MAC Address
:SOURce:DATA:TELecom:SOAM:PEER:MEP:MAC:ADDRess
:SOURce:DATA:TELecom:SOAM:PEER:MEP:MAC:ADDRess?

MEP ID
:SOURce:DATA:TELecom:SOAM:PEER:MEP:ID
:SOURce:DATA:TELecom:SOAM:PEER:MEP:ID?

OAM Quick Ping
:SOURce:DATA:TELecom:SOAM:PEER:MEP:QUICk:PING
:SENSe:DATA:TELecom:SOAM:PEER:MEP:QUICk:PING?

Next HOP Router (G.8113.1)

MAC Address
:SOURce:DATA:TELecom:SOAM:PEER:MEP:MAC:ADDRess
:SOURce:DATA:TELecom:SOAM:PEER:MEP:MAC:ADDRess?

Resolve MAC
:SOURce:DATA:TELecom:SOAM:RESolve:MAC:ENABle
:SOURce:DATA:TELecom:SOAM:RESolve:MAC:ENABle?

IP Address
:SOURce:DATA:TELecom:SOAM:IP
:SOURce:DATA:TELecom:SOAM:IP?

:SOURce:DATA:TELecom:SOAM:IPVersion
:SOURce:DATA:TELecom:SOAM:IPVersion?

Continuity Check

CC Function
:SOURce:DATA:TELecom:SOAM:CCHeck:FUNCtion:ENABle
:SOURce:DATA:TELecom:SOAM:CCHeck:FUNCtion:ENABle?

Address Type
:SOURce:DATA:TELecom:SOAM:CCHeck:ADDRess:TYPE
:SOURce:DATA:TELecom:SOAM:CCHeck:ADDRess:TYPE?

Priority
:SOURce:DATA:TELecom:SOAM:CCHeck:PRIority
:SOURce:DATA:TELecom:SOAM:CCHeck:PRIority?

Drop Eligible
:SOURce:DATA:TELecom:SOAM:CCHeck:DROP:ELIGible
:SOURce:DATA:TELecom:SOAM:CCHeck:DROP:ELIGible?

Period
:SOURce:DATA:TELecom:SOAM:CCHeck:PERiod
:SOURce:DATA:TELecom:SOAM:CCHeck:PERiod?

Test Function

Function
:SOURce:DATA:TELecom:SOAM:TEST:FUNCtion
:SOURce:DATA:TELecom:SOAM:TEST:FUNCtion?

Address Type
:SOURce:DATA:TELecom:SOAM:FUNCtion:ADDRess:TYPE
:SOURce:DATA:TELecom:SOAM:FUNCtion:ADDRess:TYPE?

Priority
:SOURce:DATA:TELecom:SOAM:FUNCtion:PRIority
:SOURce:DATA:TELecom:SOAM:FUNCtion:PRIority?

Drop Eligible
:SOURce:DATA:TELecom:SOAM:FUNCtion:DROP:ELIGible
:SOURce:DATA:TELecom:SOAM:FUNCtion:DROP:ELIGible?

TX Rate

:SOURce:DATA:TELecom:SOAM:FUNCtion:TX:RATE
:SOURce:DATA:TELecom:SOAM:FUNCtion:TX:RATE?

Frame Size

:SOURce:DATA:TELecom:SOAM:FUNCtion:FRAMe:SIZE
:SOURce:DATA:TELecom:SOAM:FUNCtion:FRAMe:SIZE?

TX Enable

:SOURce:DATA:TELecom:SOAM:FUNCtion:TX:ENABle
:SOURce:DATA:TELecom:SOAM:FUNCtion:TX:ENABle?

Continuous

:SOURce:DATA:TELecom:SOAM:FUNCtion:CONTinuous:ENABle
:SOURce:DATA:TELecom:SOAM:FUNCtion:CONTinuous:ENABle?

Requesting MEP ID TLV

:SOURce:DATA:TELecom:SOAM:FUNCtion:RMEPid:ENABle
:SOURce:DATA:TELecom:SOAM:FUNCtion:RMEPid:ENABle?

Frame Count

:SOURce:DATA:TELecom:SOAM:FUNCtion:FRAMe:COUNt
:SOURce:DATA:TELecom:SOAM:FUNCtion:FRAMe:COUNt?

Period

:SOURce:DATA:TELecom:SOAM:FUNCtion:PERiod?

TLV Type

:SOURce:DATA:TELecom:SOAM:FUNCtion:TLV:TYPE
:SOURce:DATA:TELecom:SOAM:FUNCtion:TLV:TYPE?

Payload

:SOURce:DATA:TELecom:SOAM:FUNCtion:PAYLoad
:SOURce:DATA:TELecom:SOAM:FUNCtion:PAYLoad?

Test Pattern

:SOURce:DATA:TELecom:SOAM:FUNCtion:TEST:PATTern
:SOURce:DATA:TELecom:SOAM:FUNCtion:TEST:PATTern?

Test ID
:SOURce:DATA:TELecom:SOAM:FUNCtion:TEST:ID
:SOURce:DATA:TELecom:SOAM:FUNCtion:TEST:ID?

MPLS-TP Label Stack (G.8113.1)

MPLS-TP Mode
:SOURce:DATA:TELecom:SOAM:MPLStp:MODE
:SOURce:DATA:TELecom:SOAM:MPLStp:MODE?

Label 1 / Label 2 / GAL
:SOURce:DATA:TELecom:SOAM:MPLStp:ENABle
:SOURce:DATA:TELecom:SOAM:MPLStp:ENABle?

Label
:SOURce:DATA:TELecom:SOAM:MPLStp:LABel
:SOURce:DATA:TELecom:SOAM:MPLStp:LABel?

TC
:SOURce:DATA:TELecom:SOAM:MPLStp:TC
:SOURce:DATA:TELecom:SOAM:MPLStp:TC?

TTL
:SOURce:DATA:TELecom:SOAM:MPLStp:TTL
:SOURce:DATA:TELecom:SOAM:MPLStp:TTL?

Restore Carrier Ethernet OAM Defaults

:SOURce:DATA:TELecom:RESTore:DEFault

Services - Global

Service Name
:SOURce:DATA:TELecom:ETHernet:STReam:NAME
:SOURce:DATA:TELecom:ETHernet:STReam:NAME?

Addressing - Batch - Addressing Batch Config

Source IP Address
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP:ENABle
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP:ENABle?

Couple with Interface / Automatic IP (CHCP) / Set to
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:ADDRess:TYPE
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:ADDRess:TYPE?

IP Address
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP?

Subnet Mask
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:SUBNet:MASK
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:SUBNet:MASK?

Default Gateway
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DEFault:GATeway:ENABle
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DEFault:GATeway:ENABle?
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DEFault:GATeway:IP
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DEFault:GATeway:IP?

Destination MAC Address
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:ENABle
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:ENABle?

Resolve / Set to
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:TYPE
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:TYPE?

MAC Address

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:ADDRess
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:ADDRess?

IP Address

Destination IP Address

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:IP:ENABle
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:IP:ENABle?

IP Address

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:IP
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:IP?

(UN)Select All / Invert

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:COPY

Apply To

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:COPY:STReam
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:COPY:STReam?
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:COPY:APPLy
:FETCh:DATA:TELecom:ETHernet:STReam:BATCh:COPY:SYNC:PROGress?

Copy Service

:SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:COPYstream

Services - Profile

Service

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:PROFile:SERVice:ENABle
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:PROFile:SERVice:ENABle?

Profile

Profile button
Refer to *Profile (Services)*

Frame Size
:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE:TYPE
:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE:TYPE?

:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE
:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE?

EMIX, refer to *EMIX* on page 409.

Test Parameters

Traffic Policing
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:ENABle
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:ENABle?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:VALue
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:VALue?

Burst Max Rate
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:BMRate
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:BMRate?

SLA Parameters

Information Rate

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFRate
:ENABle
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFRate
:ENABle?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFRate
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFRate
?

Performance Criteria

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCrit
eria:ENABle
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCrit
eria:ENABle?
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCrit
eria:VALue
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCrit
eria:VALue?

Burst Size

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe:E
NABle
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe:E
NABle?
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe?

Signal (Transport)

Physical Interface

Power
:SENSe:DATA:TELecom:ELECtrical:RX:POWer?
:SENSe:DATA:TELecom:ELECtrical:RX:POWer:MINimum?
:SENSe:DATA:TELecom:ELECtrical:RX:POWer:MAXimum?

Amplitude
:SENSe:DATA:TELecom:ELECtrical:RX:AMPLitude?
:SENSe:DATA:TELecom:ELECtrical:RX:AMPLitude:MINimum?
:SENSe:DATA:TELecom:ELECtrical:RX:AMPLitude:MAXimum?

LBO
:SOURce:DATA:TELecom:LBO
:SOURce:DATA:TELecom:LBO?

Line Coding
:SOURce:DATA:TELecom:CODE
:SOURce:DATA:TELecom:CODE?
:SENSe:DATA:TELecom:CODE
:SENSe:DATA:TELecom:CODE?

RX Termination
:SENSe:DATA:TELecom:TERMination
:SENSe:DATA:TELecom:TERMination?

TX Power
:SENSe:DATA:TELecom:OPTical:TX:POWer?
:SENSe:DATA:TELecom:OPTical:RX:POWer?

Min RX Power
:SENSe:DATA:TELecom:OPTical:RX:POWer:MINimum?
:SENSe:DATA:TELecom:OPTical:RX:POWer:MAXimum?

Wavelength
:SENSe:DATA:TELecom:OPTical:LASer:WAVelength?
|| :SENSe:DATA:TELecom:OPTical:WAVelength?

For tunable transceivers:
:SOURce:DATA:TELecom:OPTical:TUNable:WAVelength?

Power Range
:SENSe:DATA:TELecom:OPTical:POWer:RANGe?

Laser ON/OFF button
Refer to *Laser ON/OFF Button*

Laser OFF at Start-Up
:SENSe:DATA:TELecom:LOFF
:SENSe:DATA:TELecom:LOFF?

TX Frequency

Frequency
:SOURce:DATA:TELecom:ELECtrical:PORT:FREQuency?
:SOURce:DATA:TELecom:OPTical:PORT:FREQuency?

Offset
:SOURce:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet
:SOURce:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet?
:SOURce:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet:VALue
:SOURce:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet:VALue?
:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet
:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet?
:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue
:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue?

RX Frequency

Frequency
:SENSe:DATA:TELecom:ELECtrical:PORT:FREQuency?
:SENSe:DATA:TELecom:OPTical:PORT:FREQuency?

Max Offset
:SENSe:DATA:TELecom:ELECtrical:PORT:FREQuency:POSitive?
:SENSe:DATA:TELecom:ELECtrical:PORT:FREQuency:NEGative?
:SENSe:DATA:TELecom:OPTical:PORT:FREQuency:NEGative?
:SENSe:DATA:TELecom:OPTical:PORT:FREQuency:POSitive?

Offset
:SENSe:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet:VALue?
:SENSe:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue?

Signal - Signal Configuration (DSn/PDH)

Background
:SOURce:DATA:TELecom:DSNPdh:BACKground
:SOURce:DATA:TELecom:DSNPdh:BACKground?

DS0 / **E0** check box
:SOURce:DATA:TELecom:DS[1..n]:ENABled
:SOURce:DATA:TELecom:DS[1..n]:ENABled?
:SENSe:DATA:TELecom:DS[1..n]:ENABled
:SENSe:DATA:TELecom:DS[1..n]:ENABled?
:SOURce:DATA:TELecom:PDH:E[1..n]:ENABled?
:SOURce:DATA:TELecom:PDH:E[1..n]:ENABled?
:SENSe:DATA:TELecom:PDH:E[1..n]:ENABled?
:SENSe:DATA:TELecom:PDH:E[1..n]:ENABled?

TX Signaling
:SOURce:DATA:TELecom:DS[1..n]:SIGNaling:ENABle
:SOURce:DATA:TELecom:DS[1..n]:SIGNaling:ENABle?
:SOURce:DATA:TELecom:E[1..n]:SIGNaling:ENABle
:SOURce:DATA:TELecom:E[1..n]:SIGNaling:ENABle?

Channel
:SOURce:DATA:TELecom:DSNPdh:POSition
:SOURce:DATA:TELecom:DSNPdh:POSition?
:SENSe:DATA:TELecom:DSNPdh:POSition
:SENSe:DATA:TELecom:DSNPdh:POSition?

Framing
:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:FRAMing
:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:FRAMing?
:SENSe:DATA:TELecom:DS[1..n]:PAYLoad:FRAMing
:SENSe:DATA:TELecom:DS[1..n]:PAYLoad:FRAMing?
:SOURce:DATA:TELecom:PDH:E[1..n]:FRAMing
:SOURce:DATA:TELecom:PDH:E[1..n]:FRAMing?
:SENSe:DATA:TELecom:PDH:E[1..n]:FRAMing
:SENSe:DATA:TELecom:PDH:E[1..n]:FRAMing?

DS1 - Loopback

Mode
:SENSe:DATA:TELecom:DS[1..n]:MODE
:SENSe:DATA:TELecom:DS[1..n]:MODE?

Type
:SENSe:DATA:TELecom:DS[1..n]:AUTO:TYPE
:SENSe:DATA:TELecom:DS[1..n]:AUTO:TYPE?
:SENSe:DATA:TELecom:DS[1..n]:MANual:TYPE
:SENSe:DATA:TELecom:DS[1..n]:MANual:TYPE?

Activate
:SENSe:DATA:TELecom:DS[1..n]:MANual:ACTivate
:SENSe:DATA:TELecom:DS[1..n]:MANual:ACTivate?

Force Release
:SENSe:DATA:TELecom:DS[1..n]:AUTO:FORCe:RELease

Loop Code
:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE
:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE?

:SENSe:DATA:TELecom:DS[1..n]:LOOP:CODE
:SENSe:DATA:TELecom:DS[1..n]:LOOP:CODE?

Loop UP
:FETCh:DATA:TELecom:DS[1..n]:LOOP:UP?

Loop Down
:FETCh:DATA:TELecom:DS[1..n]:LOOP:DOWN?

Modify Loop Codes
Name
:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE:NAME?
:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE:NAME?

Loop-Up
:SOURce:DATA:TELecom:DS[1..n]:LOOP:UP
:SOURce:DATA:TELecom:DS[1..n]:LOOP:UP?

Loop-Down

:SOURce:DATA:TELecom:DS[1..n]:LOOP:DOWN
:SOURce:DATA:TELecom:DS[1..n]:LOOP:DOWN?

Signal - Signal Configuration (OTN)

OTU

FEC
:SOURce:DATA:TELecom:OTN:FEC
:SOURce:DATA:TELecom:OTN:FEC?

FEC-CORR Alarming
:SOURce:DATA:TELecom:OTN:FEC:FCA
:SOURce:DATA:TELecom:OTN:FEC:FCA?

Scrambler
:SOURce:DATA:TELecom:OTN:OTU[1..n]:SCRambler
:SOURce:DATA:TELecom:OTN:OTU[1..n]:SCRambler?
:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SCRambler
:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SCRambler?
:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SCRambler
:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SCRambler?

Background Traffic
:SOURce:DATA:TELecom:OTN:BTRaffic:PT[1..n]
:SOURce:DATA:TELecom:OTN:BTRaffic:PT[1..n]?

Signal - Signal Configuration (SONET/SDH)

OC/STM

Synchronization Status Message (S1)
:SOURce:DATA:TELecom:SDHSonet:ADVanced:S:BITS:SSMessage
:SOURce:DATA:TELecom:SDHSonet:ADVanced:S:BITS:SSMessage?

REI-L Computation Method
:SOURce:DATA:TELecom:BACKground:COMPutation
:SOURce:DATA:TELecom:BACKground:COMPutation?

STS/AU and VT/TU Mappings

Timeslot/Number
:SOURce:DATA:TELecom:POSition
:SOURce:DATA:TELecom:POSition?

TCM
:SOURce:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABle
:SOURce:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABle?
:SENSe:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABle
:SENSe:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABle?

:SOURce:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABle
:SOURce:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABle?
:SENSe:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABle
:SENSe:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABle?

TC-UNEQ-P / TC-UNEQ-V / HPTC-UNEQ / LPTC-UNEQ
:SENSe:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:TCUNeq:ENABle
:SENSe:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:TCUNeq:ENABle?

:SENSe:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:TCUNeq:ENABle
:SENSe:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:TCUNeq:ENABle?

Overwrite Fixed Stuff
:SOURce:DATA:TELecom:BACKground:BULK
:SOURce:DATA:TELecom:BACKground:BULK?

Background

:SOURce:DATA:TELecom:BACKground:SDHSonet:HOP
:SOURce:DATA:TELecom:BACKground:SDHSonet:HOP?

:SOURce:DATA:TELecom:BACKground:SDHSonet:LOP
:SOURce:DATA:TELecom:BACKground:SDHSonet:LOP?

Signal Auto-Detect

Signal Auto-Detect
:SOURce:DATA:TELecom:SIGNal:AUTO:DETect
:SOURce:DATA:TELecom:SIGNal:AUTO:DETect?
:FETCh:DATA:TELecom:SIGNal:AUTO:DETect?

Line Coding
:FETCh:DATA:TELecom:SIGNal:AUTO:DETect:CODE?

Framing
:FETCh:DATA:TELecom:SIGNal:AUTO:DETect:DS[1..n]:FRAMing?

Test Pattern
:FETCh:DATA:TELecom:SIGNal:AUTO:DETect:PATTern?

Abort
:SOURce:DATA:TELecom:SIGNal:AUTO:DETect:ABORt
:SOURce:DATA:TELecom:SIGNal:AUTO:DETect:ABORt?

Status
:FETCh:DATA:TELecom:SIGNal:AUTO:DETect:STATe?

Smart Loopback

Loopback

Mode
:SOURce:DATA:TELecom:ETHernet:SLOopback:MODE
:SOURce:DATA:TELecom:ETHernet:SLOopback:MODE?

Matching & Swapping

MAC Address
:SOURce:DATA:TELecom:ETHernet:SLOopback:MATChing:MAC:ADDRess:MODE?

IP Address
:SOURce:DATA:TELecom:ETHernet:PORT:ADDRess:IP?

IP LLA
:SOURce:DATA:TELecom:ETHernet:NETWork:LOCal:IPVersion:ADDRess?

IP GUA
:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:ADDRess?

UDP/TCP Port
:SOURce:DATA:TELecom:ETHernet:SLOopback:MATChing:UDP:PORT:MODE?

Streams - Global

Enable
:SOURce:DATA:TELecom:ETHernet:STReam:ENABled
:SOURce:DATA:TELecom:ETHernet:STReam:ENABled?

Stream Name
:SOURce:DATA:TELecom:ETHernet:STReam:NAME
:SOURce:DATA:TELecom:ETHernet:STReam:NAME?

Addressing - Batch - Addressing Batch Config

Source IP Address

Source IP Address
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP:ENABle
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP:ENABle?

Couple with Interface / Automatic IP (CHCP) / Set to
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:ADDRess:TYPE
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:ADDRess:TYPE?

IP Address
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP?

Subnet Mask
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:SUBNet:MASK
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:SUBNet:MASK?

Default Gateway
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DEFault:GATeway:ENABle
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DEFault:GATeway:ENABle?
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DEFault:GATeway:IP
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DEFault:GATeway:IP?

Destination MAC Address

Destination MAC Address
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:ENABle
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:ENABle?

Resolve / Set to
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:TYPE
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:TYPE?

MAC Address
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:ADDRess
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:ADDRess?

Destination IP Address

Destination IP Address
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:IP:ENABle
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:IP:ENABle?

IP Address
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:IP
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:IP?

(UN)Select All / Invert

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:COPY

Apply To

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:COPY:STReam
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:COPY:STReam?
:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:COPY:APPLy
:FETCh:DATA:TELecom:ETHernet:STReam:BATCh:COPY:SYNC:PROGress?

Global Options

QoS Metrics Tag Insertion

:SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:QOSMetrics:ENABle
:SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:QOSMetrics:ENABle?

Copy Stream

:SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:COPYstream

Restore Default

:SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:RESTore:DEFault

Streams - Profile

Stream

Stream Name
:SOURce:DATA:TELecom:ETHernet:STReam:NAME
:SOURce:DATA:TELecom:ETHernet:STReam:NAME?

Enable
:SOURce:DATA:TELecom:ETHernet:STReam:ENABled
:SOURce:DATA:TELecom:ETHernet:STReam:ENABled?

Profile

Profile
Refer to *Profile (Stream)*.

Frame Size
:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE:TYPE
:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE:TYPE?

:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE
:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE?

EMIX, refer to *EMIX* on page 409.

Sweep
:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SWEep:STARt
:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SWEep:STARt?
:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SWEep:END
:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SWEep:END?

Shaping

TX Mode
:SOURce:DATA:TELecom:ETHernet:STReam:TRAnsmit:MODE
:SOURce:DATA:TELecom:ETHernet:STReam:TRAnsmit:MODE?

TX Rate / Max TX Rate
Percentage:
:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:RATE
:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:RATE?
Mbit/s:
:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:RATE:MBPS
:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:RATE:MBPS?

Frame Count
:SOURce:DATA:TELecom:ETHernet:STReam:TRAnsmit:NFRame
:SOURce:DATA:TELecom:ETHernet:STReam:TRAnsmit:NFRame?

Total TX Rate

:SOURce:DATA:TELecom:ETHernet:ENABled:BANDwidth?

Link Capacity
:SOURce:DATA:TELecom:ETHernet:TOTal:BANDwidth?

QoS Metrics

Global Pass/Fail Verdict
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:VERDict
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:VERDict?

Global Threshold Type
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:TYPE
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:TYPE?
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:TYPE
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:TYPE?
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:TYPE
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:TYPE?

Throughput Threshold
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:STATus
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:STATus?
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:MAXimum

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:MAXimum
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:MINimum
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:MINimum?

Frame Loss Count/Rate Threshold

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:STATus
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:STATus?
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:RATE
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:RATE?
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:COUNt
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:COUNt?

Out-of-Sequence Count/Rate Threshold

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:STATus
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:STATus?
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:RATE
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:RATE?
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:COUNt
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:COUNt?

Jitter Threshold

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:STATus
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:STATus?
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:VALue
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:VALue?

Latency Threshold

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:STATus
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:STATus?
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:VALue
:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:VALue?

SyncE

ESMC Monitoring

LINK
:FETCh:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:ESMC?

Received QL
:FETCh:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:RECeivedql?

QL Mismatch Monitoring
:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:QLMismatch
:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:QLMismatch?

Expected QL
:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:EXPectedql
:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:EXPectedql?

Pass/Fail Verdict
:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:PASSfail:VERDict?

ESMC Rate Threshold
:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:RATE:THReshold
:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:RATE:THReshold?

ESMC Generation

Generated QL
:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:GENerated:QLENable
:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:GENerated:QLENable?
:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:GENerated:QLValue
:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:GENerated:QLValue?

QL Rate

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:QLRate
:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:QLRate?

System / System - General

Factory Default

Restore Default
:SOURce:DATA:TELecom:FACTory:RESTore:DEFault

Notification Control

:SOURce:DATA:TELecom:TRANsceiver:TFAult:ENABle
:SOURce:DATA:TELecom:TRANsceiver:TFAult:ENABle?

System - GNSS

Configuration

Constellation
:SOURce:DATA:TELecom:GNSS:CONStellation
:SOURce:DATA:TELecom:GNSS:CONStellation?

QZSS
:SOURce:DATA:TELecom:GNSS:QZSS:ENABle
:SOURce:DATA:TELecom:GNSS:QZSS:ENABle?

Time Source / Variant
:SOURce:DATA:TELecom:GNSS:TSOurce
:SOURce:DATA:TELecom:GNSS:TSOurce?

:SOURce:DATA:TELecom:GNSS:VARiant
:SOURce:DATA:TELecom:GNSS:VARiant?

Position Mode
:SOURce:DATA:TELecom:GNSS:PMODe
:SOURce:DATA:TELecom:GNSS:PMODe?

Coordinates (Antenna Coordinates)
:SOURce:DATA:TELecom:GNSS:ANTenna:LATitude
:SOURce:DATA:TELecom:GNSS:ANTenna:LATitude?

:SOURce:DATA:TELecom:GNSS:ANTenna:LONGitude
:SOURce:DATA:TELecom:GNSS:ANTenna:LONGitude?

:SOURce:DATA:TELecom:GNSS:ANTenna:ALTitude
:SOURce:DATA:TELecom:GNSS:ANTenna:ALTitude?

Restart
:SOURce:DATA:TELecom:GNSS:RESTart

Desired Accuracy
:SOURce:DATA:TELecom:GNSS:DACC
:SOURce:DATA:TELecom:GNSS:DACC?

Cable Delay
:SOURce:DATA:TELecom:GNSS:CDELay
:SOURce:DATA:TELecom:GNSS:CDELay?

Holdover

Oscillator Warm-Up
:FETCh:DATA:TELecom:GNSS:WUP:STATus?
:FETCh:DATA:TELecom:GNSS:WUP:RTIMe?

Discipline Oscillator
:SOURce:DATA:TELecom:GNSS:DISCipline:ENABle
:SOURce:DATA:TELecom:GNSS:DISCipline:ENABle?
:FETCh:DATA:TELecom:GNSS:DISCipline:STATus?
:FETCh:DATA:TELecom:GNSS:DISCipline:PROGress?

Holdover
:SOURce:DATA:TELecom:GNSS:HOLDover:ENABle
:SOURce:DATA:TELecom:GNSS:HOLDover:ENABle?
:FETCh:DATA:TELecom:GNSS:HOLDover:STATus?

Estimated Holdover Remaining Time
:FETCh:DATA:TELecom:GNSS:HOLDover:RTIMe?

Elapsed time
:FETCh:DATA:TELecom:GNSS:HOLDover:ETIMe?

Statuses

:SOURce:DATA:TELecom:GNSS:ANTenna:ALTitude?

GNSS
:FETCh:DATA:TELecom:GNSS?

Status
:FETCh:DATA:TELecom:GNSS:STATus?

Time Lock
:FETCh:DATA:TELecom:GNSS:TLOCk?

UTC Variant
:FETCh:DATA:TELecom:GNSS:UTC?

Jamming
:FETCh:DATA:TELecom:GNSS:JAMMing?

# of Sat used
:FETCh:DATA:TELecom:GNSS:SATellite?

Coordinates
:FETCh:DATA:TELecom:GNSS:ANTenna:LATitude?
:FETCh:DATA:TELecom:GNSS:ANTenna:LONGitude?
:FETCh:DATA:TELecom:GNSS:ANTenna:ALTitude?

Satellites Histogram

:FETCh:DATA:TELecom:GNSS:HISTogram?

TA/TA4-...

:FETCh:DATA:TELecom:TA:INFO?

For TA-SYNC:
:FETCh:DATA:TELecom:TA:SYNC:INFO?

For Loopback Tool:
:FETCh:DATA:TELecom:SLT:TA:INFO?

Test Configurator

Transceiver Status
:FETCh:DATA:TELecom:OPTical:MODule:STATus?

TA Status
:FETCh:DATA:TELecom:TA:INFO?

Transceiver Transaction Fault Status
:FETCh:DATA:TELecom:TRANsceiver:TFAult:STATus?

Test Sequence - iOptics

Control Pin Check
:SOURce:DATA:TELecom:IOPTics:CPCHeck
:SOURce:DATA:TELecom:IOPTics:CPCHeck?

Power Threshold (W)
:SOURce:DATA:TELecom:IOPTics:POWer:THReshold?

Pass/Fail Verdict
:SOURce:DATA:TELecom:IOPTics:POWer:THReshold:VERDict
:SOURce:DATA:TELecom:IOPTics:POWer:THReshold:VERDict?

Temp. Threshold (^{o}C)
:SOURce:DATA:TELecom:IOPTics:TEMPerature:THReshold
:SOURce:DATA:TELecom:IOPTics:TEMPerature:THReshold

TX Power Range (dBm)
:FETCh:DATA:TELecom:IOPTics:POWer:TX:RANGe?

RX Power Range (dBm)
:FETCh:DATA:TELecom:IOPTics:POWer:RX:RANGe?

BERT Duration
:SOURce:DATA:TELecom:IOPTics:BERT:DURation
:SOURce:DATA:TELecom:IOPTics:BERT:DURation?

BERT Threshold
:SOURce:DATA:TELecom:IOPTics:BERT:THReshold?

Skew Threshold (Bits)
:SOURce:DATA:TELecom:IOPTics:SKEW:THReshold?

TCP Throughput

TCP Mode

:SOURce:DATA:TELecom:ETHernet:TCP:MODE
:SOURce:DATA:TELecom:ETHernet:TCP:MODE?

TCP Connection Configuration

Remote IP Address
:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:RIP
:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:RIP?

Accept Connection From IP
:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:LIP
:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:LIP?

IP TOS/DS
:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:IP:TOSDs
:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:IP:TOSDs?

TCP Port
:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:PORT
:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:PORT?

TCP Throughput Configuration

Initial Window Size
:SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:INTSize
:SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:INTSize?

fMinimum Window Size
:SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:MINSize
:SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:MINSize?

Maximum Window Size
:SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:MAXSize
:SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:MAXSize?

Throughput Pass/Fail Verdict

:SOURce:DATA:TELecom:VERDict:ENABle

:SOURce:DATA:TELecom:VERDict:ENABle?

Threshold

:SOURce:DATA:TELecom:ETHernet:TCP:INJection:THReshold

:SOURce:DATA:TELecom:ETHernet:TCP:INJection:THReshold?

Restore TCP Throughput Defaults

:SOURce:DATA:TELecom:RESTore:DEFault

Timer

Timer

Duration / Start Time / STop Time check boxes
:SOURce:DATA:TELecom:TIMer:CONFig
:SOURce:DATA:TELecom:TIMer:CONFig?

Duration
:SOURce:DATA:TELecom:TIMer:DURation
:SOURce:DATA:TELecom:TIMer:DURation?
:SOURce:DATA:TELecom:TIMer:UDEFined
:SOURce:DATA:TELecom:TIMer:UDEFined?

Start Time
:SOURce:DATA:TELecom:TIMer:STARt
:SOURce:DATA:TELecom:TIMer:STARt?

Stop Time
:SOURce:DATA:TELecom:TIMer:STOP
:SOURce:DATA:TELecom:TIMer:STOP?

ARM
:SOURce:DATA:TELecom:TIMer
:SOURce:DATA:TELecom:TIMer?

Traces (OTN)

Standard or T.50 Control Characters for Trace Message Commands

:SOURce:DATA:TELecom:ControlCHAracter:MODE
:SOURce:DATA:TELecom:ControlCHAracter:MODE?

OTU - SM TTI Traces

Overwrite
:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled
:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:OVERwrite:ENABled
:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:OVERwrite:ENABled?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:OVERwrite:ENABled
:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:OVERwrite:ENABled?

SAPI
- Received Message
:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B[1..n]
:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B[1..n]?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B
:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:SAPI:B
:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:SAPI:B?

- Expected Message
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:EXPected
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:EXPected?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:EXPected
:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:EXPected?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:SAPI:EXPected
:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:SAPI:EXPected?

DAPI
- Received Message
:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:DAPI:B[1..n]
:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:DAPI:B[1..n]?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:DAPI:B
:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:DAPI:B?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:DAPI:B
:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:DAPI:B?

- Expected Message
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:EXPected
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:EXPected?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXPected
:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXPected?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:DAPI:EXPected
:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:DAPI:EXPected?

Operator Specific
- Received Message
:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B[1..n]
:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B[1..n]?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:OPSPec:B
:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:OPSPec:B?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:OPSPec:B
:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:OPSPec:B?

SAPI/DAPI OTU-TIM
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM
:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:TIM
:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:TIM?

ODU - PM TTI Traces

Overwrite
:SOURce:DATA:TELecom:OTN:ODU[1..n]:TTI:OVERwrite:ENABled
:SOURce:DATA:TELecom:OTN:ODU[1..n]:TTI:OVERwrite:ENABled?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:OVERwrite:ENABled
:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:OVERwrite:ENABled?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TTI:OVERwrite:ENABled
:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TTI:OVERwrite:ENABled?

Channel selection for Multi-Channel OTN
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHAnnel
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHAnnel?
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel?

Expected Message (**SAPI** and **DAPI**) for Multi-Channel OTN: Icon indicating that at least one channel uses a different message.
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:GOVERwrite?
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:GOVERwrite?

SAPI
- Received Message
:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:SAPI:B
:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:SAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:PM:SAPI:B
:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:PM:SAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:PM:SAPI:B
:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:PM:SAPI:B?

- Expected Message
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:SAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:SAPI:EXPected?

DAPI
- Received Message
:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:DAPI:B
:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:DAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:PM:DAPI:B
:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:PM:DAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:PM:DAPI:B
:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:PM:DAPI:B?

- Expected Message
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:DAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:DAPI:EXPected?

Operator Specific
- Received Message
:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:OPSPec:B
:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:OPSPec:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:PM:OPSPec:B
:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:PM:OPSPec:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:PM:OPSPec:B
:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:PM:OPSPec:B?

SAPI/DAPI ODU-TIM
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIM
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:TIM
:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:TIM
:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:TIM?

ODU - TCM TTI Traces

SAPI
- Received Message
:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B
:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:SAPI:B
:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:SAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:SAPI:B
:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:SAPI:B?

- Expected Message
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:EXPected?

DAPI
- Received Message
:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:DAPI:B
:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:DAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:DAPI:B
:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:DAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:DAPI:B
:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:DAPI:B?

- Expected Message
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI:EXPected?

Operator Specific
- Received Message
:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:OPSPec:B
:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:OPSPec:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:OPSPec:B
:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:OPSPec:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:OPSPec:B
:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:OPSPec:B?

SAPI/DAPI TCM-TIM
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:TIM
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:TIM
:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:TIM
:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:TIM?

Traces (SONET/SDH)

Standard or T.50 Control Characters for Trace Message Commands

:SOURce:DATA:TELecom:ControlCHAracter:MODE
:SOURce:DATA:TELecom:ControlCHAracter:MODE?

Traces

Section/RS (J0)
- Format
:SOURce:DATA:TELecom:SDHSonet:SECTion:OVERhead:J[1..n]:PATTern
:SOURce:DATA:TELecom:SDHSonet:SECTion:OVERhead:J[1..n]:PATTern?

- Generated
:SOURce:DATA:TELecom:SDHSonet:SECTion:OVERhead:J[1..n]:PATTern:B
:SOURce:DATA:TELecom:SDHSonet:SECTion:OVERhead:J[1..n]:PATTern:B?

STS/AU/TU-3 Path (J1)
- Format
:SOURce:DATA:TELecom:SDHSonet:PATH:OVERhead:J[1..n]:PATTern
:SOURce:DATA:TELecom:SDHSonet:PATH:OVERhead:J[1..n]:PATTern?

- Generated
- Format
:SOURce:DATA:TELecom:SDHSonet:PATH:OVERhead:J[1..n]:PATTern:B
:SOURce:DATA:TELecom:SDHSonet:PATH:OVERhead:J[1..n]:PATTern:B?

VT/TU Path (J2)
- Format
:SOURce:DATA:TELecom:SDHSonet:LOP:OVERhead:J[1..n]:PATTern
:SOURce:DATA:TELecom:SDHSonet:LOP:OVERhead:J[1..n]:PATTern?
- Generated
:SOURce:DATA:TELecom:SDHSonet:LOP:OVERhead:J[1..n]:PATTern:B
:SOURce:DATA:TELecom:SDHSonet:LOP:OVERhead:J[1..n]:PATTern:B?

TIM-S/RS-TIM

- Enable

:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM

:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM?

- Format

:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern

:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern?

- Expected

:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern:B

:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern:B?

TIM-P/HP-TIM

- Enable

:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM

:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM?

- Format

:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PATTern

:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PATTern?

- Expected

:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PATTern:B

:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PATTern:B?

TIM-V/LP-TIM

- Enable

:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM

:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM?

- Format

:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM:PATTern

:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM:PATTern?

- Expected

:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM:PATTern:B

:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM:PATTern:B?

TCM Access Point Identifier

STS/AU Path (N1)
- Generated
:SOURce:DATA:TELecom:SDHSonet:HOP:TCAPident:N[1..n]:MESSage
:SOURce:DATA:TELecom:SDHSonet:HOP:TCAPident:N[1..n]:MESSage?

- Expected
:SENSe:DATA:TELecom:SDHSonet:HOP:TCAPident:EXPected
:SENSe:DATA:TELecom:SDHSonet:HOP:TCAPident:EXPected?

- Enable
:SENSe:DATA:TELecom:SDHSonet:HOP:TCAPident:TCTim
:SENSe:DATA:TELecom:SDHSonet:HOP:TCAPident:TCTim?

VT/TU Path (Z6 or N1 (TU-3))
- Generated
:SOURce:DATA:TELecom:SDHSonet:LOP:TCAPident:N[1..n]:MESSage
:SOURce:DATA:TELecom:SDHSonet:LOP:TCAPident:N[1..n]:MESSage?

- Generated
:SENSe:DATA:TELecom:SDHSonet:LOP:TCAPident:EXPected
:SENSe:DATA:TELecom:SDHSonet:LOP:TCAPident:EXPected?

- Enable
:SENSe:DATA:TELecom:SDHSonet:LOP:TCAPident:TCTim
:SENSe:DATA:TELecom:SDHSonet:LOP:TCAPident:TCTim?

Traces/PT (FlexO)

Standard or T.50 Control Characters for Trace Message Commands

:SOURce:DATA:TELecom:ControlCHAracter:MODE
:SOURce:DATA:TELecom:ControlCHAracter:MODE?

SM TTI Traces

Overwrite
:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled
:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled?

SAPI
- Received Message
:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B[1..n]
:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B[1..n]?

- Expected Message
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:EXPected
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:EXPected?

DAPI
- Received Message
:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:DAPI:B[1..n]
:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:DAPI:B[1..n]?

- Expected Message
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:EXPected
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:EXPected?

Operator Specific
- Received Message
:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B[1..n]
:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B[1..n]?

SAPI/DAPI OTU-TIM
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM?

PM TTI Traces

Client ID selection for ODUk
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACLient
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACLient?

Expected Message (**SAPI** and **DAPI**): Icon indicating that at least one client uses a different message.
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:GOVErwrite?
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:GOVErwrite?

SAPI
- Received Message
:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:SAPI:B
:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:SAPI:B?

- Expected Message
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPected?

DAPI
- Received Message
:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:DAPI:B
:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:DAPI:B?

- Expected Message
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPected?

Operator Specific
- Received Message
:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:OPSPec:B
:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:OPSPec:B?

SAPI/DAPI ODU-TIM
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIM
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIM?

PT/Global PT

Client ID selection for ODUk
:SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLient
:SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLient?

Payload Type
:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe
:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe?
:SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe
:SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe?

Payload Type - Global Overwrite Status Icon
:SENSe:DATA:TELecom:OTN:OPU[1..n]:GOVErwrite?

Code
:SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe
:SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe?
:SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe
:SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe?

OPU-PLM
:SENSe:DATA:TELecom:OTN:OPU[1..n]:PLM
:SENSe:DATA:TELecom:OTN:OPU[1..n]:PLM?

6 *SCPI Command List - Results*

Note: *The symbol || precedes a parallel interface command when a different command is used for a serial interface.*

Note: *For **Dual Port** topology or multi-port test (FlexE/FlexO) use the following command to select the port for subsequent commands/queries:*
:SOURce:DATA:TELecom:PORT

Note: *For multiple link interface (for example 2 x 100GE), use the following command to select the link for subsequent commands/queries:*
:SOURce:DATA:TELecom:LINK

List of Pages

Alarms/Errors

Quick Access to Alarms/Errors per Layer

BER | Clock | CPRI | DS1 | DS3 | E1 | E2 | E3 | E4 | Electrical Interface | Ethernet | Ethernet - PCS | Ethernet - PCS Lanes | FEC (FlexO) | FEC (OTN) | FEC Lanes | Fibre Channel (including RS-FEC layer) | FlexE Group | FlexO Group / OTUC Frame | FOICx.y | GFP | GMP | Interface | IP/UDP/TCP | Media RX FEC | MPLS-TP OAM | OBSAI | ODUx/ODUk/ODUCn | ODUx-TCM | OPUx/OPUk/OPUCn | OTL | OTUx/OTUCn/OTUC Frame | Path OAM | PHY | PHYs/Instances (FlexE - Group) | PTP | QoS Metrics | RS-FEC | RX (DCO) | S-OAM | Section/Line/RS/MS | STS-x / AU-x | SyncE | TCM (SONET/SDH) | Transcoding | TX (DCO) | VT/TU | WIS

Alarms/Errors Layer per Test Application

➤ **Transport**

Test Application	Interface	Alarms/Errors
DCO BERT	All	*Media RX FEC	RX (DCO)	TX (DCO)*
FlexO BERT	100G	*BER	FEC (FlexO)	FEC Lanes	FlexO Group / OTUC Frame	FOICx.y	Interface	ODUx/ODUk/ODUCn	OPUx/OPUk/OPUCn	OTUx/OTUCn/OTUC Frame*
OTN BERT	All	*BER	Clock	Ethernet	FEC (OTN)	GFP	GMP	Interface	ODUx/ODUk/ODUCn	ODUx-TCM	OPUx/OPUk/OPUCn	OTUx/OTUCn/OTUC Frame*
	OTU3	*Transcoding	OTL*
	OTU4	*OTL*
Multi-Channel OTN	OTU4	*BER	Clock	Interface	ODUx/ODUk/ODUCn	OPUx/OPUk/OPUCn	OTL	OTUx/OTUCn/OTUC Frame*
SONET/SDH BERT	All	*BER	Clock	Interface	Section/Line/RS/MS	STS-x / AU-x	TCM (SONET/SDH)	VT/TU*
OTN-SONET/SDH BERT	All	*BER	Clock	FEC (OTN)	GMP	Interface	ODUx/ODUk/ODUCn	ODUx-TCM	OPUx/OPUk/OPUCn	OTUx/OTUCn/OTUC Frame	Section/Line/RS/MS	STS-x / AU-x*
	OTU3, OTU4	*OTL*
DSn/PDH BERT	All	*BER	DS1	DS3	E1	E2	E3	E4	Interface*
SONET/SDH - DSn/PDH BERT	All	*BER	DS1	DS3	E1	E2	E3	E4	Interface	Section/Line/RS/MS	STS-x / AU-x	TCM (SONET/SDH)	VT/TU*

Test Application	Interface	Alarms/Errors
NI/CSU Emulation	DS1	*Interface | DS1 | DS3*

➤ **Ethernet**

Test Application	Interface	Alarms/Errors
Carrier Ethernet OAM	All	*Clock | Ethernet | Interface | MPLS-TP OAM | S-OAM*
	10GE WAN	*WIS*
EtherBERT	All	*BER | Clock | Ethernet | Interface | IP/UDP/TCP*
	10GE WAN	*WIS*
	25GE	*RS-FEC*
	50GE, 100GE	*Ethernet - PCS | Ethernet - PCS Lanes| FEC Lanes | RS-FEC*
	200GE, 400GE	*Ethernet - PCS | Ethernet - PCS Lanes*
EtherSAM	All	*Clock | Ethernet | Interface | IP/UDP/TCP*
	10GE WAN	*WIS*
	25GE	*RS-FEC*
	100GE	*Ethernet - PCS | Ethernet - PCS Lanes | FEC Lanes | RS-FEC*
	400GE	*Ethernet - PCS | Ethernet - PCS Lanes*
FlexE BERT	100GE	*BER | Ethernet | Ethernet - PCS | Ethernet - PCS Lanes | FEC Lanes | FlexE Group | Interface | Path OAM | PHY | PHYs/Instances (FlexE - Group) | RS-FEC*
RFC 2544	All	*Clock | Ethernet | Interface | IP/UDP/TCP*
	10GE WAN	*WIS*
	25GE	*RS-FEC*
	100GE	*Ethernet - PCS | Ethernet - PCS Lanes | FEC Lanes | RS-FEC*
	400GE	*Ethernet - PCS | Ethernet - PCS Lanes*

Test Application	Interface	Alarms/Errors
RFC 6349	All	***Clock | Ethernet | Interface | IP/UDP/TCP***
	10GE WAN	***WIS***
	100GE	***Ethernet - PCS | Ethernet - PCS Lanes | FEC Lanes | RS-FEC***
Smart Loopback	All	***Clock | Ethernet | Interface | IP/UDP/TCP***
	10GE WAN	***WIS***
	25GE	***RS-FEC***
	100GE	***Ethernet - PCS | Ethernet - PCS Lanes | FEC Lanes | RS-FEC***
	400GE	***Ethernet - PCS | Ethernet - PCS Lanes***
TCP Throughput	All	***Clock | Ethernet | Interface | IP/UDP/TCP***
Through Mode	All	***Clock | Ethernet | Interface | IP/UDP/TCP***
	10GE WAN	***WIS***
	100GE	***Ethernet - PCS | Ethernet - PCS Lanes | FEC Lanes | RS-FEC***
Traffic Gen & Mon	All	***Clock | Ethernet | Interface | IP/UDP/TCP | QoS Metrics***
	10GE WAN	***WIS***
	25GE	***RS-FEC***
	100GE	***Ethernet - PCS | Ethernet - PCS Lanes| FEC Lanes | RS-FEC***
	400GE	***Ethernet - PCS | Ethernet - PCS Lanes***

➤ **Sync**

Test Application	Interface	Alarms/Errors
1588 PTP	All	***Ethernet | Interface | IP/UDP/TCP | PTP***
SyncE	All	***Ethernet | Interface | IP/UDP/TCP | SyncE***

➤ **Fibre Channel**

Test Application	Interface	Alarms/Errors
FC BERT	All	*BER	Clock	Fibre Channel (including RS-FEC layer)	Interface*

➤ **Wireless**

Test Application	Interface	Alarms/Errors
CPRI/OBSAI BERT	All	*BER	Clock	Interface*
	CPRI rates	*CPRI, RS-FEC (24.3G)*
	OBSAI rates	*OBSAI*
eCPRI BERT	10G	*BER	Clock	Ethernet	Interface	QoS Metrics*
	25G	*RS-FEC*

FlexE

- Port
:SOURce:DATA:TELecom:PORT
:SOURce:DATA:TELecom:PORT?

- Client ID
:SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier
:SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier?

- FlexE PHY Number
:SOURce:DATA:TELecom:FETHernet:GROup:PNUMber?

- Size
:SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:CONFig?

FlexO

- Port
:SOURce:DATA:TELecom:PORT
:SOURce:DATA:TELecom:PORT?

- FlexO Instance ID
:SOURce:DATA:TELecom:FOTN:INSTance:IDentifier?

Multiple Link Interface

- Link
:SOURce:DATA:TELecom:LINK
:SOURce:DATA:TELecom:LINK?

Global Layer

:FETCh:DATA:TELecom:ALARm:HISTory?
:FETCh:DATA:TELecom:ALARm:SEConds?
:FETCh:DATA:TELecom:ALARm:CURRent?
:FETCh:DATA:TELecom:ERRor:HISTory?
:FETCh:DATA:TELecom:ERRor:SEConds?
:FETCh:DATA:TELecom:ERRor:CURRent?
:FETCh:DATA:TELecom:ERRor:COUNt?
:FETCh:DATA:TELecom:ERRor:RATE?
:FETCh:DATA:TELecom:ERRor:COUNt:TOTal?
:FETCh:DATA:TELecom:ERRor:RATE:TOTal?

BER

Alarms

:FETCh:DATA:TELecom:PATTern:ALARm:PATTern:SEConds?
:FETCh:DATA:TELecom:PATTern:ALARm:PATTern:HISTory?
:FETCh:DATA:TELecom:PATTern:ALARm:PATTern:CURRent?

- Client Frequency:
:FETCh:DATA:TELecom:ETHernet:COFFset:ALARm:HISTory?
:FETCh:DATA:TELecom:ETHernet:COFFset:ALARm:CURRent?
:FETCh:DATA:TELecom:ETHernet:COFFset:ALARm:SEConds?

Errors

:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:SEConds?
:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:COUNt?
:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:RATE?
:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:HISTory?
:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:CURRent?

Injection

- Channel
:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:CHANnel
:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:CHANnel?
:SOURce:DATA:TELecom:PATTern:ALARm:PATTern:CHANnel
:SOURce:DATA:TELecom:PATTern:ALARm:PATTern:CHANnel?

Mode Manual
- Defect
:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE
:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE?
- Amount
:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt
:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt?
- Inject
:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:INJect

Mode Rate/Max Rate
- Mode
:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated:CONTinuous
:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated:CONTinuous?

- Defect
:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated:TYPE
:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated:TYPE?

- Rate
:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated:RATE
:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated:RATE?
- Inject
:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated
:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated?

Mode Continuous
- Defect
:SOURce:DATA:TELecom:PATTern:ALARm:PATTern:TYPE?
- Inject
:SOURce:DATA:TELecom:PATTern:ALARm:PATTern

Clock

Alarms

:INPut:TELecom:BACKplane:ALARm:STATus:HISTory?
:INPut:TELecom:BACKplane:ALARm:STATus:CURRent?
:INPut:TELecom:BACKplane:ALARm:STATus:SEConds?

CPRI

Alarms

:FETCh:DATA:TELecom:CPRI:ALARm:HISTory?
:FETCh:DATA:TELecom:CPRI:ALARm:CURRent?
:FETCh:DATA:TELecom:CPRI:ALARm:SEConds?

Errors

:FETCh:DATA:TELecom:CPRI:ERRor:SEConds?
:FETCh:DATA:TELecom:CPRI:ERRor:COUNt?
:FETCh:DATA:TELecom:CPRI:ERRor:RATE?
:FETCh:DATA:TELecom:CPRI:ERRor:HISTory?
:FETCh:DATA:TELecom:CPRI:ERRor:CURRent?

Injection

Mode Manual

- Defect

:SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFect

:SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFect?

- Amount

:SOURce:DATA:TELecom:CPRI:ERRor:MANual:AMOunt

:SOURce:DATA:TELecom:CPRI:ERRor:MANual:AMOunt?

- Inject

:SOURce:DATA:TELecom:CPRI:ERRor:MANual:INJect

Mode Rate/Max Rate

- Mode

:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:CONTinuous

:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:CONTinuous?

- Defect

:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:DEFect

:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:DEFect?

- Rate

:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:RATE

:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:RATE?

- Inject

:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated

:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated?

Mode Continuous

- Defect

:SOURce:DATA:TELecom:CPRI:ALARm:DEFect

:SOURce:DATA:TELecom:CPRI:ALARm:DEFect?

- Inject

:SOURce:DATA:TELecom:CPRI:ALARm:GENerate

:SOURce:DATA:TELecom:CPRI:ALARm:GENerate?

DS1 | DS3

Alarms

:FETCh:DATA:TELecom:DSN:ALARm:DS[1..n]:HISTory?
:FETCh:DATA:TELecom:DSN:ALARm:DS[1..n]:SEConds?
:FETCh:DATA:TELecom:DSN:ALARm:DS[1..n]:CURRent?

Errors

:FETCh:DATA:TELecom:DSN:ERRor:DS[1..n]:HISTory?
:FETCh:DATA:TELecom:DSN:ERRor:DS[1..n]:SEConds?
:FETCh:DATA:TELecom:DSN:ERRor:DS[1..n]:CURRent?
:FETCh:DATA:TELecom:DSN:ERRor:DS[1..n]:COUNt?
:FETCh:DATA:TELecom:DSN:ERRor:DS[1..n]:RATE?

Injection

Mode Manual
- Defect
:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:MANual:TYPE
:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:MANual:TYPE?
- Amount
:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AMOunt
:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AMOunt?
- Inject
:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:INJect

Mode Rate/Max Rate
- Mode
:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:CONTinuous
:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:CONTinuous?
- Defect
:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:TYPE
:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:TYPE?
- Rate
:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:RATE
:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:RATE?
- Inject
:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated
:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated?

Mode Continuous
- Defect
:SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE
:SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE?
- Inject
:SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]
:SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]?

E1 | E2 | E3 | E4

Alarms

:FETCh:DATA:TELecom:PDH:ALARm:E[1..n]:HISTory?
:FETCh:DATA:TELecom:PDH:ALARm:E[1..n]:SEConds?
:FETCh:DATA:TELecom:PDH:ALARm:E[1..n]:CURRent?

Errors

:FETCh:DATA:TELecom:PDH:ERRor:E[1..n]:HISTory?
:FETCh:DATA:TELecom:PDH:ERRor:E[1..n]:SEConds?
:FETCh:DATA:TELecom:PDH:ERRor:E[1..n]:CURRent?
:FETCh:DATA:TELecom:PDH:ERRor:E[1..n]:COUNt?
:FETCh:DATA:TELecom:PDH:ERRor:E[1..n]:RATE?

Injection

Mode Manual
- Defect
:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE
:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE?
- Amount
:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOunt
:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOunt?
- Inject
:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:INJect

Mode Rate/Max Rate
- Mode
:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:CONTinuous

:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:CONTinuous?
- Defect
:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:TYPE
:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:TYPE?
- Rate
:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:RATE
:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:RATE?
- Inject
:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated
:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated?

Mode Continuous
- Defect
:SOURce:DATA:TELecom:PDH:ALARm:E[1..n]:TYPE
:SOURce:DATA:TELecom:PDH:ALARm:E[1..n]:TYPE?
- Inject
:SOURce:DATA:TELecom:PDH:ALARm:E[1..n]
:SOURce:DATA:TELecom:PDH:ALARm:E[1..n]?

Electrical Interface

Alarms

Note: *Not available yet.*

Ethernet

Alarms

Note: *Refer also to* Ethernet - PCS *on page 212 and* Ethernet - PCS Lanes *on page 213.*

For rates up to 25G or FlexE client:
:FETCh:DATA:TELecom:ETHernet:ALARm:LRATe:GLOBal:HISTory?
:FETCh:DATA:TELecom:ETHernet:ALARm:LRATe:GLOBal:CURRent?
:FETCh:DATA:TELecom:ETHernet:ALARm:LRATe:GLOBal:SEConds?

For parallel interfaces or serial interfaces 25G and up:
:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:HISTory?
:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:CURRent?
:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:SEConds?

- Ethernet over OTN:
:FETCh:DATA:TELecom:EOTN:ETHernet:ALARm:HISTory?
:FETCh:DATA:TELecom:EOTN:ETHernet:ALARm:CURRent?
:FETCh:DATA:TELecom:EOTN:ETHernet:ALARm:SEConds?
- Client Frequency:
:FETCh:DATA:TELecom:ETHernet:COFFset:ALARm:HISTory?
:FETCh:DATA:TELecom:ETHernet:COFFset:ALARm:CURRent?
:FETCh:DATA:TELecom:ETHernet:COFFset:ALARm:SEConds?

- Ethernet **No Traffic** for FlexE Client:
:FETCh:DATA:TELecom:ETHernet:ALARm:MAC:CURRent?
:FETCh:DATA:TELecom:ETHernet:ALARm:MAC:HISTory?
:FETCh:DATA:TELecom:ETHernet:ALARm:MAC:SEConds?

Errors

For rates up to 25G or FlexE client:
:FETCh:DATA:TELecom:ETHernet:ERRor:LRATe:GLOBal:HISTory?
:FETCh:DATA:TELecom:ETHernet:ERRor:LRATe:GLOBal:CURRent?
:FETCh:DATA:TELecom:ETHernet:ERRor:LRATe:GLOBal:SEConds?
:FETCh:DATA:TELecom:ETHernet:ERRor:LRATe:GLOBal:COUNt?
:FETCh:DATA:TELecom:ETHernet:ERRor:LRATe:GLOBal:RATE?

:FETCh:DATA:TELecom:ETHernet:ERRor:MAC:HISTory?
:FETCh:DATA:TELecom:ETHernet:ERRor:MAC:CURRent?
:FETCh:DATA:TELecom:ETHernet:ERRor:MAC:SEConds?
:FETCh:DATA:TELecom:ETHernet:ERRor:MAC:COUNt?
:FETCh:DATA:TELecom:ETHernet:ERRor:MAC:RATE?

- PCS Layer
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:CURRent?

:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:SEConds:TOTal?
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:COUNt:TOTal?
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:RATE:TOTal?

- Ethernet over OTN:
:FETCh:DATA:TELecom:EOTN:ETHernet:ERRor:HISTory?
:FETCh:DATA:TELecom:EOTN:ETHernet:ERRor:CURRent?
:FETCh:DATA:TELecom:EOTN:ETHernet:ERRor:SEConds?
:FETCh:DATA:TELecom:EOTN:ETHernet:ERRor:COUNt?
:FETCh:DATA:TELecom:EOTN:ETHernet:ERRor:RATE?

Oversize Monitoring

:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:OVERsize
:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:OVERsize?

Injection

Mode Manual
- Client ID (FlexE - Client)
:SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier
:SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier?
- Defect
:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:MANual:TYPE
:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:MANual:TYPE?
:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:MANual:TYPE
:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:MANual:TYPE?
- Amount
:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AMOunt
:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AMOunt?
:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt
:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt?
- Inject
:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:INJect
:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:INJect

Mode Rate/Max Rate
- Mode
:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated:CONTinuous

:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated:CONTinuous?
:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:CONTinuous
:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:CONTinuous?

- Defect
:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated:TYPE
:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated:TYPE?
:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:TYPE
:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:TYPE?

- Rate
:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated:RATE
:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated:RATE?
:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:RATE
:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:RATE?

- Inject
:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated
:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated?
:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated
:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated?

Mode Continuous
- Defect
:SOURce:DATA:TELecom:ETHernet:ALARm:LRATe:TYPE
:SOURce:DATA:TELecom:ETHernet:ALARm:LRATe:TYPE?
:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical:TYPE
:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical:TYPE?
- PCS Layer
:SOURce:DATA:TELecom:ETHernet:PCS:ALARm:PHYSical:TYPE
:SOURce:DATA:TELecom:ETHernet:PCS:ALARm:PHYSical:TYPE?

- Inject
:SOURce:DATA:TELecom:ETHernet:ALARm:LRATe
:SOURce:DATA:TELecom:ETHernet:ALARm:LRATe?
:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical
:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical?
- PCS Layer
:SOURce:DATA:TELecom:ETHernet:PCS:ALARm:PHYSical
:SOURce:DATA:TELecom:ETHernet:PCS:ALARm:PHYSical?

Ethernet - PCS

Note: *Refer also to* Ethernet *on page 208 and* Ethernet - PCS Lanes *on page 213.*

Alarms

:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:CURRent?
:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:HISTory?
:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:SEConds?

Errors

:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:CURRent?
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:SEConds:TOTal?
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:COUNt:TOTal?
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:RATE:TOTal?

Injection

Mode Manual
- Defect
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE?
- Amount
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt?
- Inject
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:INJect

Mode Rate/Max Rate
- Mode
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:CONTinuous
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:CONTinuous?
- Defect
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:TYPE
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:TYPE?
- Rate

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:RATE
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:RATE?
- Inject
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated?

Ethernet - PCS Lanes

Note: *Refer also to* Ethernet *on page 208 and* Ethernet - PCS *on page 212.*

Alarms

:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:HISTory?
:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:CURRent?
:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:SEConds?
:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:HISTory?
:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:CURRent?
:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:SEConds?

Errors

:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:CURRent?
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:HISTory?
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:CURRent?
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:SEConds?
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:COUNt?
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:RATE?

- Total
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:COUNt:TOTal?
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:RATE:TOTal?

Skew Alarm Threshold

:SOURce:DATA:TELecom:ETHernet:ALARm:THReshold
:SOURce:DATA:TELecom:ETHernet:ALARm:THReshold?
- **Default** button
:SOURce:DATA:TELecom:ETHernet:ALARm:THReshold:DEFault

Injection

Lane
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:LANE
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:LANE?
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:ALANes
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:ALANes?

Mode Manual
- **Defect**
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE?
- **Amount**
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt?
- **Inject**
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:INJect

Mode Rate/Max Rate
- **Mode**
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:CONTinuous
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:CONTinuous?
- **Defect**
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:TYPE
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:TYPE?
- **Rate**
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:RATE
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:RATE?
- **Inject**
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated?

FEC (FlexO)

Port

:SOURce:DATA:TELecom:PORT

Errors

Global:

:FETCh:DATA:TELecom:FOTN:FEC:ERRor:HISTory?
:FETCh:DATA:TELecom:FOTN:FEC:ERRor:SEConds?
:FETCh:DATA:TELecom:FOTN:FEC:ERRor:CURR?
:FETCh:DATA:TELecom:FOTN:FEC:ERRor:COUNt?
:FETCh:DATA:TELecom:FOTN:FEC:ERRor:RATe?

Per Lane:

:FETCh:DATA:TELecom:FOTN:FEC:ERRor:LANE:HISTory?
:FETCh:DATA:TELecom:FOTN:FEC:ERRor:LANE:SEConds?
:FETCh:DATA:TELecom:FOTN:FEC:ERRor:LANE:CURRent?
:FETCh:DATA:TELecom:FOTN:FEC:ERRor:LANE:COUNt?
:FETCh:DATA:TELecom:FOTN:FEC:ERRor:LANE:RATE?

Injection

Lane
:SOURce:DATA:TELecom:FOTN:FEC:LANE
:SOURce:DATA:TELecom:FOTN:FEC:LANE?
:SOURce:DATA:TELecom:FOTN:FEC:ALANes
:SOURce:DATA:TELecom:FOTN:FEC:ALANes?

Mode Manual
- Defect
:SOURce:DATA:TELecom:FOTN:FEC:ERRor:MANual:TYPE
:SOURce:DATA:TELecom:FOTN:FEC:ERRor:MANual:TYPE?
- Amount
:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AMOunt
:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AMOunt?
- Inject
:SOURce:DATA:TELecom:FOTN:FEC:ERRor:INJect

Mode Rate/Max Rate
- Mode
:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated:CONTinuous
:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated:CONTinuous?
- Defect
:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated:TYPE
:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated:TYPE?
- Rate
:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated:RATE
:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated:RATE?
- Inject
:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated
:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated?

FEC (OTN)

Errors

:FETCh:DATA:TELecom:OTN:ERRor:FEC:HISTory?
:FETCh:DATA:TELecom:OTN:ERRor:FEC:SEConds?
:FETCh:DATA:TELecom:OTN:ERRor:FEC:CURRent?
:FETCh:DATA:TELecom:OTN:ERRor:FEC:COUNt?
:FETCh:DATA:TELecom:OTN:ERRor:FEC:RATE?

Injection

Mode Manual
- Defect
:SOURce:DATA:TELecom:OTN:ERRor:FEC:MANual:TYPE
:SOURce:DATA:TELecom:OTN:ERRor:FEC:MANual:TYPE?
- Amount
:SOURce:DATA:TELecom:OTN:ERRor:FEC:AMOunt
:SOURce:DATA:TELecom:OTN:ERRor:FEC:AMOunt?
- Inject
:SOURce:DATA:TELecom:OTN:ERRor:FEC:INJect

Mode Rate/Max Rate
- Mode
:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:CONTinuous
:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:CONTinuous?
- Defect
:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:TYPE
:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:TYPE?
- Rate
:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:RATE
:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:RATE?
- Inject
:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated
:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated?

FEC Lanes

Alarms

:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:SEConds?
:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:HISTory?
:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:CURRent?

Errors

:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:SEConds?
:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:COUNt?
:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:RATE?
:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:HISTory?
:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:CURRent?

Fibre Channel (including RS-FEC layer)

Alarms

:FETCh:DATA:TELecom:FIBer:ALARm:PHYSical:HISTory?
:FETCh:DATA:TELecom:FIBer:ALARm:PHYSical:CURRent?
:FETCh:DATA:TELecom:FIBer:ALARm:PHYSical:SEConds?

Errors

FCS, **Oversize**, and **Undersize**
:FETCh:DATA:TELecom:FIBer:ERRor:FC:HISTory?
:FETCh:DATA:TELecom:FIBer:ERRor:FC:CURRent?
:FETCh:DATA:TELecom:FIBer:ERRor:FC:SEConds?
:FETCh:DATA:TELecom:FIBer:ERRor:FC:COUNt?
:FETCh:DATA:TELecom:FIBer:ERRor:FC:RATE?

Symbol, **Block**, **FEC-COR-CW**, **FEC-UNCOR-CW**, and **Pre-FEC-SYMB**
:FETCh:DATA:TELecom:FIBer:ERRor:PHYSical:HISTory?
:FETCh:DATA:TELecom:FIBer:ERRor:PHYSical:CURRent?
:FETCh:DATA:TELecom:FIBer:ERRor:PHYSical:SEConds?
:FETCh:DATA:TELecom:FIBer:ERRor:PHYSical:COUNt?
:FETCh:DATA:TELecom:FIBer:ERRor:PHYSical:RATE?

Injection

Mode Manual
- Defect
:SOURce:DATA:TELecom:FIBer:ERRor:MANual:TYPE
:SOURce:DATA:TELecom:FIBer:ERRor:MANual:TYPE?
For **RS-FEC** Layer
:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:MANual:TYPE
:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:MANual:TYPE?
- Amount
:SOURce:DATA:TELecom:FIBer:ERRor:MANual:AMOunt
:SOURce:DATA:TELecom:FIBer:ERRor:MANual:AMOunt?
For **RS-FEC** Layer
:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:MANual:AMOunt
:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:MANual:AMOunt?
- Inject
:SOURce:DATA:TELecom:FIBer:ERRor:MANual:INJect
:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:MANual:INJect

Mode Rate/Max Rate
- Mode
:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:CONTinuous
:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:CONTinuous?

For **RS-FEC** Layer
:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:CONTinuous
:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:CONTinuous?
- Defect
:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:TYPE
:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:TYPE?
For **RS-FEC** Layer
:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:TYPE
:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:TYPE?
- Rate
:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:RATE
:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:RATE?
For **RS-FEC** Layer
:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:RATE
:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:RATE?
- Inject
:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated
:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated?
For **RS-FEC** Layer
:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated
:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated?

Mode Continuous
- Defect
:SOURce:DATA:TELecom:FIBer:ALARm:RSFec:TYPE?
- Inject
:SOURce:DATA:TELecom:FIBer:ALARm:RSFec
:SOURce:DATA:TELecom:FIBer:ALARm:RSFec?

FlexE Group

Alarms

:FETCh:DATA:TELecom:FETHernet:GROup:ALARm:CURRent?
:FETCh:DATA:TELecom:FETHernet:GROup:ALARm:HISTory?
:FETCh:DATA:TELecom:FETHernet:GROup:ALARm:SEConds?

FlexO Group / OTUC Frame

Port
:SOURce:DATA:TELecom:PORT

OTUC #
:SOURce:DATA:TELecom:OTN:OTUC:NUMBer

Alarms

Group Down
:FETCh:DATA:TELecom:FOTN:GROup:ALARm:SEConds?
:FETCh:DATA:TELecom:FOTN:GROup:ALARm:SEConds?
:FETCh:DATA:TELecom:FOTN:GROup:ALARm:HISTory?

:FETCh:DATA:TELecom:FOTN:INSTance:ALARm:SEConds?
:FETCh:DATA:TELecom:FOTN:INSTance:ALARm:CURRent?
:FETCh:DATA:TELecom:FOTN:INSTance:ALARm:HISTory?

:SOURce:DATA:TELecom:FOTN:INSTance:SKEW:THReshold
:SOURce:DATA:TELecom:FOTN:INSTance:SKEW:THReshold?
:SOURce:DATA:TELecom:FOTN:INSTance:SKEW:THReshold:RESet

Errors

:FETCh:DATA:TELecom:FOTN:INSTance:ERRor:SEConds?
:FETCh:DATA:TELecom:FOTN:INSTance:ERRor:COUNt?
:FETCh:DATA:TELecom:FOTN:INSTance:ERRor:RATe?
:FETCh:DATA:TELecom:FOTN:INSTance:ERRor:CURRent?
:FETCh:DATA:TELecom:FOTN:INSTance:ERRor:HISTory?

Injection

Instance
:SOURce:DATA:TELecom:FOTN:FLXO:INSTance
:SOURce:DATA:TELecom:FOTN:FLXO:INSTance?

Mode Manual
- Defect
:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:TYPE
:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:TYPE?

- Amount

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:AMOunt

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:AMOunt?

- Inject

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:INJect

Mode Rate/Max Rate

- Mode

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:CONTinuous

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:CONTinuous?

- Defect

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:TYPE

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:TYPE?

- Rate

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:RATE

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:RATE?

- Inject

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated?

Mode Continuous

- Defect

:SOURce:DATA:TELecom:FOTN:FLXO:ALARm:TYPE

:SOURce:DATA:TELecom:FOTN:FLXO:ALARm:TYPE?

- Inject

:SOURce:DATA:TELecom:FOTN:FLXO:ALARm

:SOURce:DATA:TELecom:FOTN:FLXO:ALARm?

FOICx.y

Port

:SOURce:DATA:TELecom:PORT

Alarms

:FETCh:DATA:TELecom:FOTN:FOIC:ALARm:SEConds?
:FETCh:DATA:TELecom:FOTN:FOIC:ALARm:CURRent?
:FETCh:DATA:TELecom:FOTN:FOIC:ALARm:HISTory?

:FETCh:DATA:TELecom:FOTN:FOIC:ALARm:LANE:SEConds?
:FETCh:DATA:TELecom:FOTN:FOIC:ALARm:LANE:CURRent?
:FETCh:DATA:TELecom:FOTN:FOIC:ALARm:LANE:HISTory?

Errors

:FETCh:DATA:TELecom:FOTN:FOIC:ERRor:LANE:SEConds?
:FETCh:DATA:TELecom:FOTN:FOIC:ERRor:LANE:COUNt?
:FETCh:DATA:TELecom:FOTN:FOIC:ERRor:LANE:RATE?
:FETCh:DATA:TELecom:FOTN:FOIC:ERRor:LANE:CURRent?
:FETCh:DATA:TELecom:FOTN:FOIC:ERRor:LANE:HISTory?

Skew Alarm Thresholds (ns)
:SOURce:DATA:TELecom:FOTN:FOIC:LANE:SKEW:THReshold
:SOURce:DATA:TELecom:FOTN:FOIC:LANE:SKEW:THReshold?

Injection

Lane
:SOURce:DATA:TELecom:FOTN:FOIC:LANE
:SOURce:DATA:TELecom:FOTN:FOIC:LANE?
:SOURce:DATA:TELecom:FOTN:FOIC:ALANes
:SOURce:DATA:TELecom:FOTN:FOIC:ALANes?

Mode Manual
- Defect
:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:MANual:TYPE
:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:MANual:TYPE?
- Amount
:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AMOunt
:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AMOunt?
- Inject
:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:INJect

Mode Rate/Max Rate
- Mode
:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:CONTinuous
:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:CONTinuous?
- Defect
:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:TYPE
:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:TYPE?
- Rate
:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:RATE
:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:RATE?
- Inject
:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated
:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated?

GFP

Alarms

:FETCh:DATA:TELecom:GFP:ALARm:FRAMe:HISTory?
:FETCh:DATA:TELecom:GFP:ALARm:FRAMe:CURRent?
:FETCh:DATA:TELecom:GFP:ALARm:FRAMe:SEConds?

:FETCh:DATA:TELecom:GFP:ALARm:CHANnel:HISTory?
:FETCh:DATA:TELecom:GFP:ALARm:CHANnel:CURRent?
:FETCh:DATA:TELecom:GFP:ALARm:CHANnel:SEConds?

Errors

:FETCh:DATA:TELecom:GFP:ERRor:FRAMe:HISTory?
:FETCh:DATA:TELecom:GFP:ERRor:FRAMe:CURRent?
:FETCh:DATA:TELecom:GFP:ERRor:FRAMe:SEConds?
:FETCh:DATA:TELecom:GFP:ERRor:FRAMe:COUNt?
:FETCh:DATA:TELecom:GFP:ERRor:FRAMe:RATE?

:FETCh:DATA:TELecom:GFP:ERRor:CHANnel:HISTory?
:FETCh:DATA:TELecom:GFP:ERRor:CHANnel:CURRent?
:FETCh:DATA:TELecom:GFP:ERRor:CHANnel:SEConds?
:FETCh:DATA:TELecom:GFP:ERRor:CHANnel:COUNt?
:FETCh:DATA:TELecom:GFP:ERRor:CHANnel:RATE?

Reserved CMF Monitoring

:SOURce:DATA:TELecom:GFP:CONFig:CMF
:SOURce:DATA:TELecom:GFP:CONFig:CMF?

Injection

Mode Manual
- Defect
:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:MANual:TYPE
:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:MANual:TYPE?
:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:MANual:TYPE
:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:MANual:TYPE?
- Amount
:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AMOunt
:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AMOunt?
:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AMOunt
:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AMOunt?
- Inject
:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:INJect
:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:INJect

Mode Rate/Max Rate
- Mode
:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated:CONTinuous
:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated:CONTinuous?
:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:CONTinuous
:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:CONTinuous?
- Defect
:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated:TYPE
:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated:TYPE?
:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:TYPE

:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:TYPE?
- Rate
:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated:RATE
:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated:RATE?
:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:RATE
:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:RATE?
- Inject
:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated
:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated?
:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated
:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated?

Mode Continuous
- Defect
:SOURce:DATA:TELecom:GFP:ALARm:FRAMe:TYPE
:SOURce:DATA:TELecom:GFP:ALARm:FRAMe:TYPE?
:SOURce:DATA:TELecom:GFP:ALARm:CHANnel:TYPE
:SOURce:DATA:TELecom:GFP:ALARm:CHANnel:TYPE?
- Period
:SOURce:DATA:TELecom:GFP:ALARm:CHANnel:PERiod
:SOURce:DATA:TELecom:GFP:ALARm:CHANnel:PERiod?
- User-Defined UPI
:SOURce:DATA:TELecom:GFP:ALARm:CHANnel:UPI
:SOURce:DATA:TELecom:GFP:ALARm:CHANnel:UPI?
- Inject
:SOURce:DATA:TELecom:GFP:ALARm:FRAMe
:SOURce:DATA:TELecom:GFP:ALARm:FRAMe?
:SOURce:DATA:TELecom:GFP:ALARm:CHANnel
:SOURce:DATA:TELecom:GFP:ALARm:CHANnel?

GMP

Alarms

:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:ALARm:HISTory?
:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:ALARm:CURRent?
:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:ALARm:SEConds?

Errors

:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:ERRor:HISTory?
:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:ERRor:CURRent?
:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:ERRor:SEConds?
:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:ERRor:COUNt?
:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:ERRor:RATE?

Interface

Port

:SOURce:DATA:TELecom:PORT

Alarms

- Optical Parallel Interfaces
Global for **LOS**:
|| *:FETCh:DATA:TELecom:OPTical:ALARm:PORT:GLOBal:HISTory?*
|| *:FETCh:DATA:TELecom:OPTical:ALARm:PORT:GLOBal:CURRent?*

Global for **Frequency** and **LOC Lane**:
|| *:FETCh:DATA:TELecom:CAUI:ALARm:GLOBal:HISTory?*
|| *:FETCh:DATA:TELecom:CAUI:ALARm:GLOBal:CURRent?*

Per Lane for **LOS**:
|| *:FETCh:DATA:TELecom:OPTical:ALARm:RX:HISTory?*
|| *:FETCh:DATA:TELecom:OPTical:ALARm:RX:CURRent?*
|| *:FETCh:DATA:TELecom:OPTical:ALARm:RX:SEConds?*

Per Lane for **Frequency** and **LOC Lane**:
|| *:FETCh:DATA:TELecom:CAUI:ALARm:LANE:HISTory?*
|| *:FETCh:DATA:TELecom:CAUI:ALARm:LANE:CURRent?*
|| *:FETCh:DATA:TELecom:CAUI:ALARm:LANE:SEConds?*

- Optical Serial Interfaces
:FETCh:DATA:TELecom:OPTical:ALARm:RX:HISTory?
:FETCh:DATA:TELecom:OPTical:ALARm:RX:CURRent?
:FETCh:DATA:TELecom:OPTical:ALARm:RX:SEConds?

- Electrical

:FETCh:DATA:TELecom:ELECtrical:ALARm:PORT:HISTory?
:FETCh:DATA:TELecom:ELECtrical:ALARm:PORT:CURRent?
:FETCh:DATA:TELecom:ELECtrical:ALARm:PORT:SEConds?

- LOC (for DSn/PDH BERT and SONET/SDH - DSn/PDH BERT test applications)

:INPut:TELecom:BACKplane:ALARm:STATus:HISTory?
:INPut:TELecom:BACKplane:ALARm:STATus:CURRent?
:INPut:TELecom:BACKplane:ALARm:STATus:SEConds?

Errors

- Electrical

:FETCh:DATA:TELecom:ELECtrical:ERRor:PORT:HISTory?
:FETCh:DATA:TELecom:ELECtrical:ERRor:PORT:CURRent?
:FETCh:DATA:TELecom:ELECtrical:ERRor:PORT:SEConds?
:FETCh:DATA:TELecom:ELECtrical:ERRor:PORT:COUNt?
:FETCh:DATA:TELecom:ELECtrical:ERRor:PORT:RATE?

- CPRI

For **CV**:

:FETCh:DATA:TELecom:CPRI:INTerface:ERRor:SEConds?
:FETCh:DATA:TELecom:CPRI:INTerface:ERRor:COUNt?
:FETCh:DATA:TELecom:CPRI:INTerface:ERRor:RATE?
:FETCh:DATA:TELecom:CPRI:INTerface:ERRor:HISTory?
:FETCh:DATA:TELecom:CPRI:INTerface:ERRor:CURRent?

For **K30.7**:

:FETCh:DATA:TELecom:CPRI:ERRor:SEConds?
:FETCh:DATA:TELecom:CPRI:ERRor:COUNt?
:FETCh:DATA:TELecom:CPRI:ERRor:RATE?
:FETCh:DATA:TELecom:CPRI:ERRor:HISTory?
:FETCh:DATA:TELecom:CPRI:ERRor:CURRent?

Injection

Lane
:SOURce:DATA:TELecom:OPTical:ALARm:PORT:LANE
:SOURce:DATA:TELecom:OPTical:ALARm:PORT:LANE?
:SOURce:DATA:TELecom:OPTical:ALARm:PORT:ALANes
:SOURce:DATA:TELecom:OPTical:ALARm:PORT:ALANes?

Mode Manual
- Defect
:SOURce:DATA:TELecom:ELECtrical:ERRor:MANual:TYPE
:SOURce:DATA:TELecom:ELECtrical:ERRor:MANual:TYPE?
:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:TYPE
:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:TYPE?
:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:MANual:TYPE
:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:MANual:TYPE?
- Amount
:SOURce:DATA:TELecom:ELECtrical:ERRor:AMOunt
:SOURce:DATA:TELecom:ELECtrical:ERRor:AMOunt?
:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:AMOunt
:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:AMOunt?
:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:MANual:AMOunt
:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:MANual:AMOunt?
- Inject
:SOURce:DATA:TELecom:ELECtrical:ERRor:INJect
:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:INJect
:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:MANual:INJect

Mode Rate/Max Rate
- Mode
:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:CONTinuous
:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:CONTinuous?
:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:AUTomated:CONTinuous
:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:AUTomated:CONTinuous?
- Defect
:SOURce:DATA:TELecom:ELECtrical:ERRor:AUTomated:TYPE
:SOURce:DATA:TELecom:ELECtrical:ERRor:AUTomated:TYPE?
:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:TYPE

:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:TYPE?
:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:AUTomated:TYPE
:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:AUTomated:TYPE?
- Rate
:SOURce:DATA:TELecom:ELECtrical:ERRor:AUTomated:RATE
:SOURce:DATA:TELecom:ELECtrical:ERRor:AUTomated:RATE?
:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:RATE
:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:RATE?
:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:AUTomated:RATE
:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:AUTomated:RATE?
- Inject
:SOURce:DATA:TELecom:ELECtrical:ERRor:AUTomated
:SOURce:DATA:TELecom:ELECtrical:ERRor:AUTomated?
:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated
:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated?
:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:AUTomated
:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:AUTomated?

Mode Continuous
- Lane
:SOURce:DATA:TELecom:OPTical:ALARm:PORT:LANE
:SOURce:DATA:TELecom:OPTical:ALARm:PORT:LANE?
:SOURce:DATA:TELecom:OPTical:ALARm:PORT:ALANes
:SOURce:DATA:TELecom:OPTical:ALARm:PORT:ALANes?
- Defect
:SOURce:DATA:TELecom:OPTical:ALARm:PORT:TYPE?
:SOURce:DATA:TELecom:ELECtrical:ALARm:PORT:TYPE?
- Inject
:SOURce:DATA:TELecom:OPTical:ALARm:PORT
:SOURce:DATA:TELecom:OPTical:ALARm:PORT?
:SOURce:DATA:TELecom:ELECtrical:ALARm:PORT
:SOURce:DATA:TELecom:ELECtrical:ALARm:PORT?

IP/UDP/TCP

Errors

- IP
:FETCh:DATA:TELecom:ETHernet:ERRor:IPPRotocol:HISTory?
:FETCh:DATA:TELecom:ETHernet:ERRor:IPPRotocol:CURRent?
:FETCh:DATA:TELecom:ETHernet:ERRor:IPPRotocol:SEConds?
:FETCh:DATA:TELecom:ETHernet:ERRor:IPPRotocol:COUNt?
:FETCh:DATA:TELecom:ETHernet:ERRor:IPPRotocol:RATE?

- UDP
:FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:HISTory?
:FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:CURRent?
:FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:SEConds?
:FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:COUNt?
:FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:RATE?

- TCP
:FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:HISTory?
:FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:CURRent?
:FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:SEConds?
:FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:COUNt?
:FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:RATE?

Media RX FEC

Alarms

Note: *Not supported yet.*

Errors

:FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:CURRent?
:FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:HISTory?
:FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:RATE?
:FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:COUNt?
:FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:SEConds?

MPLS-TP OAM

Alarms

:FETCh:DATA:TELecom:SOAM:ALARm:HISTory?
:FETCh:DATA:TELecom:SOAM:ALARm:CURRent?
:FETCh:DATA:TELecom:SOAM:ALARm:SEConds?

Injection

Mode Continuous
- Address Type
:SOURce:DATA:TELecom:SOAM:ALARm:ADDRess:TYPE
:SOURce:DATA:TELecom:SOAM:ALARm:ADDRess:TYPE?
- Defect
:SOURce:DATA:TELecom:SOAM:ALARm:DEFect
:SOURce:DATA:TELecom:SOAM:ALARm:DEFect?
- Priority
:SOURce:DATA:TELecom:SOAM:ALARm:PRIority
:SOURce:DATA:TELecom:SOAM:ALARm:PRIority?
- Meg Level
:SOURce:DATA:TELecom:SOAM:ALARm:MEG:LEVel
:SOURce:DATA:TELecom:SOAM:ALARm:MEG:LEVel?
- MD Level
:SOURce:DATA:TELecom:SOAM:ALARm:MD:LEVel
:SOURce:DATA:TELecom:SOAM:ALARm:MD:LEVel?
- Period
:SOURce:DATA:TELecom:SOAM:ALARm:PERiod
:SOURce:DATA:TELecom:SOAM:ALARm:PERiod?
- Inject
:SOURce:DATA:TELecom:SOAM:ALARm:GENerate
:SOURce:DATA:TELecom:SOAM:ALARm:GENerate?

OBSAI

Alarms

:FETCh:DATA:TELecom:CPRI:OBSai:ALARm:CURRent?
:FETCh:DATA:TELecom:CPRI:OBSai:ALARm:HISTory?
:FETCh:DATA:TELecom:CPRI:OBSai:ALARm:SEConds?

Errors

:FETCh:DATA:TELecom:CPRI:OBSai:ERRor:CURRent?
:FETCh:DATA:TELecom:CPRI:OBSai:ERRor:HISTory?
:FETCh:DATA:TELecom:CPRI:OBSai:ERRor:SEConds?
:FETCh:DATA:TELecom:CPRI:OBSai:ERRor:COUNt?
:FETCh:DATA:TELecom:CPRI:OBSai:ERRor:RATE?

Injection

Mode Manual
- Defect
:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:MANual:DEFect?
- Amount
:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:MANual:AMOunt
:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:MANual:AMOunt?
- Inject
:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:MANual:INJect

Mode Rate/Max Rate
- Mode
:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated:CONTinuous
:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated:CONTinuous?
- Defect
:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated:DEFect
:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated:DEFect?
- Rate
:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated:RATE
:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated:RATE?

- Inject
:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated
:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated?

Mode Continuous
- Defect
:SOURce:DATA:TELecom:CPRI:OBSai:ALARm:DEFect
:SOURce:DATA:TELecom:CPRI:OBSai:ALARm:DEFect?
- Inject
:SOURce:DATA:TELecom:CPRI:OBSai:ALARm:GENerate
:SOURce:DATA:TELecom:CPRI:OBSai:ALARm:GENerate?

ODUx/ODUk/ODUCn

Alarms

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:HISTory?
:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:SEConds?
:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:HISTory?
:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:SEConds?
:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:HISTory?
:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:SEConds?
:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:CURRent?

Errors

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:HISTory?
:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:SEConds?
:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:CURRent?
:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:COUNt?
:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:RATE?

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:HISTory?
:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:SEConds?
:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:CURRent?
:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:COUNt?
:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:RATE?

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:HISTory?
:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:SEConds?
:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:CURRent?
:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:COUNt?
:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:RATE?

Injection

OTUC selection for FlexO
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:OTUC
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:OTUC?
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:OTUC:ALL
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:OTUC:ALL?
:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC
:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC?
:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC:ALL
:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC:ALL?

Mode Manual
- Channel
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:ACHAnnel
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:ACHAnnel?
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:CHANnel
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:CHANnel?
- Defect
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TYPE
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TYPE?
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANUAL:TYPE
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANUAL:TYPE?
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:MANual:TYPE
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:MANual:TYPE?

- Amount
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AMOunt
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AMOunt?
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt?
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AMOunt
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AMOunt?
- Inject
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:INJect
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:INJect

Mode Rate/Max Rate
- Mode
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:CONTinuous
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:CONTinuous?
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTinuous
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTinuous?
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:CONTinuous
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:CONTinuous?
- Defect
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE?
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE?
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:TYPE
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:TYPE?
- Rate
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:RATE
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:RATE?
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE?
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:RATE
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:RATE?
- Inject
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated?
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated?
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated?

Mode Continuous
- Channel
:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:ACHAnnel
:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:ACHAnnel?
:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:CHANnel
:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:CHANnel?
- Defect
:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE
:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE?
:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE
:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE?
:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TYPE
:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TYPE?
- Inject
:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]
:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]
:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F
:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F?

ODUx-TCM

Alarms

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:HISTory?
:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:SEConds?
:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:HISTory?
:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:SEConds?
:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:HISTory?
:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:SEConds?
:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:CURRent?

Errors

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:HISTory?
:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:SEConds?
:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:CURRent?
:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:COUNt?
:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:RATE?

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:HISTory?
:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:SEConds?
:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:CURRent?
:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:COUNt?
:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:RATE?

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:HISTory?
:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:SEConds?
:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:CURRent?
:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:COUNt?
:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:RATE?

Injection

Mode Manual
- Defect
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TCM[1..n]:TYPE
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TCM[1..n]:TYPE?
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TCM[1..n]:TYPE
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TCM[1..n]:TYPE?
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:MANual:TCM[1..n]:TYPE
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:MANual:TCM[1..n]:TYPE?
- Amount

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AMOunt
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AMOunt?
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:AMOunt
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:AMOunt?
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:AMOunt
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:AMOunt?

- Inject

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:INJect
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:INJect
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:INJect

Mode Rate/Max Rate

- Mode

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:CONTinuous
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:CONTinuous?
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:CONTinuous
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:CONTinuous?
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:CONTinuous
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:CONTinuous?

- Defect

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:TYPE
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:TYPE?
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:TYPE
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:TYPE?
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:TYPE
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:TYPE?

- Rate

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:RAT

E
*:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:RAT
E?*
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:RATE
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:RATE?
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:RATE
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:RATE?

- Inject
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AUTomated
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AUTomated?
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:AUTomated
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:AUTomated?
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:AUTomated
:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:AUTomated?

Mode Continuous
- Defect
:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:TYPE
:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:TYPE
:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:TYPE
:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:TYPE?

- Inject
:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]
:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]
:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]
:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]?

OPUx/OPUk/OPUCn

Alarms

:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:HISTory?
:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:SEConds?
:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:E:HISTory?
:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:E:SEConds?
:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:E:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:F:HISTory?
:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:F:SEConds?
:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:F:CURRent?

MSIM Monitoring

:SENSe:DATA:TELecom:OTN:OPU[1..n]:MSIM
:SENSe:DATA:TELecom:OTN:OPU[1..n]:MSIM?

Errors

:FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:HISTory?
:FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:SEConds?
:FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:CURRent?
:FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:COUNt?
:FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:RATE?

Injection

OTUC selection for FlexO
:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:OTUC
:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:OTUC?
:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:OTUC:ALL
:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:OTUC:ALL?
:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:OTUC
:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:OTUC?
:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:OTUC:ALL
:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:OTUC:ALL?

Channel
- Errors
:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:ACHAnnel
:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:ACHAnnel?
:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:CHANnel
:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:CHANnel?
- Alarms
:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:ACHAnnel
:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:ACHAnnel?
:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:CHANnel
:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:CHANnel?

Mode Manual
- Defect
:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:MANual:TYPE
:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:MANual:TYPE?
- Amount
:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AMOunt
:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AMOunt?
- Inject
:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:INJect

Mode Rate/Max Rate
- Mode
:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:CONTinuous
:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:CONTinuous?
- Defect
:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:TYPE
:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:TYPE?
- Rate
:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:RATE
:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:RATE?
- Inject
:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated
:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated?

Mode Continuous
- Defect
:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE
:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE?
:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:E:TYPE
:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:E:TYPE?
:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:F:TYPE
:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:F:TYPE?
- Inject
:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]
:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]?
:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:E
:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:E?
:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:F
:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:F?

OTL

Alarms

- Global
:FETCh:DATA:TELecom:OTN:ALARm:PHYSical:GLOBal:HISTory?
:FETCh:DATA:TELecom:OTN:ALARm:PHYSical:GLOBal:CURRent?
:FETCh:DATA:TELecom:OTN:ALARm:PHYSical:GLOBal:SEConds?

- Per Lane
:FETCh:DATA:TELecom:OTN:ALARm:PHYSical:HISTory?
:FETCh:DATA:TELecom:OTN:ALARm:PHYSical:CURRent?
:FETCh:DATA:TELecom:OTN:ALARm:PHYSical:SEConds?

Errors

- Global
:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:GLOBal:CURRent?
:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:GLOBal:HISTory?

- Per Lane
:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:HISTory?
:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:CURRent?
:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:SEConds?
:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:COUNt?
:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:RATE?
:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:COUNt:TOTal?
:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:RATE:TOTal?

Injection

Lane
:SOURce:DATA:TELecom:OTN:OTL:LANE
:SOURce:DATA:TELecom:OTN:OTL:LANE?
:SOURce:DATA:TELecom:OTN:OTL:ALANes
:SOURce:DATA:TELecom:OTN:OTL:ALANes?

Mode Manual
- Defect
:SOURce:DATA:TELecom:OTN:OTL:ERRor:MANual:TYPE
:SOURce:DATA:TELecom:OTN:OTL:ERRor:MANual:TYPE?
- Amount
:SOURce:DATA:TELecom:OTN:OTL:ERRor:AMOunt
:SOURce:DATA:TELecom:OTN:OTL:ERRor:AMOunt?
- Inject
:SOURce:DATA:TELecom:OTN:OTL:ERRor:INJect

Mode Rate/Max Rate
- Mode
:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated:CONTinuous
:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated:CONTinuous?
- Defect
:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated:TYPE
:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated:TYPE?
- Rate
:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated:RATE
:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated:RATE?

- Inject
:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated
:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated?

Mode Continuous
- Defect
:SOURce:DATA:TELecom:OTN:OTL:ALARm:TYPE
:SOURce:DATA:TELecom:OTN:OTL:ALARm:TYPE?
LOL
:SOURce:DATA:TELecom:OTN:OTL:GLOBal:ALARm:TYPE
:SOURce:DATA:TELecom:OTN:OTL:GLOBal:ALARm:TYPE?
- Inject
:SOURce:DATA:TELecom:OTN:OTL:ALARm
:SOURce:DATA:TELecom:OTN:OTL:ALARm?

LOL
:SOURce:DATA:TELecom:OTN:OTL:GLOBal:ALARm
:SOURce:DATA:TELecom:OTN:OTL:GLOBal:ALARm?

OTUx/OTUCn/OTUC Frame

Alarms

:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:HISTory?
:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:SEConds?
:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:HISTory?
:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:SEConds?
:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:F:HISTory?
:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:F:SEConds?
:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:F:CURRent?

Errors

:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:HISTory?
:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:SEConds?
:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:CURRent?
:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:COUNt?
:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:RATE?

:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:HISTory?
:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:SEConds?
:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:CURRent?
:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:COUNt?
:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:RATE?

:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:HISTory?
:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:COUNt?
:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:CURRent?
:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:COUNt?
:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:RATE?

Injection

OTUC selection for FlexO
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC?
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC:ALL
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC:ALL?
:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC
:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC?
:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC:ALL
:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC:ALL

Mode Manual
- Defect
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:MANual:TYPE
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:MANual:TYPE?
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE?
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:MANual:TYPE
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:MANual:TYPE?

- Amount
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AMOunt
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AMOunt?
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOunt
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOunt?
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AMOunt
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AMOunt?

- Inject
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:INJect
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:INJect
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:INJect

Mode Rate/Max Rate

- Mode
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:CONTinuous
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:CONTinuous?
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:CONTinuous
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:CONTinuous?
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated:CONTinuous
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated:CONTinuous?

- Defect
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:TYPE
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:TYPE?
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE?
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated:TYPE
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated:TYPE?

- Rate
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:RATE
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:RATE?
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE?
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated:RATE
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated:RATE?

- Inject
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated?
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated?
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated
:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated?

Mode Continuous
- Defect
:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:TYPE
:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:TYPE?
:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE
:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE?
:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:F:TYPE
:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:F:TYPE?
- Inject
:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]
:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]?
:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]
:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]?
:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:F
:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:F?

Path OAM

Alarms

:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ALARm:CURRent?
:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ALARm:HISTory?
:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ALARm:SEConds?
CS Type Mismatch
:FETCh:DATA:TELecom:FETHernet:POAM:CSIGnal:ALARm:CURRent?
:FETCh:DATA:TELecom:FETHernet:POAM:CSIGnal:ALARm:HISTory?
:FETCh:DATA:TELecom:FETHernet:POAM:CSIGnal:ALARm:SEConds?
SAPI/DAPI Mismatch
:FETCh:DATA:TELecom:FETHernet:POAM:CVER:ALARm:CURRent?
:FETCh:DATA:TELecom:FETHernet:POAM:CVER:ALARm:HISTory?
:FETCh:DATA:TELecom:FETHernet:POAM:CVER:ALARm:SEConds?

Errors

BIP-8/REI:
:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:COUNt?
:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:CURRent?
:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:HISTory?
:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:RATE?
:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:SEConds?

CRC4:
:FETCh:DATA:TELecom:FETHernet:POAM:ERRor:COUNt?
:FETCh:DATA:TELecom:FETHernet:POAM:ERRor:CURRent?
:FETCh:DATA:TELecom:FETHernet:POAM:ERRor:HISTory?
:FETCh:DATA:TELecom:FETHernet:POAM:ERRor:RATE?
:FETCh:DATA:TELecom:FETHernet:POAM:ERRor:SEConds?

Injection

Mode Manual
- Defect
:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:TYPE
:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:TYPE?
:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:TYPE
:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:TYPE?

- Amount
:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:AMOunt
:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:AMOunt?
:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:AMOunt
:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:AMOunt?

- Inject
:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:INJect
:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:INJect

Mode Rate/Max Rate
- Mode
:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:CONTinuous
:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:CONTinuous
?

:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated:CONTinuous
:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated:CONTinuous?

- Defect

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:TYPE
:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:TYPE?
:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated:TYPE
:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated:TYPE?

- Rate

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:RATE
:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:RATE?
:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated:RATE
:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated:RATE?

- Inject

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated
:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated?
:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated
:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated?

Mode Continuous

- Defect

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm:TYPE
:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm:TYPE?

- Inject

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm
:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm?

PHY

Alarms

:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:HISTory?
:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:CURRent?
:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:SEConds?

Injection

Mode Continuous
- Port selection
:SOURce:DATA:TELecom:PORT
:SOURce:DATA:TELecom:PORT?
- Defect (Ethernet Layer)
:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical:TYPE
:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical:TYPE?
- Inject
:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical
:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical?

PHYs/Instances (FlexE - Group)

Alarms

:FETCh:DATA:TELecom:FETHernet:PHY:ALARm:HISTory?
:FETCh:DATA:TELecom:FETHernet:PHY:ALARm:CURRent?
:FETCh:DATA:TELecom:FETHernet:PHY:ALARm:SEConds?

Errors

:FETCh:DATA:TELecom:FETHernet:PHY:ERRor:HISTory?
:FETCh:DATA:TELecom:FETHernet:PHY:ERRor:CURRent?
:FETCh:DATA:TELecom:FETHernet:PHY:ERRor:SEConds?
:FETCh:DATA:TELecom:FETHernet:PHY:ERRor:COUNt?
:FETCh:DATA:TELecom:FETHernet:PHY:ERRor:RATE?

Injection

- PHY selection
:SOURce:DATA:TELecom:FETHernet:PHY:ALARm:SPHY
:SOURce:DATA:TELecom:FETHernet:PHY:ALARm:SPHY?

- PHY / Instance
:SOURce:DATA:TELecom:FETHernet:PHY:SINStance
:SOURce:DATA:TELecom:FETHernet:PHY:SINStance?

Mode Manual
- Defect
:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:MANual:TYPE
:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:MANual:TYPE?
- Amount
:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:MANual:AMOunt
:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:MANual:AMOunt
- Inject
:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:MANual:INJect

Mode Rate/Max Rate
- Mode
:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:CONTinuous
:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:CONTinuous?
- Defect
:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:TYPE
:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:TYPE?
- Rate
:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:RATE
:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:RATE?
- Inject
:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated
:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated?

Mode Continuous
- Defect
:SOURce:DATA:TELecom:FETHernet:PHY:ALARm:TYPE
:SOURce:DATA:TELecom:FETHernet:PHY:ALARm:TYPE?
- Inject
:SOURce:DATA:TELecom:FETHernet:PHY:ALARm
:SOURce:DATA:TELecom:FETHernet:PHY:ALARm?

PTP

Alarms

- Loss Announce, **QL Mismatch**, and **Domain Mismatch**
:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:MESSage:HISTory?
:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:MESSage:CURRent?
:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:MESSage:SECond?

- Unusable
:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:IPDV:HISTory?
:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:IPDV:CURRent?
:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:IPDV:SECond?

- Loss Sync
:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SYNMessage:HISTory?
:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SYNMessage:CURRent?
:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SYNMessage:SECond?

QoS Metrics

Errors

- Global
:FETCh:DATA:TELecom:ETHernet:ERRor:STReam:HISTory?
:FETCh:DATA:TELecom:ETHernet:ERRor:STReam:CURRent?

- Per Stream
:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:HISTory?
:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:CURRent?
:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:SEConds?
:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:COUNt?
:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:RATE?

- Dual Port
:FETCh:DATA:TELecom:ETHernet:ERRor:DUALport:SANalyzer:HISTory?
:FETCh:DATA:TELecom:ETHernet:ERRor:DUALport:SANalyzer:CURRent?

:FETCh:DATA:TELecom:ETHernet:ERRor:DUALport:SANalyzer:SEConds?
:FETCh:DATA:TELecom:ETHernet:ERRor:DUALport:SANalyzer:COUNt?
:FETCh:DATA:TELecom:ETHernet:ERRor:DUALport:SANalyzer:RATE?

RS-FEC

Alarms

- 25G
:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:HISTory?
:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:CURRent?
:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:SEConds?

- 100G
:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:GLOBal:SEConds?
:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:GLOBal:HISTory?
:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:GLOBal:CURRent?

Errors

- 25G
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:CURRent?
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:SEConds:TOTal?
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:COUNt:TOTal?
:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:RATE:TOTal?

- 100G
:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:GLOBal:SEConds?
:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:GLOBal:COUNt?
:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:GLOBal:RATE?
:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:GLOBal:HISTory?
:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:GLOBal:CURRent?

- CPRI - 24.3G
:FETCh:DATA:TELecom:CPRI:FEC:ERRor:SEConds?
:FETCh:DATA:TELecom:CPRI:INTerface:ERRor:COUNt?

:FETCh:DATA:TELecom:CPRI:INTerface:ERRor:COUNt?
:FETCh:DATA:TELecom:CPRI:FEC:ERRor:HISTory?
:FETCh:DATA:TELecom:CPRI:FEC:ERRor:CURRent?

Injection

Mode Manual
- Defect
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE?
:SOURce:DATA:TELecom:CPRI:FEC:ERRor:MANual:TYPE
:SOURce:DATA:TELecom:CPRI:FEC:ERRor:MANual:TYPE?
- Amount
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt?
:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AMOunt
:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AMOunt?
- Inject
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:INJect
:SOURce:DATA:TELecom:CPRI:FEC:ERRor:INJect

Mode Rate/Max Rate
- Mode
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:CONTinuous
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:CONTinuous?
:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated:CONTinuous
:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated:CONTinuous?
- Defect
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:TYPE
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:TYPE?
:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated:TYPE
:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated:TYPE?
- Rate
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:RATE
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:RATE?
:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated:RATE
:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated:RATE?

- Inject
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated
:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated?
:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated
:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated?

RX (DCO)

Alarms

Note: *Not supported yet.*

S-OAM

Alarms

:FETCh:DATA:TELecom:SOAM:ALARm:HISTory?
:FETCh:DATA:TELecom:SOAM:ALARm:CURRent?
:FETCh:DATA:TELecom:SOAM:ALARm:SEConds?

Injection

- Address Type
:SOURce:DATA:TELecom:SOAM:ALARm:ADDRess:TYPE
:SOURce:DATA:TELecom:SOAM:ALARm:ADDRess:TYPE?
- Defect
:SOURce:DATA:TELecom:SOAM:ALARm:DEFect
:SOURce:DATA:TELecom:SOAM:ALARm:DEFect?
- Priority
:SOURce:DATA:TELecom:SOAM:ALARm:PRIority
:SOURce:DATA:TELecom:SOAM:ALARm:PRIority?
- MEG Level
:SOURce:DATA:TELecom:SOAM:ALARm:MEG:LEVel
:SOURce:DATA:TELecom:SOAM:ALARm:MEG:LEVel?
- MD Level
:SOURce:DATA:TELecom:SOAM:ALARm:MD:LEVel
:SOURce:DATA:TELecom:SOAM:ALARm:MD:LEVel?
- Period

:SOURce:DATA:TELecom:SOAM:ALARm:PERiod
:SOURce:DATA:TELecom:SOAM:ALARm:PERiod?
- Inject
:SOURce:DATA:TELecom:SOAM:ALARm:GENerate
:SOURce:DATA:TELecom:SOAM:ALARm:GENerate?

Section/Line/RS/MS

Alarms

- Section/RS
:FETCh:DATA:TELecom:SDHSonet:ALARm:SECTion:HISTory?
:FETCh:DATA:TELecom:SDHSonet:ALARm:SECTion:SEConds?
:FETCh:DATA:TELecom:SDHSonet:ALARm:SECTion:CURRent?

- Line/MS
:FETCh:DATA:TELecom:SDHSonet:ALARm:LINE:HISTory?
:FETCh:DATA:TELecom:SDHSonet:ALARm:LINE:SEConds?
:FETCh:DATA:TELecom:SDHSonet:ALARm:LINE:CURRent?

Errors

- Section/RS
:FETCh:DATA:TELecom:SDHSonet:ERRor:SECTion:HISTory?
:FETCh:DATA:TELecom:SDHSonet:ERRor:SECTion:SEConds?
:FETCh:DATA:TELecom:SDHSonet:ERRor:SECTion:CURRent?
:FETCh:DATA:TELecom:SDHSonet:ERRor:SECTion:COUNt?
:FETCh:DATA:TELecom:SDHSonet:ERRor:SECTion:RATE?

- Line/MS
:FETCh:DATA:TELecom:SDHSonet:ERRor:LINE:HISTory?
:FETCh:DATA:TELecom:SDHSonet:ERRor:LINE:SEConds?
:FETCh:DATA:TELecom:SDHSonet:ERRor:LINE:CURRent?
:FETCh:DATA:TELecom:SDHSonet:ERRor:LINE:COUNt?
:FETCh:DATA:TELecom:SDHSonet:ERRor:LINE:RATE?

Injection

Mode Manual
- Defect
Section/RS
:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:MANual:TYPE
:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:MANual:TYPE?
Line/MS
:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:MANual:TYPE
:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:MANual:TYPE?
- Amount
Section/RS
:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AMOunt
:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AMOunt?
Line/MS
:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AMOunt
:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AMOunt?
- Inject
Section/RS
:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:INJect
Line/MS
:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:INJect

Mode Rate/Max Rate
- Mode
Section/RS
:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:CONTinuous
:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:CONTinuous?
Line/MS
:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:CONTinuous
:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:CONTinuous?
- Defect
Section/RS
:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:TYPE
:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:TYPE?
Line/MS
:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:TYPE
:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:TYPE?

- Rate
Section/RS
:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:RATE
:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:RATE?
Line/MS
:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:RATE
:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:RATE?
- Inject
Section/RS
:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated
:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated?
Line/MS
:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated
:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated?

Mode Continuous
- Defect
Section/RS
:SOURce:DATA:TELecom:SDHSonet:ALARm:SECTion:TYPE
:SOURce:DATA:TELecom:SDHSonet:ALARm:SECTion:TYPE?
Line/MS
:SOURce:DATA:TELecom:SDHSonet:ALARm:LINE:TYPE
:SOURce:DATA:TELecom:SDHSonet:ALARm:LINE:TYPE?
- Inject
Section/RS
:SOURce:DATA:TELecom:SDHSonet:ALARm:SECTion
:SOURce:DATA:TELecom:SDHSonet:ALARm:SECTion?
Line/MS
:SOURce:DATA:TELecom:SDHSonet:ALARm:LINE
:SOURce:DATA:TELecom:SDHSonet:ALARm:LINE?

STS-x / AU-x

Alarms

:FETCh:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:HISTory?
:FETCh:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:SEConds?
:FETCh:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:CURRent?

Errors

:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:HISTory?
:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:SEConds?
:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:CURRent?
:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:COUNt?
:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:RATE?

Injection

Mode Manual
- Defect
:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE
:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE?
- Amount
:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt
:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt?
- Inject
:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect

Mode Rate/Max Rate
- Mode
:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:CONTinuous
:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:CONTinuous?
- Defect
:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE
:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE?
- Rate
:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE
:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE?
- Inject
:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated
:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated?

Mode Continuous
- Defect
:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE
:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE?
- Inject
:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH
:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH?

SyncE

Alarms

:FETCh:DATA:TELecom:PACKetsync:SYNCe:ALARm:CURRent?
:FETCh:DATA:TELecom:PACKetsync:SYNCe:ALARm:HISTory?
:FETCh:DATA:TELecom:PACKetsync:SYNCe:ALARm:SEConds?

Verdict

:FETCh:DATA:TELecom:PACKetsync:SYNCe:ESMC:RX:RATE:VERDict?
:FETCh:DATA:TELecom:PACKetsync:SYNCe:RX:LAST:QL:VERDict?

TCM (SONET/SDH)

Alarms

:FETCh:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:HISTory?
:FETCh:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:SEConds?
:FETCh:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:CURRent?

:FETCh:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:HISTory?
:FETCh:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:SEConds?
:FETCh:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:CURRent?

Errors

:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:HISTory?
:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:SEConds?
:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:CURRent?
:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:COUNt?
:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:RATE?

:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:HISTory?
:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:SEConds?
:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:CURRent?
:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:COUNt?
:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:RATE?

Injection

Mode Manual
- Defect
:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:MANual:TYPE
:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:MANual:TYPE?
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:MANual:TYPE
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:MANual:TYPE?
- Amount
:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:MANual:AMOunt
:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:MANual:AMOunt?
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:MANual:AMOunt
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:MANual:AMOunt?

- Inject
:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:INJect
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:INJect

Mode Rate/Max Rate
- Mode
:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:AUTomated:CONTinuous
:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:AUTomated:CONTinuous?
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated:CONTinuous
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated:CONTinuous?
- Defect
:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:AUTomated:TYPE
:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:AUTomated:TYPE?
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated:TYPE
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated:TYPE?
- Rate
:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:AUTomated:RATE

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:AUTomated:RATE?
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated:RATE
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated:RATE?
- Inject
:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:AUTomated
:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:AUTomated?
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated?

Mode Continuous
- Defect
:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:TYPE
:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:TYPE?
:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:TYPE
:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:TYPE?
- Inject
:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:TCM
:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:TCM?
:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:TCM
:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:TCM?

Transcoding

Alarms

:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ALARm:HISTory?
:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ALARm:CURRent?
:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ALARm:SEConds?

Errors

:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ERRor:HISTory?
:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ERRor:CURRent?
:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ERRor:SEConds?
:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ERRor:COUNt?
:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ERRor:RATE?

- Per Lane
:FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:HISTory?
:FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:CURRent?
:FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:SEConds?
:FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:COUNt?
:FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:RATE?

- Total
:FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:COUNt:TOTal?
:FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:RATE:TOTal?

Injection

Lane
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:LANE
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:LANE?
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:ALANes
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:ALANes?

Mode Manual
- Defect
Global
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:MANual:TYPE
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:MANual:TYPE?
Per Lane
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:MANual:TYPE
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:MANual:TYPE?
- Amount
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:MANual:AMOunt
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:MANual:AMOunt?
Per Lane
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:MANual:AMOunt
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:MANual:AMOunt?
- Inject
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:MANual:INJect
Per Lane
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:MANual:INJect

Mode Rate/Max Rate
- Mode
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:CONTinuous
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:CONTinuous?
Per Lane
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:CONTinuous
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:CONTinuous?
- Defect
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:TYPE
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:TYPE?
Per Lane
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:TYPE
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:TYPE?
- Rate
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:RATE
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:RATE?
Per Lane
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:RATE
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:RATE?
- Inject
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated?
Per Lane
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated
:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated?

TX (DCO)

Alarms

Note: *Not supported yet.*

VT/TU

Alarms

:FETCh:DATA:TELecom:SDHSonet:ALARm:LOP:PATH:HISTory?
:FETCh:DATA:TELecom:SDHSonet:ALARm:LOP:PATH:SEConds?
:FETCh:DATA:TELecom:SDHSonet:ALARm:LOP:PATH:CURRent?

:FETCh:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH:HISTory?
:FETCh:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH:SEConds?
:FETCh:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH:CURRent?

Errors

:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:HISTory?
:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:SEConds?
:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:CURRent?
:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:COUNt?
:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:RATE?

:FETCh:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:HISTory?
:FETCh:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:SEConds?
:FETCh:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:CURRent?
:FETCh:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:COUNt?
:FETCh:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:RATE?

Injection

Mode Manual
- Defect
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:MANual:TYPE
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:MANual:TYPE?
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:MANual:TYPE
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:MANual:TYPE?
- Amount
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AMOunt
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AMOunt?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AMOunt
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AMOunt?
- Inject
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:INJect
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:INJect

Mode Rate/Max Rate
- Mode
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUTomated:CONTinuous
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUTomated:CONTinuous?
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:CONTinuous
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:CONTinuous?
- Defect
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUTomated:TYPE
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUTomated:TYPE?
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:TYPE
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:TYPE?
- Rate
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUTomated:RATE
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUTomated:RATE?
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:RATE
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:RATE?
- Inject
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUTomated
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUTomated?
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated
:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated?

Mode Continuous
- Defect
:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:PATH:TYPE
:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:PATH:TYPE?
:SOURce:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH:TYPE
:SOURce:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH:TYPE?
- Inject
:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:PATH

:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:PATH?
:SOURce:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH
:SOURce:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH?

WIS

Alarms

:FETCh:DATA:TELecom:ETHernet:ALARm:WIS:HISTory?
:FETCh:DATA:TELecom:ETHernet:ALARm:WIS:CURRent?
:FETCh:DATA:TELecom:ETHernet:ALARm:WIS:SEConds?

PLM-P/UNEQ-P

:SOURce:DATA:TELecom:ETHernet:WIS:PLMuneq
:SOURce:DATA:TELecom:ETHernet:WIS:PLMuneq?

Errors

:FETCh:DATA:TELecom:ETHernet:ERRor:WIS:HISTory?
:FETCh:DATA:TELecom:ETHernet:ERRor:WIS:CURRent?
:FETCh:DATA:TELecom:ETHernet:ERRor:WIS:SEConds?
:FETCh:DATA:TELecom:ETHernet:ERRor:WIS:COUNt?
:FETCh:DATA:TELecom:ETHernet:ERRor:WIS:RATE?

:FETCh:DATA:TELecom:ETHernet:WIS:ALARm:LINK?

FEC Statistics

Symbol Error per Correctable Codeword
:FETCh:DATA:TELecom:ETHernet:FEC:CODeword:CORRectable:PERCent?
:FETCh:DATA:TELecom:ETHernet:FEC:CODeword:CORRectable?

Other Statistics

Error-free Codeword
:FETCh:DATA:TELecom:ETHernet:FEC:CODeword:EFRee:PERCent?
:FETCh:DATA:TELecom:ETHernet:FEC:CODeword:EFRee?

Uncorrectable Codeword
:FETCh:DATA:TELecom:ETHernet:FEC:CODeword:UNCorrectable:PERCent?

FTFL/PT

FTFL

Fault Indication

:SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:INDication?

Code

:SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:CODE?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:CODE?

Operator Identifier

:SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:IDENtifier?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:IDENtifier?

Operator Specific

:SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:SPECific?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:SPECific?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:SPECific?

PT

Channel selection for Multi-Channel OTN
:SENSe:DATA:TELecom:OTN:OPU[1..n]:CHANnel
:SENSe:DATA:TELecom:OTN:OPU[1..n]:CHANnel?
:SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHAnnel
:SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHAnnel?

Payload Type
:FETCh:DATA:TELecom:OTN:OPU[1..n]:PTYPe:RECeived?

:FETCh:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe:RECeived?

:FETCh:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe:RECeived?

Code
:FETCh:DATA:TELecom:OTN:OPU[1..n]:PCODe:RECeived?

:FETCh:DATA:TELecom:OTN:OPU[1..n]:E:PCODe:RECeived?

:FETCh:DATA:TELecom:OTN:OPU[1..n]:F:PCODe:RECeived?

Copy RX / Global Copy RX
:SENSe:DATA:TELecom:OTN:OPU[1..n]:COPYrx
:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:COPYrx
:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:COPYrx

GFP-F/GFP-T

Transport Layer

Bandwidth Usage
:FETCh:DATA:TELecom:GFP:OVERview:BANDwidth:TX?
:FETCh:DATA:TELecom:GFP:OVERview:BANDwidth:RX?

Mapping Efficiency
:FETCh:DATA:TELecom:GFP:OVERview:EFFiciency:TX?
:FETCh:DATA:TELecom:GFP:OVERview:EFFiciency:RX?

Frame Type

:FETCh:DATA:TELecom:GFP:OVERview:COUNt:TX?
:FETCh:DATA:TELecom:GFP:OVERview:RATE:TX?

:FETCh:DATA:TELecom:GFP:OVERview:COUNt:RX?
:FETCh:DATA:TELecom:GFP:OVERview:RATE:RX?

RX Mismatch

EXI, **UPI**, **CID**
:SENSe:DATA:TELecom:GFP:FRAMe:MISMatch:COUNt?

PFI

:FETCh:DATA:TELecom:GFP:CHANnel:MISMatch:COUNt?

Superblock

:FETCh:DATA:TELecom:GFP:SUPerblock:COUNt:TX?
:FETCh:DATA:TELecom:GFP:SUPerblock:RATE:TX?
:FETCh:DATA:TELecom:GFP:SUPerblock:COUNt:RX?
:FETCh:DATA:TELecom:GFP:SUPerblock:RATE:RX?

Labels

STS/AU Path (C2)

:FETCh:DATA:TELecom:SDHSonet:HOP:PATH:LABel?

VT/TU Path (V5)

:FETCh:DATA:TELecom:SDHSonet:LOP:PATH:LABel?

TU-3 Path (V5)

:FETCh:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel?

Link OAM

Remote MAC Address

:FETCh:DATA:TELecom:LOAM:REMote:MAC?

Remote OAM Information

:FETCh:DATA:TELecom:LOAM:REMote:OAMInfo?

Remote Error Event Statistics

Symbol Period
:FETCh:DATA:TELecom:LOAM:REMote:EVENt:STATistic:SPERiod?

Frame
:FETCh:DATA:TELecom:LOAM:REMote:EVENt:STATistic:FRAMe?

Frame Period
:FETCh:DATA:TELecom:LOAM:REMote:EVENt:STATistic:FPERiod?

Frame Seconds
:FETCh:DATA:TELecom:LOAM:REMote:EVENt:STATistic:FSECond?

Inject Errored Frames

:SOURce:DATA:TELecom:LOAM:ERRor:FRAMe:INJect

Logger and Alarms/Errors Logger

:FETCh:DATA:TELecom:LOGGer:EVENts?
:FETCh:DATA:TELecom:LOGGer:LIST?

Messages

Message Type
:FETCh:DATA:TELecom:CPRI:OBSai:MESSages:TXCount?
:FETCh:DATA:TELecom:CPRI:OBSai:MESSages:RXCount?

RX Frame Clock Burst Details
:FETCh:DATA:TELecom:CPRI:OBSai:MESSages:C[1..n]?
:FETCh:DATA:TELecom:CPRI:OBSai:MESSages:SFN?

Measurements (DCO)

Note: Not supported yet.

MPLS

Label 1/2

:FETCh:DATA:TELecom:ETHernet:STReam:MPLS:FRAMes:TX?
:FETCh:DATA:TELecom:ETHernet:STReam:MPLS:FRAMes:RX?

Total TX/RX MPLS

Ethernet BW
:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:TX:BANDwidth?
:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:RX:BANDwidth?

Frame Rate
:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:TX:RATE?
:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:RX:RATE?

Line Utilization
:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:TX:UTILization?
:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:RX:UTILization?

Frame Count
:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:TX:COUNt?
:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:RX:COUNt?

OTL-SDT

:FETCh:DATA:TELecom:OTL:SDT:STATistics?

Defect
:FETCh:DATA:TELecom:OTL:SDT:DEFect?

Longest
:FETCh:DATA:TELecom:OTL:SDT:LONGest?

Shortest
:FETCh:DATA:TELecom:OTL:SDT:SHORtest?

Last
:FETCh:DATA:TELecom:OTL:SDT:LAST?

Average
:FETCh:DATA:TELecom:OTL:SDT:AVERage?

Total
:FETCh:DATA:TELecom:OTL:SDT:TOTal?

Count
:FETCh:DATA:TELecom:OTL:SDT:COUNt?

Longest Disruption
:FETCh:DATA:TELecom:OTL:SDT:LONGest:DISRuption:DURation?
:FETCh:DATA:TELecom:OTL:SDT:LONGest:DISRuption:LANE?

Lanes with Disruption
:FETCh:DATA:TELecom:OTL:SDT:LANE:DISRuption?

Performance Monitoring

BERT
:FETCh:DATA:TELecom:PATTern:PM:STATistics?

Section/RS
:FETCh:DATA:TELecom:SONet:SECTion:PM:STATistics?

Line/MS
:FETCh:DATA:TELecom:SONet:LINE:PM:STATistics?

STS-n/AU-n
:FETCh:DATA:TELecom:SDHSonet:HOP:PM:STATistics?

VTn/TU-n
:FETCh:DATA:TELecom:SDHSonet:LOP:PM:STATistics?

TU-3
:FETCh:DATA:TELecom:SDHSonet:LOPTu:PM:STATistics?

DS3/DS1
:FETCh:DATA:TELecom:DSN:DS[1..n]:PM:STATistics?

E4/E3/E2/E1
:FETCh:DATA:TELecom:PDH:E[1..n]:PM:STATistics?

PTP Stats

Count/Rate - TX

Signaling Announce Req
:FETCh:DATA:TELecom:PACKetsync:PTP:TX:ANNounce:REQuest:COUNt?
:FETCh:DATA:TELecom:PACKetsync:PTP:TX:ANNounce:REQuest:RATE?

Signaling Sync Req
:FETCh:DATA:TELecom:PACKetsync:PTP:TX:SYNC:REQuest:COUNt?
:FETCh:DATA:TELecom:PACKetsync:PTP:TX:SYNC:REQuest:RATE?

Signaling Delay Resp Req
:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELay:REQuest:RESPonse:COUNt?
:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELay:REQuest:RESPonse:RATE?

Delay Req
:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELay:REQuest:COUNt?
:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELay:REQuest:RATE?

Total
:FETCh:DATA:TELecom:PACKetsync:PTP:TX:TOTal:COUNt?

Count/Rate - RX

Signaling Announce Grant
:FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANt:COUNt?
:FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?

Signaling Sync Grant
:FETCh:DATA:TELecom:PACKetsync:PTP:RX:SYNC:GRANt:COUNt?
:FETCh:DATA:TELecom:PACKetsync:PTP:RX:SYNC:GRANt:RATE?

Signaling Delay Resp Grant
:FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELay:RESPonse:GRANt:COUNt?
:FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELay:RESPonse:GRANt:RATE?

Delay Resp

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELay:RESPonse:COUNt?
:FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELay:RESPonse:RATE?

Sync

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:SYNC:COUNt?
:FETCh:DATA:TELecom:PACKetsync:PTP:RX:SYNC:RATE?

Follow Up

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:FOLLowup:COUNt?
:FETCh:DATA:TELecom:PACKetsync:PTP:RX:FOLLowup:RATE?

Announce

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:COUNt?
:FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:RATE?

Total

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:TOTal:COUNt?

IPDV

Current

:FETCh:DATA:TELecom:PACKetsync:PTP:IPDV:CURRent?

Average

:FETCh:DATA:TELecom:PACKetsync:PTP:IPDV:AVERage?

Minimum

:FETCh:DATA:TELecom:PACKetsync:PTP:IPDV:MINimum?

Maximum

:FETCh:DATA:TELecom:PACKetsync:PTP:IPDV:MAXimum?

Standard Deviation

:FETCh:DATA:TELecom:PACKetsync:PTP:IPDV:STDDev?

Verdict

:FETCh:DATA:TELecom:PACKetsync:PTP:IPDV:MAXimum:VERDict?

Quality Level (1588 PTP)

Last QL Received

:FETCh:DATA:TELecom:PACKetsync:PTP:QL:LAST:RECeived?

Last Change

:FETCh:DATA:TELecom:PACKetsync:PTP:QL:LAST:CHANge?

QL Mismatch Monitoring

:SOURce:DATA:TELecom:PACKetsync:PTP:QL:MISMatch:ENABled
:SOURce:DATA:TELecom:PACKetsync:PTP:QL:MISMatch:ENABled?

Expected QL

:SOURce:DATA:TELecom:PACKetsync:PTP:QL:EXPected
:SOURce:DATA:TELecom:PACKetsync:PTP:QL:EXPected?

Count

QL
:FETCh:DATA:TELecom:PACKetsync:PTP:QL:MESSege:COUNt?

Other
:FETCh:DATA:TELecom:PACKetsync:PTP:QL:OTHer?

Total
:FETCh:DATA:TELecom:PACKetsync:PTP:QL:TOTal?

Quality Level (SyncE)

Generated QL

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:TXLast:QLMessage?

Last Change

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:TXLast:CHANge?

Last QL Received

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXLast:QLMessage?

Last Change

-:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXLast:CHANge?

QL Mismatch Monitoring

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:QLMismatch
:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:QLMismatch?

Expected QL

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:EXPectedql
:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:EXPectedql?

QL Mismatch Frame Count

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXQLmismatch:FRAMes:COUNt?

QL

Information
:SENSe:DATA:TELecom:PACKetsync:SYNCe:QLTX:INFormation?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:QLRX:INFormation?

Event
:SENSe:DATA:TELecom:PACKetsync:SYNCe:QLTX:EVENt?
:SENSe:DATA:TELecom:PACKetsync:SYNCe:QLRX:EVENt?

S-OAM and MPLS-TP OAM

Loopback

Status
:FETCh:DATA:TELecom:SOAM:LOOPback:STATus?

Verdict
:FETCh:DATA:TELecom:SOAM:LOOPback:STATus:VERDict?

TX LBM
:FETCh:DATA:TELecom:SOAM:LOOPback:TX:LBM:COUNt?

RX LBR
:FETCh:DATA:TELecom:SOAM:LOOPback:RX:LBR:COUNt?

LBR Timeout
:FETCh:DATA:TELecom:SOAM:LOOPback:LBR:TIMeout:COUNt?

Invalid LBR
:FETCh:DATA:TELecom:SOAM:LOOPback:INValid:LBR:COUNt?

Invalid Payload
:FETCh:DATA:TELecom:SOAM:LOOPback:INValid:PAYLoad:COUNt?

Successful
:FETCh:DATA:TELecom:SOAM:LOOPback:SUCCessful:COUNt?

Failed
:FETCh:DATA:TELecom:SOAM:LOOPback:FAILed:COUNt?

Failed Count Verdict
:FETCh:DATA:TELecom:SOAM:LOOPback:FAILed:COUNt:VERDict?

Test

Status
:FETCh:DATA:TELecom:SOAM:TEST:STATus?

Verdict
:FETCh:DATA:TELecom:SOAM:TEST:STATus:VERDict?

TX TST
:FETCh:DATA:TELecom:SOAM:TEST:TX:TST:COUNt?

RX TST
:FETCh:DATA:TELecom:SOAM:TEST:RX:TST:COUNt?

Invalid TST
:FETCh:DATA:TELecom:SOAM:TEST:INValid:TST:COUNt?

Invalid Payload
:FETCh:DATA:TELecom:SOAM:TEST:INValid:PAYLoad:COUNt?

Successful
:FETCh:DATA:TELecom:SOAM:TEST:SUCCessful:COUNt?

Failed
:FETCh:DATA:TELecom:SOAM:TEST:FAILed:COUNt?

Failed Verdict
:FETCh:DATA:TELecom:SOAM:TEST:FAILed:COUNt:VERDict?

Frame Delay

Status
:FETCh:DATA:TELecom:SOAM:FDELay:STATus?

Verdict
:FETCh:DATA:TELecom:SOAM:FDELay:STATus:VERDict?

TX DMM
:FETCh:DATA:TELecom:SOAM:FDELay:TX:DMM:COUNt?

RX DMR
:FETCh:DATA:TELecom:SOAM:FDELay:RX:DMR:COUNt?

Invalid DMR
:FETCh:DATA:TELecom:SOAM:FDELay:INValid:DMR:COUNt?

Successful
:FETCh:DATA:TELecom:SOAM:FDELay:SUCCessful:COUNt?

Failed
:FETCh:DATA:TELecom:SOAM:FDELay:FAILed:COUNt?
Verdict
:FETCh:DATA:TELecom:SOAM:FDELay:FAILed:COUNt:VERDict?

Current
:FETCh:DATA:TELecom:SOAM:FDELay:CURRent:DELay?

Minimum
:FETCh:DATA:TELecom:SOAM:FDELay:MINimum:DELay?

Maximum
:FETCh:DATA:TELecom:SOAM:FDELay:MAXimum:DELay?
Verdict
:FETCh:DATA:TELecom:SOAM:FDELay:MAXimum:DELay:VERDict?

Average
:FETCh:DATA:TELecom:SOAM:FDELay:AVERage:DELay?

Frame Loss

Status
:FETCh:DATA:TELecom:SOAM:FLOSs:STATus?

Verdict
:FETCh:DATA:TELecom:SOAM:FLOSs:STATus:VERDict?

TX LMM
:FETCh:DATA:TELecom:SOAM:FLOSs:TX:LMM:COUNt?

RX LMR
:FETCh:DATA:TELecom:SOAM:FLOSs:RX:LMR:COUNt?

Invalid LMR
:FETCh:DATA:TELecom:SOAM:FLOSs:INValid:LMR:COUNt?

Successful
:FETCh:DATA:TELecom:SOAM:FLOSs:SUCCessful:COUNt?

Failed
:FETCh:DATA:TELecom:SOAM:FLOSs:FAILed:COUNt?
Verdict
:FETCh:DATA:TELecom:SOAM:FLOSs:FAILed:COUNt:VERDict?

Frame Loss Count
:FETCh:DATA:TELecom:SOAM:FLOSs:COUNt?

Frame Loss %
:FETCh:DATA:TELecom:SOAM:FLOSs:PERCent?
:FETCh:DATA:TELecom:SOAM:FLOSs:PERCent:VERDict?

Synthetic Loss

Status
:FETCh:DATA:TELecom:SOAM:SLOSs:STATus?

Verdict
:FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?

TX SLM
:FETCh:DATA:TELecom:SOAM:SLOSs:TX:SLM:COUNt?

RX SLR
:FETCh:DATA:TELecom:SOAM:SLOSs:RX:SLR:COUNt?

Invalid SLR
:FETCh:DATA:TELecom:SOAM:SLOSs:INValid:SLR:COUNt?

Successful
:FETCh:DATA:TELecom:SOAM:SLOSs:SUCCessful:COUNt?

Failed
:FETCh:DATA:TELecom:SOAM:SLOSs:FAILed:COUNt?
:FETCh:DATA:TELecom:SOAM:SLOSs:FAILed:COUNt:VERDict?

Synthetic Loss Count
:FETCh:DATA:TELecom:SOAM:SLOSs:COUNt?

Synthetic Loss %
:FETCh:DATA:TELecom:SOAM:SLOSs:PERCent?
:FETCh:DATA:TELecom:SOAM:SLOSs:PERCent:VERDict?

SDT (Multi-Channel OTN)

Channels with Disruptions
:FETCh:DATA:TELecom:SDT:CHDIsruption?

Channels Monitored
:FETCh:DATA:TELecom:SDT:CHMOnitored?

Channels Above Threshold
:FETCh:DATA:TELecom:SDT:CHAThreshold?

Longest Disruption Duration
:FETCh:DATA:TELecom:SDT:LOTImestamp?

Longest Disruption Channel
:FETCh:DATA:TELecom:SDT:LOCHannel?

Last Disruption Duration
:FETCh:DATA:TELecom:SDT:LATImestamp?

Last Disruption Channel
:FETCh:DATA:TELecom:SDT:LACHannel?

SDT Threshold
:SENSe:DATA:TELecom:SDT:THReshold
:SENSe:DATA:TELecom:SDT:THReshold?

Table

- Longest
:FETCh:DATA:TELecom:SDT:LONGest?

- Shortest
:FETCh:DATA:TELecom:SDT:SHORtest?

- Last
:FETCh:DATA:TELecom:SDT:LAST?

- Average
:FETCh:DATA:TELecom:SDT:AVERage?

- Total
:FETCh:DATA:TELecom:SDT:TOTal?

- Count
:FETCh:DATA:TELecom:SDT:COUNt?

- PASS/FAIL
:FETCh:DATA:TELecom:SDT:VERDict?

Service Configuration - Burst

Committed CBS / Excess EBS

Frame Loss
:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:FLOSs?
:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:FLOSs:VERDict?

Max Jitter
:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:MAXJitter?
:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:MAXJitter:VERDict?

Round-Trip Latency
:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:RTLatency?
:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:RTLatency:VERDict?

Average RX Rate
:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:ARXRate?
:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:ARXRate:VERDict?

Service Configuration Test - Ramp

Committed Steps

TX Rate
:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:TXRate?

Frame Loss Rate
:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:FLOSs?
:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:FLOSs:VERDict?

Max Jitter
:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:MAXJitter?
:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:MAXJitter:VERDict?

Round-Trip Latency
:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:RTLatency?
:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:RTLatency:VERDict?

Average RX Rate
:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:ARXRate?
:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:ARXRate:VERDict?

Service Performance

SLA Parameters

CIR
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFRate?

Max Jitter, Round-trip Latency, Frame Loss Rate
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:VALue?

Metrics

RX Rate
:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:CURRent?
:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:CURRent:VERDict?

:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:AVERage?
:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:AVERage:VERDict?

:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:MINimum?

:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:MAXimum?

Jitter
:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:CURRent?
:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:AVERage?
:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:MINimum?
:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:MAXimum?
:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:ESTimate?

:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:MAXimum:VERDict?

Latency
:FETCh:DATA:TELecom:ETHernet:STReam:LATency:CURRent?
:FETCh:DATA:TELecom:ETHernet:STReam:LATency:AVERage?
:FETCh:DATA:TELecom:ETHernet:STReam:LATency:MINimum?
:FETCh:DATA:TELecom:ETHernet:STReam:LATency:MAXimum?
:FETCh:DATA:TELecom:ETHernet:STReam:LATency:MAXimum:VERDict?

Frame Loss and Out-of-Sequence

- Global
:FETCh:DATA:TELecom:ETHernet:ERRor:STReam:HISTory?
:FETCh:DATA:TELecom:ETHernet:ERRor:STReam:CURRent?

- Per Stream
:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:HISTory?
:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:CURRent?

:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:SEConds?
:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:COUNt?
:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:RATE?

- Dual Port
:FETCh:DATA:TELecom:ETHernet:ERRor:DUALport:SANalyzer:HISTory?
:FETCh:DATA:TELecom:ETHernet:ERRor:DUALport:SANalyzer:CURRent?
:FETCh:DATA:TELecom:ETHernet:ERRor:DUALport:SANalyzer:SEConds?
:FETCh:DATA:TELecom:ETHernet:ERRor:DUALport:SANalyzer:COUNt?
:FETCh:DATA:TELecom:ETHernet:ERRor:DUALport:SANalyzer:RATE?

Verdict
:FETCh:DATA:TELecom:ETHernet:STReam:FLOSs:VERDict?
:FETCh:DATA:TELecom:ETHernet:STReam:OOSequence:VERDict?

Streams - Frame Loss/Out-ofSequence

- Per Stream
:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:HISTory?
:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:CURRent?
:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:SEConds?
:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:COUNt?
:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:RATE?

Verdict
:FETCh:DATA:TELecom:ETHernet:STReam:FLOSs:VERDict?
:FETCh:DATA:TELecom:ETHernet:STReam:OOSequence:VERDict?

Streams - Jitter

Jitter

:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:CURRent?
:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:AVERage?
:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:MINimum?
:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:MAXimum?
:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:ESTimate?

Verdict
:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:MAXimum:VERDict?

Streams - Latency

Latency

:FETCh:DATA:TELecom:ETHernet:STReam:LATency:CURRent?
:FETCh:DATA:TELecom:ETHernet:STReam:LATency:AVERage?
:FETCh:DATA:TELecom:ETHernet:STReam:LATency:MINimum?
:FETCh:DATA:TELecom:ETHernet:STReam:LATency:MAXimum?
:FETCh:DATA:TELecom:ETHernet:STReam:LATency:MAXimum:VERDict?

Streams- Throughput

RX Rate

:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:RATE?
:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:RATE:MBPS?
Total
:SOURce:DATA:TELecom:ETHernet:ENABled:BANDwidth?

RX Rate

Current
:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:CURRent?
Verdict
:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:CURRent:VERDict?
Total
:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:CURRent:TOTal:RXRate?

Average
:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:AVERage?
VerdictMinimum
:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:AVERage:VERDict?

Minimum
:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:MINimum?

Maximum
:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:MAXimum?

Summary / Client Summary

Test Status
:FETCh:DATA:TELecom:TEST:STATus?

Verdict
:FETCh:DATA:TELecom:TEST:STATus:VERDict?

Start Time
:FETCh:DATA:TELecom:TEST:STARt:TIME?

Test/Power Recovery
:FETCh:DATA:TELecom:TEST:POWer:RECOvery:COUnt?

Client ID
:SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier
:SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier?

Size
:SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:CONFig?

BER

Alarms
:FETCh:DATA:TELecom:PATTern:ALARm:SEConds?
:FETCh:DATA:TELecom:PATTern:ALARm:HISTory?
:FETCh:DATA:TELecom:PATTern:ALARm:CURRent?

Errors
:FETCh:DATA:TELecom:PATTern:ERRor:SEConds?
:FETCh:DATA:TELecom:PATTern:ERRor:COUNt?
:FETCh:DATA:TELecom:PATTern:ERRor:RATE?
:FETCh:DATA:TELecom:PATTern:ERRor:HISTory?
:FETCh:DATA:TELecom:PATTern:ERRor:CURRent?

Verdict
:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:THReshold:VERDict?

Inject
See *BER* on page 202.

BER (Unframed) for parallel interfaces

Lane - BER Layer
:SOURce:DATA:TELecom:UNFRamed:PATTern:LANE
:SOURce:DATA:TELecom:UNFRamed:PATTern:LANE?
:SOURce:DATA:TELecom:UNFRamed:PATTern:ALANes
:SOURce:DATA:TELecom:UNFRamed:PATTern:ALANes?

Lane - Interface Layer
:SOURce:DATA:TELecom:OPTical:ALARm:PORT:LANE
:SOURce:DATA:TELecom:OPTical:ALARm:PORT:LANE?
:SOURce:DATA:TELecom:OPTical:ALARm:PORT:ALANes
:SOURce:DATA:TELecom:OPTical:ALARm:PORT:ALANes?

Verdict
:FETCh:DATA:TELecom:UPRBs:PATTern:THReshold:VERDict?

Alarms - Defect
:SOURce:DATA:TELecom:UNFRamed:PATTern:ALARm:TYPE?

Alarms - Continuous - Inject
:SOURce:DATA:TELecom:UNFRamed:PATTern:ALARm
:SOURce:DATA:TELecom:UNFRamed:PATTern:ALARm?

Error - Manual - Defect
:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:MANual:TYPE?

Error - Manual - Amount
:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:MANual:AMOunt
:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:MANual:AMOunt?

Error - Manual - Inject
:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:MANual:INJect

Error - Rate/Max Rate - Defect
:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated:TYPE?

Error - Rate
:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated:RATE
:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated:RATE?

Error - Max Rate - Inject
:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated:CONTinuous
:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated:CONTinuous?

Error - Rate - Inject
:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated
:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated?

Service Disruption

Disruption Time
:FETCh:DATA:TELecom:SDT:LONGest?
:FETCh:DATA:TELecom:SDT:SHORtest?
:FETCh:DATA:TELecom:SDT:LAST?
:FETCh:DATA:TELecom:SDT:AVERage?
:FETCh:DATA:TELecom:SDT:TOTal?
OTL
:FETCh:DATA:TELecom:OTL:SUMMary:SDT:LONGest?
:FETCh:DATA:TELecom:OTL:SUMMary:SDT:SHORtest?
:FETCh:DATA:TELecom:OTL:SUMMary:SDT:LAST?
:FETCh:DATA:TELecom:OTL:SUMMary:SDT:AVERage?
:FETCh:DATA:TELecom:OTL:SUMMary:SDT:TOTal?

Disruption Count
:FETCh:DATA:TELecom:SDT:COUNt?
OTL
:FETCh:DATA:TELecom:OTL:SUMMary:SDT:COUNt?

Defect
:FETCh:DATA:TELecom:SDT:DEFect?

Verdict
:FETCh:DATA:TELecom:SDT:VERDict?

CPRI

Count TX
:FETCh:DATA:TELecom:CPRI:SUMMary:TX:COUNter?

Count RX
:FETCh:DATA:TELecom:CPRI:SUMMary:RX:COUNter?

Ethernet
:SENSe:DATA:TELecom:CPRI:SUMMary:ETHernet:RATE?

HDLC
:SENSe:DATA:TELecom:CPRI:SUMMary:HDLC:RATE?

Protocol
:SENSe:DATA:TELecom:CPRI:SUMMary:PROTocol:VERSion?

Sequence
:SENSe:DATA:TELecom:CPRI:SUMMary:SSTate?

Frame Sync
:SENSe:DATA:TELecom:CPRI:SUMMary:FSYNc:STATus?

Verdict
:FETCh:DATA:TELecom:CPRI:SUMMary:VERDict?

OBSAI

Sync / TX / RX
:FETCh:DATA:TELecom:CPRI:OBSai:LINK:LAST?
:FETCh:DATA:TELecom:CPRI:OBSai:STATe:TRANsmit:LAST?
:FETCh:DATA:TELecom:CPRI:OBSai:STATe:RECeive:LAST?

Count / Code Word / Message Group / Frame table
:FETCh:DATA:TELecom:CPRI:OBSai:SUMMary:RXCount?
:FETCh:DATA:TELecom:CPRI:OBSai:SUMMary:TXCount?

RP3 Peer Target Address
:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:LAST:PTARget?
:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:LAST:STATus?

Summary - 1588 PTP (Client)

Test Status
:FETCh:DATA:TELecom:TEST:STATus?

Verdict
:FETCh:DATA:TELecom:TEST:STATus:VERDict?

Start Time
:FETCh:DATA:TELecom:TEST:STARt:TIME?

Test/Power Recovery
:FETCh:DATA:TELecom:TEST:POWer:RECOvery:COUnt?

GM Info
Refer to *Grand Master Information* on page 416.

Quality Level

Last QL Received
:FETCh:DATA:TELecom:PACKetsync:PTP:QL:LAST:RECeived?

Last Change
:FETCh:DATA:TELecom:PACKetsync:PTP:QL:LAST:CHANge?

Verdict
:FETCh:DATA:TELecom:PACKetsync:PTP:IPDV:VERDict?

Summary - 1588 PTP (GM)

Test Status
:FETCh:DATA:TELecom:TEST:STATus?

Verdict
:FETCh:DATA:TELecom:TEST:STATus:VERDict?

Start Time
:FETCh:DATA:TELecom:TEST:STARt:TIME?

Test/Power Recovery
:FETCh:DATA:TELecom:TEST:POWer:RECOvery:COUnt?

PTP Stats

Count/Rate - TX

Delay Resp
FETC:DATA:TEL:PACK:PTP:TX:DEL:RESP:COUN?
FETC:DATA:TEL:PACK:PTP:TX:DEL:RESP:RATE?

Sync
FETC:DATA:TEL:PACK:PTP:TX:SYNC:COUN?
FETC:DATA:TEL:PACK:PTP:TX:SYNC:RATE?

Follow Up
FETC:DATA:TEL:PACK:PTP:TX:FOLL:COUN?
FETC:DATA:TEL:PACK:PTP:TX:FOLL:RATE?

Announce
FETC:DATA:TEL:PACK:PTP:TX:ANN:COUN?
FETC:DATA:TEL:PACK:PTP:TX:ANN:RATE?

Total
:FETCh:DATA:TELecom:PACKetsync:PTP:TX:TOTal:COUNt?

Count/Rate - RX

Delay Req

FETC:DATA:TEL:PACK:PTP:RX:DEL:REQ:COUN?
FETC:DATA:TEL:PACK:PTP:RX:DEL:REQ:RATE?

Total

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:TOTal:COUNt?

Summary - Cable Test

Test Status
:FETCh:DATA:TELecom:TEST:STATus?

Verdict
:FETCh:DATA:TELecom:TEST:STATus:VERDict?

Start Time
:FETCh:DATA:TELecom:TEST:STARt:TIME?

Cable

Wire Map
:FETCh:DATA:TELecom:CABLetest:WIRemap:RESult?

Prop. Delay
:FETCh:DATA:TELecom:CABLetest:PROPdelay:RESult?

Delay Skew
:FETCh:DATA:TELecom:CABLetest:DELayskew:RESult?

Length
:FETCh:DATA:TELecom:CABLetest:LENGth:RESult?

Pairs

Verdict
:FETCh:DATA:TELecom:CABLetest:PAIR:THReshold?

Wire Map Test Results
:FETCh:DATA:TELecom:CABLetest:WIRemap:PAIRresult?

Prop. Delay
:FETCh:DATA:TELecom:CABLetest:PROPdelay:PAIRresult?

Distance to Fault
:FETCh:DATA:TELecom:CABLetest:DELayskew:PAIRresult?

Length

:FETCh:DATA:TELecom:CABLetest:LENGth:PAIRresult?

Verdict

:FETCh:DATA:TELecom:CABLetest:THReshold?

Summary - CPRI/OBSAI BERT

Test Status
:FETCh:DATA:TELecom:TEST:STATus?

Verdict
:FETCh:DATA:TELecom:TEST:STATus:VERDict?

Start Time
:FETCh:DATA:TELecom:TEST:STARt:TIME?

Test/Power Recovery
:FETCh:DATA:TELecom:TEST:POWer:RECOvery:COUnt?

CPRI

Count TX
:FETCh:DATA:TELecom:CPRI:SUMMary:TX:COUNter?

Count RX
:FETCh:DATA:TELecom:CPRI:SUMMary:RX:COUNter?

Ethernet
:SENSe:DATA:TELecom:CPRI:SUMMary:ETHernet:RATE?

HDLC
:SENSe:DATA:TELecom:CPRI:SUMMary:HDLC:RATE?

Protocol
:SENSe:DATA:TELecom:CPRI:SUMMary:PROTocol:VERSion?

Sequence
:SENSe:DATA:TELecom:CPRI:SUMMary:SSTate?

Frame Sync
:SENSe:DATA:TELecom:CPRI:SUMMary:FSYNc:STATus?

Verdict
:FETCh:DATA:TELecom:CPRI:SUMMary:VERDict?

OBSAI

Sync / **TX** / **RX**

:FETCh:DATA:TELecom:CPRI:OBSai:LINK:LAST?
:FETCh:DATA:TELecom:CPRI:OBSai:STATe:TRANsmit:LAST?
:FETCh:DATA:TELecom:CPRI:OBSai:STATe:RECeive:LAST?

Count / **Code Word** / **Message Group** / **Frame** table

:FETCh:DATA:TELecom:CPRI:OBSai:SUMMary:RXCount?
:FETCh:DATA:TELecom:CPRI:OBSai:SUMMary:TXCount?

RP3 Peer Target Address

:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:LAST:PTARget?
:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:LAST:STATus?

BER

Alarms

:FETCh:DATA:TELecom:PATTern:ALARm:SEConds?
:FETCh:DATA:TELecom:PATTern:ALARm:HISTory?
:FETCh:DATA:TELecom:PATTern:ALARm:CURRent?

Errors

:FETCh:DATA:TELecom:PATTern:ERRor:SEConds?
:FETCh:DATA:TELecom:PATTern:ERRor:COUNt?
:FETCh:DATA:TELecom:PATTern:ERRor:RATE?
:FETCh:DATA:TELecom:PATTern:ERRor:HISTory?
:FETCh:DATA:TELecom:PATTern:ERRor:CURRent?

Verdict

:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:THReshold:VERDict?

Inject

See *BER* on page 202.

Service Disruption

Disruption Time
:FETCh:DATA:TELecom:SDT:LONGest?
:FETCh:DATA:TELecom:SDT:SHORtest?
:FETCh:DATA:TELecom:SDT:LAST?
:FETCh:DATA:TELecom:SDT:AVERage?
:FETCh:DATA:TELecom:SDT:TOTal?

Disruption Count
:FETCh:DATA:TELecom:SDT:COUNt?

Verdict
:FETCh:DATA:TELecom:SDT:VERDict?

Summary - DCO BERT

Note: *Not supported yet.*

Summary - EtherBERT

Test Status
:FETCh:DATA:TELecom:TEST:STATus?

Verdict
:FETCh:DATA:TELecom:TEST:STATus:VERDict?

Start Time
:FETCh:DATA:TELecom:TEST:STARt:TIME?

Test/Power Recovery
:FETCh:DATA:TELecom:TEST:POWer:RECOvery:COUnt?

Client ID
:SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier
:SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier?

Size
:SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:CONFig?

Link
:SOURce:DATA:TELecom:LINK
:SOURce:DATA:TELecom:LINK

BER

Alarms
:FETCh:DATA:TELecom:PATTern:ALARm:SEConds?
:FETCh:DATA:TELecom:PATTern:ALARm:HISTory?
:FETCh:DATA:TELecom:PATTern:ALARm:CURRent?

Errors
:FETCh:DATA:TELecom:PATTern:ERRor:SEConds?
:FETCh:DATA:TELecom:PATTern:ERRor:COUNt?
:FETCh:DATA:TELecom:PATTern:ERRor:RATE?
:FETCh:DATA:TELecom:PATTern:ERRor:HISTory?
:FETCh:DATA:TELecom:PATTern:ERRor:CURRent?

Verdict
:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:THReshold:VERDict?

Inject
See *BER* on page 202.

BER (Unframed) for parallel interfaces

Lane - BER Layer
:SOURce:DATA:TELecom:UNFRamed:PATTern:LANE
:SOURce:DATA:TELecom:UNFRamed:PATTern:LANE?
:SOURce:DATA:TELecom:UNFRamed:PATTern:ALANes
:SOURce:DATA:TELecom:UNFRamed:PATTern:ALANes?

Lane - Interface Layer
:SOURce:DATA:TELecom:OPTical:ALARm:PORT:LANE
:SOURce:DATA:TELecom:OPTical:ALARm:PORT:LANE?
:SOURce:DATA:TELecom:OPTical:ALARm:PORT:ALANes
:SOURce:DATA:TELecom:OPTical:ALARm:PORT:ALANes?

Verdict
:FETCh:DATA:TELecom:UPRBs:PATTern:THReshold:VERDict?

Alarms - Defect
:SOURce:DATA:TELecom:UNFRamed:PATTern:ALARm:TYPE?

Alarms - Continuous - Inject
:SOURce:DATA:TELecom:UNFRamed:PATTern:ALARm
:SOURce:DATA:TELecom:UNFRamed:PATTern:ALARm?

Error - Manual - Defect
:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:MANual:TYPE?

Error - Manual - Amount
:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:MANual:AMOunt
:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:MANual:AMOunt?

Error - Manual - Inject
:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:MANual:INJect

Error - Rate/Max Rate - Defect
:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated:TYPE?

Error - Rate
:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated:RATE
:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated:RATE?

Error - Max Rate - Inject
:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated:CONTinuous
:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated:CONTinuous?

Error - Rate - Inject
:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated
:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated?

Service Disruption

Disruption Time
:FETCh:DATA:TELecom:SDT:LONGest?
:FETCh:DATA:TELecom:SDT:SHORtest?
:FETCh:DATA:TELecom:SDT:LAST?
:FETCh:DATA:TELecom:SDT:AVERage?
:FETCh:DATA:TELecom:SDT:TOTal?
OTL
:FETCh:DATA:TELecom:OTL:SUMMary:SDT:LONGest?
:FETCh:DATA:TELecom:OTL:SUMMary:SDT:SHORtest?
:FETCh:DATA:TELecom:OTL:SUMMary:SDT:LAST?
:FETCh:DATA:TELecom:OTL:SUMMary:SDT:AVERage?
:FETCh:DATA:TELecom:OTL:SUMMary:SDT:TOTal?

Disruption Count
:FETCh:DATA:TELecom:SDT:COUNt?
OTL
:FETCh:DATA:TELecom:OTL:SUMMary:SDT:COUNt?

Defect
:FETCh:DATA:TELecom:SDT:DEFect?

Verdict
:FETCh:DATA:TELecom:SDT:VERDict?

Latency

:FETCh:DATA:TELecom:ETHernet:STReam:LATency:CURRent?
:FETCh:DATA:TELecom:ETHernet:STReam:LATency:AVERage?
:FETCh:DATA:TELecom:ETHernet:STReam:LATency:MINimum?
:FETCh:DATA:TELecom:ETHernet:STReam:LATency:MAXimum?
:FETCh:DATA:TELecom:ETHernet:STReam:LATency:MAXimum:VERDict?

Summary - EtherSAM

Service Configuration Test
:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:VERDict?
:FETCh:DATA:TELecom:ETHernet:ESAM:SPRTest:VERDict?

Service Performance Test
:FETCh:DATA:TELecom:ETHernet:ESAM:TESTs:STATus?
:FETCh:DATA:TELecom:ETHernet:ESAM:TESTs:VERDict?

Start Time
:FETCh:DATA:TELecom:TEST:STARt:TIME?

Service Configuration Test

VLAN Preservation
:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:VLAN:PREServ?

Frame Loss Rate
:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:FLOSs?
:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:FLOSs:VERDict?

Max Jitter
:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MAXJitter?
:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MAXJitter:VERDict?

Max Latency
:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MLATency?
:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MLATency:VERDict?

Max RX Rate
:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MRXRate?
:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MRXRate:VERDict?

Service Performance Test

VLAN Preservation
:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SERVices:VLAN:PREServ?

Frame Loss Rate

:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRTest:FLOSs?
:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRTest:FLOSs:VERDict?

Max Jitter

:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRTest:MAXJitter?
:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRTest:MAXJitter:VERDict?

Max Latency

:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRTest:MLATency?
:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRTest:MLATency:VERDict?

Average RX Rate

:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRTest:ARXRate?
:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRTest:ARXRate:VERDict?

Summary - FC BERT

Test Status
:FETCh:DATA:TELecom:TEST:STATus?

Verdict
:FETCh:DATA:TELecom:TEST:STATus:VERDict?

Start Time
:FETCh:DATA:TELecom:TEST:STARt:TIME?

Test/Power Recovery
:FETCh:DATA:TELecom:TEST:POWer:RECOvery:COUnt?

Service Disruption

Disruption Time
:FETCh:DATA:TELecom:SDT:LONGest?
:FETCh:DATA:TELecom:SDT:SHORtest?
:FETCh:DATA:TELecom:SDT:LAST?
:FETCh:DATA:TELecom:SDT:AVERage?
:FETCh:DATA:TELecom:SDT:TOTal?

Disruption Count
:FETCh:DATA:TELecom:SDT:COUNt?

SDT Threshold
:SENSe:DATA:TELecom:SDT:THReshold
:SENSe:DATA:TELecom:SDT:THReshold?

Verdict
:FETCh:DATA:TELecom:SDT:VERDict?

Round-Trip Latency

Round-Trip Latency
:FETCh:DATA:TELecom:FIBer:RTLatency:LAST?
:FETCh:DATA:TELecom:FIBer:RTLatency:AVERage?
:FETCh:DATA:TELecom:FIBer:RTLatency:MINimum?

:FETCh:DATA:TELecom:FIBer:RTLatency:MAXimum?
:FETCh:DATA:TELecom:FIBer:RTLatency:SAMPles?
:FETCh:DATA:TELecom:FIBer:RTLatency:THReshold:VERDict?

Estimated BB_Credit
:FETCh:DATA:TELecom:FIBer:STReam:ESTimated:BBCRedit?

Traffic

Line Utilization
:FETCh:DATA:TELecom:FIBer:STReam:LINE:UTILization?

Frame Rate
:FETCh:DATA:TELecom:FIBer:STReam:FRAMe:RATE?

Byte Count
:FETCh:DATA:TELecom:FIBer:STReam:BYTE:COUNt?

Frame Count
:FETCh:DATA:TELecom:FIBer:STReam:FRAMe:COUNt?

Summary - FlexE BERT

Test Status
:FETCh:DATA:TELecom:TEST:STATus?

Start Time
:FETCh:DATA:TELecom:TEST:STARt:TIME?

Test/Power Recovery
:FETCh:DATA:TELecom:TEST:POWer:RECOvery:COUnt?

FlexE Clients

Verdict
:FETCh:DATA:TELecom:FETHernet:CLIent:THReshold:VERDict?

Client ID
:SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier
:SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier?

Size
:SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:ACLient

Link Alarm
:FETCh:DATA:TELecom:ETHernet:ALARm:LRATe:GLOBal:HISTory?
:FETCh:DATA:TELecom:ETHernet:ALARm:LRATe:GLOBal:CURRent?

TX Rate
:SENSe:DATA:TELecom:ETHernet:PACKet:LINE:RATE?

RX Rate
:SENSe:DATA:TELecom:ETHernet:PACKet:LINE:RATE?

RX Frame Count
:SENSe:DATA:TELecom:ETHernet:PACKet:FRAMe:COUNt?

Bit Error Rate
:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:RATE?

Bit Error Count
:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:COUNt?

Path OAM Client

Verdict
:FETCh:DATA:TELecom:FETHernet:POAM:THReshold:VERDict?

Client ID
:SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier
:SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier?

CC Status
:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:RX:CCSTatus?

CV Status
:FETCh:DATA:TELecom:FETHernet:POAM:CVER:RX:CVSTatus?

CS Type Status
:FETCh:DATA:TELecom:FETHernet:POAM:CSIG:RX:CSSTatus?

Max Delay
:FETCh:DATA:TELecom:FETHernet:POAM:DELay:RX:MAXimum?

Summary - FlexE BERT - Client Summary

Test Status
:FETCh:DATA:TELecom:TEST:STATus?

Start Time
:FETCh:DATA:TELecom:TEST:STARt:TIME?

Test/Power Recovery
:FETCh:DATA:TELecom:TEST:POWer:RECOvery:COUnt?

BER

Alarms
:FETCh:DATA:TELecom:PATTern:ALARm:PATTern:SEConds?
:FETCh:DATA:TELecom:PATTern:ALARm:PATTern:HISTory?
:FETCh:DATA:TELecom:PATTern:ALARm:PATTern:CURRent?

Errors
:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:SEConds?
:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:COUNt?
:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:RATE?
:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:HISTory?
:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:CURRent?

BER Threshold
:SENSe:DATA:TELecom:PATTern:THReshold:RATE
:SENSe:DATA:TELecom:PATTern:THReshold:RATE?
:SENSe:DATA:TELecom:PATTern:THReshold:COUNt
:SENSe:DATA:TELecom:PATTern:THReshold:COUNt?

Verdict
:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:THReshold:VERDict?

Inject
See *BER*

Summary - FlexE BERT - Path OAM

Test Status
:FETCh:DATA:TELecom:TEST:STATus?

Verdict
:FETCh:DATA:TELecom:FETHernet:POAM:THReshold:VERDict?

Start Time
:FETCh:DATA:TELecom:TEST:STARt:TIME?

Test/Power Recovery
:FETCh:DATA:TELecom:TEST:POWer:RECOvery:COUnt?

Basic OAM

CC Status
:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:RX:CCSTatus?

Alarms/Errors
Path OAM on page 247.

TX BAS
:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:TX:CCM:COUNt?

RX BAS
:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:RX:CCM:COUNt?

CS Type

Status
:FETCh:DATA:TELecom:FETHernet:POAM:CSIG:RX:CSSTatus?

TX CSM
:FETCh:DATA:TELecom:FETHernet:POAM:CSIG:TX:CSMessage:COUNt?

RX CSM
:FETCh:DATA:TELecom:FETHernet:POAM:CSIG:RX:CSMessage:COUNt?

CS Type

:FETCh:DATA:TELecom:FETHernet:POAM:CSIG:TYPE:REC?
:SENSe:DATA:TELecom:FETHernet:POAM:CSIGnal:TYPE:EXPexted
:SENSe:DATA:TELecom:FETHernet:POAM:CSIGnal:TYPE:EXPexted?

Delay Measurement

Status

:FETCh:DATA:TELecom:FETHernet:POAM:DELay:TX:DSTatus?

TX 2DMM

:FETCh:DATA:TELecom:FETHernet:POAM:DELay:TX:DMM:COUNt?

RX 2DMR

:FETCh:DATA:TELecom:FETHernet:POAM:DELay:RX:DMR:COUNt?

Delay

:FETCh:DATA:TELecom:FETHernet:POAM:DELay:RX:LAST?
:FETCh:DATA:TELecom:FETHernet:POAM:DELay:RX:MAXimum?
:FETCh:DATA:TELecom:FETHernet:POAM:DELay:RX:MINimum?
:FETCh:DATA:TELecom:FETHernet:POAM:DELay:RX:AVERage?

Connectivity Verification

Status

:FETCh:DATA:TELecom:FETHernet:POAM:CVER:RX:CVSTatus?

TX CVM

:FETCh:DATA:TELecom:FETHernet:POAM:CVER:TX:CVM:COUNt?

RX CVM

:FETCh:DATA:TELecom:FETHernet:POAM:CVER:RX:CVM:COUNt?

SAPI

:FETCh:DATA:TELecom:FETHernet:POAM:CVER:SAPI:RECeived?
:SENSe:DATA:TELecom:FETHernet:POAM:CVER:DAPI:EXPexted?

DAPI

:FETCh:DATA:TELecom:FETHernet:POAM:CVER:DAPI:RECeived?
:SENSe:DATA:TELecom:FETHernet:POAM:CVER:DAPI:EXPexted

Summary - FlexO BERT

Test Status
:FETCh:DATA:TELecom:TEST:STATus?

Start Time
:FETCh:DATA:TELecom:TEST:STARt:TIME?

Test/Power Recovery
:FETCh:DATA:TELecom:TEST:POWer:RECOvery:COUnt?

FlexO Group Graphical Representation

Skew (ns)
:FETCh:DATA:TELecom:FOTN:INSTance:SKEW:RX?

Note: *For Alarms/Errors see* FlexO Group / OTUC Frame *on page 220 and* OTUx/OTUCn/OTUC Frame *on page 244.*

BER

Alarms
:FETCh:DATA:TELecom:PATTern:ALARm:PATTern:SEConds?
:FETCh:DATA:TELecom:PATTern:ALARm:PATTern:HISTory?
:FETCh:DATA:TELecom:PATTern:ALARm:PATTern:CURRent?

Errors
:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:SEConds?
:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:COUNt?
:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:RATE?
:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:HISTory?
:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:CURRent?

BER Threshold
:SENSe:DATA:TELecom:PATTern:THReshold:RATE
:SENSe:DATA:TELecom:PATTern:THReshold:RATE?
:SENSe:DATA:TELecom:PATTern:THReshold:COUNt
:SENSe:DATA:TELecom:PATTern:THReshold:COUNt?

Verdict
:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:THReshold:VERDict?

Inject
See *BER* on page 202.

Summary - iOptics

Start Time
:FETCh:DATA:TELecom:TEST:STARt:TIME?

Test Status (displayed next to **Start Time**)
:FETCh:DATA:TELecom:IOPTics:MONitoring:TEST:STATus?

Sub-Test Sequence

I/O Interface Quick Check:
:FETCh:DATA:TELecom:IOPTics:IINTerface:QCHeck:TEST:STATus?
:FETCh:DATA:TELecom:IOPTics:IINTerface:QCHeck:TEST:VERDict?
:FETCh:DATA:TELecom:IOPTics:IINTerface:TYPe:VERDict?
:FETCh:DATA:TELecom:IOPTics:IINTerface:PINS:VERDict?

Optical TX Power Test (dBm)
:FETCh:DATA:TELecom:IOPTics:OTX:PTESt:STATus?
:FETCh:DATA:TELecom:IOPTics:OTX:PTESt:VERDict?
:FETCh:DATA:TELecom:IOPTics:OTX:PTESt:MINimum?
:FETCh:DATA:TELecom:IOPTics:OTX:PTESt:MINimum:VERDict?
:FETCh:DATA:TELecom:IOPTics:OTX:PTESt:MAXimum?
:FETCh:DATA:TELecom:IOPTics:OTX:PTESt:MAXimum:VERDict?

Optical RX Power Test (dBm)
:FETCh:DATA:TELecom:IOPTics:ORX:PTESt:STATus?
:FETCh:DATA:TELecom:IOPTics:ORX:PTESt:VERDict?
:FETCh:DATA:TELecom:IOPTics:ORX:PTESt:MINimum?
:FETCh:DATA:TELecom:IOPTics:ORX:PTESt:MINimum:VERDict?
:FETCh:DATA:TELecom:IOPTics:ORX:PTESt:MAXimum?
:FETCh:DATA:TELecom:IOPTics:ORX:PTESt:MAXimum:VERDict?

Bit Error Test
:FETCh:DATA:TELecom:IOPTics:BERT:STATus?
:FETCh:DATA:TELecom:IOPTics:BERT:VERDict?
:FETCh:DATA:TELecom:IOPTics:BERT:COUNt?
:FETCh:DATA:TELecom:IOPTics:BERT:COUNt:VERDict?
:FETCh:DATA:TELecom:IOPTics:BERT:ALARm:PLOSs?

Excessive Skew Test

:FETCh:DATA:TELecom:IOPTics:SKEW:STATus?
:FETCh:DATA:TELecom:IOPTics:SKEW:VERDict?
:FETCh:DATA:TELecom:IOPTics:SKEW:MAXimum?
:FETCh:DATA:TELecom:IOPTics:SKEW:MAXimum:VERDict?

Monitoring

Power Consumption

:FETCh:DATA:TELecom:IOPTics:MONitoring:POWer:ACTual?
:FETCh:DATA:TELecom:IOPTics:MONitoring:POWer:MAXimum?
:FETCh:DATA:TELecom:IOPTics:MONitoring:CURRent:ACTual?
:FETCh:DATA:TELecom:IOPTics:MONitoring:CURRent:MAXimum?
:FETCh:DATA:TELecom:IOPTics:MONitoring:POWer:VERDict?

Temperature

:FETCh:DATA:TELecom:IOPTics:MONitoring:TEMPerature:ACTual?
:FETCh:DATA:TELecom:IOPTics:MONitoring:TEMPerature:MAXimum?
:FETCh:DATA:TELecom:IOPTics:MONitoring:TEMPerature:VERDict?

Summary - Link OAM

Test Status
:FETCh:DATA:TELecom:TEST:STATus?

Verdict
:FETCh:DATA:TELecom:TEST:STATus:VERDict?

Start Time
:FETCh:DATA:TELecom:TEST:STARt:TIME?

Test/Power Recovery
:FETCh:DATA:TELecom:TEST:POWer:RECOvery:COUnt?

Alarms

:FETCh:DATA:TELecom:LOAM:ALARm:HISTory?
:FETCh:DATA:TELecom:LOAM:ALARm:CURRent?
:FETCh:DATA:TELecom:LOAM:ALARm:SEConds?

OAMPDU Frame Count

:FETCh:DATA:TELecom:LOAM:FRAMe:COUNt:TX?
:FETCh:DATA:TELecom:LOAM:FRAMe:COUNt:RX?

Loopback

:FETCh:DATA:TELecom:LOAM:LBACk:STATus:SUCCessful?
:FETCh:DATA:TELecom:LOAM:LBACk:STATus:FAILed?

Summary - Multi-Channel OTN

Test Status
:FETCh:DATA:TELecom:TEST:STATus?

Start Time
:FETCh:DATA:TELecom:TEST:STARt:TIME?

Test/Power Recovery
:FETCh:DATA:TELecom:TEST:POWer:RECOvery:COUnt?

Note: *See Alarms/Errors for more information.*

Summary - NI/CSU Emulation

Test Status
:FETCh:DATA:TELecom:TEST:STATus?

Verdict
:FETCh:DATA:TELecom:TEST:STATus:VERDict?

Start Time
:FETCh:DATA:TELecom:TEST:STARt:TIME?

Auto-Response Loopback Status
:FETCh:DATA:TELecom:DSN:LOOPback:STATus?

Summary - RFC 2544

Subtest Status
:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:TSTate?
:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:TSTate?
:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:TSTate?
:FETCh:DATA:TELecom:ETHernet:RFC:LATency:TSTate?

Elapsed Time
:FETCh:DATA:TELecom:ETHernet:RFC:LATency:TETime?
:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:TETime?
:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:TETime?
:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:TETime?

TX Frames
:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:FCOunt:TX?
:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:FCOunt:TX?
:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:FCOunt:TX?
:FETCh:DATA:TELecom:ETHernet:RFC:LATency:FCOunt:TX?

RX Frames
:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:FCOunt:RX?
:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:FCOunt:RX?
:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:FCOunt:RX?
:FETCh:DATA:TELecom:ETHernet:RFC:LATency:FCOunt:RX?

Trial #
:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:CTRial?
:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:CTRial?
:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:CTRial?
:FETCh:DATA:TELecom:ETHernet:RFC:LATency:CTRial?

Val. #
:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:VALidation?

Step
:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:CSTep?

Start Time
:FETCh:DATA:TELecom:TEST:STARt:TIME?

Test/Power Recovery
:FETCh:DATA:TELecom:TEST:POWer:RECOvery:COUnt?

Results per frame
:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:SMESsage?
:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:SMESsage?
:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:SMESsage?
:FETCh:DATA:TELecom:ETHernet:RFC:LATency:SMESsage?

:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:TRESults[1..n]?
:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:BBResults[1..n]?
:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:FRESults[1..n]?
:FETCh:DATA:TELecom:ETHernet:RFC:LATency:LRESults[1..n]?

Verdict
:FETCh:DATA:TELecom:ETHernet:RFC:SUMMary:THReshold:VERDict?
:FETCh:DATA:TELecom:ETHernet:RFC:GLOBal:THReshold:VERDict?

Summary - RFC 6349

Test Status
:FETCh:DATA:TELecom:TEST:STATus?

Verdict
:FETCh:DATA:TELecom:TEST:STATus:VERDict?

Start Time
:FETCh:DATA:TELecom:TEST:STARt:TIME?

Test/Power Recovery
:FETCh:DATA:TELecom:TEST:POWer:RECOvery:COUnt?

MTU
:FETCh:DATA:TELecom:ETHernet:RFC:MTU?

Minimum RTT
:FETCh:DATA:TELecom:ETHernet:RFC:MINimum:RTT?

Active Connections
:FETCh:DATA:TELecom:ETHernet:RFC:ACTConnections?

Connection Details
:FETCh:DATA:TELecom:ETHernet:RFC:CDETails?

Window Sweep

Actual L4
:FETCh:DATA:TELecom:ETHernet:RFC:WINDow:SWEep:ACTUal:L?

Verdict
:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:ACTUal:L:VERDict?

TCP Throughput (RFC 6349 DTS)

Window / Window Boost
:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:WINDow?

Ideal L4
:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:IDEal:L?

Actual L4
:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:ACTUal:L?

TCP Efficiency
:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:TCP:EFFiciency?

Buffer Delay
:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:BUFFer:DELay?

Recommended Window Boost
:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:RWBoost?

Apply and Start
:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:RWBoost:APPLy

Threshold
:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:THReshold?

TCP Throughput (TCP Throughput DTS)

Current L4
:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:CURRent:L?

Current CWND
:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:CCWNd?

Current RTT
:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:CURRent:RTT?

Ideal L4
:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:IDEal:L?

Actual L4
:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:ACTUal:L?

Threshold
:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:THReshold?

Max CWND
:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:MCWNd?

Min RTT
:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:MINimum:RTT?

Max RTT

:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:MAXimum:RTT?

Average RTT

:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:AVERage:RTT?

Nb of Connections

:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:NOFConn?

TCP Efficiency

:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:TCP:EFFiciency?

Summary - Smart Loopback

Test Status
:FETCh:DATA:TELecom:TEST:STATus?

Verdict
:FETCh:DATA:TELecom:TEST:STATus:VERDict?

Start Time
:FETCh:DATA:TELecom:TEST:STARt:TIME?

Test/Power Recovery
:FETCh:DATA:TELecom:TEST:POWer:RECOvery:COUnt?

Traffic

Refer to *Traffic - Ethernet* on page 618.

Summary - S-OAM and MPLS-TP OAM

Test Status
:FETCh:DATA:TELecom:TEST:STATus?

Verdict
:FETCh:DATA:TELecom:TEST:STATus:VERDict?

Start Time
:FETCh:DATA:TELecom:TEST:STARt:TIME?

Test/Power Recovery
:FETCh:DATA:TELecom:TEST:POWer:RECOvery:COUnt?

Continuity Check (Peer MEP)

Status
:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:STATus?

TX CCM
:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:TX:CCM:COUNt?

RX CCM
:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:RX:CCM:COUNt?

MEG ID
:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MEG:ID:CCM?
:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MEG:ID:FORMat?

MEG Level
:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MEG:LEVel:CCM?

MEP ID
:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MEP:ID:CCM?

Period
:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:PERiod:CCM?

Domain ID
:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:DOMain:ID:CCM?
:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:DOMain:ID:FORMat?

MA Name
:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MA:NAMe:CCM?
:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MA:NAMe:FORMat?

MD Level
:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MD:LEVel:CCM?

Loopback / Test / Frame Delay / Frame Loss / Synthetic Loss

RX Line Utilization
:FETCh:DATA:TELecom:SOAM:SUMMary:LOOPback:RX:LINe:UTILization?

TST RX Rate
:FETCh:DATA:TELecom:SOAM:SUMMary:TEST:RX:TST:RATE?

Summary

Frame Delay
:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:FDELay:MEASurement?

Frame Loss
:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:FLOSs:MEASurement?

Synthetic Loss
:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:SLOSs:MEASurement?

Loopback
:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:LOOPback?

Test
:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:TEST?

Frame Delay (Maximum)
:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:FDELay:MAXimum?

Frame Loss Ratio
:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:FLOSs:RATio?

Synthetic Loss Ratio
:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:SLOSs:RATio?

Summary - SyncE

Test Status
:FETCh:DATA:TELecom:TEST:STATus?

Verdict
:FETCh:DATA:TELecom:TEST:STATus:VERDict?

Start Time
:FETCh:DATA:TELecom:TEST:STARt:TIME?

Test/Power Recovery
:FETCh:DATA:TELecom:TEST:POWer:RECOvery:COUnt?

ESMC

ESMC RX Rate
:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXRate?
:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:FRAMes:AVERage?
:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:FRAMes:MINimum?
:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:FRAMes:MAXimum?

RX

Last QL Message
:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXLast:QLMessage?

Last Change
:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXLast:CHANge?

Information Count
:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXINfo?

Event Count
:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXEvent:COUNt?

QL Mismatch Frame Count
:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXQLmismatch:FRAMes:COUNt?

TX

QL Message

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:TXLast:QLMessage?

Last Change

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:TXLast:CHANge?

Information Count

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:TXINfo?

Event Count

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:TXEvent:COUNt?

Summary - TCP Throughput

Test Status
:FETCh:DATA:TELecom:TEST:STATus?

Verdict
:FETCh:DATA:TELecom:TEST:STATus:VERDict?

Start Time
:FETCh:DATA:TELecom:TEST:STARt:TIME?

Test/Power Recovery
:FETCh:DATA:TELecom:TEST:POWer:RECOvery:COUnt?

TCP Throughput

TCP Connection Status
:FETCh:DATA:TELecom:ETHernet:TCP:CONNection:STATus?

Transmitted Frames
:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:TTFRames?

Re-Transmitted Frames
:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:TRTFrames?

Efficiency
:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:EFFiciency?

Throughput Threshold
:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput:MAXimum:VERDict?

TCP Throughput
:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput:LAST?
:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput:MINimum?
:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput:MAXimum?
:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput:AVERage?

Window Size
:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:WINDsize:LAST?
:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:WINDsize:MINimum?
:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:WINDsize:MAXimum?

Round Trip Latency

:FETCh:DATA:TELecom:ETHernet:RTD:TIME:LAST?
:FETCh:DATA:TELecom:ETHernet:RTD:TIME:MINimum?
:FETCh:DATA:TELecom:ETHernet:RTD:TIME:MAXimum?
:FETCh:DATA:TELecom:ETHernet:RTD:TIME:AVERage?

Summary - Through Mode

Test Status
:FETCh:DATA:TELecom:TEST:STATus?

Verdict
:FETCh:DATA:TELecom:TEST:STATus:VERDict?

Start Time
:FETCh:DATA:TELecom:TEST:STARt:TIME?

Test/Power Recovery
:FETCh:DATA:TELecom:TEST:POWer:RECOvery:COUnt?

Traffic

Note: *Refer to* Traffic - Ethernet *on page 618.*

Summary - Traffic Gen & Mon

Test Status
:FETCh:DATA:TELecom:TEST:STATus?

Verdict
:FETCh:DATA:TELecom:TEST:STATus:VERDict?

Start Time
:FETCh:DATA:TELecom:TEST:STARt:TIME?

Test/Power Recovery
:FETCh:DATA:TELecom:TEST:POWer:RECOvery:COUnt?

:FETCh:DATA:TELecom:ETHernet:STReam:LATency:STATus:TIME?

Note: *See* Stream (Summary) *for stream statistics.*

Traces - OTN

Standard or T.50 Control Characters for Trace Message Commands

:SOURce:DATA:TELecom:ControlCHAracter:MODE
:SOURce:DATA:TELecom:ControlCHAracter:MODE?

SM TTI Traces

SAPI
- Received Message
:FETCh:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:OTU[1..n]:F:TTI:SAPI:B?

- Expected Message
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:EXPected
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:EXPected?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:EXPected
:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:EXPected?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:SAPI:EXPected
:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:SAPI:EXPected?

- Copy RX
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:COPYrx

:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:COPY

:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:SAPI:COPY

DAPI
- Received Message
:FETCh:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:B?

:FETCh:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:B?

:FETCh:DATA:TELecom:OTN:OTU[1..n]:F:TTI:DAPI:B?

- Expected Message
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:EXPected
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:EXPected?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXPECTED
:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXPected?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:DAPI:EXPected
:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:DAPI:EXPected?

- Copy RX
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:COPYrx

:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:COPY

:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:DAPI:COPY

Operator Specific
- Received Message
:FETCh:DATA:TELecom:OTN:OTU[1..n]:TTI:OPSPec:B?

:FETCh:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:OPSPec:B?

:FETCh:DATA:TELecom:OTN:OTU[1..n]:F:TTI:OPSPec:B?

SAPI/DAPI OTU-TIM
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM
:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:TIM
:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:TIM?

PM TTI Traces

Channel selection for Multi-Channel OTN
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHAnnel
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHAnnel?
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel?

SAPI
- Received Message
:FETCh:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TTI:SAPI:B?

- Expected Message
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:SAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:SAPI:EXPected?

Copy RX
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:COPYrx

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:COPY

:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:SAPI:COPY

DAPI
- Received Message
:FETCh:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TTI:DAPI:B?

- Expected Message
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:DAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:DAPI:EXPected?

- Copy RX

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:COPYrx

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:COPY

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:DAPI:COPY

Operator Specific
- Received Message

:FETCh:DATA:TELecom:OTN:ODU[1..n]:TTI:OPSPec:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:OPSPec:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TTI:OPSPec:B?

SAPI/DAPI ODU-TIM
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIM
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:TIM
:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:TIM
:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:TIM?

ODU - ODU TCM TTI Traces

SAPI
- Received Message
:FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:B?

- Expected Message
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:EXPected?

- Copy RX
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:COPYrx

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:COPY

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:COPY

DAPI
- Received Message
:FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI:B?

- Expected Message
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI:EXPected?

- Copy RX
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:COPYrx

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:COPY

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI:COPY

Operator Specific
- Received Message
:FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:OPSPec:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:OPSPec:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:OPSPec:B?

SAPI/DAPI TCM-TIM

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:TIM
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:TIM
:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:TIM
:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:TIM?

Traces - SONET/SDH

Standard or T.50 Control Characters for Trace Message Commands

:SOURce:DATA:TELecom:ControlCHAracter:MODE
:SOURce:DATA:TELecom:ControlCHAracter:MODE?

Traces

Section/RS (J0)
- Received
:FETCh:DATA:TELecom:SDHSonet:SOVerhead:J[1..n]:TIM:PATTern:RECeived?

STS/AU Path (J1)
- Received
:FETCh:DATA:TELecom:SDHSonet:POVerhead:J[1..n]:TIM:PATTern:RECeived?

VT/TU Path (J2) and **TU Path (J1)**
- Received
:FETCh:DATA:TELecom:SDHSonet:LOP:OVERhead:J[1..n]:TIM:PATTern:RECeived?

TIM-S/RS-TIM
- Enable
:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM
:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM?

- Format
:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern
:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern?

- Expected
:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern:B
:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern:B?

- Copy RX
:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:COPYrx

TIM-P/HP-TIM
- Enable
:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM
:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM?

- **Format**
:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PATTern
:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PATTern?

- **Expected**
:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PATTern:B
:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PATTern:B?

- **Copy RX**
:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:COPYrx

TIM-V/LP-TIM
- Enable
:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM
:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM?

- **Format**
:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM:PATTern
:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM:PATTern?

- **Expected**
:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM:PATTern:B
:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM:PATTern:B?

- **Copy RX**
:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM:COPY

TCM Access Point Identifier

STS/AU Path (N1)
- **Received**
:FETCh:DATA:TELecom:SDHSonet:HOP:TCAPident:N[1..n]:RECeived?

- Expected
:SENSe:DATA:TELecom:SDHSonet:HOP:TCAPident:EXPected
:SENSe:DATA:TELecom:SDHSonet:HOP:TCAPident:EXPected?

- Enable
:SENSe:DATA:TELecom:SDHSonet:HOP:TCAPident:TCTim
:SENSe:DATA:TELecom:SDHSonet:HOP:TCAPident:TCTim?

- Copy RX
:SENSe:DATA:TELecom:SDHSonet:HOP:TCAPident:COPY

VT/TU Path (Z6 or N1 (TU-3))
- Received
:FETCh:DATA:TELecom:SDHSonet:LOP:TCAPident:N[1..n]:RECeived?

- Expected
:SENSe:DATA:TELecom:SDHSonet:LOP:TCAPident:EXPected
:SENSe:DATA:TELecom:SDHSonet:LOP:TCAPident:EXPected?

- Enable
:SENSe:DATA:TELecom:SDHSonet:LOP:TCAPident:TCTim
:SENSe:DATA:TELecom:SDHSonet:LOP:TCAPident:TCTim?

- Copy RX
:SENSe:DATA:TELecom:SDHSonet:LOP:TCAPident:COPY

Traces/PT - FlexO

Standard or T.50 Control Characters for Trace Message Commands

:SOURce:DATA:TELecom:ControlCHAracter:MODE
:SOURce:DATA:TELecom:ControlCHAracter:MODE?

SM TTI Traces

SAPI
- Received Message
:FETCh:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:B?

- Expected Message
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:EXPected
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:EXPected?

- Copy RX
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:COPYrx

DAPI
- Received Message
:FETCh:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:B?

- Expected Message
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:EXPected
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:EXPected?

- Copy RX
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:COPYrx

Operator Specific
- Received Message
:FETCh:DATA:TELecom:OTN:OTU[1..n]:TTI:OPSPec:B?

SAPI/DAPI OTU-TIM
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM
:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM?

PM TTI Traces

Client ID selection for ODUk
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLIent
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLIent?
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACLient
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACLient?

SAPI
- Received Message
:FETCh:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:B?

- Expected Message
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPected?

Copy RX
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:COPYrx

DAPI
- Received Message
:FETCh:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:B?

- Expected Message
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPected
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPected?

- Copy RX
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:COPYrx

Operator Specific
- Received Message
:FETCh:DATA:TELecom:OTN:ODU[1..n]:TTI:OPSPec:B?

SAPI/DAPI ODU-TIM
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIM
:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIM?

PT

Client ID selection for ODUk
:SENSe:DATA:TELecom:OTN:OPU[1..n]:CLIent
:SENSe:DATA:TELecom:OTN:OPU[1..n]:CLIent?
:SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLient
:SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLient?

Payload Type
:FETCh:DATA:TELecom:OTN:OPU[1..n]:PTYPe:RECeived?
:SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe
:SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe?

Code
:FETCh:DATA:TELecom:OTN:OPU[1..n]:PCODe:RECeived?
:SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe
:SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe?

OPU-PLM
:SENSe:DATA:TELecom:OTN:OPU[1..n]:PLM
:SENSe:DATA:TELecom:OTN:OPU[1..n]:PLM?

Copy RX
:SENSe:DATA:TELecom:OTN:OPU[1..n]:COPYrx

Traffic - Ethernet

Client ID

:SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier
:SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier?

Size

:SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:CONFig?

Link

:SOURce:DATA:TELecom:LINK
:SOURce:DATA:TELecom:LINK

Total TX/RX

Line Utilization
:SENSe:DATA:TELecom:ETHernet:PACKet:LINE:UTILization?

Ethernet BW
:SENSe:DATA:TELecom:ETHernet:PACKet:BANDwidth?

Frame Rate
:SENSe:DATA:TELecom:ETHernet:PACKet:FRAMe:RATE?

Frame Count
:SENSe:DATA:TELecom:ETHernet:PACKet:FRAMe:COUNt?

Frame Type

RX Count
:SENSe:DATA:TELecom:ETHernet:FRAMe:COUNt:RX?

TX Count
:SOURce:DATA:TELecom:ETHernet:FRAMe:COUNt:TX?

Frame Size

RX Count
:SENSe:DATA:TELecom:ETHernet:FSIZe:COUNt?
Total

%
:SENSe:DATA:TELecom:ETHernet:FSIZe:PERCentage?

Traffic - Flow Control

Frame Count

Pause Frames
:FETCh:DATA:TELecom:ETHernet:PAUSe:FRAMes?

Abort Frames
:FETCh:DATA:TELecom:ETHernet:PAUSe:FRAMes:ABORt?

Total Frames
:FETCh:DATA:TELecom:ETHernet:PAUSe:FRAMes:TX?
:FETCh:DATA:TELecom:ETHernet:PAUSe:FRAMes:RX?

Pause Time

:FETCh:DATA:TELecom:ETHernet:PACKet:PAUSe:TIME:RX?

Pause Injection

Packet Pause Time
:SOURce:DATA:TELecom:ETHernet:PACKet:PAUSe:TIME
:SOURce:DATA:TELecom:ETHernet:PACKet:PAUSe:TIME?

Inject
:SOURce:DATA:TELecom:ETHernet:PACKet:PAUSe:INJect
:SOURce:DATA:TELecom:ETHernet:PACKet:PAUSe:INJect

Destination MAC Address
:SOURce:DATA:TELecom:ETHernet:PINJection:MAC:DESTination:ADDRess:ENABle
:SOURce:DATA:TELecom:ETHernet:PINJection:MAC:DESTination:ADDRess:ENABle?
:SOURce:DATA:TELecom:ETHernet:PINJection:MAC:DESTination:ADDRess
:SOURce:DATA:TELecom:ETHernet:PINJection:MAC:DESTination:ADDRess?

Traffic - OAM, S-OAM, and MPLS-TP OAM

TX Count

:FETCh:DATA:TELecom:SOAM:TRAFfic:TX:COUNt?
:FETCh:DATA:TELecom:SOAM:TRAFfic:TX:TOTal?

RX Count

:FETCh:DATA:TELecom:SOAM:TRAFfic:RX:COUNt?
:FETCh:DATA:TELecom:SOAM:TRAFfic:RX:TOTal?

Responder

TX Count

:FETCh:DATA:TELecom:SOAM:TRAFfic:RESPonder:TX:COUNt?
:FETCh:DATA:TELecom:SOAM:TRAFfic:RESPonder:TX:TOTal?

RX Count

:FETCh:DATA:TELecom:SOAM:TRAFfic:RESPonder:RX:COUNt?
:FETCh:DATA:TELecom:SOAM:TRAFfic:RESPonder:RX:TOTal?

Traffic - Path OAM

BAS
:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:TX:CCM:COUNt?
:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:RX:CCM:COUNt?

CVM
:FETCh:DATA:TELecom:FETHernet:POAM:CVER:TX:CVM:COUNt?
:FETCh:DATA:TELecom:FETHernet:POAM:CVER:RX:CVM:COUNt?

APS
:FETCh:DATA:TELecom:FETHernet:POAM:APS:TX:MESSage:COUNt?
:FETCh:DATA:TELecom:FETHernet:POAM:APS:RX:MESSage:COUNt?

2DMM
:FETCh:DATA:TELecom:FETHernet:POAM:DELay:TX:DMM:COUNt?

2DMR
:FETCh:DATA:TELecom:FETHernet:POAM:DELay:RX:DMR:COUNt?

CSM
:FETCh:DATA:TELecom:FETHernet:POAM:CSIG:TX:CSMessage:COUNt?
:FETCh:DATA:TELecom:FETHernet:POAM:CSIG:RX:CSMessage:COUNt?

Responder

2DMR
:FETCh:DATA:TELecom:FETHernet:POAM:RESPonder:TX:DMR:COUNt?

2DMM
:FETCh:DATA:TELecom:FETHernet:POAM:RESPonder:RX:DMM:COUNt?

WIS

Standard or T.50 Control Characters for Trace Message Commands
:SOURce:DATA:TELecom:ControlCHAracter:MODE
:SOURce:DATA:TELecom:ControlCHAracter:MODE?

Path Signal Label (C2)
:SENSe:DATA:TELecom:ETHernet:WIS:PATH:LABel?

J0/J1 Trace
:SENSe:DATA:TELecom:ETHernet:WIS:TRACe?

7 SCPI Command List - Functions

Note: *The symbol ‖ precedes a parallel interface command when a different command is used for a serial interface.*

Note: *For **Dual Port** topology or multi-port test (FlexE/FlexO) use the following command to select the port for subsequent commands/queries:*
:SOURce:DATA:TELecom:PORT

List of Pages

40/100/400G Advanced - CFP4/CFP8/OSFP/QSFP Control

Port (FlexE)

:SOURce:DATA:TELecom:PORT
:SOURce:DATA:TELecom:PORT?

FlexE PHY Number (FlexE)

:SOURce:DATA:TELecom:FETHernet:GROup:PNUMber?

Power Class

:SOURce:DATA:TELecom:CFP:CPWR?
:SOURce:DATA:TELecom:OSFP:CPWR?
:SOURce:DATA:TELecom:QSFP:CPWR?

Control Pins

Check boxes
:SOURce:DATA:TELecom:CFP:CSETting
:SOURce:DATA:TELecom:CFP:CSETting?
:SOURce:DATA:TELecom:OSFP:CSETting
:SOURce:DATA:TELecom:OSFP:CSETting?
:SOURce:DATA:TELecom:QSFP:CSETting
:SOURce:DATA:TELecom:QSFP:CSETting?

Status Pins

:SOURce:DATA:TELecom:CFP:STATus?
:SENSe:DATA:TELecom:CFP:TX:STATus?
:SOURce:DATA:TELecom:OSFP:STATus?
:SOURce:DATA:TELecom:QSFP:STATus?

MDIO/I2C Access Interface

Device Address
NEW *:SOURce:DATA:TELecom:MDIO:DEVice:ADDRess*
NEW *:SOURce:DATA:TELecom:MDIO:DEVice:ADDRess?*

Page Select
:SOURce:DATA:TELecom:MDIO:PGSelect
:SOURce:DATA:TELecom:MDIO:PGSelect?

Bulk Write button
Refer to *Bulk Write* on page 403.

MDIO Start Address
:SOURce:DATA:TELecom:MDIO:STARt:ADDRess
:SOURce:DATA:TELecom:MDIO:STARt:ADDRess?

MDIO End Address
:SOURce:DATA:TELecom:MDIO:END:ADDRess
:SOURce:DATA:TELecom:MDIO:END:ADDRess?

Bulk Read button
Refer to *Bulk Read* on page 403.

MDIO Address
:SOURce:DATA:TELecom:MDIO:ADDRess
:SOURce:DATA:TELecom:MDIO:ADDRess?

MDIO Data
:SOURce:DATA:TELecom:MDIO:DATA
:SOURce:DATA:TELecom:MDIO:DATA?

Read Button
:SOURce:DATA:TELecom:MDIO:READ

Write Button
:SOURce:DATA:TELecom:MDIO:WRITe

40/100/400G Advanced - Lanes Mapping & Skew

RX Skew
:SENSe:DATA:TELecom:OTN:OTL:RX?

Default/Random/Manual Mapping button
:SOURce:DATA:TELecom:OTN:OTL:MAPPing:DEFault
:SOURce:DATA:TELecom:OTN:OTL:MAPPing:RANDom
:SOURce:DATA:TELecom:OTN:OTL:MAPPing:MANual

:SOURce:DATA:TELecom:ETHernet:LLAYer:MAPPing:DEFault
:SOURce:DATA:TELecom:ETHernet:LLAYer:MAPPing:RANDom
:SOURce:DATA:TELecom:ETHernet:LLAYer:MAPPing:MANUal

Note: *See Manual Mapping.*

Reset Skew button
:SOURce:DATA:TELecom:OTN:OTL:SKEW:RESet

:SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:RESet

Note: *See Manual Skew.*

Skew Alarm Threshold
:SOURce:DATA:TELecom:OTN:OTL:THReshold
:SOURce:DATA:TELecom:OTN:OTL:THReshold?

Default button
:SOURce:DATA:TELecom:OTN:OTL:THReshold:DEFault

APS

TX

Switching Mode
:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:SMODe
:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:SMODe?

K1 Request
:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:REQuest
:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:REQuest?
:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:REQuest
:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:REQuest?

K1 Channel
:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel
:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel?

K1 Destination Node Id
:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:DNODe
:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:DNODe?

K2 Protected Channel
:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:PCHannel
:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:PCHannel?

K2 Architecture
:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:ARCHitecture
:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:ARCHitecture?

K2 Operation Mode
:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:OMODe
:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:OMODe?
:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:OMODe
:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:OMODe?

K2 Source Node Id
:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:SNODe
:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:SNODe?

K2 Bridge Request

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:BREQuest
:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:BREQuest?

RX

Switching Mode

:SENSe:DATA:TELecom:SDHSonet:ADVanced:APS:SMODe
:SENSe:DATA:TELecom:SDHSonet:ADVanced:APS:SMODe?

K1 Request

:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:REQuest?
:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:REQuest?

K1 Channel

:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel?

K1 Destination Node Id

:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:DNODe?

K2 Protected Channel

:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:PCHannel?

K2 Architecture

:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:ARCHitecture?

K2 Operation Mode

:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:OMODe?
:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:OMODe?

K2 Source Node Id

:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:SNODe?

K2 Bridge Request

:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:BREQuest?

Client Offset

TX Frequency

Frequency
:FETCh:DATA:TELecom:ETHernet:COFFset:FREQuency?

Offset
:SOURce:DATA:TELecom:ETHernet:COFFset:FREQuency:ENABle
:SOURce:DATA:TELecom:ETHernet:COFFset:FREQuency:ENABle?
:SOURce:DATA:TELecom:ETHernet:COFFset:FREQuency:OFFSet
:SOURce:DATA:TELecom:ETHernet:COFFset:FREQuency:OFFSet?

RX Frequency

Frequency
:SENSe:DATA:TELecom:ETHernet:COFFset:CONFig:EFRequency?

Offset, Max Negative Offset, Max Positive Offset
:SENSe:DATA:TELecom:ETHernet:COFFset:FREQuency?

Frequency Offset Analysis
:SENSe:DATA:TELecom:ETHernet:COFFset:CONFig:FOANalysis:ENABle
:SENSe:DATA:TELecom:ETHernet:COFFset:CONFig:FOANalysis:ENABle?

FDL - Bit-Oriented Message

Generated Messages

Priority - Codeword
:SOURce:DATA:TELecom:DSN:FDL:PRIority:CODeword
:SOURce:DATA:TELecom:DSN:FDL:PRIority:CODeword?
Inject
:SOURce:DATA:TELecom:DSN:FDL:MANual:INJect
:SOURce:DATA:TELecom:DSN:FDL:MANual:INJect?

Command/Response
Codeword
:SOURce:DATA:TELecom:DSN:FDL:RESPonse:CODeword
:SOURce:DATA:TELecom:DSN:FDL:RESPonse:CODeword?
Amount
:SOURce:DATA:TELecom:DSN:FDL:RESPonse:AMOunt
:SOURce:DATA:TELecom:DSN:FDL:RESPonse:AMOunt?
Inject
:SOURce:DATA:TELecom:DSN:FDL:RESPonse:INJect

Received Messages

Priority
:FETCh:DATA:TELecom:DSN:FDL:PRIority:MESSage?

Command/Response
:FETCh:DATA:TELecom:DSN:FDL:RESPonse:CONTrol?

FDL - Performance Report Message

Generated Messages

Circuit
:SOURce:DATA:TELecom:DSN:FDL:CHANnel:TYPE
:SOURce:DATA:TELecom:DSN:FDL:CHANnel:TYPE?

ANSI TI.403
:SOURce:DATA:TELecom:DSN:FDL:ANSI
:SOURce:DATA:TELecom:DSN:FDL:ANSI?

Continuous
:SOURce:DATA:TELecom:DSN:FDL:MODE
:SOURce:DATA:TELecom:DSN:FDL:MODE?

Single
:SOURce:DATA:TELecom:DSN:FDL:INJect

PRM Bit Events
:SOURce:DATA:TELecom:DSN:FDL:BITevents:STATus
:SOURce:DATA:TELecom:DSN:FDL:BITevents:STATus?

Event Count
:FETCh:DATA:TELecom:DSN:FDL:EVENtcount?

Received Messages

Link Activity
:FETCh:DATA:TELecom:DSN:FDL:LINK?

PRM Bit Events (**Event Counts** button)
:FETCh:DATA:TELecom:DSN:FDL:BITevents?

Performance Information (**Report Content** button)
:FETCh:DATA:TELecom:DSN:FDL:REPortcont?

Circuit
:FETCh:DATA:TELecom:DSN:FDL:CIRCuit?

Valid Event Count
:FETCh:DATA:TELecom:DSN:FDL:VALid:EVENtcount?

FEAC

Generated Messages

Alarms/Status and Unassigned
:SOURce:DATA:TELecom:DSN:FEAC:CODeword
:SOURce:DATA:TELecom:DSN:FEAC:CODeword?
:SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOunt
:SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOunt?
Inject - Manual Mode
:SOURce:DATA:TELecom:DSN:FEAC:MANual:INJect
Inject - Continuous Mode
:SOURce:DATA:TELecom:DSN:FEAC:CONTinuous
:SOURce:DATA:TELecom:DSN:FEAC:CONTinuous?

Loopback Commands
Control
:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:CODeword
:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:CODeword?
:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:AMOunt
:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:AMOunt?
Channel
:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:CODeword
:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:CODeword?
:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:AMOunt
:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:AMOunt?
Inject
:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:INJect

Received Messages

Link Activity
:FETCh:DATA:TELecom:DSN:FEAC:LINK?

Alarms/Status and Unassigned
:FETCh:DATA:TELecom:DSN:FEAC:MESSage?

Loopback Commands
:FETCh:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol?
:FETCh:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel?

Filters

Enable
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer?

Enabled Time
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:ENABled:TIME?

Filter Configuration

(
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:OPEN
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:OPEN?

Not
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator:NOT
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator:NOT?

)
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:CLOSe
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:CLOSe?

Oper.
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:OPERator?

Filter
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TYPE?

Value and **Mask**
IPv4 Destination Address
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:IP
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:IP?
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:IP
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:IP?
Frame Format
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:FRAMe:FORMat

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:FRAMe:FORMat?

MAC Destination Address

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:MAC
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:MAC?
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:MAC
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:MAC?

UDP Destination Port

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:UDP
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:UDP?
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:UDP
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:UDP?

TCP Destination Port

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:TCP
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:TCP?
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:TCP
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:TCP?

IPv4 DiffServ

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DSERvices
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DSERvices?
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DSERvices
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DSERvices?

IPv4 Precedence

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:PRECedence
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:PRECedence?
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:PRECedence
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:PRECedence?

IPv4 Source Address

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IP
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IP?
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IP
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IP?

MAC Source Address

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:MAC
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:MAC?
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:MAC

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:MAC?

UDP Source Port

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:UDP
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:UDP?
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:UDP
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:UDP?

TCP Source Port

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:TCP
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:TCP?
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:TCP
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:TCP?

IPv4 TOS

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TOS
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TOS?
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:TOS
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:TOS?

S-VLAN/E-VLAN/C-VLAN ID

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID?
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:ID
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:ID?

S-VLAN/E-VLAN/C-VLAN Priority

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRIority
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRIority?
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:PRIority
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:PRIority?

IPv4 Protocol

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:IPPRotocol
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:IPPRotocol?
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:IPPRotocol
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:IPPRotocol?

EtherType

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:ETHertype
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:ETHertype?
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:ETHertype

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:ETHertype?

IPv6 Destination Address

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:IPVersion
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:IPVersion?
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:IPVersion
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:IPVersion?

IPv6 Source Address

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IPVersion
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IPVersion?
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IPVersion
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IPVersion?

IPv6 Flow Label

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:FLABel:IPVersion
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:FLABel:IPVersion?
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:FLABel:IPVersion
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:FLABel:IPVersion?

IPv6 Next Header

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:NHEader:IPVersion
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:NHEader:IPVersion?
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:NHEader:IPVersion
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:NHEader:IPVersion?

IPv6 DiffServ

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DSERvices:IPVersion
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DSERvices:IPVersion?
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DSERvices:IPVersion
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DSERvices:IPVersion?

IPv6 Precedence

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:PRECedence:IPVersion
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:PRECedence:IPVersion?
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:PRECedence:IPVersion
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:PRECedence:IPVersion?

IPv6 TOS

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TOS:IPVersion
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:TOS:IPVersion?
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:TOS:IPVersion

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:TOS:IPVersion?

MPLS Label x

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MLABel[1..n]
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MLABel[1..n]?
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:MLABel[1..n]
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:MLABel[1..n]?

MPLS COS x

:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MCOS[1..n]
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MCOS[1..n]?
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:MCOS[1..n]
:SENSe:DATA:TELecom:ETHernet:STReam:FILTer:MASK:MCOS[1..n]?

Filter Statistics

Line Utilization
:SENSe:DATA:TELecom:ETHernet:FILTer:FRAMe:UTILization?

Ethernet BW
:SENSe:DATA:TELecom:ETHernet:FILTer:FRAMe:BANDwidth?

Frame Rate
:SENSe:DATA:TELecom:ETHernet:FILTer:FRAMe:RATE?

Frame Count
:SENSe:DATA:TELecom:ETHernet:FILTer:FRAMe:COUNt?

Error Count
:SENSe:DATA:TELecom:ETHernet:FILTer:STATistics?

FlexE Advanced

RX Skew
:FETCh:DATA:TELecom:FETHernet:PHY:SKEW:RX?

RX PHY
:FETCh:DATA:TELecom:FETHernet:GROup:PNUMber:RX?

Alarms/Errors
Refer to *PHYs/Instances (FlexE - Group)* on page 250.

Reset/Manual Skew button
Refer to *Reset/Manual Skew* on page 433.

PHY Skew Alarm Threshold (ns)
:SOURce:DATA:TELecom:FETHernet:PHY:SKEW:THReshold
:SOURce:DATA:TELecom:FETHernet:PHY:SKEW:THReshold?
Default
:SOURce:DATA:TELecom:FETHernet:PHY:SKEW:THReshold:RESet

OH BERT

OH BERT

:SOURce:DATA:TELecom:OTN:GCC:OBERt
:SOURce:DATA:TELecom:OTN:GCC:OBERt?

Mode

:SOURce:DATA:TELecom:OTN:GCC:MODE
:SOURce:DATA:TELecom:OTN:GCC:MODE?

Invert PRBS15 Pattern

:SOURce:DATA:TELecom:OTN:GCC:PATtern:POLarity
:SOURce:DATA:TELecom:OTN:GCC:PATtern:POLarity?

OTUx/ODUx

Check boxes:
:SOURce:DATA:TELecom:OTN:GCC:ENAble
:SOURce:DATA:TELecom:OTN:GCC:ENAble?

Current/history status:
:FETCh:DATA:TELecom:OTN:GCC:ERRor:HISTory?
:FETCh:DATA:TELecom:OTN:GCC:ERRor:CURRent?

BERT

Pattern Loss
:FETCh:DATA:TELecom:OTN:GCC:ALARm:HISTory?
:FETCh:DATA:TELecom:OTN:GCC:ALARm:CURRent?
:FETCh:DATA:TELecom:OTN:GCC:ALARm:SEConds?

Bit Error
:FETCh:DATA:TELecom:OTN:GCC:ERRor:HISTory?
:FETCh:DATA:TELecom:OTN:GCC:ERRor:CURRent?

:FETCh:DATA:TELecom:OTN:GCC:ERRor:SEConds?
:FETCh:DATA:TELecom:OTN:GCC:ERRor:COUNt?
:FETCh:DATA:TELecom:OTN:GCC:ERRor:RATE?

Bit Error

:SOURce:DATA:TELecom:OTN:GCC:ERRor:MANual:INJect

Reset

:SOURce:DATA:TELecom:OTN:GCC:RESet

GMP

TX Cm
:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:TX:CMSTatus?

TX CnD
:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:TX:CNDStatus?

RX Cm
:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:CMSTatus?

RX CnD
:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:CNDStatus?

OH - GFP-F/GFP-T

TX

PTI
:SOURce:DATA:TELecom:GFP:OH:THEader:PTI
:SOURce:DATA:TELecom:GFP:OH:THEader:PTI?

PFI
:SOURce:DATA:TELecom:GFP:OH:THEader:PFI
:SOURce:DATA:TELecom:GFP:OH:THEader:PFI?

EXI
:SOURce:DATA:TELecom:GFP:OH:THEader:EXI
:SOURce:DATA:TELecom:GFP:OH:THEader:EXI?

UPI
:SOURce:DATA:TELecom:GFP:OH:THEader:UPI
:SOURce:DATA:TELecom:GFP:OH:THEader:UPI?

CID
:SOURce:DATA:TELecom:GFP:OH:EHEader:CID
:SOURce:DATA:TELecom:GFP:OH:EHEader:CID?

Spare
:SOURce:DATA:TELecom:GFP:OH:EHEader:SPARe
:SOURce:DATA:TELecom:GFP:OH:EHEader:SPARe?

Default All OH
:SOURce:DATA:TELecom:GFP:OH:RESTore:DEFault

Default (per TX overhead byte)
:SOURce:DATA:TELecom:GFP:OH:DEFault

RX

Client Data
:FETCh:DATA:TELecom:GFP:OH:DFRames?

Client Management
:FETCh:DATA:TELecom:GFP:OH:MFRames?

Reserved PTI
:FETCh:DATA:TELecom:GFP:OH:RPTiframes?

OH - OTN

OTU

:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:OVERhead
:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:OVERhead?
:SENSe:DATA:TELecom:OTN:OH:OTU[1..n]:OVERhead?

:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead
:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead?
:SENSe:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead?

:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:F:OVERhead
:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:F:OVERhead?
:SENSe:DATA:TELecom:OTN:OH:OTU[1..n]:F:OVERhead?

ODU

:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead
:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead?
:SENSe:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead?

:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead
:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead?
:SENSe:DATA:TELecom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead?

:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:F:OVERhead
:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:F:OVERhead?
:SENSe:DATA:TELecom:OTN:OH:ODU[1..n]:F:OVERhead?

OPU

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:OVERhead
:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:OVERhead?
:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:OVERhead?
:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:PSI
:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:PSI?
:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:PSI?

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:E:OVERhead
:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:E:OVERhead?
:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:E:OVERhead?

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:E:PSI
:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:E:PSI?
:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:E:PSI?

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:F:OVERhead
:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:F:OVERhead?
:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:F:OVERhead?
:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:F:PSI
:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:F:PSI?
:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:F:PSI?

Default OTN OH
:SOURce:DATA:TELecom:OTN:OH:REStore:DEFault

:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:E[1..n]:DEFault

:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:F:DEFault
:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:F:DEFault

OH - SONET/SDH

TX

Section
:SOURce:DATA:TELecom:SONet:OH:SECTion:OVERhead
:SOURce:DATA:TELecom:SONet:OH:SECTion:OVERhead?
:SOURce:DATA:TELecom:SONet:OH:SECTion:OVERhead:DEFault

Line
:SOURce:DATA:TELecom:SONet:OH:LINE:OVERhead
:SOURce:DATA:TELecom:SONet:OH:LINE:OVERhead?
:SOURce:DATA:TELecom:SONet:OH:LINE:OVERhead:DEFault

RS
:SOURce:DATA:TELecom:SDH:OH:RS:OVERhead[1..n]
:SOURce:DATA:TELecom:SDH:OH:RS:OVERhead[1..n]?
:SOURce:DATA:TELecom:SDH:OH:RS:OVERhead[1..n]:DEFault

MS
:SOURce:DATA:TELecom:SDH:OH:MS:OVERhead[1..n]
:SOURce:DATA:TELecom:SDH:OH:MS:OVERhead[1..n]?
:SOURce:DATA:TELecom:SDH:OH:MS:OVERhead[1..n]:DEFault

STS/AU
:SOURce:DATA:TELecom:SDHSonet:OH:HOP:OVERhead
:SOURce:DATA:TELecom:SDHSonet:OH:HOP:OVERhead?
:SOURce:DATA:TELecom:SDHSonet:OH:HOP:OVERhead:DEFault

VT/TU
:SOURce:DATA:TELecom:SDHSonet:OH:LOP:OVERhead
:SOURce:DATA:TELecom:SDHSonet:OH:LOP:OVERhead?
:SOURce:DATA:TELecom:SDHSonet:OH:LOP:OVERhead:DEFault

TU3
:SOURce:DATA:TELecom:SDHSonet:OH:LOPTu:OVERhead
:SOURce:DATA:TELecom:SDHSonet:OH:LOPTu:OVERhead?
:SOURce:DATA:TELecom:SDHSonet:OH:LOPTu:OVERhead:DEFault

Disable all Overwrites
:SOURce:DATA:TELecom:SDHSonet:OH:DISable:OVERwrite

Default All OH
:SOURce:DATA:TELecom:SDHSonet:OH:REStore:DEFault

RX

Section/RS
:SENSe:DATA:TELecom:SONet:OH:SECTion:OVERhead?

Line/MS
:SENSe:DATA:TELecom:SONet:OH:LINE:OVERhead?

RS
:SENSe:DATA:TELecom:SDH:OH:RS:OVERhead[1..n]?

MS
:SENSe:DATA:TELecom:SDH:OH:MS:OVERhead[1..n]?

STS/AU
:SENSe:DATA:TELecom:SDHSonet:OH:HOP:OVERhead?

VT/TU
:SENSe:DATA:TELecom:SDHSonet:OH:LOP:OVERhead?
TU3
:SENSe:DATA:TELecom:SDHSonet:OH:LOPTu:OVERhead?

OH - FlexE

Note: *There are no specific SCPI commands for **FlexE PHY** / **Instance Number** and* ***Frame***, *they are specified as parameters in the following commands when applicable.*

Default FlexE OH
:SOURce:DATA:TELecom:FETHernet:OH:DEFault

Block 1

SH
:SOURce:DATA:TELecom:FETHernet:OH:DEFault:BYTE?
:SENSe:DATA:TELecom:FETHernet:OH:BYTE?

Type
:SOURce:DATA:TELecom:FETHernet:OH:DEFault:BYTE?
:SENSe:DATA:TELecom:FETHernet:OH:BYTE?

C
:SOURce:DATA:TELecom:FETHernet:GROup:CALendar
:SOURce:DATA:TELecom:FETHernet:GROup:CALendar?
:SENSe:DATA:TELecom:FETHernet:OH?

RPF
:SOURce:DATA:TELecom:FETHernet:OH:RPF?
:SENSe:DATA:TELecom:FETHernet:OH:BYTE?

Res
:SOURce:DATA:TELecom:FETHernet:OH:REServed
:SOURce:DATA:TELecom:FETHernet:OH:REServed?
:SENSe:DATA:TELecom:FETHernet:OH:REServed?

SC
:SOURce:DATA:TELecom:FETHernet:OH:SC
:SOURce:DATA:TELecom:FETHernet:OH:SC?
:SENSe:DATA:TELecom:FETHernet:OH:BYTE?

Group
:SOURce:DATA:TELecom:FETHernet:OH:GROup?
:SENSe:DATA:TELecom:FETHernet:OH:BYTE?

O Code
:SOURce:DATA:TELecom:FETHernet:OH:DEFault:BYTE?
:SENSe:DATA:TELecom:FETHernet:OH:BYTE?

000_0000 Code
:SOURce:DATA:TELecom:FETHernet:OH:OXO?
:SENSe:DATA:TELecom:FETHernet:OH:BYTE?

Block 2

SH
:SOURce:DATA:TELecom:FETHernet:OH:DEFault:BYTE?
:SENSe:DATA:TELecom:FETHernet:OH:BYTE?

C
:SOURce:DATA:TELecom:FETHernet:GROup:CALendar
:SOURce:DATA:TELecom:FETHernet:GROup:CALendar?
:SENSe:DATA:TELecom:FETHernet:OH?

FlexE Map
:SOURce:DATA:TELecom:FETHernet:OH:FMAP?
:SENSe:DATA:TELecom:FETHernet:OH:FMAP?

Instance Number
:SENSe:DATA:TELecom:FETHernet:OH:BYTE?

Reserved
:SOURce:DATA:TELecom:FETHernet:OH:BYTE
:SOURce:DATA:TELecom:FETHernet:OH:BYTE?
:SENSe:DATA:TELecom:FETHernet:OH:BYTE?

Block 3

SH
:SOURce:DATA:TELecom:FETHernet:OH:DEFault:BYTE?
:SENSe:DATA:TELecom:FETHernet:OH:BYTE?

C
:SOURce:DATA:TELecom:FETHernet:GROup:CALendar
:SOURce:DATA:TELecom:FETHernet:GROup:CALendar?
:SENSe:DATA:TELecom:FETHernet:OH?

Client Calendar
For TX refer to *FlexE Calendar*.
:SENSe:DATA:TELecom:FETHernet:OH:CLIent:CALendar?

CR / CA
:SOURce:DATA:TELecom:FETHernet:OH
:SOURce:DATA:TELecom:FETHernet:OH?
:SENSe:DATA:TELecom:FETHernet:OH?

Reserved
:SOURce:DATA:TELecom:FETHernet:OH:BYTE
:SOURce:DATA:TELecom:FETHernet:OH:BYTE?
:SENSe:DATA:TELecom:FETHernet:OH:BYTE?

CRC-16
:SENSe:DATA:TELecom:FETHernet:OH:BYTE?

Block 4-5

SH / Management Channel-Section / Reserved
:SOURce:DATA:TELecom:FETHernet:OH:BYTE
:SOURce:DATA:TELecom:FETHernet:OH:BYTE?
:SENSe:DATA:TELecom:FETHernet:OH:BYTE?

Block 6

**SH / Management Channel-Shim to Shim /
Management Channel - Synchronization Channel / Reserved**
:SOURce:DATA:TELecom:FETHernet:OH:BYTE
:SOURce:DATA:TELecom:FETHernet:OH:BYTE?
:SENSe:DATA:TELecom:FETHernet:OH:BYTE?

Block 7-8

SH / Management Channel-Shim to Shim / Reserved
:SOURce:DATA:TELecom:FETHernet:OH:BYTE
:SOURce:DATA:TELecom:FETHernet:OH:BYTE?
:SENSe:DATA:TELecom:FETHernet:OH:BYTE?

Packet Capture

Capture Source
:SOURce:DATA:TELecom:CAPTure:FILTer:TYPE
:SOURce:DATA:TELecom:CAPTure:FILTer:TYPE?

Frame Length

Complete/Truncated
:SOURce:DATA:TELecom:CAPTure:FRAMe:SIZE
:SOURce:DATA:TELecom:CAPTure:FRAMe:SIZE?

Bytes
:SOURce:DATA:TELecom:CAPTure:BYTE
:SOURce:DATA:TELecom:CAPTure:BYTE?

Trigger

Trigger Type
:SOURce:DATA:TELecom:CAPTure:TSOurce
:SOURce:DATA:TELecom:CAPTure:TSOurce?

On Error (error selection)
:SOURce:DATA:TELecom:CAPTure:TSOurce:TYPE
:SOURce:DATA:TELecom:CAPTure:TSOurce:TYPE?

Trigger Position
:SOURce:DATA:TELecom:CAPTure:TRIGger
:SOURce:DATA:TELecom:CAPTure:TRIGger?

Status and Controls

Capture
:SOURce:DATA:TELecom:ETHernet:GLOBal:CONTrol
:SOURce:DATA:TELecom:ETHernet:GLOBal:CONTrol?

Capture Status
:FETCh:DATA:TELecom:ETHernet:STATus?

Frame Count
:FETCh:DATA:TELecom:ETHernet:FRAMe:COUNt?

Buffer Usage
:FETCh:DATA:TELecom:ETHernet:BUFFer:UTILization?

Triggered Error
:FETCh:DATA:TELecom:ETHernet:TRIGger:ERRor?

Triggered Frame
:FETCh:DATA:TELecom:ETHernet:CFG:STATus?

Path OAM APS

Path OAM APS
:SOURce:DATA:TELecom:FETHernet:POAM:APS:ENABle
:SOURce:DATA:TELecom:FETHernet:POAM:APS:ENABle?

Request/State Interpretation
:SOURce:DATA:TELecom:FETHernet:POAM:APS:STANdard
:SOURce:DATA:TELecom:FETHernet:POAM:APS:STANdard?

Path OAM on Client ID
:SOURce:DATA:TELecom:FETHernet:POAM:CLIent:IDentifier?

TX/RX

Request/State
For G.873.1:
:SOURce:DATA:TELecom:FETHernet:POAM:APS:CMCC:REQState:GENerated
:SOURce:DATA:TELecom:FETHernet:POAM:APS:CMCC:REQState:GENerated?
:FETCh:DATA:TELecom:FETHernet:POAM:APS:CMCC:REQState:RECeived?
For G8331:
:SOURce:DATA:TELecom:FETHernet:POAM:APS:ITU:REQState:GENerated
:SOURce:DATA:TELecom:FETHernet:POAM:APS:ITU:REQState:GENerated?
:FETCh:DATA:TELecom:FETHernet:POAM:APS:ITU:REQState:RECeived?

Requested Signal

:SOURce:DATA:TELecom:FETHernet:POAM:APS:RSIGnal:GENerated
:SOURce:DATA:TELecom:FETHernet:POAM:APS:RSIGnal:GENerated?
:FETCh:DATA:TELecom:FETHernet:POAM:APS:RSIGnal:RECeived?

Bridged Signal

:SOURce:DATA:TELecom:FETHernet:POAM:APS:BSIGnal:GENerated
:SOURce:DATA:TELecom:FETHernet:POAM:APS:BSIGnal:GENerated?
:FETCh:DATA:TELecom:FETHernet:POAM:APS:BSIGnal:RECeived?

Reserved

:SOURce:DATA:TELecom:FETHernet:POAM:APS:RESByte:GENerated
:SOURce:DATA:TELecom:FETHernet:POAM:APS:RESByte:GENerated?
:FETCh:DATA:TELecom:FETHernet:POAM:APS:RESByte:RECeived?

Protection Type A

:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:A:GENerated
:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:A:GENerated?
:FETCh:DATA:TELecom:FETHernet:POAM:APS:PROTection:A:RECeived?

Protection Type B

:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:B:GENerated
:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:B:GENerated?
:FETCh:DATA:TELecom:FETHernet:POAM:APS:PROTection:B:RECeived?

Protection Type D

:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:D:GENerated
:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:D:GENerated?
:FETCh:DATA:TELecom:FETHernet:POAM:APS:PROTection:D:RECeived?

Protection Type R

:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:R:GENerated
:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:R:GENerated?
:FETCh:DATA:TELecom:FETHernet:POAM:APS:PROTection:R:RECeived?

TX

Apply Changes

:SOURce:DATA:TELecom:FETHernet:POAM:APS:CONFiguration:APPLy

RX

APS

:FETCh:DATA:TELecom:FETHernet:POAM:APS:RX:MESSage:COUNt?
:FETCh:DATA:TELecom:FETHernet:POAM:APS:TX:MESSage:COUNt?

Ping & Trace Route

Source IP Address
For IPv4:
:SOURce:DATA:TELecom:PING:CONFig:ADDRess:SOURce:IP?

For IPv6:
:SOURce:DATA:TELecom:PING:CONFig:ADDRess:IPVersion:SOURce?

For stream/service IP selection:
:SOURce:DATA:TELecom:PING:CONFig:STReam:INDex
:SOURce:DATA:TELecom:PING:CONFig:STReam:INDex?

Destination IP Address
:SOURce:DATA:TELecom:PING:CONFig:ADDRess:DESTination:IP
:SOURce:DATA:TELecom:PING:CONFig:ADDRess:DESTination:IP?
:SOURce:DATA:TELecom:PING:CONFig:ADDRess:IPVersion:DESTination
:SOURce:DATA:TELecom:PING:CONFig:ADDRess:IPVersion:DESTination?

Use Stream
:SOURce:DATA:TELecom:PING:CONFig:ADDRess:DESTination:IP:USTReam
:SOURce:DATA:TELecom:PING:CONFig:ADDRess:DESTination:IP:USTReam?

Ping

Ping button
:SOURce:DATA:TELecom:PING:SETup:RUN
:SOURce:DATA:TELecom:PING:SETup:RUN?

Timeout
:SOURce:DATA:TELecom:PING:CONFig:TOUT
:SOURce:DATA:TELecom:PING:CONFig:TOUT?

Delay
:SOURce:DATA:TELecom:PING:CONFig:DELay
:SOURce:DATA:TELecom:PING:CONFig:DELay?

Data Size
:SOURce:DATA:TELecom:PING:CONFig:DSIZe
:SOURce:DATA:TELecom:PING:CONFig:DSIZe?

TTL
:SOURce:DATA:TELecom:PING:CONFig:TTL
:SOURce:DATA:TELecom:PING:CONFig:TTL?

IP TOS/DS
:SOURce:DATA:TELecom:PING:CONFig:TOS
:SOURce:DATA:TELecom:PING:CONFig:TOS?

Attempts
Continuous
:SOURce:DATA:TELecom:PING:CONFig:CONTinuous
:SOURce:DATA:TELecom:PING:CONFig:CONTinuous?
n-Attempt
:SOURce:DATA:TELecom:PING:CONFig:ATTempts
:SOURce:DATA:TELecom:PING:CONFig:ATTempts?

Flow Label
:SOURce:DATA:TELecom:PING:CONFig:FLABel
:SOURce:DATA:TELecom:PING:CONFig:FLABel?

Trace Route

Trace Route button
:SOURce:DATA:TELecom:TRACe:CONFig:RUN
:SOURce:DATA:TELecom:TRACe:CONFig:RUN?

Timeout
:SOURce:DATA:TELecom:TRACe:CONFig:TOUT
:SOURce:DATA:TELecom:TRACe:CONFig:TOUT?

Max Hop Count
:SOURce:DATA:TELecom:TRACe:CONFig:HCOunt
:SOURce:DATA:TELecom:TRACe:CONFig:HCOunt?

Results

Ping
:FETCh:DATA:TELecom:PING:STATistics:RESults?
Trace Route
:FETCh:DATA:TELecom:TRACe:STATistics:RESults?

Statistics

Packets Transmitted
Ping
:FETCh:DATA:TELecom:PING:STATistics:TX?
Trace Route
:FETCh:DATA:TELecom:TRACe:STATistics:TX?

Packets Received
Ping
:FETCh:DATA:TELecom:PING:STATistics:RX?
Trace Route
:FETCh:DATA:TELecom:TRACe:STATistics:TX?

Percentage Lost
:FETCh:DATA:TELecom:PING:STATistics:LOST?

Min Round Trip Time
:FETCh:DATA:TELecom:PING:STATistics:MINimum?

Max Round Trip Time
:FETCh:DATA:TELecom:PING:STATistics:MAXimum?

Avg. Round Trip Time
:FETCh:DATA:TELecom:PING:STATistics:AVERage?

Pointer Adjustment

TX Pointer Adjustment - Manual

Pointer Value
:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:VALue?
:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:VALue?

Step
Increment Value
:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:INCRement:SIZE
:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:INCRement:SIZE?
:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:INCRement:SIZE
:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:INCRement:SIZE?
Increment button
:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:INCRement
:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:INCRement
Decrement Value
:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:DECRement:SIZE
:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:DECRement:SIZE?
:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:DECRement:SIZE
:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:DECRement:SIZE?
Decrement button
:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:DECRement
:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:DECRement

Jump
New Pointer
:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:VALue
:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:VALue?
:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:VALue
:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:VALue?
Inject button
:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW
:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW
New Data Flag

:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:FLAG
:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:FLAG?
:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG
:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG?

TX Pointer Adjustment - Sequence

Sequence
:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:PATTern
:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:PATTern?

Increment/Decrement selection
:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:TYPE
:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:TYPE?

Periodic
:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:PERiodic:STATus
:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:PERiodic:STATus?

Init-Cool
:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:INITcool:STATus
:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:INITcool:STATus?

Sequence value
:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:TIMeline:VALUe
:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:TIMeline:VALUe?

Sequence button
:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter
:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter?

Pointer Value
:FETCh:DATA:TELecom:SDHSonet:SEQuence:POINter:VALue?

Status
:FETCh:DATA:TELecom:SDHSonet:SEQuence:POINter:STATus?

RX Pointer Adjustment

Pointer Value
:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:VALue?
:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:VALue?

Cumulative Offset
:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:OFFSet?
:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:OFFSet?

Ptr. Incr.
:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:INCRement:COUNt?
:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:INCRement:SEConds?
:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:INCRement:COUNt?
:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:INCRement:SEConds?

Ptr. Decr.
:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:DECRement:COUNt?
:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:DECRement:SEConds?
:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:DECRement:COUNt?
:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:DECRement:SEConds?

NDF
:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:NDF:COUNt?
:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:NDF:SEConds?
:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:NDF:COUNt?
:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:NDF:SEConds?

No NDF
:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:NNDF:COUNt?
:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:NNDF:SEConds?
:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:NNDF:COUNt?
:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:NNDF:SEConds?

RTD

Mode
:SENSe:DATA:TELecom:RTD:MODE
:SENSe:DATA:TELecom:RTD:MODE?

Measure Delay button
:SENSe:DATA:TELecom:RTD
:SENSe:DATA:TELecom:RTD?

Status
:FETCh:DATA:TELecom:RTD:DELay:STATus?

Reset button
:SENSe:DATA:TELecom:RTD:RESet

Delay
:FETCh:DATA:TELecom:RTD:DELay:LAST?
:FETCh:DATA:TELecom:RTD:DELay:MINimum?
:FETCh:DATA:TELecom:RTD:DELay:MAXimum?
:FETCh:DATA:TELecom:RTD:DELay:AVERage?

Count
:FETCh:DATA:TELecom:RTD:COUNt:SUCCessful?
:FETCh:DATA:TELecom:RTD:COUNt:FAILed?

RTD/RTT (CPRI Framed L2)

Round Trip Delay (CPRI)

Delay T14
:SENSe:DATA:TELecom:CPRI:RTD:DELay:LAST?
:SENSe:DATA:TELecom:CPRI:RTD:DELay:MINimum?
:SENSe:DATA:TELecom:CPRI:RTD:DELay:MAXimum?
:SENSe:DATA:TELecom:CPRI:RTD:DELay:AVERage?

Cable Delay
:SENSe:DATA:TELecom:CPRI:RTD:CABLe:LAST?
:SENSe:DATA:TELecom:CPRI:RTD:CABLe:MINimum?
:SENSe:DATA:TELecom:CPRI:RTD:CABLe:MAXimum?
:SENSe:DATA:TELecom:CPRI:RTD:CABLe:AVERage?

Remote Radio Head - Toffset
:SOURce:DATA:TELecom:CPRI:RTD:TOFFset
:SOURce:DATA:TELecom:CPRI:RTD:TOFFset?

Round Trip Time (OBSAI)

RTT
:FETCh:DATA:TELecom:CPRI:OBSai:RTT?

Propagation Delay
:FETCh:DATA:TELecom:CPRI:OBSai:PROPdelay?

Delay Δ1,2
:FETCh:DATA:TELecom:CPRI:OBSai:IDELay?

S-OAM Link Trace

Link Trace

Priority
:SENSe:DATA:TELecom:SOAM:LINK:TRACe:PRIority
:SENSe:DATA:TELecom:SOAM:LINK:TRACe:PRIority?

Drop Eligible
:SENSe:DATA:TELecom:SOAM:LINK:TRACe:DROP:ELIGible
:SENSe:DATA:TELecom:SOAM:LINK:TRACe:DROP:ELIGible?

TTL
:SENSe:DATA:TELecom:SOAM:LINK:TRACe:TTL
:SENSe:DATA:TELecom:SOAM:LINK:TRACe:TTL?

Link Trace button
:SENSe:DATA:TELecom:SOAM:LINK:TRACe:ENABle
:SENSe:DATA:TELecom:SOAM:LINK:TRACe:ENABle?

Result

Table
:FETCh:DATA:TELecom:SOAM:LINK:TRACe:RESult?

TX LTM
:FETCh:DATA:TELecom:SOAM:LINK:TRACe:RESult:TX:LTM?

RX LTR
:FETCh:DATA:TELecom:SOAM:LINK:TRACe:RESult:RX:LTR?

LTR Timeout
:FETCh:DATA:TELecom:SOAM:LINK:TRACe:RESult:LTR:TIMeout?

Invalid LTR
:FETCh:DATA:TELecom:SOAM:LINK:TRACe:RESult:INValid:LTR?

Last Link Trace Status
:FETCh:DATA:TELecom:SOAM:LINK:TRACe:STATus?

Signaling Bits

TX Signaling

Signaling Mode
:SOURce:DATA:TELecom:DS[1..n]:SIGNaling:MODE
:SOURce:DATA:TELecom:DS[1..n]:SIGNaling:MODE?

ABCD
:SOURce:DATA:TELecom:DS[1..n]:SIGNaling:CONTent
:SOURce:DATA:TELecom:DS[1..n]:SIGNaling:CONTent?
:SOURce:DATA:TELecom:E[1..n]:SIGNaling:CONTent
:SOURce:DATA:TELecom:E[1..n]:SIGNaling:CONTent?

RX Signaling

ABCD
:FETCh:DATA:TELecom:DSN:SIGNalbit:VALue?
:FETCh:DATA:TELecom:PDH:SIGNalbit:VALue?

Spare Bits

TX

:SOURce:DATA:TELecom:PDH:E[1..n]:SPARbit:VALues
:SOURce:DATA:TELecom:PDH:E[1..n]:SPARbit:VALues?

RX

:FETCh:DATA:TELecom:PDH:E[1..n]:SPARbit:VALues?

Traffic Scan

Scan button
:SOURce:DATA:TELecom:TSCan:SCAN:ENABle
:SOURce:DATA:TELecom:TSCan:SCAN:ENABle?

Level
:SOURce:DATA:TELecom:TSCan:LEVel:TYPE
:SOURce:DATA:TELecom:TSCan:LEVel:TYPE?

Link Rate
:FETCh:DATA:TELecom:TSCan:LINK:RATE?

Limit Reached
:FETCh:DATA:TELecom:TSCan:LREached:STATus?

Discovered
:FETCh:DATA:TELecom:TSCan:DISCovered?

Result table
:FETCh:DATA:TELecom:TSCan:LIST?

Total Frame Count
:FETCh:DATA:TELecom:TSCan:STATistics:FCOunt:TOTal?

Total Rate
:FETCh:DATA:TELecom:TSCan:STATistics:RATE:TOTal?

8 *SCPI Command List - Pop-Up*

Note: *The symbol ‖ precedes a parallel interface command when a different command is used for a serial interface. For **Dual Port** topology or multi-port test (FlexE/FlexO) use the following command to select the port for subsequent commands/queries: :SOURce:DATA:TELecom:PORT*

List of Pop-Up

Bulk Read

:SOURce:DATA:TELecom:MDIO:BULK:READ
:FETCh:DATA:TELecom:MDIO:BULK:READ:INFormation?

Bulk Write

Page Select
:SOURce:DATA:TELecom:MDIO:BULK:WRITe:PGSelect
:SOURce:DATA:TELecom:MDIO:BULK:WRITe:PGSelect?

Address
:SOURce:DATA:TELecom:MDIO:BULK:WRITe:ADDRess
:SOURce:DATA:TELecom:MDIO:BULK:WRITe:ADDRess?

Data
:SOURce:DATA:TELecom:MDIO:BULK:WRITe:DATA
:SOURce:DATA:TELecom:MDIO:BULK:WRITe:DATA?

Bulk Write button
:SOURce:DATA:TELecom:MDIO:BULK:WRITe

Default button
:SOURce:DATA:TELecom:MDIO:BULK:WRITe:DEFault

Config TCM

TCM
:SOURce:DATA:TELecom:OTN:ODU[1..n]:CONFig:TCM[1..n]
:SOURce:DATA:TELecom:OTN:ODU[1..n]:CONFig:TCM[1..n]?
:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:CONFig:TCM[1..n]
:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:CONFig:TCM[1..n]?
:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:CONFig:TCM[1..n]
:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:CONFig:TCM[1..n]?

Configure Per Frame Size

Max Rate
:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]
:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]?
:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]:SETall
:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]:SETall?

All Frames
:SOURce:DATA:TELecom:ETHernet:RFC:LATency:ALL:FRAMe
:SOURce:DATA:TELecom:ETHernet:RFC:LATency:ALL:FRAMe?

Copy Service

:SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:COPYstream

Copy Stream

:SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:COPYstream

DS1 Loopback

Loop Code

:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE
:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE?

Loop-UP and Loop-Down buttons

:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE:INJect
:FETCh:DATA:TELecom:DS[1..n]:LOOP:UP?
:FETCh:DATA:TELecom:DS[1..n]:LOOP:DOWN?

Modify Loop Codes

Name
:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE:NAME?
:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE:NAME?

Loop-Up
:SOURce:DATA:TELecom:DS[1..n]:LOOP:UP
:SOURce:DATA:TELecom:DS[1..n]:LOOP:UP?

Loop-Down
:SOURce:DATA:TELecom:DS[1..n]:LOOP:DOWN
:SOURce:DATA:TELecom:DS[1..n]:LOOP:DOWN?

EMIX

Quantity

:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:EMIX:QUANtity
:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:EMIX:QUANtity?

EMIX Frame Sizes

:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:EMIX:SIZE
:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:EMIX:SIZE?

Restore Default

:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:EMIX:DEFault

Filter Configuration

(
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:BRACket:OPEN
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:BRACket:OPEN?

Not
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:OPERator:NOT
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:OPERator:NOT?

Oper.
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:OPERator
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:OPERator?

)
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:BRACket:CLOSe
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:BRACket:CLOSe?

Filter
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:TYPE
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:TYPE?

Value and **Mask**
IPv4 Destination Address
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DESTination:IP
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DESTination:IP?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:DESTination:IP
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:DESTination:IP?
IPv6 Destination Address
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DESTination:IPVersion
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DESTination:IPVersion
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:DESTination:IPVersion
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:DESTination:IPVersion?
MAC Destination Address
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DESTination:MAC
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DESTination:MAC?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:DESTination:MAC
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:DESTination:MAC?

UDP Destination Port

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DESTination:UDP
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DESTination:UDP?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:DESTination:UDP
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:DESTination:UDP?

TCP Destination Port

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DESTination:TCP
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DESTination:TCP?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:DESTination:TCP
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:DESTination:TCP?

IPv4 DiffServ

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DSERvices
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DSERvices?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:DSERvices
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:DSERvices?

IPv6 DiffServ

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DSERvices:IPVersion
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:DSERvices:IPVersion?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:DSERvices:IPVersion
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:DSERvices:IPVersion?

IPv4 Precedence

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:PRECedence
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:PRECedence?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:PRECedence
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:PRECedence?

IPv6 Precedence

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:PRECedence:IPVersion
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:PRECedence:IPVersion?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:PRECedence:IPVersion
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:PRECedence:IPVersion?

IPv6 Next Header

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:NHEader:IPVersion
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:NHEader:IPVersion?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:NHEader:IPVersion
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:NHEader:IPVersion?

IPv6 Flow Label

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:FLABel:IPVersion
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:FLABel:IPVersion?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:FLABel:IPVersion
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:FLABel:IPVersion?

IPv4 Source Address

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:IP
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:IP?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:IP
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:IP?

IPv6 Souce Address

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:IPVersion
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:IPVersion?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:IPVersion
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:IPVersion?

MAC Source Address

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:MAC
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:MAC?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:MAC
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:MAC?

UDP Source Port

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:UDP
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:UDP?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:UDP
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:UDP?

TCP Source Port

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:TCP
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:SOURce:TCP?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:TCP
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:SOURce:TCP?

IPv4 TOS

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:TOS
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:TOS?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:TOS
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:TOS?

IPV6 TOS

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:TOS:IPVersion
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:TOS:IPVersion?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:TOS:IPVersion
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:TOS:IPVersion?

S-VLAN/E-VLAN/C-VLAN ID

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:VLAN:ID
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:VLAN:ID?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:VLAN:ID
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:VLAN:ID?

S-VLAN/E-VLAN/C-VLAN Priority

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:VLAN:PRIority
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:VLAN:PRIority?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:VLAN:PRIority
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:VLAN:PRIority?

IPv4 Protocol

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:IPPRotocol
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:IPPRotocol?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:IPPRotocol
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:IPPRotocol?

EtherType

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:ETHertype
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:ETHertype?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:ETHertype
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:ETHertype?

Frame Format

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:FRAMe:FORMat
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:FRAMe:FORMat

MPLS Label x

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MLABel[1..n]
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MLABel[1..n]?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:MLABel[1..n]
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:MLABel[1..n]?

MPLS COS x

:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MCOS[1..n]
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MCOS[1..n]?
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:MCOS[1..n]
:SENSe:DATA:TELecom:ETHernet:FMATch:FILTer:MASK:MCOS[1..n]?

FlexE Calendar

Client Assignation
:SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:CONFig?

Edit ID
:SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:MCID

Add Client
:SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:ACLient

Delete Client
:SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:RCLient

Delete All
:SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:DELete

Assign slots to client:
:SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:MOSLots

Grand Master Information

Port Identity
:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:PIDEntity?

GM Identity
:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:IDENtity?

Priority 1
:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:PRIOrity:ONE?

Priority 2
:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:PRIOrity:TWO?

Clock Class
:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:CLOCk:CLASs?

Clock Accuracy
:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:CLOCk:ACCUracy?

Time Source
:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:TSOUrce?

Clock Mode
:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:CLOCk:MODE?

Steps Removed
:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:SREMoved?

Log Message Interval (Announce)
:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:LMIAnnounce?

Log Message Interval (Sync)
:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:LMISync?

IPv6 Address Configuration

Link-Local IPv6 Address

Mode

:SOURce:DATA:TELecom:ETHernet:NETWork:LOCal:IPVersion:MODE
:SOURce:DATA:TELecom:ETHernet:NETWork:LOCal:IPVersion:MODE?

:SOURce:DATA:TELecom:ETHernet:PORT:LOCal:IPVersion:MODE
:SOURce:DATA:TELecom:ETHernet:PORT:LOCal:IPVersion:MODE?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:LOCal:IPVersion:MODE
:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:LOCal:IPVersion:MODE?

- Status

:FETCh:DATA:TELecom:ETHernet:NETWork:LOCal:IPVersion:ADDRess:STATus?
:FETCh:DATA:TELecom:ETHernet:STReam:LOCal:IPVersion:ADDRess:STATus?

Address

:SOURce:DATA:TELecom:ETHernet:PORT:LOCal:IPVersion:ADDRess
:SOURce:DATA:TELecom:ETHernet:PORT:LOCal:IPVersion:ADDRess?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:LOCal:IPVersion:ADDRess
:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:LOCal:IPVersion:ADDRess?

Global IPv6 Address

Mode

:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:MODE
:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:MODE?

:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:MODE
:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:MODE?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE
:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE?

Status

:FETCh:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:ADDRess:STATus?

:FETCh:DATA:TELecom:ETHernet:STReam:GLOBal:IPVersion:ADDRess:STATus?

Address

:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:ADDRess
:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:ADDRess?

:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:ADDRess
:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:ADDRess?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:ADDRess
:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:ADDRess?

Interface ID Coupled

:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:IICoupled
:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:IICoupled?

:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:IICoupled
:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:IICoupled?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:IICoupled
:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:IICoupled?

Prefix Mask

:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:PMASk
:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:PMASk?

:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:PMASk
:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:PMASk?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:PMASk
:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:PMASk?

Default Gateway

Mode

:SOURce:DATA:TELecom:ETHernet:NETWork:DGATeway:IPVersion:MODE
:SOURce:DATA:TELecom:ETHernet:NETWork:DGATeway:IPVersion:MODE?

:SOURce:DATA:TELecom:ETHernet:PORT:DGATeway:IPVersion:MODE
:SOURce:DATA:TELecom:ETHernet:PORT:DGATeway:IPVersion:MODE?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:MODE
:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:MODE?

Status

:FETCh:DATA:TELecom:ETHernet:NETWork:DGATeway:IPVersion:ADDRess:STATus?

:FETCh:DATA:TELecom:ETHernet:STReam:DGATeway:IPVersion:ADDRess:STATus?

Address

:SOURce:DATA:TELecom:ETHernet:NETWork:DGATeway:IPVersion:ADDRess
:SOURce:DATA:TELecom:ETHernet:NETWork:DGATeway:IPVersion:ADDRess?

:SOURce:DATA:TELecom:ETHernet:PORT:DGATeway:IPVersion:ADDRess
:SOURce:DATA:TELecom:ETHernet:PORT:DGATeway:IPVersion:ADDRess?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:ADDRess
:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:ADDRess?

Laser ON/OFF Button

Laser
- Per lane ON/OFF
:SENSe:DATA:TELecom:LASer
:SENSe:DATA:TELecom:LASer?

- All lanes ON/OFF
:OUTPut:TELecom:LASer
:OUTPut:TELecom:LASer

All Lanes selection
:SENSe:DATA:TELecom:ALASer
:SENSe:DATA:TELecom:ALASer?

Link Degrade Signaling Thresholds

Activate Threshold (Symbols)
:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:ACTivate
:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:ACTivate?

Deactivate Threshold (Symbols)
:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:DEACtivate
:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:DEACtivate?

Interval (CW)
:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:INTerval
:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:INTerval?

Manual Mapping

:SOURce:DATA:TELecom:ETHernet:LLAYer:TX
:SOURce:DATA:TELecom:ETHernet:LLAYer:TX?

:SENSe:DATA:TELecom:ETHernet:LLAYer:RX?
:SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane
:SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane?
:SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane:TX
:SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane:TX?

Manual Skew

All Lanes
:SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane
:SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane?

Skew value - All Lanes
:SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane:TX
:SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane:TX?

Skew value - per Lane
:SOURce:DATA:TELecom:OTN:OTL:TX
:SOURce:DATA:TELecom:OTN:OTL:TX?

Modify DS0

DS0/E0 Size
:SOURce:DATA:TELecom:DS[1..n]:MODE
:SOURce:DATA:TELecom:DS[1..n]:MODE?

:SOURce:DATA:TELecom:PDH:E[1..n]:MODE
:SOURce:DATA:TELecom:PDH:E[1..n]:MODE?

Zero Code Suppression
:SOURce:DATA:TELecom:DS[1..n]:ZCS
:SOURce:DATA:TELecom:DS[1..n]:ZCS?

:SOURce:DATA:TELecom:PDH:E[1..n]:ZCS
:SOURce:DATA:TELecom:PDH:E[1..n]:ZCS?

Payload Content
:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:CONTent:TYPE
:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:CONTent:TYPE?

:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:CONTent:TYPE
:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:CONTent:TYPE?

Set All
:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:CONTent:ALL

:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:CONTent:ALL

TX

:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:CONTent
:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:CONTent?
:SENSe:DATA:TELecom:DS[1..n]:PAYLoad:CONTent
:SENSe:DATA:TELecom:DS[1..n]:PAYLoad:CONTent?

:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:CONTent
:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:CONTent?
:SENSe:DATA:TELecom:PDH:E[1..n]:PAYLoad:CONTent
:SENSe:DATA:TELecom:PDH:E[1..n]:PAYLoad:CONTent?

Tone

:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:TONE
:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:TONE?

:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:TONE
:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:TONE?

Idle

:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:IDLE
:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:IDLE?

:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:IDLE
:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:IDLE?

RX

Apply Channel TX to RX

:SOURce:DATA:TELecom:DS[1..n]:SYNC:TXRX
:SOURce:DATA:TELecom:DS[1..n]:SYNC:TXRX?

:SOURce:DATA:TELecom:PDH:E[1..n]:SYNC:TXRX
:SOURce:DATA:TELecom:PDH:E[1..n]:SYNC:TXRX?

Modify Frame Structure

Global Option

IP Version
:SOURce:DATA:TELecom:ETHernet:PORT:IPVersion
:SOURce:DATA:TELecom:ETHernet:PORT:IPVersion?

Layer Mode
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:LAYermode
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:LAYermode?

Framing

Frame Format
:SOURce:DATA:TELecom:ETHernet:STReam:DATalink
:SOURce:DATA:TELecom:ETHernet:STReam:DATalink?

Network Layer
:SOURce:DATA:TELecom:ETHernet:STReam:NETWork
:SOURce:DATA:TELecom:ETHernet:STReam:NETWork?

Transport Layer
:SOURce:DATA:TELecom:ETHernet:STReam:TRANsport
:SOURce:DATA:TELecom:ETHernet:STReam:TRANsport?

VLAN

VLAN
:SOURce:DATA:TELecom:ETHernet:STReam:VLAN
:SOURce:DATA:TELecom:ETHernet:STReam:VLAN?
:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:STACked
:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:STACked?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN?
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STACked
:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STACked?

MPLS

MPLS Label

:SOURce:DATA:TELecom:ETHernet:STReam:MPLS

:SOURce:DATA:TELecom:ETHernet:STReam:MPLS?

:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:HEADers

:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:HEADers?

Modify Tributary Slots/Port

Fixed Structure
:SOURce:DATA:TELecom:OTN:FSTRucture:ENABle
:SOURce:DATA:TELecom:OTN:FSTRucture:ENABle?

Tributary Port
:SOURce:DATA:TELecom:OTN:PORT
:SOURce:DATA:TELecom:OTN:PORT?

Nominal Bit Rate
:FETCh:DATA:TELecom:OTN:BITRate?

Number of Trib Slots
:FETCh:DATA:TELecom:OTN:SLOTs?

Select/Un-select Slot
:SOURce:DATA:TELecom:OTN:POSition
:SOURce:DATA:TELecom:OTN:POSition?

Select/Un-select a group of slots
:SOURce:DATA:TELecom:OTN:POSition:RANGe

List all Slot status
:SOURce:DATA:TELecom:OTN:POSition:RANGe?

Modify Trib Slots/Channels (Multi-Channel OTN)

TX = RX

:SOURce:DATA:TELecom:OTN:TRIButaries:COUPled
:SOURce:DATA:TELecom:OTN:TRIButaries:COUPled?

ODU/Channel/Slots Assignation

ODU Type and Channel ID structure selection (Mix-Mapping)
:SOURce:DATA:TELecom:OTN:FRAMing:MIX
:SOURce:DATA:TELecom:OTN:FRAMing:MIX?

Tributary slot assignation
:SOURce:DATA:TELecom:OTN:TRIButaries
:SOURce:DATA:TELecom:OTN:TRIButaries?

Modify Tributary Slots

Default
:SOURce:DATA:TELecom:OTN:TRIButaries:DEFAult

Copy RX MSI
:SOURce:DATA:TELecom:OTN:TRIButaries:COPYrx

Modify TX Power - DCO BERT

Note: *Not supported yet.*

Modify Wavelength (SFP)

Wavelength

:SOURce:DATA:TELecom:OPTical:TUNable:WAVelength
:SOURce:DATA:TELecom:OPTical:TUNable:WAVelength?

For Lpbk Tools
:SOURce:DATA:TELecom:OPTical:SLTool:TUNable:WAVelength
:SOURce:DATA:TELecom:OPTical:SLTool:TUNable:WAVelength?

Channel Number

:SENSe:DATA:TELecom:OPTical:TUNable:CHANnel:NUMBer?

For Lpbk Tools
:SENSe:DATA:TELecom:OPTical:SLTool:TUNable:CHANnel:NUMBer?

Frequency

:SENSe:DATA:TELecom:OPTical:TUNable:FREQuency?

For Lpbk Tools
:SENSe:DATA:TELecom:OPTical:SLTool:TUNable:FREQency?

Channel Spacing

:SENSe:DATA:TELecom:OPTical:TUNable:CHANnel:SPACing?

For Lpbk Tools
:SENSe:DATA:TELecom:OPTical:SLTool:TUNable:CHANnel:SPACing?

Modify Wavelength (DCO)

Note: Not supported yet.

Profile (Services)

Voice / Video / Data

:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:TYPE
:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:TYPE?

Voice Codec

:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VOICe
:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VOICe?

Number of Calls

:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VOICe:CALLs
:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VOICe:CALLs?

Video Codec

:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VIDeo
:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VIDeo?

Number of Channels

:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VIDeo:CHANnels
:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VIDeo:CHANnels?

Profile (Stream)

Profile

Voice / Video / Data
:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:TYPE
:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:TYPE?

Voice Codec
:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VOICe
:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VOICe?

Number of Calls
:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VOICe:CALLs
:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VOICe:CALLs?

Video Codec
:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VIDeo
:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VIDeo?

Number of Channels
:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VIDeo:CHANnels
:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VIDeo:CHANnels?

Remote Interface Discovery

Discover
:SOURce:DATA:TELecom:ETHernet:REMote:SCANning:STATus
:SOURce:DATA:TELecom:ETHernet:REMote:SCANning:STATus?

Remote Interfaces
:SOURce:DATA:TELecom:ETHernet:REMote:SIGNature:LIST?
:SOURce:DATA:TELecom:ETHernet:REMote:SIGNature:DETail?

Apply To Stream
:SOURce:DATA:TELecom:ETHernet:REMote:SIGNature:APPLy

Reset/Manual Skew

Manual Skew
:SOURce:DATA:TELecom:FETHernet:PHY:SKEW:TX
:SOURce:DATA:TELecom:FETHernet:PHY:SKEW:TX?

Reset Skew
:SOURce:DATA:TELecom:FETHernet:PHY:SKEW:TX:RESet

Shaping

Burst Duty Cycle
:SOURce:DATA:TELecom:ETHernet:STReam:BURSt:BANDwidth
:SOURce:DATA:TELecom:ETHernet:STReam:BURSt:BANDwidth?

Period
:SOURce:DATA:TELecom:ETHernet:STReam:BURSt:TIME
:SOURce:DATA:TELecom:ETHernet:STReam:BURSt:TIME?

Burst Count
:SOURce:DATA:TELecom:ETHernet:STReam:BURSt:COUNt
:SOURce:DATA:TELecom:ETHernet:STReam:BURSt:COUNt?

Ramp Nb. of Steps
:SOURce:DATA:TELecom:ETHernet:STReam:RAMP:STEP
:SOURce:DATA:TELecom:ETHernet:STReam:RAMP:STEP?

Step Time
:SOURce:DATA:TELecom:ETHernet:STReam:RAMP:TIME
:SOURce:DATA:TELecom:ETHernet:STReam:RAMP:TIME?

Ramp Cycle Count
:SOURce:DATA:TELecom:ETHernet:STReam:RAMP:COUNt
:SOURce:DATA:TELecom:ETHernet:STReam:RAMP:COUNt?

Stream (Summary)

Jitter

:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:CURRent?
:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:AVERage?
:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:MINimum?
:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:MAXimum?
:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:ESTimate?

:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:MAXimum:VERDict?

Latency

:FETCh:DATA:TELecom:ETHernet:STReam:LATency:CURRent?
:FETCh:DATA:TELecom:ETHernet:STReam:LATency:AVERage?
:FETCh:DATA:TELecom:ETHernet:STReam:LATency:MINimum?
:FETCh:DATA:TELecom:ETHernet:STReam:LATency:MAXimum?
:FETCh:DATA:TELecom:ETHernet:STReam:LATency:MAXimum:VERDict?

RX Rate / Throughput

:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:CURRent?
:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:CURRent:VERDict?

:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:AVERage?
:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:AVERage:VERDict?

:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:MINimum?

:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:MAXimum?

RX Frame Count
:FETCh:DATA:TELecom:ETHernet:COUNt:FRAMes:RX?

TX Rate
Percentage:
:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:RATE
:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:RATE?
Mbit/s:
:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:RATE:MBPS
:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:RATE:MBPS?

TX Frame Count
:FETCh:DATA:TELecom:ETHernet:COUNt:FRAMes:TX?

Frame Loss
Out-of-Sequence
:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:HISTory?
:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:CURRent?
:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:SEConds?
:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:COUNt?
:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:RATE?
Verdict
:FETCh:DATA:TELecom:ETHernet:STReam:FLOSs:VERDict?
:FETCh:DATA:TELecom:ETHernet:STReam:OOSequence:VERDict?

Thresholds (FEC Degraded SER)

Interval (CW)
:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:INTerval
:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:INTerval?

Activate Threshold (Symbols)
:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:ACTIvate
:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:ACTIvate?

Deactivate Threshold (Symbols)
:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:DEACtivate
:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:DEACtivate?

Thresholds - FED/FDD

Note: *Not supported yet.*

Thresholds (Link Degrade Signaling)

Interval (CW)
:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:INTerval
:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:INTerval?

Activate Threshold (Symbols)
:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:ACTIvate
:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:ACTIvate?

Deactivate Threshold (Symbols)
:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:DEACtivate
:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:DEACtivate?

Thresholds (RFC 2544)

Back-to-Back / Frame Loss / Latency / Round-Trip Latency / One-Way Latency Thresholds
:SOURce:DATA:TELecom:ETHernet:REMote:THReshold
:SOURce:DATA:TELecom:ETHernet:REMote:THReshold?

Thresholds (S-OAM)

Frame Delay / Frame Loss / Synthetic Loss Thresholds
:SOURce:DATA:TELecom:SOAM:THReshold
:SOURce:DATA:TELecom:SOAM:THReshold?

TOS/DS Configuration

Note: *There is no SCPI command for **TOS/DS** selection, configuring the following **Differentiated Services** and **Type Of Service** settings define the final **Traffic Class (TOS/DS)** value.*

Differentiated Services

DSCP Codepoints
:SOURce:DATA:TELecom:ETHernet:STReam:DS:CODE
:SOURce:DATA:TELecom:ETHernet:STReam:DS:CODE?
For L->R and R->L
:SOURce:DATA:TELecom:ETHernet:IP:DS:CODE
:SOURce:DATA:TELecom:ETHernet:IP:DS:CODE?

ECN
:SOURce:DATA:TELecom:ETHernet:STReam:DS:ECN
:SOURce:DATA:TELecom:ETHernet:STReam:DS:ECN?
For L->R and R->L
:SOURce:DATA:TELecom:ETHernet:IP:DS:ECN
:SOURce:DATA:TELecom:ETHernet:IP:DS:ECN?

Type Of Service

Precedence
:SOURce:DATA:TELecom:ETHernet:STReam:TOS:PRECedence
:SOURce:DATA:TELecom:ETHernet:STReam:TOS:PRECedence?
For L->R and R->L
:SOURce:DATA:TELecom:ETHernet:IP:TOS:PRECedence
:SOURce:DATA:TELecom:ETHernet:IP:TOS:PRECedence?

Delay
:SOURce:DATA:TELecom:ETHernet:STReam:TOS:DELay
:SOURce:DATA:TELecom:ETHernet:STReam:TOS:DELay?
For L->R and R->L
:SOURce:DATA:TELecom:ETHernet:IP:TOS:DELay
:SOURce:DATA:TELecom:ETHernet:IP:TOS:DELay?

Throughput
:SOURce:DATA:TELecom:ETHernet:STReam:TOS:THRoughput
:SOURce:DATA:TELecom:ETHernet:STReam:TOS:THRoughput?
For L->R and R->L
:SOURce:DATA:TELecom:ETHernet:IP:TOS:THRoughput
:SOURce:DATA:TELecom:ETHernet:IP:TOS:THRoughput?

Reliability
:SOURce:DATA:TELecom:ETHernet:STReam:TOS:RELiability
:SOURce:DATA:TELecom:ETHernet:STReam:TOS:RELiability?
For L->R and R->L
:SOURce:DATA:TELecom:ETHernet:IP:TOS:RELiability
:SOURce:DATA:TELecom:ETHernet:IP:TOS:RELiability?

Monetary Cost
:SOURce:DATA:TELecom:ETHernet:STReam:TOS:COST
:SOURce:DATA:TELecom:ETHernet:STReam:TOS:COST?
For L->R and R->L
:SOURce:DATA:TELecom:ETHernet:IP:TOS:COST
:SOURce:DATA:TELecom:ETHernet:IP:TOS:COST?

Reserved Bit
:SOURce:DATA:TELecom:ETHernet:STReam:TOS:BIT
:SOURce:DATA:TELecom:ETHernet:STReam:TOS:BIT?
For L->R and R->L
:SOURce:DATA:TELecom:ETHernet:IP:TOS:BIT
:SOURce:DATA:TELecom:ETHernet:IP:TOS:BIT?

Triggered Frame Details

Frame Number
:SENSe:DATA:TELecom:CAPTure:TSOurce:FNUMber?

MAC Address
:SENSe:DATA:TELecom:CAPTure:TSOurce:SOURce:MAC?
:SENSe:DATA:TELecom:CAPTure:TSOurce:DESTination:MAC?

IP Address
:SENSe:DATA:TELecom:CAPTure:TSOurce:SOURce:IP?
:SENSe:DATA:TELecom:CAPTure:TSOurce:DESTination:IP?

Port
:SENSe:DATA:TELecom:CAPTure:TSOurce:SOURce:PORT?
:SENSe:DATA:TELecom:CAPTure:TSOurce:DESTination:PORT?

9 SCPI Command Reference

This chapter presents detailed information of the SCPI commands and queries supported by the 88xx/8xx.

> # ❗ IMPORTANT
>
> **Since the FTB-1v2, FTB-1v2 Pro, FTB-2, FTB-2 Pro, FTB-4 Pro, LTB-2, and LTB-8 can house many instruments, you must explicitly specify which instrument you want to remotely control.**
>
> **You must add the following mnemonic at the beginning of any command or query that you send to an instrument (except for IEEE 488.2 and platform commands):**
>
> **LINStrument<LogicalInstrumentPos>:**
>
> **where <LogicalInstrumentPos> corresponds to the LINS number given to the module.**
>
> **For information on modifying unit identification, refer to the platform user guide.**

> # ❗ IMPORTANT
>
> **For SCPI commands containing the ODU[1..n] key, use:**
> **ODU100 for ODU0**
> **ODU101 for ODUflex.**
>
> **For commands containing the OPU[1..n] key, use:**
> **OPU100 for OPU0**
> **OPU101 for OPUflex.**

Test Information and Control

:CONFig:DATA:TELecom:LOAD

Description	This command loads a previously saved test configuration settings.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Test Control > Load
Syntax	:CONFig:DATA:TELecom:LOAD <wsp><Path>
Parameter(s)	**Path**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Selects the file name.
Example(s)	CONF:DATA:TEL:LOAD C:/CONFig0.cfg
See Also	CONFig:DATA:TELecom:SAVE

:CONFig:DATA:TELecom:SAVE

Description	This command saves the current test configuration settings.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Test Control > Save
Syntax	:CONFig:DATA:TELecom:SAVE <wsp><Path>
Parameter(s)	**Path**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Selects the file name.
Example(s)	CONF:DATA:TEL:SAVE C:CONFig0.cfg
See Also	CONFig:DATA:TELecom:LOAD

:CONFig:TIMe:FORMat

Description	This command sets the current Date Time Format.
	At *RST condition, the default value is "12 Hours".
	Note: This command is used to change the date time format for other commands. Any other commands executed after this command will be using the current date time format selected by this command.
Syntax	:CONFig:TIMe:FORMat <wsp><Duration>
Parameter(s)	**Duration**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the current time format.
	12H: set the current time format to "AM / PM"
	24H: set the current time format to "24 hours"
Example(s)	CONF:TIME:FORMAT 24H
	SOUR:DATA:TEL:TIMER:START?

:CONFig:TIMe:FORMat?

Description	This query returns the current Date Time Format.
	At *RST condition, the default value is "12 Hours".
Syntax	:CONFig:TIMe:FORMat?
Response Syntax	<Duration>
Response(s)	**Duration**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Gets the current time format.
	12H: the current time format is "AM / PM"
	24H: the current time format is "24 hours"
Example(s)	CONF:TIME:FORMAT 24H
	SOUR:DATA:TEL:TIMER:START?

:CONFig:WAIT:TIME

Description	This command is used to insert a delay between commands.
	Execution of this command after a command will delay the execution of the next command by the specified time.
	This command is an event and is not associated with an *RST condition or a query form.
Syntax	:CONFig:WAIT:TIME <wsp><Duration>
Parameter(s)	**Duration**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the wait time duration in milliseconds.
Response Syntax	<Duration>
Example(s)	SOUR:DATA:TEL:ITYP LANE4X10
	CONF:WAIT:TIME 3000
	SOUR:DATA:TEL:ITYP?

:FETCh:DATA:TELecom:AlarmERRor:CURRent?

Description	This query returns the list of currently active alarms and errors.
	At *RST condition, this value is set to device-dependent.
Syntax	:FETCh:DATA:TELecom:AlarmERRor:CURRent?
Response Syntax	<Alarms_Errors>
Response(s)	**Alarms_Errors**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the list of currently active alarms and errors.
Example(s)	FETC:DATA:TEL:AERR:CURR?

:FETCh:DATA:TELecom:AlarmERRor:HISTory?

Description	This query returns the status of history of global alarms and errors.
	At *RST condition, this value is set to device-dependent.
Syntax	:FETCh:DATA:TELecom:AlarmERRor:HISTory?
Response Syntax	<Alarms_Errors>
Response(s)	**Alarms_Errors**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the history status of the global alarm/error,
	PRESENT, indicates that at least one alarm/error has occurred.
	ABSENT, indicates that no alarm/error occurred.
Example(s)	FETC:DATA:TEL:AERR:HIST?

:FETCh:DATA:TELecom:MODule:DETails:AHRevision?

Description	This query returns the assembly hardware revision.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Application buttons > About button > Module Details > Assembly Hardware Revision
Syntax	:FETCh:DATA:TELecom:MODule:DETails:AHRevision?
Response Syntax	<Revision>
Response(s)	**Revision**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Assembly hardware revision.
Example(s)	FETC:DATA:TEL:MOD:DET:AHR?
See Also	FETCh:DATA:TELecom:MODule:DETails:MID?

:FETCh:DATA:TELecom:MODule:DETails:CDATe?

Description	This query returns the calibration date.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Application buttons > About button > Module Details > Calibration Date
Syntax	:FETCh:DATA:TELecom:MODule:DETails:CDATe?
Response Syntax	<DateTime>
Response(s)	**DateTime**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Calibration Date.
Example(s)	FETC:DATA:TEL:MOD:DET:CDAT?
See Also	FETCh:DATA:TELecom:MODule:DETails:CDATe?

:FETCh:DATA:TELecom:MODule:DETails:MID?

Description	This query returns the module ID.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Application buttons > About button > Module Details > Module ID
Syntax	:FETCh:DATA:TELecom:MODule:DETails:MID?
Response Syntax	<ModuleId>
Response(s)	**ModuleId**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Module Id.
Example(s)	FETC:DATA:TEL:MOD:DET:MID?
See Also	FETCh:DATA:TELecom:MODule:DETails:SPVersion?

:FETCh:DATA:TELecom:MODule:DETails:SNUMber?

Description	This query returns the module serial number.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Application buttons > About button > Module Details > Serial Number
Syntax	:FETCh:DATA:TELecom:MODule:DETails:SNUMber?
Response Syntax	<Serial Number>
Response(s)	**Serial Number**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Module serial number.
Example(s)	FETC:DATA:TEL:MOD:DET:SNUM?
See Also	FETCh:DATA:TELecom:MODule:DETails:AHRevision?

:FETCh:DATA:TELecom:MODule:DETails:SPVersion?

Description	This query returns the software product version.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Application buttons > About button > Module Details > Software Product Version
Syntax	:FETCh:DATA:TELecom:MODule:DETails:SPVersion?
Response Syntax	<Version>
Response(s)	**Version**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Software Product version.
Example(s)	FETC:DATA:TEL:MOD:DET:SPV?
See Also	FETCh:DATA:TELecom:MODule:DETails:SNUMber?

:FETCh:DATA:TELecom:OPTical:LIVE:POWer:STATus?

Description	This query returns the status of the optical receiver power.
	At *RST condition, this value is device dependent.
	Navigation Path: Status Bar
Syntax	:FETCh:DATA:TELecom:OPTical:LIVE:POWer:STATus?
Response Syntax	<PowerStatus>
Response(s)	**PowerStatus**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the status of the receiver power.
	LOS: Loss Of Signal
	INRANGE: Power is in range
	OUTOFRANGE: Power is out of range
	CLOSETODAMAGE: Device is close to damage
Example(s)	FETC:DATA:TEL:OPT:LIVE:POW:STAT?
See Also	SOUR:DATA:TEL:OPT:ALAR:PORT:TYPE?

:FETCh:DATA:TELecom:OPTical:LIVE:POWer?

Description	This query returns the value of the optical receiver power.
	At *RST condition, this value is device dependent.
	Navigation Path: Status Bar
Syntax	:FETCh:DATA:TELecom:OPTical:LIVE:POWer?
Response Syntax	<Power>
Response(s)	**Power**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the value of the receiver power.
Example(s)	FETC:DATA:TEL:OPT:LIVE:POW?
See Also	SENSe:DATA:TELecom:OPTical:TX:POWer?

:FETCh:DATA:TELecom:TEST:TIME?

Description	This query returns the time elapsed since the beginning of the test.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Global Indicator > Time
Syntax	:FETCh:DATA:TELecom:TEST:TIME?
Response Syntax	<Time>
Response(s)	**Time:**
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the time elapsed since the beginning of the test.
Example(s)	SOUR:DATA:TEL:TEST ON
	FETC:DATA:TEL:TEST:TIME?
See Also	FETCh:DATA:TELecom:LOGGer:EVENts?

:OUTPut:TELecom:LASer

Description	This command enables/disables the laser. Applies to all lanes for parallel interfaces.
	At *RST condition, this value is set to ON.
	Navigation Path: Test Control > Laser button
Syntax	:OUTPut:TELecom:LASer <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the laser.
	ON: Enabled
	OFF: Disabled
Response Syntax	<Time>
Example(s)	OUTP:TEL:LAS ON
	OUTP:TEL:LAS?
	Returns: 1
See Also	SENSe:DATA:TELecom:ALASer

:OUTPut:TELecom:LASer?

Description	This query returns enable/disable status of the laser; for all lanes for parallel interfaces At *RST condition, this value is set to ON. Navigation Path: Test Control > Laser button
Syntax	:OUTPut:TELecom:LASer?
Response Syntax	<Set>
Response(s)	**Set:** The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the laser. 1, laser is enabled. 0, laser is disabled.
Example(s)	OUTP:TEL:LAS ON OUTP:TEL:LAS? Returns: 1
See Also	OUTPut:TELecom:LASer SENSe:DATA:TELecom:ALASer

:SOURce:DATA:TELecom:ControlCHAracter:MODE

Description	This command selects the control character operation mode for all trace commands/queries.
	At *RST condition, this value is set to STANDARD.
Syntax	:SOURce:DATA:TELecom:ControlCHAracter:MODE <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the character operation mode:
	STANdard: follows the G.709 standard. For queries, it transforms 'nul' characters into spaces.
	LITEral: uses T.50 control characters. Control characters can be entered in commands and are displayed for queries.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:CCHA:MODE LITERAL
	SOUR:DATA:TEL:OTN:OTU4:SM:SAPI:B16 <NUL><NUL>testing
	SOUR:DATA:TEL:OTN:OTU4:SM:SAPI:B16?
	Returns: <NUL><NUL>testing<NUL><NUL><NUL><NUL><NUL><NUL><NUL>
See Also	LINS[1..n]:SOURce:DATA:TELecom:CCHA:MODE?

:SOURce:DATA:TELecom:ControlCHAracter:MODE?

Description	This query returns the control character operation mode for all trace commands/queries.
	At *RST condition, this value is set to STANDARD.
Syntax	:SOURce:DATA:TELecom:ControlCHAracter:MODE?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the character operation mode:
	STANdard: follows the G.709 standard. For queries, it transforms 'nul' characters into spaces.
	LITEral: uses T.50 control characters. Control characters can be entered in commands and are displayed for queries.
Example(s)	SOUR:DATA:TEL:CCHA:MODE LITERAL
	SOUR:DATA:TEL:OTN:OTU4:SM:SAPI:B16 <NUL><NUL>testing
	SOUR:DATA:TEL:OTN:OTU4:SM:SAPI:B16?
	Returns: <NUL><NUL>testing<NUL><NUL><NUL><NUL><NUL><NUL><NUL>
See Also	LINS[1..n]:SOURce:DATA:TELecom:CCHA:MODE

:SOURce:DATA:TELecom:ETHernet:STReam:STATus

Description	This command enables/disables the transmission for all streams/clients.
	At *RST condition, this value is set to OFF.
	Navigation Path: Test Control > TX button
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:STATus <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the transmission:
	ON: Enables the transmission.
	OFF: Disables the transmission.
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:STR:STAT ON
	SOUR:DATA:TEL:ETH:STR:STAT?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ENABled

:SOURce:DATA:TELecom:ETHernet:STReam:STATus?

Description	This query returns the enables/disables status of the transmission for all streams/clients.
	At *RST condition, this value is set to OFF.
	Navigation Path: Test Control > TX button
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:STATus?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable transmission status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:STR:STA ON
	SOUR:DATA:TEL:ETH:STR:STAT?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ENABled?

:SOURce:DATA:TELecom:RESet

Description	This command clears the results, statistics, and logger content.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Test Control > Reset button
Syntax	:SOURce:DATA:TELecom:RESet
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:RES
See Also	SOURce:DATA:TELecom:RESTore:DEFault

:SOURce:DATA:TELecom:SONet:TEST:TYPE

Description	This command selects DSn/PDH BERT or NI/CSU Emulation test application. Note that for other test applications, the command SOURce:DATA:TELecom:TEST:TYPE must be used.
	At *RST condition, this value is device dependant.
	Navigation Path: Setup > Test Applications
Syntax	:SOURce:DATA:TELecom:SONet:TEST:TYPE <wsp><Ttype>
Parameter(s)	**Ttype**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the application type:
	DSNPDHBERT: DSn/PDH BERT
	NICSUemulation: NI/CSU Emulation
	SONETSDHBERT: SONET/SDH BERT (the command SOURce:DATA:TELecom:TEST:TYPE must be used)
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SON:TEST:TYPE DSNPDHBERT
	SOUR:DATA:TEL:SON:TEST:TYPE?
	Returns: DSNPDHBERT
See Also	SOURce:DATA:TELecom:TAPPlication:TEST:TYPE?
	SOURce:DATA:TELecom:TEST:TYPE

:SOURce:DATA:TELecom:SONet:TEST:TYPE?

Description	The query returns the selected application type which is either DSn/PDH BERT or NI/CSU Emulation. Note that for other test applications, the command SOURce:DATA:TELecom:TEST:TYPE? must be used.
	At *RST condition, this value is device dependant.
	Navigation Path: Setup > Test Applications
Syntax	:SOURce:DATA:TELecom:SONet:TEST:TYPE?
Response Syntax	<Ttype>
Response(s)	**Ttype**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the application type:
	DSNPDHBERT: DSn/PDH BERT
	NICSUemulation: NI/CSU Emulation
	SONETSDHBERT: SONET/SDH BERT (the command SOURce:DATA:TELecom:TEST:TYPE? must be used)
Example(s)	SOUR:DATA:TEL:SON:TEST:TYPE DSNPDHBERT
	SOUR:DATA:TEL:SON:TEST:TYPE?
	Returns: DSNPDHBERT
See Also	SOURce:DATA:TELecom:TAPPlication:TEST:TYPE
	SOURce:DATA:TELecom:TEST:TYPE?

:SOURce:DATA:TELecom:TEST

Description	This command starts and stops the test.
	At *RST condition, this value is set to OFF.
	Navigation Path: Test Control > Start/Stop button
Syntax	:SOURce:DATA:TELecom:TEST <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts or stops the test.
	ON: Starts the test
	OFF: Stops the test
Response Syntax	<Ttype>
Example(s)	SOUR:DATA:TEL:TEST ON
	SOUR:DATA:TEL:TEST?
	Returns: 1
See Also	SOURce:DATA:TELecom:TEST?

:SOURce:DATA:TELecom:TEST:TYPE

Description

This command selects the test application. Note that for DSn/PDH BERT and NI/CSU Emulation, the command SOURce:DATA:TELecom:SONet:TEST:TYPE must be used.

At *RST condition, this value is set to EtherBERT.

Navigation Path: Setup > Test Applications

Syntax

:SOURce:DATA:TELecom:TEST:TYPE <wsp><Type>

Parameter(s)

Type:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Select the test type.

1588PTP: 1588 PTP

CABLetest: Cable Test

CPRI: CPRI/OBSAI BERT

EBERT: EtherBERT

ETHERSAM: EtherSAM (Y.1564)

FLEXEBERT: FlexE BERT

FLEXOBERT: FlexO BERT

FCBERT: FC BERT

ISAM: iSAM

MCOTN: Multi-Channel OTN

OAM: Carrier Ethernet OAM

OTNBERT: OTN BERT

OTNSONETSDHBERT: OTN SONET/SDH BERT

RFC2544: RFC 2544

RFC6349: RFC 6349

SLOopback: Smart Loopback

SONETSDHBERT: SONET/SDH BERT

SONETSDHDSNPDHBERT: SONET/SDH - DSn/PDH BERT

SYNCE: SyncE

TCPThroughput: TCP Throughput

THROUGHMODE: Through Mode

TMONGEN: Traffic Gen & Mon

IOPTICS: IOptics

:SOURce:DATA:TELecom:TEST:TYPE

Response Syntax	\<Ttype\>
Example(s)	SOUR:DATA:TEL:TEST:TYPE EBERT
	SOUR:DATA:TEL:TEST:TYPE?
	Returns: EBERT
See Also	SOURce:DATA:TELecom:TEST:TYPE?
	SOURce:DATA:TELecom:SONet:TEST:TYPE

:SOURce:DATA:TELecom:TEST:TYPE?

Description	The query returns the test application.
	At *RST condition, this value is set to EtherBERT.
	Navigation Path: Setup > Test Applications
Syntax	:SOURce:DATA:TELecom:TEST:TYPE?
Response Syntax	<Type>

:SOURce:DATA:TELecom:TEST:TYPE?

Response(s)

Type:

The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.

Returns the test type.

15: DSn/PDH BERT

16: NI/CSU Emulation

1588PTP: 1588 PTP

CABLETEST: Cable Test

CPRI: CPRI/OBSAI BERT

EBERT: EtherBERT

ETHERSAM: EtherSAM (Y.1564)

FLEXEBERT: FlexE BERT

FLEXOBERT: FlexO BERT

FCBERT: FC BERT

ISAM: iSAM

MCOTN: Multi-Channel OTN

OAM: Carrier Ethernet OAM

OTNBERT: OTN BERT

OTNSONETSDHBERT: OTN SONET/SDH BERT

RFC2544: RFC 2544

RFC6349: RFC 6349

SLOopback: Smart Loopback

SONETSDHBERT: SONET/SDH BERT

SONETSDHDSNPDHBERT: SONET/SDH - DSn/PDH BERT

SYNCE: SyncE

TCPTHROUGHPUT: TCP Throughput

THROUGHMODE: Through Mode

TMONGEN: Traffic Gen & Mon

IOPTICS: IOptics

Example(s)

SOUR:DATA:TEL:TEST:TYPE EBERT

SOUR:DATA:TEL:TEST:TYPE?

Returns: EBERT

:SOURce:DATA:TELecom:TEST:TYPE?

See Also	SOURce:DATA:TELecom:TEST:TYPE
	SOURce:DATA:TELecom:SONet:TEST:TYPE

:SOURce:DATA:TELecom:TEST?

Description	This query returns the enable/disable status of test.
	At *RST condition, this value is set to OFF.
	Navigation Path: Test Control > Start/Stop button
Syntax	:SOURce:DATA:TELecom:TEST?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the test.
	1: indicates the test is started.
	0: indicates the test is stoped.
Example(s)	SOUR:DATA:TEL:TEST ON
	SOUR:DATA:TEL:TEST?
	Returns: 1
See Also	SOURce:DATA:TELecom:TEST

Test Configurator

:FETCh:DATA:TELecom:OPTical:MODule:STATus?

Description	This query returns the status for the optical module validation for high rate interfaces.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator
Syntax	:FETCh:DATA:TELecom:OPTical:MODule:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the status of the optical module validation:
	NOPTicalModule: No optical module
	VALidating: Validating
	POWerexceed: Power exceeded
	VALid: Valid transceiver
	INValid: Invalid transceiver
	UNABletovalidate: , Unable to validate the transceiver
	MAX: MAX is selected
	NoOpticalAdaptor: No optical adaptor
Example(s)	FETC:DATA:TEL:OPT:MOD:STAT?
See Also	FETCh:DATA:TELecom:MDIO:BULK:READ:INFormation?

:FETCh:DATA:TELecom:TRANsceiver:TFAult:STATus?

Description	This query returns the status of transaction faults seen on any transceiver involved in the test.
	At *RST condition, this value is set to ABSENT.
	Navigation Path: Setup > Test Configurator
Syntax	:FETCh:DATA:TELecom:TRANsceiver:TFAult:STATus?[<wsp><Direction>]
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	For decoupled tests, this parameter specifies the direction for which the transaction faults are queried:
	RX: Receive direction
	TX: Transmit direction
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the status of transaction faults seen on any transceiver involved in the test:
	ABSENT: No transaction faults seen
	PRESENT: Some transaction faults seen
Example(s)	FETCH:DATA:TEL:TRAN:TFA:STAT?
See Also	SOURce:DATA:TELecom:TRANsceiver:TFAult:ENABle
	SOURce:DATA:TELecom:PORT

Modify Structure

:FETCh:DATA:TELecom:DSNPdh:CLIent?

Description	This query returns the DSn/PDH client type.
	At *RST condition, this value is set to Pattern.
	Navigation Path: Setup > Test Configurator > Modify Structure > Client
Syntax	:FETCh:DATA:TELecom:DSNPdh:CLIent?
Response Syntax	<Client>
Response(s)	**Client**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the client type for DSN/PDH BERT application.
	PATTERN, Returns PATTERN as client type.
Example(s)	FETC:DATA:TEL:DSNPdh:CLIent?
	Returns: PATTERN
See Also	FETCh:DATA:TELecom:SDHSonet:FRAMing?

:FETCh:DATA:TELecom:DSNPdh:TYPE?

Description	This query returns the DSn/PDH multiplexing for decoupled test.
	At *RST condition, this value is set to DS1.
	Navigation Path: Setup > Test Configurator > Modify Structure > RX > DSn/PDH Multiplexing
	Navigation Path: Setup > Test Configurator > Modify Structure > Embedded DSn/PDH
Syntax	:FETCh:DATA:TELecom:DSNPdh:TYPE?
Response Syntax	<Type>

:FETCh:DATA:TELecom:DSNPdh:TYPE?

Response(s)	Type:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the DSn/PDH Multiplexing or Embedded DSn/PDH.
	DSn/PDH Multiplexing:
	DS1: DS1
	DS3: DS3
	DS3DS1: DS3/DS1
	DS3E1: DS3/E1
	E1: E1
	E3: E3
	E3E2E1: E3/E2/E1
	E4: E4
	E4E3: E4/E3
	E4E3E2: E4/E3/E2
	E4E3E2E1: E4/E3/E2/E1
	Embedded DSn/PDH:
	DS1: DS1
	DS3: DS3
	E1: E1
	E3: E3
	E4: E4
Example(s)	FETC:DATA:TELecom:DSNPdh:TYPE?
See Also	SOURce:DATA:TELecom:OTN:FRAMing
	SOURce:DATA:TELecom:OTN:FRAMing?

:FETCh:DATA:TELecom:SDHSonet:CLIent?

Description	This query returns the SONET/SDH client type.
	At *RST condition, this value is set to Pattern.
	Navigation Path: Setup > Test Configurator > Modify Structure > Client
Syntax	:FETCh:DATA:TELecom:SDHSonet:CLIent?
Response Syntax	\<Client\>
Response(s)	**Client**:
	The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA\> element.
	Returns the client type for SONET/SDH BERT application.
	PATTERN, Returns PATTERN as client type.
Example(s)	FETC:DATA:TEL:SDHS:CLI?
	Returns: PATTERN
See Also	FETCh:DATA:TELecom:SDHSonet:FRAMing?

:FETCh:DATA:TELecom:SDHSonet:FRAMing?

Description	This query returns the SONET/SDH framing.
	At *RST condition, this value is set to Framed.
	Navigation Path: Setup > Test Configurator > Modify Structure > Framing
Syntax	:FETCh:DATA:TELecom:SDHSonet:FRAMing?
Response Syntax	<Framing>
Response(s)	**Framing**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the framing.
	FRAMED
Example(s)	FETC:DATA:TEL:SDHS:FRAM?
	Returns: FRAMED
See Also	FETCh:DATA:TELecom:SONet:LINE:PM:STATus?

:SENSe:DATA:TELecom:ETHernet:PORT:TRANsceiver

Description	This command sets the RX interface/rate connector for Decoupled or Dual RX test.
	At *RST condition, this value is set to device dependant.
	Navigation Path: Setup > Test Configurator > Modify Structure > RX > Connector
Syntax	:SENSe:DATA:TELecom:ETHernet:PORT:TRANsceiver <wsp><Connector>
Parameter(s)	**Connector**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the transceiver mode for the instrument.
	BANTAM
	BNC
	RJ48C: RJ48C
	SFPPLUS: SFP+ Port 2
	SFP28A1: SFP28 Port A1
	SFP28A2: SFP28 Port A2
	SFP28B1: SFP28 Port B1
	SFP28B2: SFP28 Port B2
Response Syntax	<Framing>
Example(s)	SENS:DATA:TEL:ETH:PORT:TRAN BNC
See Also	SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

:SENSe:DATA:TELecom:ETHernet:PORT:TRANsceiver?

Description	This query returns the RX interface/rate connector for Decoupled or Dual RX test.
	At *RST condition, this value is set to device dependant.
	Navigation Path: Setup > Test Configurator > Modify Structure > RX > Connector
Syntax	:SENSe:DATA:TELecom:ETHernet:PORT:TRANsceiver?
Response Syntax	<Connector>
Response(s)	**Connector**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the interface/rate connector.
	BANTAM
	BNC
	RJ48C: RJ48C
	SFPPLUS: SFP+ Port 1
	SFP28A1: SFP28 Port A1
	SFP28A2: SFP28 Port A2
	SFP28B1: SFP28 Port B1
	SFP28B2: SFP28 Port B2
Example(s)	SENS:DATA:TEL:ETH:PORT:TRAN BNC
	SENS:DATA:TEL:ETH:PORT:TRAN?
	Returns: BNC
See Also	SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver

:SENSe:DATA:TELecom:ITYPe

Description	This command sets the RX interface/rate for Decoupled or Dual RX test.
	At *RST condition, this value is set to device dependant.
	Navigation Path: Setup > Test Configurator > Modify Structure > RX > Interface/Rate
Syntax	:SENSe:DATA:TELecom:ITYPe <wsp><Interface>
Parameter(s)	**Interface**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the RX interface/rate.
	DS1, DS3
	E1, E2, E3, E4
	OC1, OC3, OC12, OC48, OC192: respectively OC-1, OC-3, OC-12, OC-48, OC-192
	STM0, STM0E, STM1, STM1E, STM4, STM16, STM64: respectively STM-0, STM-0e, STM-1, STM-1e, STM-4, STM-16, STM-64
	STS1E, STS3E: respectively STS-1e, STS-3e
Response Syntax	<Connector>
Example(s)	SENS:DATA:TEL:ITYP DS3
See Also	SOURce:DATA:TELecom:TEST

:SENSe:DATA:TELecom:ITYPe?

Description	This query returns the RX interface/rate for Decoupled or Dual RX test.
	At *RST condition, this value is set to device dependant.
	Navigation Path: Setup > Test Configurator > Modify Structure > RX > Interface/Rate
Syntax	:SENSe:DATA:TELecom:ITYPe?
Response Syntax	<Interface>
Response(s)	**Interface**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the RX interface/rate.
	DS1, DS3
	E1, E2, E3, E4
	OC1, OC3, OC12, OC48, OC192: respectively OC-1, OC-3, OC-12, OC-48, OC-192
	STM0, STM0E, STM1, STM1E, STM4, STM16, STM64: respectively STM-0, STM-0e, STM-1, STM-1e, STM-4, STM-16, STM-64
	STS1E, STS3E: respectively STS-1e, STS-3e
Example(s)	SENS:DATA:TEL:ITYP DS3
	SENS:DATA:TEL:ITYP?
	Returns: DS3
See Also	SOURce:DATA:TELecom:TEST?

:SENSe:DATA:TELecom:SDHSonet:MULTiplex:TYPE

Description	This command select the SONET/SDH Multiplexing for both OTN-SONET/SDH BERT and SONET/SDH BERT test applications for RX component.
	Navigation Path: Setup > Text Configurator > Modify Structure > RX > SONET/SDH Multiplexing
Syntax	:SENSe:DATA:TELecom:SDHSonet:MULTiplex:TYPE <wsp><Type>

:SENSe:DATA:TELecom:SDHSonet:MULTiplex:TYPE

Parameter(s)	Type:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Select SONET/SDH Multiplexing.
	AU3: AU-3
	AU3TU11: AU-3/TU-11
	AU3TU12: AU-3/TU-12
	AU4: AU-4
	AU4TU3: AU-4/TU-3
	AU4TU11: AU-4/TU-11
	AU4TU12: AU-4/TU-12
	AU44C: AU-4-4c
	AU416C: AU-4-16c
	AU464C: AU-4-64c
	AU4256C: AU-4-256c
	STS1: STS-1
	STS1VT2: STS-1/VT-2
	STS1VT15: STS-1/VT-1.5
	STS3C: STS-3c
	STS12C: STS-12c
	STS48C: STS-48c
	STS192C: STS-192c
	STS768C: STS-768c
Response Syntax	<Interface>
Example(s)	SENS:DATA:TEL:SDHS:MULT:TYPE AU3TU12
	SENS:DATA:TEL:SDHS:MULT:TYPE?
	Returns: AU3TU12

:SENSe:DATA:TELecom:SDHSonet:MULTiplex:TYPE?

Description	This query returns the SONET/SDH Multiplexing for both OTN-SONET/SDH BERT and SONET/SDH BERT test applications for RX component.
	Navigation Path: Setup > Text Configurator > Modify Structure > RX > SONET/SDH Multiplexing
Syntax	:SENSe:DATA:TELecom:SDHSonet:MULTiplex:TYPE?

:SENSe:DATA:TELecom:SDHSonet:MULTiplex:TYPE?

Response Syntax

<Type>

Response(s)

Type:

The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.

Gets SONET/SDH Multiplexing.

AU3: AU-3

AU3TU11: AU-3/TU-11

AU3TU12: AU-3/TU-12

AU4: AU-4

AU4TU3: AU-4/TU-3

AU4TU11: AU-4/TU-11

AU4TU12: AU-4/TU-12

AU44C: AU-4-4c

AU416C: AU-4-16c

AU464C: AU-4-64c

AU4256C: AU-4-256c

STS1: STS-1

STS1VT2: STS-1/VT-2

STS1VT15: STS-1/VT-1.5

STS3C: STS-3c

STS12C: STS-12c

STS48C: STS-48c

STS192C: STS-192c

STS768C: STS-768c

Example(s)

SENS:DATA:TEL:SDHS:MULT:TYPE AU3TU12

SENS:DATA:TEL:SDHS:MULT:TYPE?

Returns: AU3TU12

:SOURce:DATA:TELecom:CPRI:EMULation:MODE

Description	This command sets the Emulation Mode.
	At *RST condition, this value is set to Base Station.
	Navigation Path: Setup > Test Configurator > Modify Structure > Emulation Mode
Syntax	:SOURce:DATA:TELecom:CPRI:EMULation:MODE[<wsp><Emulation Mode>]
Parameter(s)	**Emulation Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Emulation Mode Type value.
	BTS: Base station
	RRH: Remote Radio Head
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:CPRI:EMUL:MODE RRH
See Also	SOURce:DATA:TELecom:CPRI:FRAMing:TYPE

:SOURce:DATA:TELecom:CPRI:EMULation:MODE?

Description	This query returns the Emulation Mode.
	At *RST condition, this value is set to Base Station.
	Navigation Path: Setup > Test Configurator > Modify Structure > Emulation Mode
Syntax	:SOURce:DATA:TELecom:CPRI:EMULation:MODE?
Response Syntax	<Emulation Mode>
Response(s)	**Emulation Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Emulation Mode type.
	BTS: Base station
	RRH: Remote Radio Head
Example(s)	SOUR:DATA:TEL:CPRI:EMUL:MODE?
See Also	SOURce:DATA:TELecom:CPRI:FRAMing:TYPE?

:SOURce:DATA:TELecom:CPRI:FRAMing:TYPE

Description	This command sets the CPRI Framing type.
	At *RST condition, this value is set to Framed L2.
	Navigation Path: Setup > Test Configurator > Modify Structure > Framing
Syntax	:SOURce:DATA:TELecom:CPRI:FRAMing:TYPE[<wsp><Framing>]
Parameter(s)	**Framing**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Framing Type value.
	For CPRI:
	FRAMEDL2: Framed L2
	UNFRAMED: Unframed
	For OBSAI:
	OBSAI_FRAMEDL2: Framed L2
	OBSAI_UNFRAMED: Unframed
Response Syntax	<Emulation Mode>
Example(s)	SOUR:DATA:TEL:CPRI:FRAM:TYPE FRAMEDL2
See Also	SOURce:DATA:TELecom:CPRI:EMULation:MODE

:SOURce:DATA:TELecom:CPRI:FRAMing:TYPE?

Description	This query returns the CPRI Framing type.
	At *RST condition, this value is set to Framed L2.
	Navigation Path: Setup > Test Configurator > Modify Structure > Framing
Syntax	:SOURce:DATA:TELecom:CPRI:FRAMing:TYPE?
Response Syntax	<Framing>
Response(s)	**Framing**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Framing type.
	For CPRI:
	FRAMEDL2: Framed L2
	UNFRAMED: Unframed
	For OBSAI:
	OBSAI_FRAMEDL2: Framed L2
	OBSAI_UNFRAMED: Unframed
Example(s)	SOUR:DATA:TEL:CPRI:FRAM:TYPE?
See Also	SOURce:DATA:TELecom:CPRI:EMULation:MODE?

:SOURce:DATA:TELecom:CPRI:OBSai:VENDor:TYPE

Description	This command sets the Vendor.
	At *RST condition, this value is set to Generic.
	Nevigation Path: Setup > Test Configurator > Modify Structure > Vendor
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:VENDor:TYPE <wsp><Vendor>
Parameter(s)	**Vendor**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Vendor value.
	GENERIC : Generic
	ERICSSON : Ericsson
Response Syntax	<Framing>
Example(s)	SOUR:DATA:TEL:CPRI:OBS:VEND:TYPE GENERIC
See Also	SOURce:DATA:TELecom:CPRI:FRAMing:TYPE

:SOURce:DATA:TELecom:CPRI:OBSai:VENDor:TYPE?

Description	This command sets the Vendor. At *RST condition, this value is set to Generic. Nevigation Path: Setup > Test Configurator > Modify Structure > Vendor
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:VENDor:TYPE?
Response Syntax	<Vendor>
Response(s)	**Vendor**: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Sets the Vendor value. GENERIC : Generic ERICSSON : Ericsson
Example(s)	SOUR:DATA:TEL:CPRI:OBS:VEND:TYPE?
See Also	SOURce:DATA:TELecom:CPRI:FRAMing:TYPE?

:SOURce:DATA:TELecom:DSNPdh:TYPE

Description	This command selects the DSn/PDH multiplexing or embedded DSn/PDH.
	At *RST condition, this value is set to DS1.
	Navigation Path: Setup > Test Configurator > Modify Structure > DSn/PDH Multiplexing
	Navigation Path: Setup > Test Configurator > Modify Structure > Embedded DSn/PDH
Syntax	:SOURce:DATA:TELecom:DSNPdh:TYPE <wsp><Type>
Parameter(s)	**Type**:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the DSn/PDH Multiplexing or Embedded DSn/PDH.

DSn/PDH Multiplexing:
DS1: DS1
DS3: DS3
DS3DS1: DS3/DS1
DS3E1: DS3/E1
E1: E1
E3: E3
E3E2E1: E3/E2/E1
E4: E4
E4E3: E4/E3
E4E3E2: E4/E3/E2
E4E3E2E1: E4/E3/E2/E1

Embedded DSn/PDH:
DS1: DS1
DS3: DS3
E1: E1
E3: E3
E4: E4

:SOURce:DATA:TELecom:DSNPdh:TYPE

Response Syntax	\<Vendor\>
Example(s)	SOUR:DATA:TEL:DSNP:TYPE DS3E1
See Also	SOURce:DATA:TELecom:OTN:FRAMing
	SOURce:DATA:TELecom:OTN:FRAMing?

:SOURce:DATA:TELecom:DSNPdh:TYPE?

Description	This query returns the DSn/PDH mulitplexing or embedded DSn/PDH.
	At *RST condition, this value is set to DS1.
	Navigation Path: Setup > Test Configurator > Modify Structure > DSn/PDH Multiplexing
	Navigation Path: Setup > Test Configurator > Modify Structure > Embedded DSn/PDH
Syntax	:SOURce:DATA:TELecom:DSNPdh:TYPE?
Response Syntax	<DSnType>

:SOURce:DATA:TELecom:DSNPdh:TYPE?

Response(s)

DSnType:

The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.

Returns the DSn/PDH Multiplexing or Embedded DSn/PDH.

DSn/PDH Multiplexing:
DS1: DS1
DS3: DS3
DS3DS1: DS3/DS1
DS3E1: DS3/E1
E1: E1
E3: E3
E3E2E1: E3/E2/E1
E4: E4
E4E3: E4/E3
E4E3E2: E4/E3/E2
E4E3E2E1: E4/E3/E2/E1

Embedded DSn/PDH:
DS1: DS1
DS3: DS3
E1: E1
E3: E3
E4: E4

Example(s)

SOUR:DATA:TEL:DSNP:TYPE DS3E1
SOUR:DATA:TEL:DSNP:TYPE?
Returns: DS3E1

See Also

SOURce:DATA:TELecom:OTN:FRAMing
SOURce:DATA:TELecom:OTN:FRAMing?

:SOURce:DATA:TELecom:ETHernet:BERT:FRAMing

Description	This command sets the framing type.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Modify Structure > Framing
Syntax	:SOURce:DATA:TELecom:ETHernet:BERT:FRAMing <wsp><Layer>
Parameter(s)	**Layer**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the framing type for BERT application.
	FRAMEDLAYER1: Framed Layer 1
	FRAMEDLAYER2: Framed Layer 2
	FRAMEDLAYER3AND4: Framed Layer 3/4
	UNFRAMEDPCS: 20 Unframed PCS
	UNFRAMEDCAUI4: 4 Unframed CAUI-4
	UNFRAMEDXLAUI: 4 Unframed XLAUI
	UNFRAMEDWITHOUTSYNC: Unframed without Sync
	UNFRAMEDWITHSYNC: Unframed With Sync
	16UNFRAMED400GAUI16: 16 Unframed 400GAUI-16
	2UNFRAMED50GAUI2: 2 Unframed 50GAUI-2
	16UNFRAMED400GAUI8: 16 Unframed 400GAUI-8
	8UNFRAMED400GAUI8: 8 Unframed 400GAUI-8
	4UNFRAMED200GAUI4: 4 Unframed 200GAUI-4
	8UNFRAMED200GAUI4: 8 Unframed 200GAUI-4
Response Syntax	<DSnType>
Example(s)	SOUR:DATA:TEL:ETH:BERT:FRAM FRAMEDLAYER2
	SOUR:DATA:TEL:ETH:BERT:FRAM?
	Returns: FRAMEDLAYER2
See Also	SOURce:DATA:TELecom:TEST:TYPE
	SOURce:DATA:TELecom:ETHernet:BERT:FRAMing?

:SOURce:DATA:TELecom:ETHernet:BERT:FRAMing?

Description	This query returns the framing type.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Modify Structure > Framing
Syntax	:SOURce:DATA:TELecom:ETHernet:BERT:FRAMing?
Response Syntax	<Layer>
Response(s)	**Layer**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the framing type for BERT application.
	FRAMEDLAYER1: Framed Layer 1
	FRAMEDLAYER2: Framed Layer 2
	FRAMEDLAYER3AND4: Framed Layer 3/4
	UNFRAMEDPCS: 20 Unframed PCS
	UNFRAMEDCAUI4: 4 Unframed CAUI-4
	UNFRAMEDXLAUI: 4 Unframed XLAUI
	UNFRAMEDWITHOUTSYNC: Unframed without Sync
	UNFRAMEDWITHSYNC: Unframed With Sync
	16UNFRAMED400GAUI16: 16 Unframed 400GAUI-16
	2UNFRAMED50GAUI2: 2 Unframed 50GAUI-2
	16UNFRAMED400GAUI8: 16 Unframed 400GAUI-8
	8UNFRAMED400GAUI8: 8 Unframed 400GAUI-8
	4UNFRAMED200GAUI4: 4 Unframed 200GAUI-4
	8UNFRAMED200GAUI4: 8 Unframed 200GAUI-4
Example(s)	SOUR:DATA:TEL:ETH:BERT:FRAM FRAMEDLAYER2
	SOUR:DATA:TEL:ETH:BERT:FRAM?
	Returns: FRAMEDLAYER2
See Also	SOURce:DATA:TELecom:TEST:TYPE
	SOURce:DATA:TELecom:ETHernet:BERT:FRAMing

:SOURce:DATA:TELecom:ETHernet:PHY:TYPE

Description	This command sets the PHY type.
	At *RST condition, this value is set to OTHERS.
	Navigation Path: Setup > Test Configurator > Modify Structure > PHY Type
Syntax	:SOURce:DATA:TELecom:ETHernet:PHY:TYPE <wsp><PhyType>
Parameter(s)	**PhyType**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	CLR4: CLR4
	CWDM4: CWDM4
	OTHERS: Other
	SR4: SR4
	LR4_ER4: LR4/ER4
	AOC: AOC
	DAC: DAC
	OPTICAL: Optical
	DR1_FR1_LR1: DR1/FR1/LR1
	SRBD: SRBD
Response Syntax	<Layer>
Example(s)	SOUR:DATA:TEL:ETH:PHY:TYPE SR4
	SOUR:DATA:TEL:ETH:PHY:TYPE?
	Returns: SR4
See Also	SOURce:DATA:TELecom:ETHernet:PHY:TYPE

:SOURce:DATA:TELecom:ETHernet:PHY:TYPE?

Description	This query returns the PHY type.
	At *RST condition, this value is set to OTHERS.
	Navigation Path: Setup > Test Configurator > Modify Structure > PHY Type
Syntax	:SOURce:DATA:TELecom:ETHernet:PHY:TYPE?
Response Syntax	<PhyType>
Response(s)	**PhyType**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the PHY type.
	CLR4: CLR4
	CWDM4: CWDM4
	OTHERS: Others
	SR4: SR4
	LR4_ER4: LR4/
	AOC: AOC
	DAC: DAC
	OPTICAL: Optical
	DR1_FR1_LR1: DR1/FR1/LR1
	SRBD: SRBD
Example(s)	SOUR:DATA:TEL:ETH:PHY:TYPE SR4
	SOUR:DATA:TEL:ETH:PHY:TYPE?
	Returns: SR4
See Also	SOURce:DATA:TELecom:ETHernet:PHY:TYPE?

:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver

Description	This command selects the physical connector port.
	At *RST condition, this value is set device dependant.
	Navigation Path: Setup > Test Configurator > Modify Structure > Connector
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver <wsp><Connector>,[<OptionalConnectorInstance>]

:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver

Parameter(s)

Connector:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the physical port.

BANTAM

BNC

CFP4P1: CFP4 Port 1

CFP4A1: CFP4 Port A1

CFP4B1: CFP4 Port B1

CFP8P1: CFP8 Port 1

OSFPP1: OSFP Port 1

OSFPP2: OSFP Port 2 (Only applicable for modules 88481 and 88482)

QSFPP1, QSFPP2, QSPP3, QSFPP4: Respectively QSFP Port 1, Port 2, Port 3, and Port 4.

QSFP28A1, QSFP28A2: Respectively QSFP28 Port A1, and Port A2.

QSFP28B1, QSFP28B2: Respectively QSFP28 Port B1, and Port B2.

QSFP28P1, QSFP28P2, QSFP28P3, QSFP28P4: Respectively QSFP28 Port 1, Port 2, Port 3, and Port 4.

QSFP28ADAPTERP1, QSFP28ADAPTERP2, QSFP28ADAPTERP3, QSFP28ADAPTERP4: Respectively QSFP28 (With adapter) Port 1, Port 2, Port 3, and Port 4.

QSFP56DDP1, QSFP56DDP2: Respectively QSFP56-DD Port 1, and Port 2.

RJ45: RJ45 Port 1

RJ48C: RJ48C

SFPPLUS: SFP+ Port 1

SFPPLUSP2: SFP+ Port 2

SFP28A1, SFP28A2: Respectively SFP28 Port A1, and Port A2.

SFP28B1, SFP28B2: Respectively SFP28 Port B1, and Port B2.

SFP28RJ45A1, SFP28RJ45A2: Respectively SFP28RJ45 Port A1, and Port A2

SFP28RJ45B1, SFP28RJ45B2: Respectively SFP28RJ45 Port B1, and Port B2

:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver

Parameter(s)	**OptionalConnectorInstance**:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Used in FlexE only, selects the instance for which the connector is set.
	FIRST: First interface connector of the group from the top, in Modify Structure
	SECOND: Second interface connector of the group from the top, in Modify Structure
	THIRD: Third interface connector of the group from the top, in Modify Structure
	FOURTH: Fourth interface connector of the group from the top, in Modify Structure
Response Syntax	<PhyType>
Example(s)	SOUR:DATA:TEL:ETH:PORT:TRAN CFP4P1
	SOUR:DATA:TEL:ETH:PORT:TRAN?
	Returns: CFP4P1
	FlexE context:
	SOUR:DATA:TEL:ETH:PORT:TRAN QSFP28A2 FIRST
	SOUR:DATA:TEL:ETH:PORT:TRAN QSFP28B1 SECOND
	SOUR:DATA:TEL:ETH:PORT:TRAN? FIRST
	Returns: QSFP28A2
	SOUR:DATA:TEL:ETH:PORT:TRAN? SECOND
	Returns: QSFP28B1
See Also	SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

Description	This query returns the selected physical connector port.
	At *RST condition, this value is set to device dependant.
	Navigation Path: Setup > Test Configurator > Modify Structure > Connector
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?[<wsp><OptionalConnectorInstance>]
Parameter(s)	**OptionalConnectorInstance**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Used in FlexE only, selects the instance for which the connector is queried.
	FIRST: First interface connector of the group from the top, in Modify Structure
	SECOND: Second interface connector of the group from the top, in Modify Structure
	THIRD: Third interface connector of the group from the top, in Modify Structure
	FOURTH: Fourth interface connector of the group from the top, in Modify Structure
Response Syntax	<Connector>

:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

Response(s)	Connector:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the selected physical port.
	BANTAM
	BNC
	CFP4P1: CFP4 Port 1
	CFP4A1: CFP4 Port A1
	CFP4B1: CFP4 Port B1
	CFP8P1: CFP8 Port 1
	OSFPP1: OSFP Port 1
	OSFPP2: OSFP Port 2 (Only for modules 88481 and 88482)
	QSFPP1, QSFPP2, QSPP3, QSFPP4: Respectively QSFP Port 1, Port 2, Port 3, and Port 4.
	QSFP28A1, QSFP28A2: Respectively QSFP28 Port A1, and Port A2.
	QSFP28B1, QSFP28B2: Respectively QSFP28 Port B1, and Port B2.
	QSFP28P1, QSFP28P2, QSFP28P3, QSFP28P4: Respectively QSFP28 Port 1, Port 2, Port 3, and Port 4.
	QSFP28ADAPTERP1, QSFP28ADAPTERP2, QSFP28ADAPTERP3, QSFP28ADAPTERP4: Respectively QSFP28 (With adapter) Port 1, Port 2, Port 3, and Port 4.
	QSFP56DDP1, QSFP56DDP2: QSFP56-DD Port 1, and Port 2.
	RJ45: RJ45 Port 1
	RJ48C: RJ48C
	SFPPLUS: SFP+ Port 1
	SFPPLUSP2: SFP+ Port 2
	SFP28A1, SFP28A2: Respectively SFP28 Port A1, and Port A2.
	SFP28B1, SFP28B2: Respectively SFP28 Port B1, and Port B2.
	SFP28RJ45A1, SFP28RJ45A2: Respectively SFP28RJ45 Port A1, and Port A2
	SFP28RJ45B1, SFP28RJ45B2: Respectively SFP28RJ45 Port B1, and Port B2
	SFPPLUSRJ45P1, SFPPLUSRJ45P2: Respectively SFPPLUSRJ45 Port 1, and Port 2

:SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver?

Example(s)	SOUR:DATA:TEL:ETH:PORT:TRAN CFP4P1
	SOUR:DATA:TEL:ETH:PORT:TRAN?
	Returns: CFP4P1
	FlexE context:
	SOUR:DATA:TEL:ETH:PORT:TRAN QSFP28A2 FIRST
	SOUR:DATA:TEL:ETH:PORT:TRAN QSFP28B1 SECOND
	SOUR:DATA:TEL:ETH:PORT:TRAN? FIRST
	Returns: QSFP28A2
	SOUR:DATA:TEL:ETH:PORT:TRAN? SECOND
	Returns: QSFP28B1
See Also	SOURce:DATA:TELecom:ETHernet:PORT:TRANsceiver

:SOURce:DATA:TELecom:ETHernet:SLOopback:TRANsparent: MODE:ENABle

Description	This command enables/disables the loopback mode type for Smart Loopback application.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Modify Structure > Transparent
Syntax	:SOURce:DATA:TELecom:ETHernet:SLOopback:TRANsparent:MODE:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Connector>
Example(s)	SOUR:DATA:TEL:ETH:SLO:TRAN:MODE:ENAB ON
See Also	SOURce:DATA:TELecom:ETHernet:SLOopback:MODE?

:SOURce:DATA:TELecom:ETHernet:SLOopback:TRANsparent: MODE:ENABle?

Description	This query returns the status of the loopback mode type for Smart Loopback application.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Modify Structure > Transparent
Syntax	:SOURce:DATA:TELecom:ETHernet:SLOopback:TRANsparent:MODE:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:SLO:TRAN:MODE:ENAB?
See Also	SOURce:DATA:TELecom:ETHernet:SLOopback:MODE?

:SOURce:DATA:TELecom:FETHernet:GROup:PTYPe

Description	This command sets the PHY type for all port in the FlexE group.
	At *RST condition, this value is set to Others.
	Navigation Path: Setup > Test Configurator > Modify Structure > PHY Type
Syntax	:SOURce:DATA:TELecom:FETHernet:GROup:PTYPe <wsp><PhyType>
Parameter(s)	**PhyType**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	CLR4: CLR4
	CWDM4: CWDM4
	OTHERS: Others
	SR4: SR4
	LR4_ER4: LR4/ER4
	AOC: AOC
	DR1_FR1_LR1: DR1/FR1/LR1
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:GRO:PTYP SR4
	SOUR:DATA:TEL:FETH:GRO:PTYP?
	Returns: SR4
See Also	SOURce:DATA:TELecom:FETHernet:GROup:PTYPe?

:SOURce:DATA:TELecom:FETHernet:GROup:PTYPe?

Description	This query returns the PHY typ for all ports in the FlexE group..
	At *RST condition, this value is set to Others.
	Navigation Path: Setup > Test Configurator > Modify Structure > PHY Type
Syntax	:SOURce:DATA:TELecom:FETHernet:GROup:PTYPe?
Response Syntax	<PhyType>
Response(s)	**PhyType**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the PHY type:
	CLR4: CLR4
	CWDM4: CWDM4
	OTHERS: Others
	SR4: SR4
	LR4_ER4: LR4/ER4
	AOC: AOC
	DR1_FR1_LR1: DR1/FR1/LR1
Example(s)	SOUR:DATA:TEL:FETH:GRO:PTYP SR4
	SOUR:DATA:TEL:FETH:GRO:PTYP?
	Returns: SR4
See Also	SOURce:DATA:TELecom:FETHernet:GROup:PTYPe

:SOURce:DATA:TELecom:FETHernet:GROup:SIZE

Description	This command sets the Group Size in Modify Structure of FlexE.
	At *RST condition, this value is set to 100G.
	Navigation Path: Setup > Test Configurator > Modify Structure > Group Size
Syntax	:SOURce:DATA:TELecom:FETHernet:GROup:SIZE[<wsp><Group Size>]
Parameter(s)	**Group Size**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Select Group Size as
	50G
	100G
	200G
	300G
	400G
Response Syntax	<PhyType>
Example(s)	SOUR:DATA:TEL:FETH:GRO:SIZE 100G
	SOUR:DATA:TEL:FETH:GRO:SIZE?
	Returns: 100G
See Also	SOUR:DATA:TEL:FETH:GRO:CAL CALENDARB

:SOURce:DATA:TELecom:FETHernet:GROup:SIZE?

Description	This command gets the Group Size in Modify Structure of FlexE.
	At *RST condition, this value is set to 100G.
	Navigation Path: Setup > Test Configurator > Modify Structure > Group Size
Syntax	:SOURce:DATA:TELecom:FETHernet:GROup:SIZE?
Response Syntax	<Group Size>
Response(s)	**Group Size**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Group Size currently in use
Example(s)	SOUR:DATA:TEL:FETH:GRO:SIZE 100G
	SOUR:DATA:TEL:FETH:GRO:SIZE?
	Returns: 100G
See Also	SOUR:DATA:TEL:FETH:GRO:CAL?

:SOURce:DATA:TELecom:FETHernet:PORT:SELection

Description	This command selects the ports to be assigned to a FlexE group.
	At *RST condition, this value is set to (PORT1, PORT2).
	Navigation Path: Setup > Test Configurator > Modify Structure > Connector(s)
Syntax	:SOURce:DATA:TELecom:FETHernet:PORT:SELection <wsp><Ports>
Parameter(s)	Ports:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Select port(s) to be assigned to a FlexE group by entering in paranthesis each active port separated by a comma as follows: "(FIRST, SECOND, THIRD, FOURTH)", where:
	FIRST: First interface connector of the group from the top, in Modify Structure
	SECOND: Second interface connector of the group from the top, in Modify Structure
	THIRD: Third interface connector of the group from the top, in Modify Structure
	FOURTH: Fourth interface connector of the group from the top, in Modify Structure
	Note that the list of active ports should be inclosed in double quotes
Response Syntax	<Group Size>
Example(s)	SOUR:DATA:TEL:FETH:PORT:SEL "(FIRST, SECOND)"
	SOUR:DATA:TEL:FETH:PORT:SEL?
	Returns: "(FIRST, SECOND)"
See Also	SOURce:DATA:TELecom:FETHernet:PORT:SELection?

:SOURce:DATA:TELecom:FETHernet:PORT:SELection?

Description	This query returns the ports assigned to a FlexE group.
	At *RST condition, this value is set to "(FIRST)".
	Navigation Path: Setup > Test Configurator > Modify Structure > Connector(s)
Syntax	:SOURce:DATA:TELecom:FETHernet:PORT:SELection?
Response Syntax	<Ports>
Response(s)	**Ports**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns port(s) assigned to a FlexE group: "(FIRST, SECOND, THIRD, FOURTH)", where:
	FIRST: First interface connector of the group from the top, in Modify Structure
	SECOND: Second interface connector of the group from the top, in Modify Structure
	THIRD: Third interface connector of the group from the top, in Modify Structure
	FOURTH: Fourth interface connector of the group from the top, in Modify Structure
Example(s)	SOUR:DATA:TEL:FETH:PORT:SEL "(FIRST, FOURTH)"
	SOUR:DATA:TEL:FETH:PORT:SEL?
	Returns: "(FIRST, FOURTH)"
See Also	SOURce:DATA:TELecom:FETHernet:PORT:SELection

:SOURce:DATA:TELecom:FOTN:GROup:RATE:SELection

Description	This command selects the Interface Rate, OTUC Rate and the physical ports to be assigned to a FlexO group.
	At *RST condition, this value is set to (LANE4X25, OTUC4, (PORT1, PORT2, PORT3, PORT4)).
	Navigation Path: Setup > Test Configurator > Modify Structure > OTN, Port #
Syntax	:SOURce:DATA:TELecom:FOTN:GROup:RATE:SELection <wsp><Interface>, <OTUC Rate>, <Ports>
Parameter(s)	**Interface**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	LANE4X25: _100GFlexORs (4 Lanes) [103.125 Gbit/s]
	LANE4X50: _200GFlexORs (4 Lanes) [212.500 Gbit/s]
	LANE8X50: _400GFlexORs (8 Lanes) [412.500 Gbit/s]
	OTUC Rate:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of FlexO OTUC Rate
	OTUC1: OTUC1
	OTUC2: OTUC2
	OTUC3: OTUC3
	OTUC4: OTUC4
	Ports:
	The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element.
	Select all physical port(s) to be assigned to a FlexE group by entering in parantheses each port number separated by a comma as follows: (P1, P2, P3, P4) or (PORT1, PORT2, PORT3, PORT4).
Response Syntax	<Ports>
Example(s)	SOUR:DATA:TEL:FOTN:GROUP:RATE:SEL LANE4X25, OTUC1 (P1)
	SOUR:DATA:TEL:FOTN:GROUP:RATE:SEL?
	Returns: (LANE4X25, OTUC1, (PORT1))
See Also	SOURce:DATA:TELecom:FOTN:GROup:RATE:SELection?

:SOURce:DATA:TELecom:FOTN:GROup:RATE:SELection?

Description	This query returns the Interface Rate, OTUC Rate and the physical ports assigned to a FlexO group as a coma separated string containing: (Interface Rate, OTUC Rate, (List of Selected Ports))
	At *RST condition, this value is set to (LANE4X25, OTUC4, (PORT1, PORT2, PORT3, PORT4)).
	Navigation Path: Setup > Test Configurator > Modify Structure > OTN, Port #
Syntax	:SOURce:DATA:TELecom:FOTN:GROup:RATE:SELection?
Response Syntax	<Rate And Ports>
Response(s)	**Rate And Ports**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Return the OTUC Rate and the list of port assigned to a FlexO group.
Example(s)	SOUR:DATA:TEL:FOTN:GROUP:RATE:SEL LANE4X25, OTUC1 (P1)
	SOUR:DATA:TEL:FOTN:GROUP:RATE:SEL?
	Returns: (LANE4X25, OTUC1, (PORT1))
See Also	SOURce:DATA:TELecom:FOTN:GROup:RATE:SELection

:SOURce:DATA:TELecom:ITYPe

Description	This command sets the interface rate. At *RST condition, this value is device dependant. Navigation Path: Setup > Test Configurator > Modify Structure > Interface
Syntax	:SOURce:DATA:TELecom:ITYPe <wsp><Interface>

:SOURce:DATA:TELecom:ITYPe

Parameter(s)	Interface:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Sets the interface type.

101001000MELEC: 10/100/1000M Electrical

100MOPTICAL, 1GEOPTICAL, 10GELAN, 10GEWAN, 25GE: respectively 100M Optical, 1GE Optical, 10GE LAN, 10GE WAN, 25GE

1X, 2X, 4X, 8X, 10X, 16X, 32X, 64X: respectively Fibre Channel 1X, 2X, 4X, 8X, 10X, 16X, 32X, 64X

CPRI12G, CPRI24G, CPRI31G, CPRI49G, CPRI61G, CPRI98G, CPRI101G, CPRI243G: respectively CPRI 1.2G, 2.4G, 3.1G, 4.9G, 6.1G, 9.1G, 10.1G, 24.3G

DS1, DS3

E1, E2, E3, E4

LANE1X50: 50GE [53.125 Gbit/s]

LANE2X4X25: 2 x 100GE (4 Lanes) [103.125 Gbit/s]

LANE2X4X50: 2 x 200GE (4 Lanes) [212.500 Gbit/s]

LANE4X1X100: 4 x 100GE [106.25 Gbit/s]

LANE4X10: OTU3 (4 Lanes) [43.018 Gbit/s] or 40GE (4 Lanes) [41.25 Gbit/s]

LANE4X25: OTU4 (4 Lanes) [111.81 Gbit/s] or 100GE (4 Lanes) [103.125 Gbit/s]

LANE8X50: 400GE (8 Lanes) [412.500 Gbit/s]

LANE4X100: 400GE (4 Lanes) [412.500 Gbit/s]

LANE4X50: 200GE (4 Lanes) [212.500 Gbit/s]

LANE1X100: 100GE (1 Lane) [106.25 Gbit/s]

LANE2X50: 100GE (2 Lanes) [106.25 Gbit/s]

LANE8X1X50: 400GE (1 Lane) [53.125 Gbit/s]

LANE2X400: 800GE (4 Lane) [425 Gbit/s]

LANE8X100: [106.25 Gbit/s]

OBSAI15G, OBSAI31G, OBSAI61G: respectively OBSAI 1.5G, 3.1G, 6.1G

OC1, OC3, OC12, OC48, OC192: respectively OC-1, OC-3, OC-12, OC-48, OC-192

OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F: respectively OTU1, OTU1e, OTU1f, OTU2, OTU2e, OTU2f

:SOURce:DATA:TELecom:ITYPe

Parameter(s)	OTU3E1: OTU3e1 (4 Lanes) [44.571 Gbit/s]
	OTU3E2: OTU3e2 (4 Lanes) [44.583 Gbit/s]
	STM0, STM0E, STM1, STM1E, STM4, STM16, STM64: respectively STM-0, STM-0e, STM-1, STM-1e, STM-4, STM-16, STM-64
	STS1E, STS3E: respectively STS-1e, STS-3e
Response Syntax	<Rate And Ports>
Example(s)	SOUR:DATA:TEL:ITYP LANE4X25
	SOUR:DATA:TEL:ITYP?
	Returns: LANE4X25
See Also	SOURce:DATA:TELecom:TEST

:SOURce:DATA:TELecom:ITYPe?

Description	This query returns the interface rate.
	At *RST condition, this value is device dependant.
	Navigation Path: Setup > Test Configurator > Modify Structure > Interface
Syntax	:SOURce:DATA:TELecom:ITYPe?
Response Syntax	\<Interface\>

:SOURce:DATA:TELecom:ITYPe?

Response(s)	Interface:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the interface type.
	101001000MELEC: 10/100/1000M Electrical
	100MOPTICAL, 1GEOPTICAL, 10GELAN, 10GEWAN, 25GE: respectively 100M Optical, 1GE Optical, 10GE LAN, 10GE WAN, 25GE
	1X, 2X, 4X, 8X, 10X, 16X, 32X, 64X: respectively Fibre Channel 1X, 2X, 4X, 8X, 10X, 16X, 32X, 64X
	CPRI12G, CPRI24G, CPRI31G, CPRI49G, CPRI61G, CPRI98G, CPRI101G, CPRI243G: respectively CPRI 1.2G, 2.4G, 3.1G, 4.9G, 6.1G, 9.1G, 10.1G, 24.3G
	DS1, DS3
	E1, E2, E3, E4
	LANE1X50: 50GE [53.125 Gbit/s]
	LANE2X4X25: 2 x 100GE (4 Lanes) [103.125 Gbit/s]
	LANE2X4X50: 2 x 200GE (4 Lanes) [212.500 Gbit/s]
	LANE4X1X100: 4 x 100GE [106.25 Gbit/s]
	LANE4X10: OTU3 (4 Lanes) [43.018 Gbit/s] or 40GE (4 Lanes) [41.25 Gbit/s]
	LANE4X25: OTU4 (4 Lanes) [111.81 Gbit/s] or 100GE (4 Lanes) [103.125 Gbit/s]
	LANE8X50: 400GE (8 Lanes) [412.500 Gbit/s]
	LANE4X50: 200GE (4 Lanes) [212.500 Gbit/s]
	LANE1X100: 100GE (1 Lane) [106.25 Gbit/s]
	LANE2X50: 100GE (2 Lanes) [106.25 Gbit/s]
	LANE8X1X50: 400GE (1 Lane) [53.125 Gbit/s]
	LANE2x400: 800GE (4 Lane) [425 Gbit/s]
	LANE8x100: [106.25 Gbit/s]
	OBSAI15G, OBSAI31G, OBSAI61G: respectively OBSAI 1.5G, 3.1G, 6.1G
	OC1, OC3, OC12, OC48, OC192: respectively OC-1, OC-3, OC-12, OC-48, OC-192
	OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F: respectively OTU1, OTU1e, OTU1f, OTU2, OTU2e, OTU2f

:SOURce:DATA:TELecom:ITYPe?

Response(s)	OTU3E1: OTU3e1 (4 Lanes) [44.571 Gbit/s]
	OTU3E2: OTU3e2 (4 Lanes) [44.583 Gbit/s]
	STM0, STM0E, STM1, STM1E, STM4, STM16, STM64: respectively STM-0, STM-0e, STM-1, STM-1e, STM-4, STM-16, STM-64
	STS1E, STS3E: respectively STS-1e, STS-3e
Example(s)	SOUR:DATA:TEL:ITYP LANE4X25
	SOUR:DATA:TEL:ITYP?
	Returns: LANE4X25
See Also	SOURce:DATA:TELecom:TEST?

:SOURce:DATA:TELecom:LANE

Description	This command sets the LANE number.
	At *RST condition, this value is set to LANE0.
	Navigation Path: Setup > Test configurator > Modify Structure > LANE
Syntax	:SOURce:DATA:TELecom:LANE <wsp><LANE>
Parameter(s)	**LANE**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	LANE0: LANE0
	LANE1: LANE1
	LANE2: LANE2
	LANE3: LANE3
Response Syntax	<Interface>
Example(s)	SOUR:DATA:TEL:LANE LANE1
	SOUR:DATA:TEL:LANE?
	Returns: LANE1
See Also	SOURce:DATA:TELecom:LANE

:SOURce:DATA:TELecom:LANE?

Description	This query returns the LANE number.
	At *RST condition, this value is set to LANE0.
	Navigation Path: Setup > Test configurator > Modify Structure > LANE
Syntax	:SOURce:DATA:TELecom:LANE?
Response Syntax	<LANE>
Response(s)	**LANE**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the LANE number.
	LANE0: LANE0
	LANE1: LANE1
	LANE2: LANE2
	LANE3: LANE3
Example(s)	SOUR:DATA:TEL:LANE LANE1
	SOUR:DATA:TEL:LANE?
	Returns: LANE1
See Also	SOURce;DATA:TELecom:LANE?

:SOURce:DATA:TELecom:ODU:TYPE

Description	This command selects the OTN Multiplexing including payload type.
	At *RST condition, this value is set to device dependant.
	Navigation Path: Setup > Test Configurator > Modify Structure > OTN Multiplexing
Syntax	:SOURce:DATA:TELecom:ODU:TYPE <wsp><Multiplexing>
Parameter(s)	**Multiplexing**:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the OTN Multiplexing. NOTE: Make sure the Client is properly set before using this command.

ODU1: ODU1 for Pattern client
O1ODU0: ODU1-PT20/ODU0 for Pattern client
O1ODU0GMP: ODU1-PT20/ODU0 for 1 GbE client

ODU2: ODU2 for Pattern or 10 GbE client
O2GMPODU0: ODU2-PT21/ODU0 for Pattern client
O2GMPODU0GMP: ODU2-PT21/ODU0 for 1 GbE client
O2GMPODUFLEX: ODU2-PT21/ODUflex for Pattern or Ethernet (flex/GFP-F) client
O2O1ODU0: ODU2-PT20/ODU1-PT20/ODU0 for Pattern client
O2O1ODU0GMP: ODU2-PT20/ODU1-PT20/ODU0 for 1 GbE client
O2ODU1: ODU2-PT20/ODU1 for Pattern client
O2PT21O1ODU0: ODU2-PT21/ODU1-PT20/ODU0 for Pattern client
O2PT21O1ODU0GMP: ODU2-PT21/ODU1-PT20/ODU0 for 1 GbE client
O2PT21ODU1: ODU2-PT21/ODU1 for Pattern client

ODU1E: ODU1e for Pattern or 10 GbE client
ODU2E: ODU2e for Pattern or 10 GbE client
ODU1F: ODU1f for Pattern client
ODU2F: ODU2f for Pattern client
ODU3E1: ODU3e1 for Pattern client
ODU3E2: ODU3e2 for Pattern client

:SOURce:DATA:TELecom:ODU:TYPE

Parameter(s)

O3: ODU3 for Pattern or 40 GbE client

O3GMPODUFLEX: ODU3-PT21/ODUflex for Pattern or Ethernet (flex/GFP-F) client

O3O1ODU0: ODU3-PT20/ODU1-PT20/ODU0 for Pattern client

O3O1ODU0GMP: ODU3-PT20/ODU1-PT20/ODU0 for 1 GbE client

O3O2O1ODU0: ODU3-PT20/ODU2-PT20/ODU1-PT20/ODU0 for Pattern client

O3O2O1ODU0GMP: ODU3-PT20/ODU2-PT20/ODU1-PT20/ODU0 for 1 GbE client

O3O2ODU1: ODU3-PT20/ODU2-PT20/ODU1 for Pattern client

O3O2PT21O1ODU0: ODU3-PT20/ODU2-PT21/ODU1-PT20/ODU0 for Pattern client

O3O2PT21O1ODU0GMP: ODU3-PT20/ODU2-PT21/ODU1-PT20/ODU0 for 1 GbE client

O3O2PT21ODU1: ODU3-PT20/ODU2-PT21/ODU1 for Pattern client

O3ODU0: ODU3-PT21/ODU0 for Pattern client

O3ODU0GMP: ODU3-PT21/ODU0 for 1 GbE client

O3ODU1: ODU3-PT20/ODU1 for Pattern client

O3ODU2: ODU3-PT20/ODU2 for Pattern or 10 GbE client.

O3PT21O1ODU0: ODU3-PT21/ODU1-PT20/ODU0 for Pattern client

O3PT21O1ODU0GMP: ODU3-PT21/ODU1-PT20/ODU0 for 1 GbE client

O3PT21O2O1ODU0: ODU3-PT21/ODU2-PT20/ODU1-PT20/ODU0 for Pattern client

O3PT21O2O1ODU0GMP: ODU3-PT21/ODU2-PT20/ODU1-PT20/ODU0 for 1 GbE client

O3PT21O2ODU1: ODU3-PT21/ODU2-PT20/ODU1 for Pattern client

O3PT21O2PT21O1ODU0: ODU3-PT21/ODU2-PT21/ODU1-PT20/ODU0 for Pattern client

O3PT21O2PT21O1ODU0GMP: ODU3-PT21/ODU2-PT21/ODU1-PT20/ODU0 for 1 GeE client

O3PT21O2PT21ODU1: ODU3-PT21/ODU2-PT21/ODU1 for Pattern client

O3PT21ODU1: ODU3-PT21/ODU1 for Pattern client

O3PT21ODU2: ODU3-PT21/ODU2 for Pattern or 10 GbE client

O4: ODU4 for Pattern or 100 GbE client

O4GMPO1ODU0: ODU4-PT21/ODU1-PT20/ODU0 for Pattern client

O4GMPO1ODU0GMP: ODU4-PT21/ODU1-PT20/ODU0 for 1 GbE client

O4GMPO2ODU1: ODU4-PT21/ODU2-PT20/ODU1 for Pattern client

	:SOURce:DATA:TELecom:ODU:TYPE
Parameter(s)	O4GMPO2GMPODU0: ODU4-PT21/ODU2-PT21/ODU0 for Pattern client
	O4GMPO2GMPODU0GMP: ODU4-PT21/ODU2-PT21/ODU0 for 1 GbE client
	O4GMPO2GMPODUFLEX: ODU4-PT21/ODU2-PT21/ODUflex for Pattern or Ehternet (flex/GFP-F) client
	O4GMPO2O1ODU0: ODU4-PT21/ODU2-PT20/ODU1-PT20/ODU0 for Pattern client
	O4GMPO2O1ODU0GMP: ODU4-PT21/ODU2-PT20/ODU1-PT20/ODU0 for 1 GbE client
	O4GMPO2PT21O1ODU0: ODU4-PT21/ODU2-PT21/ODU1-PT20/ODU0 for Pattern client
	O4GMPO2PT21O1ODU0GMP: DU4-PT21/ODU2-PT21/ODU1-PT20/ODU0 for 1 GbE client
	O4GMPO2PT21ODU1: ODU4-PT21/ODU2-PT21/ODU1 for Pattern client
	O4GMPO3GMPODU0: ODU4-PT21/ODU3-PT21/ODU0 for Pattern client
	O4GMPO3GMPODU0GMP: ODU4-PT21/ODU3-PT21/ODU0 for 1 GbE client
	O4GMPO3O2O1ODU0: ODU4-PT21/ODU3-PT20/ODU2-PT20/ODU1-PT20/ODU0 for Pattern client
	O4GMPO3O2O1ODU0GMP: ODU4-PT21/ODU3-PT20/ODU2-PT20/ODU1-PT20/ODU0 for 1 GbE client
	O4GMPO3O2ODU1: ODU4-PT21/ODU3-PT20/ODU2-PT20/ODU1 for Pattern client
	O4GMPO3O2PT21O1ODU0: ODU4-PT21/ODU3-PT20/ODU2-PT21/ODU1-PT20/ODU0 for Pattern client
	O4GMPO3O2PT21O1ODU0GMP: ODU4-PT21/ODU3-PT20/ODU2-PT21/ODU1-PT20/ODU0 for 1 GbE client
	O4GMPO3O2PT21ODU1: ODU4-PT21/ODU3-PT20/ODU2-PT21/ODU1 for Pattern client
	O4GMPO3ODU1: ODU4-PT21/ODU3-PT20/ODU1 for Pattern client
	O4GMPO3ODU2: ODU4-PT21/ODU3-PT20/ODU2 for Pattern or 10 GbE client
	O4GMPO3PT21O2O1ODU0: ODU4-PT21/ODU3-PT21/ODU2-PT20/ODU1-PT20/ODU0 for Pattern client
	O4GMPO3PT21O2O1ODU0GMP: ODU4-PT21/ODU3-PT21/ODU2-PT20/ODU1-PT20/ODU0 for 1 GbE client
	O4GMPO3PT21O2ODU1: ODU4-PT21/ODU3-PT21/ODU2-PT20/ODU1 for Pattern client
	O4GMPO3PT21O2PT21O1ODU0: ODU4-PT21/ODU3-PT21/ODU2-PT21/ODU1-PT20/ODU0 for Pattern client

:SOURce:DATA:TELecom:ODU:TYPE

Parameter(s)	O4GMPO3PT21O2PT21O1ODU0GMP: ODU4-PT21/ODU3-PT21/ODU2-PT21/ODU1-PT20/ODU0 for 1 GbE client
	O4GMPO3PT21O2PT21ODU1: ODU4-PT21/ODU3-PT21/ODU2-Pt21/ODU1 for Pattern client
	O4GMPO3PT21ODU1: ODU4-PT21/ODU3-PT21/ODU1 for Pattern client
	O4GMPO3PT21ODU2: ODU4-PT21/ODU3-PT21/ODU2 for Pattern or 10 GbE client
	O4GMPODUFLEX: ODU4-PT21/ODUflex for Pattern or Ehternet (flex/GFP-F) client
	O4GMPODU1E: ODU4-PT21/ODU1e for Pattern or 10 GbE client
	O4GMPODU0GMP: ODU4-PT21/ODU0 for 1 GbE client
	O4GMPODU3GMP: ODU4-PT21/ODU3 for 40 GbE client
	O4ODU0: ODU4-PT21/ODU0 for Pattern client
	O4ODU1: ODU4-PT21/ODU1 for Pattern client
	O4ODU2: ODU4-PT21/ODU2 for Pattern or 10 GbE client
	O4ODU2E: ODU4-PT21/ODU2e for Pattern or 10 GbE client
	O4ODU3: ODU4-PT21/ODU3 for Pattern client
	O4ODUK: ODTUG4 PT21 for Pattern client (refer to ODU Channels for settings)
Response Syntax	<LANE>
Example(s)	OUR:DATA:TEL:OTN:CLI PETTERN
	SOUR:DATA:TEL:ODU:TYPE O3
	SOUR:DATA:TEL:ODU:TYPE?
	Returns: O3
See Also	SOURce:DATA:TELecom:OTN:FRAMing
	SOURce:DATA:TELecom:OTN:CLIent

:SOURce:DATA:TELecom:ODU:TYPE?

Description	This query returns the OTN Multiplexing for Optical Data Unit (ODU).
	At *RST condition, this value is set to ODU3.
	Navigation Path: Setup > Test Configurator > Modify Structure > OTN Multiplexing
Syntax	:SOURce:DATA:TELecom:ODU:TYPE?
Response Syntax	<ODUType>

:SOURce:DATA:TELecom:ODU:TYPE?

Response(s)

ODUType:

The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.

Returns the OTN Multiplexing including patyload type.

ODU1: ODU1 for Pattern client
O1ODU0: ODU1-PT20/ODU0 for Pattern client
O1ODU0GMP: ODU1-PT20/ODU0 for 1 GbE client

ODU2: ODU2 for Pattern or 10 GbE client
O2GMPODU0: ODU2-PT21/ODU0 for Pattern client
O2GMPODU0GMP: ODU2-PT21/ODU0 for 1 GbE client
O2GMPODUFLEX: ODU2-PT21/ODUflex for Pattern or Ethernet (flex/GFP-F) client
O2O1ODU0: ODU2-PT20/ODU1-PT20/ODU0 for Pattern client
O2O1ODU0GMP: ODU2-PT20/ODU1-PT20/ODU0 for 1 GbE client
O2ODU1: ODU2-PT20/ODU1 for Pattern client
O2PT21O1ODU0: ODU2-PT21/ODU1-PT20/ODU0 for Pattern client
O2PT21O1ODU0GMP: ODU2-PT21/ODU1-PT20/ODU0 for 1 GbE client
O2PT21ODU1: ODU2-PT21/ODU1 for Pattern client

ODU1E: ODU1e for Pattern or 10 GbE client
ODU2E: ODU2e for Pattern or 10 GbE client
ODU1F: ODU1f for Pattern client
ODU2F: ODU2f for Pattern client
ODU3E1: ODU3e1 for Pattern client
ODU3E2: ODU3e2 for Pattern client

O3: ODU3 for Pattern or 40 GbE client
O3GMPODUFLEX: ODU3-PT21/ODUflex for Pattern or Ethernet (flex/GFP-F) client
O3O1ODU0: ODU3-PT20/ODU1-PT20/ODU0 for Pattern client

	:SOURce:DATA:TELecom:ODU:TYPE?
Response(s)	O3O1ODU0GMP: ODU3-PT20/ODU1-PT20/ODU0 for 1 GbE client
	O3O2O1ODU0: ODU3-PT20/ODU2-PT20/ODU1-PT20/ODU0 for Pattern client
	O3O2O1ODU0GMP: ODU3-PT20/ODU2-PT20/ODU1-PT20/ODU0 for 1 GbE client
	O3O2ODU1: ODU3-PT20/ODU2-PT20/ODU1 for Pattern client
	O3O2PT21O1ODU0: ODU3-PT20/ODU2-PT21/ODU1-PT20/ODU0 for Pattern client
	O3O2PT21O1ODU0GMP: ODU3-PT20/ODU2-PT21/ODU1-PT20/ODU0 for 1 GbE client
	O3O2PT21ODU1: ODU3-PT20/ODU2-PT21/ODU1 for Pattern client
	O3ODU0: ODU3-PT21/ODU0 for Pattern client
	O3ODU0GMP: ODU3-PT21/ODU0 for 1 GbE client
	O3ODU1: ODU3-PT20/ODU1 for Pattern client
	O3ODU2: ODU3-PT20/ODU2 for Pattern or 10 GbE client.
	O3PT21O1ODU0: ODU3-PT21/ODU1-PT20/ODU0 for Pattern client
	O3PT21O1ODU0GMP: ODU3-PT21/ODU1-PT20/ODU0 for 1 GbE client
	O3PT21O2O1ODU0: ODU3-PT21/ODU2-PT20/ODU1-PT20/ODU0 for Pattern client
	O3PT21O2O1ODU0GMP: ODU3-PT21/ODU2-PT20/ODU1-PT20/ODU0 for 1 GbE client
	O3PT21O2ODU1: ODU3-PT21/ODU2-PT20/ODU1 for Pattern client
	O3PT21O2PT21O1ODU0: ODU3-PT21/ODU2-PT21/ODU1-PT20/ODU0 for Pattern client
	O3PT21O2PT21O1ODU0GMP: ODU3-PT21/ODU2-PT21/ODU1-PT20/ODU0 for 1 GeE client
	O3PT21O2PT21ODU1: ODU3-PT21/ODU2-PT21/ODU1 for Pattern client
	O3PT21ODU1: ODU3-PT21/ODU1 for Pattern client
	O3PT21ODU2: ODU3-PT21/ODU2 for Pattern or 10 GbE client
	O4: ODU4 for Pattern or 100 GbE client
	O4GMPO1ODU0: ODU4-PT21/ODU1-PT20/ODU0 for Pattern client
	O4GMPO1ODU0GMP: ODU4-PT21/ODU1-PT20/ODU0 for 1 GbE client
	O4GMPO2ODU1: ODU4-PT21/ODU2-PT20/ODU1 for Pattern client
	O4GMPO2GMPODU0: ODU4-PT21/ODU2-PT21/ODU0 for Pattern client
	O4GMPO2GMPODU0GMP: ODU4-PT21/ODU2-PT21/ODU0 for 1 GbE client

	:SOURce:DATA:TELecom:ODU:TYPE?
Response(s)	O4GMPO2GMPODUFLEX: ODU4-PT21/ODU2-PT21/ODUflex for Pattern or Ehternet (flex/GFP-F) client
	O4GMPO2O1ODU0: ODU4-PT21/ODU2-PT20/ODU1-PT20/ODU0 for Pattern client
	O4GMPO2O1ODU0GMP: ODU4-PT21/ODU2-PT20/ODU1-PT20/ODU0 for 1 GbE client
	O4GMPO2PT21O1ODU0: ODU4-PT21/ODU2-PT21/ODU1-PT20/ODU0 for Pattern client
	O4GMPO2PT21O1ODU0GMP: DU4-PT21/ODU2-PT21/ODU1-PT20/ODU0 for 1 GbE client
	O4GMPO2PT21ODU1: ODU4-PT21/ODU2-PT21/ODU1 for Pattern client
	O4GMPO3GMPODU0: ODU4-PT21/ODU3-PT21/ODU0 for Pattern client
	O4GMPO3GMPODU0GMP: ODU4-PT21/ODU3-PT21/ODU0 for 1 GbE client
	O4GMPO3O2O1ODU0: ODU4-PT21/ODU3-PT20/ODU2-PT20/ODU1-PT20/ODU0 for Pattern client
	O4GMPO3O2O1ODU0GMP: ODU4-PT21/ODU3-PT20/ODU2-PT20/ODU1-PT20/ODU0 for 1 GbE client
	O4GMPO3O2ODU1: ODU4-PT21/ODU3-PT20/ODU2-PT20/ODU1 for Pattern client
	O4GMPO3O2PT21O1ODU0: ODU4-PT21/ODU3-PT20/ODU2-PT21/ODU1-PT20/ODU0 for Pattern client
	O4GMPO3O2PT21O1ODU0GMP: ODU4-PT21/ODU3-PT20/ODU2-PT21/ODU1-PT20/ODU0 for 1 GbE client
	O4GMPO3O2PT21ODU1: ODU4-PT21/ODU3-PT20/ODU2-PT21/ODU1 for Pattern client
	O4GMPO3ODU1: ODU4-PT21/ODU3-PT20/ODU1 for Pattern client
	O4GMPO3ODU2: ODU4-PT21/ODU3-PT20/ODU2 for Pattern or 10 GbE client
	O4GMPO3PT21O2O1ODU0: ODU4-PT21/ODU3-PT21/ODU2-PT20/ODU1-PT20/ODU0 for Pattern client
	O4GMPO3PT21O2O1ODU0GMP: ODU4-PT21/ODU3-PT21/ODU2-PT20/ODU1-PT20/ODU0 for 1 GbE client
	O4GMPO3PT21O2ODU1: ODU4-PT21/ODU3-PT21/ODU2-PT20/ODU1 for Pattern client
	O4GMPO3PT21O2PT21O1ODU0: ODU4-PT21/ODU3-PT21/ODU2-PT21/ODU1-PT20/ODU0 for Pattern client
	O4GMPO3PT21O2PT21O1ODU0GMP: ODU4-PT21/ODU3-PT21/ODU2-PT21/ODU1-PT20/ODU0 for 1 GbE client

:SOURce:DATA:TELecom:ODU:TYPE?

Response(s)	O4GMPO3PT21O2PT21ODU1: ODU4-PT21/ODU3-PT21/ODU2-Pt21/ODU1 for Pattern client
	O4GMPO3PT21ODU1: ODU4-PT21/ODU3-PT21/ODU1 for Pattern client
	O4GMPO3PT21ODU2: ODU4-PT21/ODU3-PT21/ODU2 for Pattern or 10 GbE client
	O4GMPODUFLEX: ODU4-PT21/ODUflex for Pattern or Ehternet (flex/GFP-F) client
	O4GMPODU1E: ODU4-PT21/ODU1e for Pattern or 10 GbE client
	O4GMPODU0GMP: ODU4-PT21/ODU0 for 1 GbE client
	O4GMPODU3GMP: ODU4-PT21/ODU3 for 40 GbE client
	O4ODU0: ODU4-PT21/ODU0 for Pattern client
	O4ODU1: ODU4-PT21/ODU1 for Pattern client
	O4ODU2: ODU4-PT21/ODU2 for Pattern or 10 GbE client
	O4ODU2E: ODU4-PT21/ODU2e for Pattern or 10 GbE client
	O4ODU3: ODU4-PT21/ODU3 for Pattern client
	O4ODUK: ODTUG4 PT21 for Pattern client (refer to ODU Channels for settings)
Example(s)	SOUR:DATA:TEL:ODU:TYPE O3
	SOUR:DATA:TEL:ODU:TYPE?
	Returns: O3
See Also	SOURce:DATA:TELecom:OTN:FRAMing
	SOURce:DATA:TELecom:OTN:FRAMing?

:SOURce:DATA:TELecom:OPTical:PORT:LTYPe

Description	This command sets the host or media loopback type on optical modules that support it..
	At *RST condition, this value is set to NONE.
	Navigation Path: Setup > Test Configurator > Modify Structure > Host/Media Loopback
Syntax	:SOURce:DATA:TELecom:OPTical:PORT:LTYPe <wsp><Loopback>
Parameter(s)	**Loopback**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	NONE: No loopback
	HOST_SIDE_INPUT: Host side input loopback
	MEDIA_SIDE_OUTPUT: Media side output loopback
Response Syntax	<ODUType>
Example(s)	SOUR:DATA:TEL:OPT:PORT:LTYP NONE
	SOUR:DATA:TEL:OPT:PORT:LTYP?
	Returns: NONE
See Also	SOURce:DATA:TELecom:OPTical:PORT:LTYPe?
	SOURce:DATA:TELecom:OPTical:PORT:FREQuency?

:SOURce:DATA:TELecom:OPTical:PORT:LTYPe?

Description	This query returns the configuration of the host or media loopback type.
	At *RST condition, this value is set to NONE.
	Navigation Path: Setup > Test Configurator > Modify Structure > Host/Media Loopback
Syntax	:SOURce:DATA:TELecom:OPTical:PORT:LTYPe?
Response Syntax	<Loopback>
Response(s)	**Loopback**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the configuration of the host or media loopback type
	NONE: No loopback
	HOST_SIDE_INPUT: Host side input loopback
	MEDIA_SIDE_OUTPUT: Media side output loopback
Example(s)	SOURce:DATA:TELecom:OPTical:PORT:LTYPe NONE
	SOURce:DATA:TELecom:OPTical:PORT:LTYPe?
	Returns: NONE
See Also	SOURce:DATA:TELecom:OPTical:PORT:LTYPe
	SOURce:DATA:TELecom:OPTical:PORT:FREQuency?

:SOURce:DATA:TELecom:OTN:CLIent

Description	This command selects the client type for OTN test applications.
	At *RST condition, this value is set to PATTERN.
	Navigation Path: Setup > Test Configurator > Modify Structure > Client
Syntax	:SOURce:DATA:TELecom:OTN:CLIent <wsp><Client>
Parameter(s)	**Client**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the client type for OTN BERT application.
	1GBE: 1 GbE
	10GBE: 10 GbE
	100GBE: 100 GbE
	40GBE: 40GbE
	ETHERNETFLEX: Ethernet (flex/GFP-F)
	PATTERN: Pattern
Response Syntax	<Loopback>
Example(s)	SOUR:DATA:TEL:OTN:CLI ETHERNETFLEX
	SOUR:DATA:TEL:OTN:CLI?
	Returns: ETHERNETFLEX
See Also	SOURce:DATA:TELecom:OTN:FRAMing?

:SOURce:DATA:TELecom:OTN:CLIent?

Description	This query returns the client type for OTN test applications.
	At *RST condition, this value is set to PATTERN.
	Navigation Path: Setup > Test Configurator > Modify Structure > Client
Syntax	:SOURce:DATA:TELecom:OTN:CLIent?
Response Syntax	<Client>
Response(s)	**Client**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the client type for OTN BERT application.
	1GBE: 1 GbE
	10GBE: 10 GbE
	100GBE: 100 GbE
	40GBE: 40GbE
	ETHERNETFLEX: Ethernet (flex/GFP-F)
	PATTERN: Pattern
Example(s)	SOUR:DATA:TEL:OTN:CLI ETHERNETFLEX
	SOUR:DATA:TEL:OTN:CLI?
	Returns: ETHERNETFLEX
See Also	SOURce:DATA:TELecom:OTN:FRAMing

:SOURce:DATA:TELecom:OTN:FRAMing

Description	This command selects the framing for OTN BERT application.
	At *RST condition, this value is set to Framed.
	Navigation Path: Setup > Test Configurator > Modify Structure > Framing
Syntax	:SOURce:DATA:TELecom:OTN:FRAMing <wsp><Framing>
Parameter(s)	**Framing**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the frame layer type for OTN BERT application.
	FRAMED
	4UPHLANE: 4 Unframed Physical Lanes
	20ULOGLANE: 20 Unframed Physical Lanes
Response Syntax	<Client>
Example(s)	SOUR:DATA:TEL:OTN:FRAM FRAMED
	SOUR:DATA:TEL:OTN:FRAM?
	Returns: FRAMED
See Also	SOURce:DATA:TELecom:TEST:TYPE

:SOURce:DATA:TELecom:OTN:FRAMing?

Description	This query returns the framing for OTN BERT application.
	At *RST condition, this value is set to Framed.
	Navigation Path: Setup > Test Configurator > Modify Structure > Framing
Syntax	:SOURce:DATA:TELecom:OTN:FRAMing?
Response Syntax	<Framing>
Response(s)	**Framing**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the framing.
	FRAMED
	4UPHLANE: 4 Unframed Physical Lanes
	20ULOGLANE: 20 Unframed Physical Lane
Example(s)	SOUR:DATA:TEL:OTN:FRAM FRAMED
	SOUR:DATA:TEL:OTN:FRAM?
	Returns: FRAMED
See Also	SOURce:DATA:TELecom:TEST:TYPE?

:SOURce:DATA:TELecom:OTN:MULTiplex:ITYPe

Description	This command sets the embedded SONET/SDH signal for OTN-SONET/SDH BERT.
	At *RST condition, this value is device dependant.
	Navigation Path: Setup > Test Configurator > Modify Structure > Embedded SONET/SDH
Syntax	:SOURce:DATA:TELecom:OTN:MULTiplex:ITYPe <wsp><Interface>
Parameter(s)	**Interface**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the embedded SONET/SDH signal.
	OC12: OC-12
	OC192: OC-192
	OC3: OC-3
	OC48: OC-48
	OC768: OC-768
	STM1: STM-1
	STM16: STM-16
	STM256: STM-256
	STM4: STM-4
	STM64: STM-64
Response Syntax	<Framing>
Example(s)	SOUR:DATA:TEL:OTN:MULT:ITYP OC768
	SOUR:DATA:TEL:OTN:MULT:ITYP?
	Returns: OC768
See Also	SOURce:DATA:TELecom:HOP:TYPE

:SOURce:DATA:TELecom:OTN:MULTiplex:ITYPe?

Description	This query returns the embedded SONET/SDH signal for OTN-SONET/SDH BERT.
	At *RST condition, this value is device dependant.
	Navigation Path: Setup > Test Configurator > Modify Structure > Embedded SONET/SDH
Syntax	:SOURce:DATA:TELecom:OTN:MULTiplex:ITYPe?
Response Syntax	<Interface>
Response(s)	**Interface**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the embedded SONET/SDH signal:
	OC12: OC-12
	OC192: OC-192
	OC3: OC-3
	OC48: OC-48
	OC768: OC-768
	STM1: STM-1
	STM16: STM-16
	STM256: STM-256
	STM4: STM-4
	STM64: STM-64
Example(s)	SOUR:DATA:TEL:OTN:MULT:ITYP OC768
	SOUR:DATA:TEL:OTN:MULT:ITYP?
	Returns: OC768
See Also	SOURce:DATA:TELecom:HOP:TYPE?

:SOURce:DATA:TELecom:PACKetsync:PTP:EMODe

Description	This command sets the 1588 PTP Emulation Mode.
	At *RST condition, this value is set to Client.
	Navigation Path: Setup > Test Configurator > Modify Structure > Emulation Mode
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:EMODe <wsp><EmulationMode>
Parameter(s)	**EmulationMode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Emulation Mode.
	CLIENT: Client
	GM: Grand Master
Response Syntax	<Interface>
Example(s)	SOUR:DATA:TEL:PACK:PTP:EMOD CLIENT
	SOUR:DATA:TEL:PACK:PTP:EMOD?
	Return: CLIENT

:SOURce:DATA:TELecom:PACKetsync:PTP:EMODe?

Description	This query returns the 1588 PTP Emulation Mode.
	At *RST condition, this value is set to Client.
	Navigation Path: Setup > Test Configurator > Modify Structure > Emulation Mode,
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:EMODe?
Response Syntax	<EmulationMode>
Response(s)	**EmulationMode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Sets the Emulation Mode.
	CLIENT: Client
	GM: Grand Master
Example(s)	SOUR:DATA:TEL:PACK:PTP:EMOD CLIENT
	SOUR:DATA:TEL:PACK:PTP:EMOD?
	Return: CLIENT

:SOURce:DATA:TELecom:PACKetsync:PTP:TSOurce:ENABle

Description

This command enables/disables the Time Source for 1588 PTP GM Emulation Mode.

At *RST condition, this value is set to ON.

Navigation Path: Setup > Test Configurator > Modify Structure > Time Source

Syntax

:SOURce:DATA:TELecom:PACKetsync:PTP:TSOurce:ENABle <wsp><TimeSource>

Parameter(s)

TimeSource:

The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.

Enables/Disables:

OFF: Disables

ON: Enables

Response Syntax

<EmulationMode>

Example(s)

SOUR:DATA:TEL:PACK:PTP:TSO:ENAB ON

SOUR:DATA:TEL:PACK:PTP:TSO:ENAB?

Returns: 1

:SOURce:DATA:TELecom:PACKetsync:PTP:TSOurce:ENABle?

Description	This query returns the Time Source for 1588 PTP GM Emulation Mode.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > Modify Structure > Time Source
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:TSOurce:ENABle?
Response Syntax	<TimeSource>
Response(s)	**TimeSource**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:PACK:PTP:TSO:ENAB ON
	SOUR:DATA:TEL:PACK:PTP:TSO:ENAB?
	Returns: 1

:SOURce:DATA:TELecom:PORT

Description	This command selects the port used for subsequent commands/queries for test applications using more than one test port.
	At *RST condition, this value is set to device-dependent.

Syntax

:SOURce:DATA:TELecom:PORT <wsp><PORT>

Parameter(s)

PORT:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

For test using two ports:

FIRST: The first or Primary port (for compatibility purposes, P1 is also accepted).
SECOND: The second or Secondary port (for compatibility purposes, P2 is also accepted).

For FlexE:
P1: Port #1
P2: Port #2
P3: Port #3
P4: Port #4
A1: A1
A2: A2
B1: B1
B2: B2

Response Syntax

<TimeSource>

Example(s)

SOUR:DATA:TEL:PORT FIRST
SOUR:DATA:TEL:PORT?
Returns: FIRST

:SOURce:DATA:TELecom:PORT?

Description	This query returns the port used for subsequent commands/queries for test applications using more than one test port.
	At *RST condition, this value is set to device-dependent.
Syntax	:SOURce:DATA:TELecom:PORT?
Response Syntax	\<Port No\>

Response(s)

Port No:

The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA\> element.

Returns the selected port.

For test using two ports:

FIRST or P1: The first or Primary port
SECOND or P2: The second or Secondary port

For FlexE:
P1: Port #1
P2: Port #2
P3: Port #3
P4: Port #4
A1: A1
A2: A2
B1: B1
B2; B2

Example(s)

SOUR:DATA:TEL:PORT FIRST
SOUR:DATA:TEL:PORT?
Returns: FIRST

:SOURce:DATA:TELecom:SDHSonet:MULTiplex:TYPE

Description	This command select the SONET/SDH Multiplexing for both OTN-SONET/SDH BERT and SONET/SDH BERT test applications.
	Navigation Path: Setup > Text Configurator > Modify Structure > SONET/SDH Multiplexing
Syntax	:SOURce:DATA:TELecom:SDHSonet:MULTiplex:TYPE <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Select SONET/SDH Multiplexing.
	AU3: AU-3
	AU3TU11: AU-3/TU-11
	AU3TU12: AU-3/TU-12
	AU4: AU-4
	AU4TU3: AU-4/TU-3
	AU4TU11: AU-4/TU-11
	AU4TU12: AU-4/TU-12
	AU44C: AU-4-4c
	AU416C: AU-4-16c
	AU464C: AU-4-64c
	AU4256C: AU-4-256c
	STS1: STS-1
	STS1VT2: STS-1/VT-2
	STS1VT15: STS-1/VT-1.5
	STS3C: STS-3c
	STS12C: STS-12c
	STS48C: STS-48c
	STS192C: STS-192c
	STS768C: STS-768c
Response Syntax	<Port No>
Example(s)	SOUR:DATA:TEL:SDHS:MULT:TYPE AU3
	SOUR:DATA:TEL:SDHS:MULT:TYPE?
	Returns: AU3

:SOURce:DATA:TELecom:SDHSonet:MULTiplex:TYPE?

Description	This query returns the SONET/SDH Multiplexing for both OTN-SONET/SDH BERT and SONET/SDH BERT test applications.
	Navigation Path: Setup > Text Configurator > Modify Structure > SONET/SDH Multiplexing
Syntax	:SOURce:DATA:TELecom:SDHSonet:MULTiplex:TYPE?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Gets SONET/SDH Multiplexing.
	AU3: AU-3
	AU3TU11: AU-3/TU-11
	AU3TU12: AU-3/TU-12
	AU4: AU-4
	AU4TU3: AU-4/TU-3
	AU4TU11: AU-4/TU-11
	AU4TU12: AU-4/TU-12
	AU44C: AU-4-4c
	AU416C: AU-4-16c
	AU464C: AU-4-64c
	AU4256C: AU-4-256c
	STS1: STS-1
	STS1VT2: STS-1/VT-2
	STS1VT15: STS-1/VT-1.5
	STS3C: STS-3c
	STS12C: STS-12c
	STS48C: STS-48c
	STS192C: STS-192c
	STS768C: STS-768c
Example(s)	SOUR:DATA:TEL:SDHS:MULT:TYPE AU3
	SOUR:DATA:TEL:SDHS:MULT:TYPE?
	Returns: AU3

:SOURce:DATA:TELecom:SOAM:TYPE

Description	This command sets the OAM type.
	At *RST condition, this value is set to Ethernet OAM.
	Navigation Path: Setup > Test Configurator > Modify Structure > OAM Type
Syntax	:SOURce:DATA:TELecom:SOAM:TYPE[<wsp><Type>]
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects OAM type
	EOAM: the Ethernet OAM
	MOAM: the MPLS-TP OAM
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:SOAM:TYPE MOAM
	SOUR:DATA:TEL:SOAM:TYPE?
	Returns: MOAM
See Also	SOURce:DATA:TELecom:SOAM:MODE

:SOURce:DATA:TELecom:SOAM:TYPE?

Description	This query returns the OAM type.
	At *RST condition, this value is set to Ethernet OAM.
	Navigation Path: Setup > Test Configurator > Modify Structure > OAM Type
Syntax	:SOURce:DATA:TELecom:SOAM:TYPE?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the OAM type.
	EOAM, Ethernet OAM is selected.
	MOAM, MPLS-TP OAM is selected.
	LOAM, Link OAM is selected.
Example(s)	SOUR:DATA:TEL:SOAM:TYPE EOAM
	SOUR:DATA:TEL:SOAM:TYPE?
	Returns: EOAM
See Also	SOURce:DATA:TELecom:SOAM:MODE?

:SOURce:DATA:TELecom:TOPology

Description	This command selects the topology type.
	At *RST condition, this value is set to COUPLED.
	Navigation Path: Setup > Test Configurator > Modify structure > Topology
Syntax	:SOURce:DATA:TELecom:TOPology <wsp><TopologyType>
Parameter(s)	**TopologyType**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the topology type.
	COUPLED: Coupled (TX=RX)
	DECOUPLE: Decoupled
	DUALRX: Dual RX
	DUALPORT: Dual Port
	SINGLEPORT: Single Port
	THROUGH: Through
	THROUGHINTRUSIVE: Through Intrusive
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:TOP COUPLED
	SOUR:DATA:TEL:TOP?
	Returns: COUPLED
See Also	SOURce:DATA:TELecom:TAPPlication:TEST:TYPE?

:SOURce:DATA:TELecom:TOPology?

Description	The query returns the topology type.
	At *RST condition, this value is set to COUPLED.
	Navigation Path: Setup > Test Configurator > Modify structure > Topology
Syntax	:SOURce:DATA:TELecom:TOPology?
Response Syntax	<TopologyType>
Response(s)	**TopologyType**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the topology type.
	COUPLED: Coupled (TX=RX)
	DECOUPLE: Decoupled
	DUALRX: Dual RX
	DUALPORT: Dual Port
	SINGLEPORT: Single Port
	THROUGH: Through
	THROUGHINTRUSIVE: Through Intrusive
Example(s)	SOUR:DATA:TEL:TOP COUPLED
	SOUR:DATA:TEL:TOP?
	Returns: COUPLED
See Also	SOURce:DATA:TELecom:TAPPlication:TEST:TYPE

Clock

:INPut:TELecom:BACKplane:CLOCk

Description	This command sets the clock mode for synchronization at the input port.
	At *RST condition, this value is set to INTERNAL.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Clock Synchronization > Clock Mode
Syntax	:INPut:TELecom:BACKplane:CLOCk <wsp><Clock>
Parameter(s)	**Clock**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the clock mode for synchronization at the input port.
	INTernal: Internal clock of the unit (STRATUM 3)
	EXTernal: Clock received from an external clock signal
	BPLane: Backplane clock
	RECovered: Recovered clock
	EXT1PPS: External 1PPS
	INTGNSS: Internal GNSS
Response Syntax	<Status>
Example(s)	INP:TEL:BACK:CLOC REC
	INP:TEL:BACK:CLOC?
	Returns: RECOVERED
See Also	INPut:TELecom:BACKplane:CLOCk?

:INPut:TELecom:BACKplane:CLOCk?

Description	This query returns the clock mode for synchronization at the input port.
	At *RST condition, this value is set to INTERNAL.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Clock Synchronization > Clock Mode
Syntax	:INPut:TELecom:BACKplane:CLOCk?
Response Syntax	<Clock>
Response(s)	**Clock**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the clock mode for synchronization at the input port.
	INTernal: Internal clock of the unit (STRATUM 3)
	EXTernal: Clock received from an external clock signal
	BPLane: Backplane clock
	RECovered: Recovered clock
	EXT1PPS: External 1PPS
	INTGNSS: Internal GNSS
Example(s)	INP:TEL:BACK:CLOC REC
	INP:TEL:BACK:CLOC?
	Returns: RECOVERED
See Also	INPut:TELecom:BACKplane:CLOCk

:INPut:TELecom:BACKplane:STATus?

Description	This query returns the current state of the backplane.
	This command is not associated with any *RST value.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered Clock > Backplane > Backplane Clock
Syntax	:INPut:TELecom:BACKplane:STATus?
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Reports the current Backplane status.
	PRESENT, indicates that at least one error has occurred.
	ABSENT, indicates that no error occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	INP:TEL:BACK:STAT?
	Returns: the status of the backplane.
See Also	INPut:TELecom:BCLock:ENABle?

:INPut:TELecom:BCLock:ENABle

Description	This command sets the backplane clock enabled status.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered Clock > Backplane > Backplane Clock
Syntax	:INPut:TELecom:BCLock:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Current>
Example(s)	INP:TEL:BCL:ENAB ON
	INP:TEL:BCL:ENAB?
	Returns: 1
See Also	INPut:TELecom:BACKplane:STAtus?

:INPut:TELecom:BCLock:ENABle?

Description	This query returns the backplane clock value of the backplane.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered Clock > Backplane > Backplane Clock
Syntax	:INPut:TELecom:BCLock:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	INP:TEL:BCL:ENAB ON
	INP:TEL:BCL:ENAB?
	Returns: 1
See Also	INPut:TELecom:BACKplane:STAtus?

:INPut:TELecom:CLOCk:ALARm:STATus?

Description	This query returns the status Clock out.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator >External/Internal/Recovered Clock > Ext Clock Out > Ext Clock Out
Syntax	:INPut:TELecom:CLOCk:ALARm:STATus? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the status clock Out.
	LOC
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Reports the status of Clock out.
	PRESENT, indicates that at least one alarm has occurred.
	ABSENT, indicates that no alarm occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	INP:TEL:CLOC:ALAR:STAT? LOC
See Also	OUTPut:TELecom:CLOCk:ALARm:STATus?

:INPut:TELecom:CODE

Description	This command sets the interface line coding for the input port.
	At *RST condition, this value is set to B8ZS.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock Out > Line Coding
Syntax	:INPut:TELecom:CODE <wsp><Code>
Parameter(s)	**Code**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the interface line coding.
	B8ZS
	HDB3
	AMI
Response Syntax	<Status>
Example(s)	INP:TEL:LEV E1
	INP:TEL:CODE HDB3
	INP:TEL:CODE?
	Returns: HDB3
See Also	INPut:TELecom:CODE?

:INPut:TELecom:CODE?

Description	This query returns the interface line coding for the input port.
	At *RST condition, this value is set to B8ZS.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock Out > Line Coding
Syntax	:INPut:TELecom:CODE?
Response Syntax	<Code>
Response(s)	**Code**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the interface line coding.
	B8ZS, indicates the B8ZS as the interface line coding.
	HDB3, indicates the HDB3 as the interface line coding.
	AMI, indicates the AMI as the interface line coding.
Example(s)	INP:TEL:LEV E1
	INP:TEL:CODE HDB3
	INP:TEL:CODE?
	Returns: HDB3
See Also	INPut:TELecom:CODE

:INPut:TELecom:COUTput:FREQuency?

Description	This query returns the frequency of clock output.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ref Out > Frequency
Syntax	:INPut:TELecom:COUTput:FREQuency?
Response Syntax	<Frequency>
Response(s)	**Frequency**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the offset value of the frequency.
Example(s)	INP:TEL:COUT:FREQ?
See Also	INPut:TELecom:COUTput:STAtus?

:INPut:TELecom:COUTput:SOURce

Description	This command sets the current state of the clock output source.
	At *RST condition, if connector is CFP4 then this value is set to TX_MCLK and if connector is QSFP then this value is set to INT_DIV160.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Internal Clock > Ref Out > Source
Syntax	:INPut:TELecom:COUTput:SOURce <wsp><Source>
Parameter(s)	Source:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the clock output source.
	INT_DIV8
	INT_DIV40
	INT_DIV160
	TX_MCLK
Response Syntax	<Frequency>
Example(s)	INP:TEL:COUT:SOUR INTERNAL
See Also	INPut:TELecom:COUTput:SOURce?

:INPut:TELecom:COUTput:SOURce?

Description	This query returns the current state of the clock output source.
	This query is not associated with any *RST value.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Internal Clock > Ref Out > Source
Syntax	:INPut:TELecom:COUTput:SOURce?
Response Syntax	<Source>
Response(s)	**Source**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the status of the clock output source.
	INT_DIV8, indicates the clock output source is selected to internal 1/8 clock.
	INT_DIV40, indicates the clock output source is selected to internal 1/40 clock.
	INT_DIV160, indicates the clock output source is selected to internal 1/160 clock.
	TX_MCLK, indicates the clock output source is selected to TX MCLK.
Example(s)	INP:TEL:COUT:SOUR?
See Also	INPut:TELecom:COUTput:SOURce

:INPut:TELecom:COUTput:STATus?

Description	This query returns the current state of clock output.
	This query is not associated with any *RST value.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ref Out > Clock Out
Syntax	:INPut:TELecom:COUTput:STATus?
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current state of the clock out field.
	PRESENT, indicates that at least one error has occurred.
	ABSENT, indicates that no error occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	INP:TEL:COUT:STAT?
See Also	INPut:TELecom:COUTput:FREQuency?

:INPut:TELecom:FRAMing

Description	This command selects the interface framing.
	At *RST condition, this value is set to ESF.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock Out > Framing
Syntax	:INPut:TELecom:FRAMing <wsp><Framing>
Parameter(s)	**Framing**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the interface framing.
	SF: SF (Superframe)
	ESF: ESF (Extended Superframe)
	PCM30: PCM30 (Pulse Code Modulation)
	PCM30C4: PCM30 (Pulse Code Modulation) CRC (Cyclic Redundancy Check)
	PCM31: PCM31 (Pulse Code Modulation)
	PCM31C4: PCM31(Pulse Code Modulation) CRC (Cyclic Redundancy Check)
	SLC96: SLC96
Response Syntax	<Current>
Example(s)	INP:TEL:LEV DS1
	INP:TEL:FRAM ESF
	INP:TEL:FRAM?
	Returns: ESF
See Also	INPut:TELecom:FRAMing?

:INPut:TELecom:FRAMing?

Description	This query returns the interface framing.
	At *RST condition, this value is set to ESF.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock Out > Framing
Syntax	:INPut:TELecom:FRAMing?
Response Syntax	<Framing>
Response(s)	**Framing**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the interface framing.
	SF, indicates SF (Superframe) as the interface framing.
	ESF, indicates ESF (Extended Superframe) as the interface framing.
	PCM30, indicates PCM30 (Pulse Code Modulation) as the interface framing.
	PCM30C4, indicates PCM30 (Pulse Code Modulation) CRC (Cyclic Redundancy Check) as the interface framing.
	PCM31, indicates PCM31 (Pulse Code Modulation) as the interface framing.
	PCM31C4, indicates PCM31(Pulse Code Modulation) CRC (Cyclic Redundancy Check) as the interface framing.
	SLC96, indicates SLC96 as the interface framing.
Example(s)	INP:TEL:LEV DS1
	INP:TEL:FRAM ESF
	INP:TEL:FRAM?
	Returns: ESF
See Also	INPut:TELecom:FRAMing

:INPut:TELecom:LBO

Description	This command sets the value for the Line Build Out interface.
	At *RST condition, this value is set to DSX133.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock Out > LBO
Syntax	:INPut:TELecom:LBO <wsp><Lbo>
Parameter(s)	**Lbo**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the value for the Line Build Out interface.
	DSX655
	DSX533
	DSX399
	DSX266
	DSX133
Response Syntax	<Framing>
Example(s)	INP:TEL:LBO DSX266
	INP:TEL:LBO?
	Returns: DSX266
See Also	INPut:TELecom:LEVel

:INPut:TELecom:LBO?

Description	This query returns the value for the Line Build Out interface.
	At *RST condition, this value is set to DSX133.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock Out > LBO
Syntax	:INPut:TELecom:LBO?
Response Syntax	<Clock>
Response(s)	**Clock**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the value for the Line Build Out interface.
	DSX655, sets the value as DSX655.
	DSX533, sets the value as DSX533.
	DSX399, sets the value as DSX399.
	DSX266, sets the value as DSX266.
	DSX133, sets the value as DSX133.
Example(s)	INP:TEL:LBO?
	Returns: DSX133
See Also	INPut:TELecom:LEVel?

:INPut:TELecom:LEVel

Description	This command sets the internal timing interface input level for the input port.
	At *RST condition, this value is set to DS1.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock Out > Interface
Syntax	:INPut:TELecom:LEVel <wsp><Level>
Parameter(s)	**Level**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the internal timing interface input level.
	2MHZ: 2 MHz
	DS1: DS1
	E1: E1
	NONE: None
Response Syntax	<Clock>
Example(s)	INP:TEL:LEV DS1
	INP:TEL:LEV?
	Returns: DS1
See Also	INPut:TELecom:LEVel?

:INPut:TELecom:LEVel?

Description	This query returns the internal timing interface input level for the input port.
	At *RST condition, this value is set to DS1.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock Out > Interface
Syntax	:INPut:TELecom:LEVel?
Response Syntax	<Level>
Response(s)	**Level**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the internal timing interface input level.
	2MHZ: 2 MHz
	DS1: DS1
	E1: E1
	NONE: None
Example(s)	INP:TEL:LEV DS1
	INP:TEL:LEV?
	Returns: DS1
See Also	INPut:TELecom:LBO?

:INPut:TELecom:TRIButary:CLOCk

Description	This command sets the Tributary Synchronization Clock Mode.
	At *RST condition, this value is set to INTERNAL.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Tributary Synchronization > Clock Mode
Syntax	:INPut:TELecom:TRIButary:CLOCk <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the tributary synchronization clock mode.
	INTernal: Internal clock of the unit (STRATUM 3)
	EXTernal: Clock received from an external clock signal
	BPLane: Backplane clock
	RECovered: Recovered clock
Response Syntax	<Level>
Example(s)	INP:TEL:TRIB:CLOC REC
	INP:TEL:TRIB:CLOC?
	Returns: RECOVERED
See Also	INPut:TELecom:TRIButary:CLOCk?

:INPut:TELecom:TRIButary:CLOCk?

Description	This query returns the Tributary Synchronization Clock Mode.
	At *RST condition, this value is set to INTERNAL.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Tributary Synchronization > Clock Mode
Syntax	:INPut:TELecom:TRIButary:CLOCk?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns tributary synchronization clock mode.
	INTernal: Internal clock of the unit (STRATUM 3)
	EXTernal: Clock received from an external clock signal
	BPLane: Backplane clock
	RECovered: Recovered clock
Example(s)	INP:TEL:TRIB:CLOC REC
	INP:TEL:TRIB:CLOC?
	Returns: RECOVERED
See Also	INPut:TELecom:TRIButary:CLOCk?

:OUTPut:TELecom:CLOCk:ALARm:STATus?

Description	This query returns the status Clock in.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered Clock > Ext Clock In > Ext Clock In
Syntax	:OUTPut:TELecom:CLOCk:ALARm:STATus? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the status clock in.
	LOS
	LOF
	AIS
	FREQuency
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Reports the status of Clock out.
	PRESENT, indicates that at least one alarm has occurred.
	ABSENT, indicates that no alarm occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	OUTP:TEL:CLOC:ALAR:STAT? LOS
See Also	OUTPut:TELecom:BACKplane:STATus?

:OUTPut:TELecom:CLOCk:FREQuency:OFFSet?

Description	This query returns the positive or negative frequency offset between the standard rate specification and the rate from the received signal.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock In > Frequency Offset
Syntax	:OUTPut:TELecom:CLOCk:FREQuency:OFFSet?
Response Syntax	<Offset>
Response(s)	**Offset**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the frequency offset.
Example(s)	OUTP:TEL:LEV DS1
	OUTP:TEL:CLOC:FREQ:OFFS?
See Also	OUTPut:TELecom:CLOCk:FREQuency?

:OUTPut:TELecom:CLOCk:FREQuency?

Description	This query returns the received frequency signal rate (Hz).
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock In > Frequency
Syntax	:OUTPut:TELecom:CLOCk:FREQuency?
Response Syntax	<Frequency>
Response(s)	**Frequency**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the received clock rate.
Example(s)	OUTP:TEL:LEV DS1
	OUTP:TEL:CLOC:FREQ?
See Also	OUTPut:TELecom:CLOCk:FREQuency:OFFSet?

:OUTPut:TELecom:CODE

Description	This command sets the external timing line code for the output port.
	At *RST condition, this value is set to B8ZS.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock In > Line Coding
Syntax	:OUTPut:TELecom:CODE <wsp><Code>
Parameter(s)	**Code**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the external timing line code.
	B8ZS
	HDB3
	AMI
Response Syntax	<Frequency>
Example(s)	OUTP:TEL:LEV E1
	OUTP:TEL:CODE HDB3
	OUTP:TEL:CODE?
	Returns: HDB3
See Also	OUTPut:TELecom:CODE?

:OUTPut:TELecom:CODE?

Description	This query returns the external timing line code for the output port.
	At *RST condition, this value is set to B8ZS.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock In > Line Coding
Syntax	:OUTPut:TELecom:CODE?
Response Syntax	<Code>
Response(s)	**Code**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the external timing line code.
	B8ZS, B8ZS external timing line code is selected.
	HDB3, HDB3 external timing line code is selected.
	AMI, AMI external timing line code is selected.
Example(s)	OUTP:TEL:LEV E1
	OUTP:TEL:CODE HDB3
	OUTP:TEL:CODE?
	Returns: HDB3
See Also	OUTPut:TELecom:CODE

:OUTPut:TELecom:FRAMing

Description	This command selects the interface framing.
	At *RST condition, this value is set to ESF.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock In > Framing
Syntax	:OUTPut:TELecom:FRAMing <wsp><Framing>
Parameter(s)	**Framing**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the interface framing.
	SF: SF (Superframe)
	ESF: ESF (Extended Superframe)
	PCM30: PCM30 (Pulse Code Modulation)
	PCM30C4: PCM30 (Pulse Code Modulation) CRC (Cyclic Redundancy Check)
	PCM31: PCM31 (Pulse Code Modulation)
	PCM31C4: PCM31(Pulse Code Modulation) CRC (Cyclic Redundancy Check)
	SLC96: SLC96
Response Syntax	<Code>
Example(s)	OUTP:TEL:LEV DS1
	OUTP:TEL:FRAM ESF
	OUTP:TEL:FRAM?
	Returns: ESF
See Also	OUTPut:TELecom:FRAMing?

:OUTPut:TELecom:FRAMing?

Description	This query returns the interface framing.
	At *RST condition, this value is set to ESF.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock In > Framing
Syntax	:OUTPut:TELecom:FRAMing?
Response Syntax	<Framing>
Response(s)	**Framing**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the interface framing.
	SF, indicates SF (Superframe) as the interface framing.
	ESF, indicates ESF (Extended Superframe) as the interface framing.
	PCM30, indicates PCM30 (Pulse Code Modulation) as the interface framing.
	PCM30C4, indicates PCM30 (Pulse Code Modulation) CRC (Cyclic Redundancy Check) as the interface framing.
	PCM31, indicates PCM31 (Pulse Code Modulation) as the interface framing.
	PCM31C4, indicates PCM31(Pulse Code Modulation) CRC (Cyclic Redundancy Check) as the interface framing.
	SLC96, indicates SLC96 as the interface framing.
Example(s)	OUTP:TEL:LEV DS1
	OUTP:TEL:FRAM ESF
	OUTP:TEL:FRAM?
	Returns: ESF
See Also	OUTPut:TELecom:FRAMing

:OUTPut:TELecom:LEVel

Description	This command sets the external timing interface output level for the output port.
	At *RST condition, this value is set to NONE if 25G interface is in use, DS1 otherwise.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock In > Interface
Syntax	:OUTPut:TELecom:LEVel <wsp><Level>
Parameter(s)	**Level**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the external timing interface output level.
	10MHZ: 10 MHz
	2MHZ: 2 MHz
	DS1: DS1
	E1: E1
	NONE: None
Response Syntax	<Framing>
Example(s)	OUTP:TEL:LEV DS1
	OUTP:TEL:LEV?
	Returns: DS1
See Also	OUTPut:TELecom:LEVel?

:OUTPut:TELecom:LEVel?

Description	This query returns the external timing interface output level for the output port.
	At *RST condition, this value is set to DS1.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock In > Interface
Syntax	:OUTPut:TELecom:LEVel?
Response Syntax	<Level>
Response(s)	**Level**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the external timing interface output level.
	10MHZ: 10 MHz
	2MHZ: 2 MHz
	DS1: DS1
	E1: E1
	NONE: None
Example(s)	OUTP:TEL:LEV DS1
	OUTP:TEL:LEV?
	Returns: DS1
See Also	OUTPut:TELecom:LEVel

:OUTPut:TELecom:TERMination

Description	This command sets the termination mode for the external timing. At *RST condition, this value is set to TERM. Navigation Path: Setup > Test Configurator > External/Internal/Recovered Clock/Backplane > Ext Clock In > Termination Mode
Syntax	:OUTPut:TELecom:TERMination <wsp><Termination>
Parameter(s)	**Termination**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the termination modes. BRIDge: Bridge MON: DSX-Monitor TERM: Terminal
Response Syntax	<Level>
Example(s)	OUTP:TERM? OUTP:TEL:TERM TERM OUTP:TEL:TERM? Returns: TERM
See Also	OUTPut:TELecom:LEVel?

:OUTPut:TELecom:TERMination?

Description	This query returns the value of the termination modes for the external timing.
	At *RST condition, this value is set to TERM.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > Ext Clock In > Termination Mode
Syntax	:OUTPut:TELecom:TERMination?
Response Syntax	\<Termination\>
Response(s)	**Termination**:
	The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA\> element.
	Returns the termination mode.
	BRID: Bridge
	MON: DSX-Monitor
	TERM: Terminal
Example(s)	OUTP:TEL:TERM
	OUTP:TEL:TERM TERM
	OUTP:TEL:TERM?
	Returns: TERM
See Also	OUTPut:TELecom:LEVel

CFP4/CFP8/QSFP/SFP/SFP+

:SENSe:DATA:TELecom:OPTical:CFP:CLEI:PRESence?

Description	This query returns the CLEI presence of the CFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > CLEI Code
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:CLEI:PRESence?
Response Syntax	<CLEI>
Response(s)	**CLEI**: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the CLEI Presence of the CFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:CLEI:PRES?
See Also	SENSe:DATA:TELecom:OPTical:CFP:MODule:ID?

:SENSe:DATA:TELecom:OPTical:CFP:CONNector:TYPE?

Description	This query returns the connector type of the CFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > Connector Type
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:CONNector:TYPE?
Response Syntax	<Connector_Type>
Response(s)	**Connector_Type**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the connector type of the CFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:CONN:TYPE?
See Also	SENSe:DATA:TELecom:OPTical:CFP:SPEed?

:SENSe:DATA:TELecom:OPTical:CFP:FIRMware:VERSion?

Description	This query returns the firmware version of the CFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > Firmware Version
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:FIRMware:VERSion?
Response Syntax	<Firmware_Version>
Response(s)	**Firmware_Version**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the firmware version of the CFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:FIRM:VERS?
See Also	SENSe:DATA:TELecom:OPTical:CFP:CONNector:TYPE?

:SENSe:DATA:TELecom:OPTical:CFP:HLANe:SSPec?

Description	This query returns the Host Lane Signal Spec of the CFP module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > Host Lane Signal Spec
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:HLANe:SSPec?
Response Syntax	<Host_Lane_Signal_Spec>
Response(s)	**Host_Lane_Signal_Spec**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Host Lane Signal Spec of the CFP module.
Example(s)	SENS:DATA:TEL:OPT:CFP:HLAN:SSP?
See Also	SENSe:DATA:TELecom:OPTical:CFP:SCODe:MODulation?

:SENSe:DATA:TELecom:OPTical:CFP:LRATio:TYPE?

Description	This query returns the lane ratio of the CFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > Lane Ratio Type
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:LRATio:TYPE?
Response Syntax	<Lane_Ratio>
Response(s)	**Lane_Ratio**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the lane ratio of the CFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:LRAT:TYPE?
See Also	SENSe:DATA:TELecom:OPTical:CFP:WDM:TYPE?

:SENSe:DATA:TELecom:OPTical:CFP:MODE?

Description	This query returns the mode value of the CFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > Mode Link Length
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:MODE?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the fiber mode of CFP.
Example(s)	SENS:DATA:TEL:OPT:CFP:MODE?
See Also	SENSe:DATA:TELecom:OPTical:CFP:MODule:ID?

:SENSe:DATA:TELecom:OPTical:CFP:MODule:ID?

Description	This query returns the Module ID of the CFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > Module ID
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:MODule:ID?
Response Syntax	<Module_ID>
Response(s)	**Module_ID**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the module id of the CFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:MOD:ID?
See Also	SENSe:DATA:TELecom:OPTical:CFP:VENDor:NAMe?

:SENSe:DATA:TELecom:OPTical:CFP:PART:NUMBer?

Description	This query returns the part number of the CFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > Part Number
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:PART:NUMBer?
Response Syntax	<Part_Number>
Response(s)	**Part_Number**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the part number of the CFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:PART:NUMB?
See Also	SENSe:DATA:TELecom:OPTical:CFP:SERial:NUMBer?

:SENSe:DATA:TELecom:OPTical:CFP:POWer:CLASs?

Description	This query returns the power class of the CFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > Power Class
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:POWer:CLASs?
Response Syntax	<Power_Class>
Response(s)	**Power_Class**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the power class of the CFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:POW:CLAS?
See Also	SENSe:DATA:TELecom:OPTical:CFP:LRATio:TYPE?

:SENSe:DATA:TELecom:OPTical:CFP:REVision?

Description	This query returns the revision of the CFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > Hardware Revision
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:REVision?
Response Syntax	<Revision>
Response(s)	**Revision**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the revision of the CFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:REV?
See Also	SENSe:DATA:TELecom:OPTical:CFP:CONNector:TYPE?

:SENSe:DATA:TELecom:OPTical:CFP:SCODe:CODing?

Description	This query returns the Signal Code - Coding of the CFP module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > Signal Code - Coding
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:SCODe:CODing?
Response Syntax	<Signal_Code_Coding>
Response(s)	**Signal_Code_Coding**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Signal Code - Coding of the CFP module.
Example(s)	SENS:DATA:TEL:OPT:CFP:SCOD:COD?
See Also	SENSe:DATA:TELecom:OPTical:CFP:HLANe:SSPec?

:SENSe:DATA:TELecom:OPTical:CFP:SCODe:MODulation?

Description	This query returns the Signal Code - Modulation of the CFP module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > Signal Code - Modulation
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:SCODe:MODulation?
Response Syntax	<Signal_Code_Modulation>
Response(s)	**Signal_Code_Modulation**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Signal Code - Modulation of the CFP module.
Example(s)	SENS:DATA:TEL:OPT:CFP:SCOD:MOD?
See Also	SENSe:DATA:TELecom:OPTical:CFP:SCODe:CODing?

:SENSe:DATA:TELecom:OPTical:CFP:SERial:NUMBer?

Description	This query returns the serial number of the CFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > Serial Number
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:SERial:NUMBer?
Response Syntax	<Serial_Number>
Response(s)	**Serial_Number**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the serial number of the CFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:SER:NUMB?
See Also	SENSe:DATA:TELecom:OPTical:CFP:REVision?

:SENSe:DATA:TELecom:OPTical:CFP:SPEed?

Description	This query returns the speed of the CFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > Speed
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:SPEed?
Response Syntax	<Speed>
Response(s)	**Speed**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the speed of the CFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:SPE?
See Also	SENSe:DATA:TELecom:OPTical:CFP:TYPE?

:SENSe:DATA:TELecom:OPTical:CFP:TYPE?

Description	This query returns the type of the CFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > Type Compliance Code
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:TYPE?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the type of the CFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:TYPE?
See Also	SENSe:DATA:TELecom:OPTical:CFP:POWer:CLASs?

:SENSe:DATA:TELecom:OPTical:CFP:VENDor:NAMe?

Description	This query returns the vendor name of the CFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > Vendor Name
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:VENDor:NAMe?
Response Syntax	<Vendor>
Response(s)	**Vendor**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the vendor name of the CFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:VEND:NAME?
See Also	SENSe:DATA:TELecom:OPTical:CFP:PART:NUMBer?

:SENSe:DATA:TELecom:OPTical:CFP:WDM:TYPE?

Description	This query returns the WDM type of the CFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > CFP > WDM Type
Syntax	:SENSe:DATA:TELecom:OPTical:CFP:WDM:TYPE?
Response Syntax	<WDM_Type>
Response(s)	**WDM_Type**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the WDM Type of the CFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:WDM:TYPE?
See Also	SENSe:DATA:TELecom:OPTical:CFP:CLEI:PRESence?

:SENSe:DATA:TELecom:OPTical:OSFP:CLEi:CODe?

Description	This query returns the CLEI presence of the OSFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP > CLEI Code
Syntax	:SENSe:DATA:TELecom:OPTical:OSFP:CLEi:CODe?
Response Syntax	\<CLEI\>
Response(s)	**CLEI**:
	The response data syntax for the first parameter is defined as a \<STRING RESPONSE DATA\> element.
	Returns the CLEI Code of the OSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:CLEI:CODE?
See Also	SENSe:DATA:TELecom:OPTical:OSFP:MODule:ID?

:SENSe:DATA:TELecom:OPTical:OSFP:CONNector:TYPe?

Description	This query returns the connector type of the OSFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP > Connector Type
Syntax	:SENSe:DATA:TELecom:OPTical:OSFP:CONNector:TYPe?
Response Syntax	<Connector_Type>
Response(s)	**Connector_Type**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the connector type of the OSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:CONN:TYPE?
See Also	SENSe:DATA:TELecom:OPTical:OSFP:SPEed?

:SENSe:DATA:TELecom:OPTical:OSFP:MODE?

Description	This query returns the mode value of the OSFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP > Mode Link Length
Syntax	:SENSe:DATA:TELecom:OPTical:OSFP:MODE?
Response Syntax	\<Mode\>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a \<STRING RESPONSE DATA\> element.
	Returns the fiber mode of OSFP.
Example(s)	SENS:DATA:TEL:OPT:QSFP:MODE?
See Also	SENSe:DATA:TELecom:OPTical:OSFP:MODule:ID?

:SENSe:DATA:TELecom:OPTical:OSFP:MODule:ID?

Description	This query returns the module id of the OSFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator >Interface/Signal > OSFP > Module ID
Syntax	:SENSe:DATA:TELecom:OPTical:OSFP:MODule:ID?
Response Syntax	<Module_id>
Response(s)	**Module_id**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the module id of the OSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:MOD:ID?
See Also	SENSe:DATA:TELecom:OPTical:OSFP:VENDor:NAMe?

:SENSe:DATA:TELecom:OPTical:OSFP:PART:NUMBer?

Description	This query returns the part number of the OSFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP > Part Number
Syntax	:SENSe:DATA:TELecom:OPTical:OSFP:PART:NUMBer?
Response Syntax	<Part_Number>
Response(s)	**Part_Number**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the part number of the OSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:PART:NUMB?
See Also	SENSe:DATA:TELecom:OPTical:OSFP:SERial:NUMBer?

:SENSe:DATA:TELecom:OPTical:OSFP:POWer:CLASs?

Description	This query returns the power class of the OSFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP > Power Class
Syntax	:SENSe:DATA:TELecom:OPTical:OSFP:POWer:CLASs?
Response Syntax	<Power_Class>
Response(s)	**Power_Class**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the power class of the OSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:POW:CLAS?
See Also	SENSe:DATA:TELecom:OPTical:OSFP:POWer:CLASs?

:SENSe:DATA:TELecom:OPTical:OSFP:REVision:COMPliance?

Description	This query returns the firmware version of the OSFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP > Revision Compliance
Syntax	:SENSe:DATA:TELecom:OPTical:OSFP:REVision:COMPliance?
Response Syntax	<Revision_Compliance>
Response(s)	**Revision_Compliance**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the firmware version of the OSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:REV:COMP?
See Also	SENSe:DATA:TELecom:OPTical:OSFP:CONNector:TYPE?

:SENSe:DATA:TELecom:OPTical:OSFP:REVision?

Description	This query returns the revision of the OSFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP > Hardware Revision
Syntax	:SENSe:DATA:TELecom:OPTical:OSFP:REVision?
Response Syntax	<Revision>
Response(s)	**Revision**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the revision of the OSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:REV?
See Also	SENSe:DATA:TELecom:OPTical:OSFP:CONNector:TYPE?

:SENSe:DATA:TELecom:OPTical:OSFP:SERial:NUMBer?

Description	This query returns the serial number of the OSFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP > Serial Number
Syntax	:SENSe:DATA:TELecom:OPTical:OSFP:SERial:NUMBer?
Response Syntax	<Serial_Number>
Response(s)	**Serial_Number**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the serial number of the OSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:SER:NUMB?
See Also	SENSe:DATA:TELecom:OPTical:OSFP:SERial:NUMBer?

:SENSe:DATA:TELecom:OPTical:OSFP:SPEed?

Description	This query returns the speed of the OSFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP > Speed
Syntax	:SENSe:DATA:TELecom:OPTical:OSFP:SPEed?
Response Syntax	<Speed>
Response(s)	**Speed**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the speed of the OSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:SPE?
See Also	SENSe:DATA:TELecom:OPTical:OSFP:TYPE?

:SENSe:DATA:TELecom:OPTical:OSFP:TYPe?

Description	This query returns the type of the OSFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP > Type Compliance Code
Syntax	:SENSe:DATA:TELecom:OPTical:OSFP:TYPe?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the type of the OSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:TYPE?
See Also	SENSe:DATA:TELecom:OPTical:OSFP:POWer:CLASs?

:SENSe:DATA:TELecom:OPTical:OSFP:VENDor:NAMe?

Description	This query returns the vendor name of the OSFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > OSFP > Vendor Name
Syntax	:SENSe:DATA:TELecom:OPTical:OSFP:VENDor:NAMe?
Response Syntax	<Vendor>
Response(s)	**Vendor**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the vendor name of the OSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:VEND:NAME?
See Also	SENSe:DATA:TELecom:OPTical:OSFP:PART:NUMBer?

:SENSe:DATA:TELecom:OPTical:QSFP:CLEI:CODE?

Description	This query returns the CLEI presence of the QSFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > QSFP > CLEI Code
Syntax	:SENSe:DATA:TELecom:OPTical:QSFP:CLEI:CODE?
Response Syntax	<CLEI>
Response(s)	**CLEI**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the CLEI Code of the QSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:CFP:CLEI:CODE?
See Also	SENSe:DATA:TELecom:OPTical:QSFP:MODule:ID?

:SENSe:DATA:TELecom:OPTical:QSFP:CONNector:TYPE?

Description	This query returns the connector type of the QSFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > QSFP > Connector Type
Syntax	:SENSe:DATA:TELecom:OPTical:QSFP:CONNector:TYPE?
Response Syntax	<Connector_Type>
Response(s)	**Connector_Type**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the connector type of the QSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:CONN:TYPE?
See Also	SENSe:DATA:TELecom:OPTical:QSFP:SPEed?

:SENSe:DATA:TELecom:OPTical:QSFP:MODE?

Description	This query returns the mode value of the QSFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > QSFP > Mode Link Length
Syntax	:SENSe:DATA:TELecom:OPTical:QSFP:MODE?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the fiber mode of QSFP.
Example(s)	SENS:DATA:TEL:OPT:CFP:MODE?
See Also	SENSe:DATA:TELecom:OPTical:QSFP:MODule:ID?

:SENSe:DATA:TELecom:OPTical:QSFP:MODule:ID?

Description	This query returns the module id of the QSFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator >Interface/Signal > QSFP > Module ID
Syntax	:SENSe:DATA:TELecom:OPTical:QSFP:MODule:ID?
Response Syntax	<Module_id>
Response(s)	**Module_id**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the module id of the QSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:MOD:ID?
See Also	SENSe:DATA:TELecom:OPTical:QSFP:VENDor:NAMe?

:SENSe:DATA:TELecom:OPTical:QSFP:PART:NUMBer?

Description	This query returns the part number of the QSFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > QSFP > Part Number
Syntax	:SENSe:DATA:TELecom:OPTical:QSFP:PART:NUMBer?
Response Syntax	<Part_Number>
Response(s)	**Part_Number**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the part number of the QSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:PART:NUMB?
See Also	SENSe:DATA:TELecom:OPTical:QSFP:SERial:NUMBer?

:SENSe:DATA:TELecom:OPTical:QSFP:POWer:CLASs?

Description	This query returns the power class of the QSFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > QSFP > Power Class
Syntax	:SENSe:DATA:TELecom:OPTical:QSFP:POWer:CLASs?
Response Syntax	<Power_Class>
Response(s)	**Power_Class**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the power class of the QSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:POW:CLAS?
See Also	SENSe:DATA:TELecom:OPTical:QSFP:POWer:CLASs?

:SENSe:DATA:TELecom:OPTical:QSFP:REVision:COMPliance?

Description	This query returns the firmware version of the QSFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > QSFP > Revision Compliance
Syntax	:SENSe:DATA:TELecom:OPTical:QSFP:REVision:COMPliance?
Response Syntax	<Revision_Compliance>
Response(s)	**Revision_Compliance**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the firmware version of the QSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:REV:COMP?
See Also	SENSe:DATA:TELecom:OPTical:QSFP:CONNector:TYPE?

:SENSe:DATA:TELecom:OPTical:QSFP:REVision?

Description	This query returns the revision of the QSFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > QSFP > Hardware Revision
Syntax	:SENSe:DATA:TELecom:OPTical:QSFP:REVision?
Response Syntax	<Revision>
Response(s)	**Revision**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the revision of the QSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:REV?
See Also	SENSe:DATA:TELecom:OPTical:QSFP:CONNector:TYPE?

:SENSe:DATA:TELecom:OPTical:QSFP:SERial:NUMBer?

Description	This query returns the serial number of the QSFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > QSFP > Serial Number
Syntax	:SENSe:DATA:TELecom:OPTical:QSFP:SERial:NUMBer?
Response Syntax	<Serial_Number>
Response(s)	**Serial_Number**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the serial number of the QSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:SER:NUMB?
See Also	SENSe:DATA:TELecom:OPTical:QSFP:SERial:NUMBer?

:SENSe:DATA:TELecom:OPTical:QSFP:SPEed?

Description	This query returns the speed of the QSFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > QSFP > Speed
Syntax	:SENSe:DATA:TELecom:OPTical:QSFP:SPEed?
Response Syntax	<Speed>
Response(s)	**Speed**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the speed of the QSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:SPE?
See Also	SENSe:DATA:TELecom:OPTical:QSFP:TYPE?

:SENSe:DATA:TELecom:OPTical:QSFP:TYPE?

Description	This query returns the type of the QSFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > QSFP > Type Compliance Code
Syntax	:SENSe:DATA:TELecom:OPTical:QSFP:TYPE?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the type of the QSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:TYPE?
See Also	SENSe:DATA:TELecom:OPTical:QSFP:POWer:CLASs?

:SENSe:DATA:TELecom:OPTical:QSFP:VENDor:NAMe?

Description	This query returns the vendor name of the QSFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > QSFP > Vendor Name
Syntax	:SENSe:DATA:TELecom:OPTical:QSFP:VENDor:NAMe?
Response Syntax	<Vendor>
Response(s)	**Vendor**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the vendor name of the QSFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:QSFP:VEND:NAME?
See Also	SENSe:DATA:TELecom:OPTical:QSFP:PART:NUMBer?

:SENSe:DATA:TELecom:OPTical:SFP:CONNector:TYPE?

Description	This query returns the connector type of the SFP Connector module. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Signal > SFP > Connector Type
Syntax	:SENSe:DATA:TELecom:OPTical:SFP:CONNector:TYPE?
Response Syntax	<Connector_Type>
Response(s)	**Connector_Type**: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the connector type of the SFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:SFP:CONN:TYPE?
See Also	SENSe:DATA:TELecom:OPTical:XFP:CONNector:TYPE?

:SENSe:DATA:TELecom:OPTical:SFP:MODE?

Description	This query returns the mode value of the SFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > SFP > Link Length
Syntax	:SENSe:DATA:TELecom:OPTical:SFP:MODE?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the fiber mode of SFP.
Example(s)	SENS:DATA:TEL:OPT:SFP:MODE?
See Also	SENSe:DATA:TELecom:OPTical:XFP:MODE?

:SENSe:DATA:TELecom:OPTical:SFP:MODule:ID?

Description	This query returns the module id of the SFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > SFP > Module ID
Syntax	:SENSe:DATA:TELecom:OPTical:SFP:MODule:ID?
Response Syntax	<Module_id>
Response(s)	**Module_id**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the module id of the SFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:SFP:MOD:ID?
See Also	SENSe:DATA:TELecom:OPTical:XFP:MODule:ID?

:SENSe:DATA:TELecom:OPTical:SFP:PART:NUMBer?

Description	This query returns the part number of the SFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > SFP > Part Number
Syntax	:SENSe:DATA:TELecom:OPTical:SFP:PART:NUMBer?
Response Syntax	<Part_Number>
Response(s)	**Part_Number**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the part number of the SFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:SFP:PART:NUMB?
See Also	SENSe:DATA:TELecom:OPTical:XFP:PART:NUMBer?

:SENSe:DATA:TELecom:OPTical:SFP:POWer:CLASs?

Description	This query returns the power class of the SFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > SFP > Power Class
Syntax	:SENSe:DATA:TELecom:OPTical:SFP:POWer:CLASs?
Response Syntax	<Power Class>
Response(s)	**Power Class**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Power Class of SFP.
Example(s)	SENS:DATA:TEL:OPT:SFP:POW:CLAS?
See Also	SENSe:DATA:TELecom:OPTical:CFP:POWer:CLASs?

:SENSe:DATA:TELecom:OPTical:SFP:REVision?

Description	This query returns the revision of the SFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > SFP > Hardware Revision
Syntax	:SENSe:DATA:TELecom:OPTical:SFP:REVision?
Response Syntax	<Revision>
Response(s)	**Revision**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the revision of the SFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:SFP:REV?
See Also	SENSe:DATA:TELecom:OPTical:XFP:REVision?

:SENSe:DATA:TELecom:OPTical:SFP:SERial:NUMBer?

Description	This query returns the serial number of the SFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > SFP > Serial Number
Syntax	:SENSe:DATA:TELecom:OPTical:SFP:SERial:NUMBer?
Response Syntax	<Serial_Number>
Response(s)	**Serial_Number**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the serial number of the SFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:SFP:SER:NUMB?
See Also	SENSe:DATA:TELecom:OPTical:XFP:SERial:NUMBer?

:SENSe:DATA:TELecom:OPTical:SFP:SPEed?

Description	This query returns the speed of the SFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > SFP > Speed
Syntax	:SENSe:DATA:TELecom:OPTical:SFP:SPEed?
Response Syntax	<Speed>
Response(s)	**Speed**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the speed of the SFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:SFP:SPE?
See Also	SENSe:DATA:TELecom:OPTical:XFP:SPEed?

:SENSe:DATA:TELecom:OPTical:SFP:TYPE?

Description	This query returns the type of the SFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > SFP > Type Compliance Code
Syntax	:SENSe:DATA:TELecom:OPTical:SFP:TYPE?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the type of the SFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:SFP:TYPE?
See Also	SENSe:DATA:TELecom:OPTical:XFP:TYPE?

:SENSe:DATA:TELecom:OPTical:SFP:VENDor:NAMe?

Description	This query returns the vendor name of the SFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > SFP > Vendor Name
Syntax	:SENSe:DATA:TELecom:OPTical:SFP:VENDor:NAMe?
Response Syntax	<Vendor>
Response(s)	**Vendor**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the vendor name of the SFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:SFP:VEND:NAME?
See Also	SENSe:DATA:TELecom:OPTical:XFP:VENDor:NAMe?

:SENSe:DATA:TELecom:OPTical:SFP:WAVelength?

Description	This query returns the WAVelength value of the SFP Connector module.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > SFP > Wavelength
Syntax	:SENSe:DATA:TELecom:OPTical:SFP:WAVelength?
Response Syntax	<Wavelength>
Response(s)	**Wavelength**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Wavelength of SFP.
Example(s)	SENS:DATA:TEL:OPT:SFP:WAV?
See Also	SENSe:DATA:TELecom:OPTical:XFP:WAVelength?

:SENSe:DATA:TELecom:OPTical:SLTool:SFP:CONNector:TYPE?

Description	This query returns the connector type of the SFP transceiver.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test Control > Lpbk Tool > SFP/SFP+ > Connector Type
Syntax	:SENSe:DATA:TELecom:OPTical:SLTool:SFP:CONNector:TYPE?
Response Syntax	<Connector>
Response(s)	**Connector**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the connector type.
Example(s)	SENS:DATA:TEL:OPT:SLT:SFP:CONN:TYPE?

:SENSe:DATA:TELecom:OPTical:SLTool:SFP:MODE?

Description	This query returns the mode of the SFP transceiver.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test Control > Lpbk Tool > SFP/SFP+ > Mode
Syntax	:SENSe:DATA:TELecom:OPTical:SLTool:SFP:MODE?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the SFP mode.
Example(s)	SENS:DATA:TEL:OPT:SLT:SFP:MODE?

:SENSe:DATA:TELecom:OPTical:SLTool:SFP:MODule:ID?

Description	This query returns the module ID of the SFP transceiver.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test Control > Lpbk Tool > SFP/SFP+ > Module ID
Syntax	:SENSe:DATA:TELecom:OPTical:SLTool:SFP:MODule:ID?
Response Syntax	<Module_ID>
Response(s)	**Module_ID**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the module ID.
Example(s)	SENS:DATA:TEL:OPT:SLT:SFP:MOD:ID?

:SENSe:DATA:TELecom:OPTical:SLTool:SFP:PART:NUMBer?

Description	This query returns the part number of the SFP transceiver.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test Control > Lpbk Tool > SFP/SFP+ > Part Number
Syntax	:SENSe:DATA:TELecom:OPTical:SLTool:SFP:PART:NUMBer?
Response Syntax	<Part_Number>
Response(s)	**Part_Number**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the part number.
Example(s)	SENS:DATA:TEL:OPT:SLT:SFP:PART:NUMB?

:SENSe:DATA:TELecom:OPTical:SLTool:SFP:REVision?

Description	This query returns the revision of the SFP transceiver.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test Control > Lpbk Tool > SFP/SFP+ > Hardware Revision.
Syntax	:SENSe:DATA:TELecom:OPTical:SLTool:SFP:REVision?
Response Syntax	<Revision>
Response(s)	**Revision**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the hardware revision.
Example(s)	SENS:DATA:TEL:OPT:SLT:SFP:REV?

:SENSe:DATA:TELecom:OPTical:SLTool:SFP:SERial:NUMBer?

Description	This query returns the serial number of the SFP transceiver.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test Control > Lpbk Tool > SFP/SFP+ > Serial Number
Syntax	:SENSe:DATA:TELecom:OPTical:SLTool:SFP:SERial:NUMBer?
Response Syntax	<Serial_Number>
Response(s)	**Serial_Number**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the serial number.
Example(s)	SENS:DATA:TEL:OPT:SLT:SFP:SER:NUMB?

:SENSe:DATA:TELecom:OPTical:SLTool:SFP:SPEed?

Description	This query returns the speed of the SFP transceiver.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test Control > Lpbk Tool > SFP/SFP+ > Speed
Syntax	:SENSe:DATA:TELecom:OPTical:SLTool:SFP:SPEed?
Response Syntax	<Speed>
Response(s)	**Speed**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the speed.
Example(s)	SENS:DATA:TEL:OPT:SLT:SFP:SPE?

:SENSe:DATA:TELecom:OPTical:SLTool:SFP:TYPE?

Description	This query returns the type of the SFP transceiver.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test Control > Lpbk Tool > SFP/SFP+ > Type
Syntax	:SENSe:DATA:TELecom:OPTical:SLTool:SFP:TYPE?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the type of the SFP Connector module.
Example(s)	SENS:DATA:TEL:OPT:SLT:SFP:TYPE?

:SENSe:DATA:TELecom:OPTical:SLTool:SFP:VENDor:NAMe?

Description	This query returns the vendor name of the SFP transceiver.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test Control > Lpbk Tool > SFP/SFP+ > Vendor Name
Syntax	:SENSe:DATA:TELecom:OPTical:SLTool:SFP:VENDor:NAMe?
Response Syntax	<Vendor>
Response(s)	**Vendor**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the vendor name.
Example(s)	SENS:DATA:TEL:OPT:SLT:SFP:VEND:NAM?

:SENSe:DATA:TELecom:OPTical:SLTool:SFP:WAVelength?

Description	This query returns the wavelengeth value of the SFP transceiver.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test Control > Lpbk Tool > SFP/SFP+ > Wavelengeth
Syntax	:SENSe:DATA:TELecom:OPTical:SLTool:SFP:WAVelength?
Response Syntax	<Wavelength>
Response(s)	**Wavelength**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Wavelength.
Example(s)	SENS:DATA:TEL:OPT:SLT:SFP:WAV?

Signal - Signal Configuration (DSn/PDH) - Modify DS0

:SENSe:DATA:TELecom:DS[1..n]:PAYLoad:CONTent

Description	This command sets the payload content to given channel number.
	At *RST condition, this value is set to PATTERN1.
	Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > RX (1 - 24)
Syntax	:SENSe:DATA:TELecom:DS[1..n]:PAYLoad:CONTent <wsp><Content>, <Payload>
Parameter(s)	**Content**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the timeslots for payload content.
	Choices are 1 through 24.
	Payload:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the selection of the payload type.
	NONE: None
	PATTERN1: Pattern
Response Syntax	<Framing>
Example(s)	SENS:DATA:TEL:DS100:PAYL:CONT 1,PATTERN1
See Also	SENSe:DATA:TELecom:PDH:E:PAYLoad:CONTent

:SENSe:DATA:TELecom:DS[1..n]:PAYLoad:CONTent?

Description	This query returns the payload content of given channel number.
	At *RST condition, this value is set to PATTERN1.
	Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > RX (1 - 24)
Syntax	:SENSe:DATA:TELecom:DS[1..n]:PAYLoad:CONTent? <wsp><Content>
Parameter(s)	**Content**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the timeslots for payload content.
	Choices are 1 through 24.
Response Syntax	<Payload>
Response(s)	**Payload**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the payload type.
	NONE, indicates the None as payload type.
	PATTERN1, indicates the Pattern as payload type.
Example(s)	SENS:DATA:TEL:DS100:PAYL:CONT 1,PATTERN1
	SENS:DATA:TEL:DS100:PAYL:CONT? 1
	Returns: PATTERN1
See Also	SENSe:DATA:TELecom:PDH:E:PAYLoad:CONTent?

:SENSe:DATA:TELecom:PDH:E[1..n]:PAYLoad:CONTent

Description	This command sets the payload content to given channel number.
	At *RST condition, this value is set to PATTERN1.
	Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > RX (1-31)
Syntax	:SENSe:DATA:TELecom:PDH:E[1..n]:PAYLoad:CONTent <wsp><Content>, <Payload>
Parameter(s)	**Content**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the payload content.
	Choices are 1 through 31.
	Payload:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the selection of the payload type.
	NONE: None
	PATTERN1: Pattern
	SIGNALING: Signaling
	MFAS: Multiframe Alignment Signal
Response Syntax	<Payload>
Example(s)	SENS:DATA:TEL:PDH:E100:PAYL:CONT 1,PATTERN1
See Also	SENSe:DATA:TELecom:DS:PAYLoad:CONTent

:SENSe:DATA:TELecom:PDH:E[1..n]:PAYLoad:CONTent?

Description	This query returns the payload content of given channel number.
	At *RST condition, this value is set to PATTERN1.
	Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > RX (1-31)
Syntax	:SENSe:DATA:TELecom:PDH:E[1..n]:PAYLoad:CONTent? <wsp><Content>
Parameter(s)	**Content**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the timeslots for payload content.
	Choices are 1 through 31.
Response Syntax	<Payload>
Response(s)	**Payload**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the payload type.
	NONE, indicates the None as as payload type.
	PATTERN1, indicates the Pattern as payload type.
	SIGNALING, indicates the Signaling as payload type.
	MFAS: Multiframe Alignment Signal.
Example(s)	SENS:DATA:TEL:PDH:E100:PAYL:CONT 1,PATTERN1
	SENS:DATA:TEL:PDH:E100:PAYL:CONT? 1
	Returns: PATTERN1
See Also	SENSe:DATA:TELecom:DS:PAYLoad:CONTent?

:SOURce:DATA:TELecom:DS[1..n]:MODE

Description	This command sets the channel timeslot data rate for the pattern payload content.
	At *RST condition, this value is set to E64K.
	Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > DS0 Size
Syntax	:SOURce:DATA:TELecom:DS[1..n]:MODE <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the channel timeslot data rate for the pattern payload content.
	E64K: a timeslot data rate of E64 Kbps uses 8 bits to carry the payload information.
	E56K: a timeslot data rate of E56 Kbps uses 7 bits to carry the payload information.
Response Syntax	<Payload>
Example(s)	SOUR:DATA:TEL:DS:MODE E64K
See Also	SOURce:DATA:TELecom:PDH:E:MODE

:SOURce:DATA:TELecom:DS[1..n]:MODE?

Description	This query returns the channel timeslot data rate for the pattern payload content.
	At *RST condition, this value is set to E64K.
	Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > DS0 Size
Syntax	:SOURce:DATA:TELecom:DS[1..n]:MODE?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the channel timeslot data rate for the pattern payload content.
	E64K, timeslot data rate of 64 Kbps uses 8 bits to carry the payload information is selected.
	E56K, timeslot data rate of 56 Kbps uses 7 bits to carry the payload information is selected.
Example(s)	SOUR:DATA:TEL:DS:MODE E64K
	SOUR:DATA:TEL:DS:MODE?
	Returns: E64K
See Also	SOURce:DATA:TELecom:PDH:E:MODE?

:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:CONTent

Description	This command sets the payload content to given channel number.
	At *RST condition, this value is set to PATTERN1.
	Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > TX (1 - 24)
Syntax	:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:CONTent <wsp><Content>, <Payload>
Parameter(s)	**Content**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the payload content.
	Choices are 1 through 24.
	Payload:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the selection of the payload type.
	PATTERN1: Pattern
	IDLE: Idle
	TONE: Tone
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:DS100:PAYL:CONT 1,PATTERN1
See Also	SOURce:DATA:TELecom:PDH:E:PAYLoad:CONTent

:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:CONTent:ALL

Description	This command sets the payload content of all timeslots to the selected payload content with its Pattern, Idle, or Tone value.
	At *RST condition, this value is set to PATTERN1.
	Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > Set All
Syntax	:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:CONTent:ALL
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:DS:PAYL:CONT:ALL
See Also	SOURce:DATA:TELecom:PDH:E:PAYLoad:CONTent:ALL

:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:CONTent:TYPE

Description	This command selects the type of payload content.
	At *RST condition, this value is set to PATTERN1.
	Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > Payload Content
Syntax	:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:CONTent:TYPE <wsp><Payload>
Parameter(s)	**Payload**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the payload content.
	IDLE: Idle
	PATTERN1: Pattern
	TONE: Tone
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:DS:PAYL:CONT:TYPE PATTERN1
See Also	SOURce:DATA:TELecom:PDH:E:PAYLoad:CONTent:TYPE

:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:CONTent:TYPE?

Description	This query returns the type of payload content.
	At *RST condition, this value is set to PATTERN1.
	Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > Payload Content
Syntax	:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:CONTent:TYPE?
Response Syntax	<Content Type>
Response(s)	**Content Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the payload content type.
	IDLE: Idle
	PATTERN1: Pattern
	TONE: Tone
Example(s)	SOUR:DATA:TEL:DS:PAYL:CONT:TYPE PATTERN1
	SOUR:DATA:TEL:DS:PAYL:CONT:TYPE?
	Returns: PATTERN1
See Also	SOURce:DATA:TELecom:PDH:E:PAYLoad:CONTent:TYPE?

:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:CONTent?

Description	This query returns the payload content of given channel number.
	At *RST condition, this value is set to PATTERN1.
	Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > TX (1 - 24)
Syntax	:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:CONTent? <wsp><Content>
Parameter(s)	**Content**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the timeslots for payload content.
	Choices are 1 through 24.
Response Syntax	<Payload>
Response(s)	**Payload**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the payload type.
	PATTERN1, Pattern is selected as payload type.
	IDLE, Idle is selected as payload type.
	TONE, Tone is selected as payload type.
Example(s)	SOUR:DATA:TEL:DS100:PAYL:CONT 1,PATTERN1
	SOUR:DATA:TEL:DS100:PAYL:CONT? 1
	Returns: PATTERN1
See Also	SOURce:DATA:TELecom:PDH:E:PAYLoad:CONTent?

:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:IDLE

Description	This command sets the idle code byte from the Idle field. The selected idle code applies to all timeslots set to Idle.
	At *RST condition, this value is set to #H7F.
	Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > Idle
Syntax	:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:IDLE <wsp><Idle>
Parameter(s)	**Idle**:
	The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the idle code byte from the idle field.
	The values are hexadecimal #H00 to #HFF.
Response Syntax	<Payload>
Example(s)	SOUR:DATA:TEL:DS:PAYL:IDLE #H1
See Also	SOURce:DATA:TELecom:PDH:E:PAYLoad:IDLE

:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:IDLE?

Description	This query returns the Idle code byte from the Idle field. The selected Idle code applies to all timeslots set to Idle.
	At *RST condition, this value is set to #H7F.
	Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > Idle
Syntax	:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:IDLE?
Response Syntax	<Idle>
Response(s)	**Idle**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the idle code byte from the idle field.
	The values are hexadecimal #H00 to #HFF.
Example(s)	SOUR:DATA:TEL:DS:PAYL:IDLE #H1
	SOUR:DATA:TEL:DS:PAYL:IDLE?
	Returns: 1
See Also	SOURce:DATA:TELecom:PDH:E:PAYLoad:IDLE?

:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:TONE

Description	This command sets the tone for digital milli watt testing. The signal output power, when converted to analog, is 0 dBm. The selected tone applies to all timeslots set to tone.
	At *RST condition, this value is set to T1004.
	Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > Tone (Hz)
Syntax	:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:TONE <wsp><Tone>
Parameter(s)	**Tone**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the tone for digital milli watt testing.
	T1000: the 1000 Hz tone.
	T1004: the 1004 Hz tone.
Response Syntax	<Idle>
Example(s)	SOUR:DATA:TEL:DS:PAYL:TONE T1000
See Also	SOURce:DATA:TELecom:PDH:E:PAYLoad:TONE

:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:TONE?

Description	This query returns the tone for digital milli watt testing.
	At *RST condition, this value is set to T1004.
	Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > Tone (Hz)
Syntax	:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:TONE?
Response Syntax	<Tone>
Response(s)	**Tone**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the selection of a tone for digital milli watt testing.
	T1000, 1000 Hz is selected as tone.
	T1004, 1004 Hz is selected as tone.
Example(s)	SOUR:DATA:TEL:DS:PAYL:TONE T1000
	SOUR:DATA:TEL:DS:PAYL:TONE?
	Returns: T1000
See Also	SOURce:DATA:TELecom:PDH:E:PAYLoad:TONE?

:SOURce:DATA:TELecom:DS[1..n]:SYNC:TXRX

Description	This command sets enabled / disabled value for apply All Tx values to Rx.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > Apply Channel TX to RX
Syntax	:SOURce:DATA:TELecom:DS[1..n]:SYNC:TXRX <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Tone>
Example(s)	SOUR:DATA:TEL:DS:SYNC:TXRX ON
See Also	SOURce:DATA:TELecom:PDH:E:SYNC:TXRX

:SOURce:DATA:TELecom:DS[1..n]:SYNC:TXRX?

Description	This query returns enabled / disabled value for apply All Tx values to Rx. At *RST condition, this value is set to ON. Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > Apply Channel TX to RX
Syntax	:SOURce:DATA:TELecom:DS[1..n]:SYNC:TXRX?
Response Syntax	<Set>
Response(s)	Set: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Return Enable or disable value of Apply All Tx to RX. 1, Apply All Tx to RX is enabled. 0, Apply All Tx to RX is disabled.
Example(s)	SOUR:DATA:TEL:DS:SYNC:TXRX ON SOUR:DATA:TEL:DS:SYNC:TXRX? Returns: 1
See Also	SOURce:DATA:TELecom:PDH:E:SYNC:TXRX?

:SOURce:DATA:TELecom:DS[1..n]:ZCS

Description	This command sets the Zero Code Suppression (ZCS) method used to replace the all-zero bytes of the idle and tone payload contents.
	At *RST condition, this value is set to NONE.
	Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > Zero Code Suppression
Syntax	:SOURce:DATA:TELecom:DS[1..n]:ZCS <wsp><Zcs>
Parameter(s)	Zcs:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the selection of the ZCS (Zero Code Suppression) method used to replace the all-zero bytes of the idle and tone payload contents.
	NONE: no zero code suppression.
	JBIT8: every 8th (LSB) bit is forced to 1.
	GTE: bit 8 of an all zero channel byte is replaced by 1, except in signaling frames where bit 7 is forced to 1.
	ZBELl: bit 7 of an all zero channel byte is replaced by 1.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:DS:ZCS NONE
See Also	SOURce:DATA:TELecom:PDH:E:ZCS

:SOURce:DATA:TELecom:DS[1..n]:ZCS?

Description	This query returns the Zero Code Suppression (ZCS) method used to replace the all-zero bytes of the idle and tone payload contents.
	At *RST condition, this value is set to NONE.
	Navigation Path: Setup > DSn/PDH BERT > DS3/DS1 > Modify DS0 > Zero Code Suppression
Syntax	:SOURce:DATA:TELecom:DS[1..n]:ZCS?
Response Syntax	<Zcs>
Response(s)	**Zcs**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the selection of the Zero Code Suppression (ZCS) method used to replace the all-zero bytes of the idle and tone payload contents.
	NONE, no zero code suppression is selected.
	JBIT8, every 8th (LSB) bit is forced to 1 is selected.
	GTE, bit 8 of an all zero channel byte is replaced by 1, except in signaling frames where bit 7 is forced to 1 is selected.
	ZBELL, bit 7 of an all zero channel byte is replaced by 1 is selected.
Example(s)	SOUR:DATA:TEL:DS:ZCS NONE
	SOUR:DATA:TEL:DS:ZCS?
	Returns: NONE
See Also	SOURce:DATA:TELecom:PDH:E:ZCS?

:SOURce:DATA:TELecom:PDH:E[1..n]:MODE

Description	This command selects the channel timeslot data rate for the transmitter.
	At *RST condition, this value is set to E64K.
	Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > E0 Size
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:MODE <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the channel timeslot data rate for the transmitter.
	E64K: a timeslot data rate of 64 Kbps uses 8 bits to carry the payload information.
	E56K: a timeslot data rate of 56 Kbps uses 7 bits to carry the payload information.
Response Syntax	<Zcs>
Example(s)	SOUR:DATA:TEL:PDH:E:MODE E64K
See Also	SOURce:DATA:TELecom:DS:MODE

:SOURce:DATA:TELecom:PDH:E[1..n]:MODE?

Description	This query returns the channel timeslot data rate for the transmitter.
	At *RST condition, this value is set to E64K.
	Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > E0 Size
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:MODE?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the channel timeslot data rate for the pattern payload content.
	E64K, timeslot data rate of 64 Kbps uses 8 bits to carry the payload information is selected.
	E56K, timeslot data rate of 56 Kbps uses 7 bits to carry the payload information is selected.
Example(s)	SOUR:DATA:TEL:PDH:E:MODE E64K
	SOUR:DATA:TEL:PDH:E:MODE?
	Returns: E64K
See Also	SOURce:DATA:TELecom:DS:MODE?

:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:CONTent

Description	This command sets the payload content to given channel number.
	At *RST condition, this value is set to PATTERN1.
	Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > TX (1-31)
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:CONTent <wsp><Content>, <Payload>
Parameter(s)	**Content**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the timeslots for payload content.
	Choices are 1 through 31.
	Payload:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the selection of the payload type.
	PATTERN1: Pattern
	IDLE: Idle
	TONE: Tone
	SIGNALING: Signaling
	MFAS: Multiframe Alignment Signal
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:PDH:E100:PAYL:CONT 1,PATTERN1
See Also	SOURce:DATA:TELecom:DS:PAYLoad:CONTent

:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:CONTent:ALL

Description	This command sets the payload content of all timeslots to the selected payload content with its Pattern, Idle, or Tone value.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > Set All
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:CONTent:ALL
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:PDH:E:PAYL:CONT:ALL
See Also	SOURce:DATA:TELecom:DS:PAYLoad:CONTent:ALL

:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:CONTent:TYPE

Description	This command sets the type of payload content.
	At *RST condition, this value is set to PATTERN1.
	Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > Payload Content
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:CONTent:TYPE <wsp><Content>
Parameter(s)	**Content**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the payload content.
	PATTERN1: Pattern
	IDLE: Idle
	TONE: Tone
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:PDH:E:PAYL:CONT:TYPE PATTERN1
See Also	SOURce:DATA:TELecom:DS:PAYLoad:CONTent:TYPE

:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:CONTent:TYPE?

Description	This query returns the type of payload content.
	At *RST condition, this value is set to PATTERN1.
	Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > Payload Content
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:CONTent:TYPE?
Response Syntax	<Content Type>
Response(s)	**Content Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the payload content type.
	PATTERN1, Pattern is selected as payload content type.
	IDLE, Idle is selected as payload content type.
	TONE, tone is selected as payload content type.
Example(s)	SOUR:DATA:TEL:PDH:E:PAYL:CONT:TYPE PATTERN1
	SOUR:DATA:TEL:PDH:E:PAYL:CONT:TYPE?
	Returns: PATTERN1
See Also	SOURce:DATA:TELecom:DS:PAYLoad:CONTent:TYPE?

:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:CONTent?

Description	This query returns the payload content of given channel number.
	At *RST condition, this value is set to PATTERN1.
	Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > TX (1-31)
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:CONTent? <wsp><Content>
Parameter(s)	**Content**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the timeslots for payload content.
	Choices are 1 through 31.
Response Syntax	<Payload>
Response(s)	**Payload**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the payload type.
	PATTERN1, Pattern is selected as payload type.
	IDLE, Idle is selected as payload type.
	TONE, Tone is selected as payload type.
	SIGNALING, Signaling is selected as payload type.
	MFAS, Multiframe Alignment Signal
Example(s)	SOUR:DATA:TEL:PDH:E100:PAYL:CONT 1,PATTERN1
	SOUR:DATA:TEL:PDH:E100:PAYL:CONT? 1
	Returns: PATTERN1
See Also	SOURce:DATA:TELecom:DS:PAYLoad:CONTent?

:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:IDLE

Description	This command sets the idle code byte from the idle field. The selected idle code applies to all timeslots set to idle. At *RST condition, this value is set to #H7F. Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > Idle
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:IDLE <wsp><Idle>
Parameter(s)	**Idle**: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the idle code byte from the idle field. The values are hexadecimal #H00 through #HFF.
Response Syntax	<Payload>
Example(s)	SOUR:DATA:TEL:PDH:E:PAYL:IDLE #H1
See Also	SOURce:DATA:TELecom:DS:PAYLoad:IDLE

:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:IDLE?

Description	This query returns the idle code byte from the idle field.
	At *RST condition, this value is set to #H7F.
	Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > Idle
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:IDLE?
Response Syntax	<Idle>
Response(s)	**Idle**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the idle code byte from the idle field.
	The values are hexadecimal #H00 to #HFF.
Example(s)	SOUR:DATA:TEL:PDH:E:PAYL:IDLE #H1
	SOUR:DATA:TEL:PDH:E:PAYL:IDLE?
	Returns: 1
See Also	SOURce:DATA:TELecom:DS:PAYLoad:IDLE?

:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:TONE

Description	This command sets the tone for digital milli watt testing. The signal output power, when converted to analog, is 0 dBm. The selected tone applies to all timeslots set to tone.
	At *RST condition, this value is set to T1004.
	Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > Tone (Hz)
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:TONE <wsp><Tone>
Parameter(s)	**Tone**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the selection of a tone for digital milli watt testing.
	T1000: 1000 Hz
	T1004: 1004 Hz
Response Syntax	<Idle>
Example(s)	SOUR:DATA:TEL:PDH:E:PAYL:TONE T1000
See Also	SOURce:DATA:TELecom:DS:PAYLoad:TONE

:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:TONE?

Description	This query returns the tone for digital milli watt testing.
	At *RST condition, this value is set to T1004.
	Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > Tone (Hz)
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:PAYLoad:TONE?
Response Syntax	<Tone>
Response(s)	**Tone**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the selection of a tone for digital milli watt testing.
	T1000, 1000 Hz is selected as tone.
	T1004, 1004 Hz is selected as tone.
Example(s)	SOUR:DATA:TEL:PDH:E:PAYL:TONE T1000
	SOUR:DATA:TEL:PDH:E:PAYL:TONE?
	Returns: T1000
See Also	SOURce:DATA:TELecom:DS:PAYLoad:TONE?

:SOURce:DATA:TELecom:PDH:E[1..n]:SYNC:TXRX

Description	This command sets enabled / disabled value for apply All Tx values to Rx.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > Apply Channel TX to RX
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:SYNC:TXRX <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Tone>
Example(s)	SOUR:DATA:TEL:PDH:E:SYNC:TXRX ON
See Also	SOURce:DATA:TELecom:DS:SYNC:TXRX

:SOURce:DATA:TELecom:PDH:E[1..n]:SYNC:TXRX?

Description	This query returns enabled / disabled value for apply All Tx values to Rx.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > Apply Channel TX to RX
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:SYNC:TXRX?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns Enable or disable value of Apply All Tx to RX.
	1, Apply All Tx to RX is enabled.
	0, Apply All Tx to RX is disabled.
Example(s)	SOUR:DATA:TEL:PDH:E:SYNC:TXRX ON
	SOUR:DATA:TEL:PDH:E:SYNC:TXRX?
	Returns: 1
See Also	SOURce:DATA:TELecom:DS:SYNC:TXRX?

:SOURce:DATA:TELecom:PDH:E[1..n]:ZCS

Description	This command sets the Zero Code Suppression (ZCS) method used to replace the all-zero bytes of the idle and tone payload contents.
	At *RST condition, this value is set to NONE.
	Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > Zero Code Suppression
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:ZCS <wsp><Zcs>
Parameter(s)	Zcs:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the selection of the Zero Code Suppression (ZCS) method.
	NONE: No zero Code Suppression.
	JBIT8: every 8th (LSB) bit is forced to 1.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:PDH:E:ZCS NONE
See Also	SOURce:DATA:TELecom:DS:ZCS

:SOURce:DATA:TELecom:PDH:E[1..n]:ZCS?

Description	This query returns the Zero Code Suppression (ZCS) method used to replace the all-zero bytes of the idle and tone payload contents.
	At *RST condition, this value is set to NONE.
	Navigation Path: Setup > DSn/PDH BERT > E4/E3/E2/E1 > Modify E0 > Zero Code Suppression
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:ZCS?
Response Syntax	<Zcs>
Response(s)	Zcs:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the selection of the Zero Code Suppression (ZCS) method used to replace the all-zero bytes of the idle and tone payload contents.
	NONE, no zero code suppression is selected.
	JBIT8, every 8th (LSB) bit is forced to 1 is selected.
Example(s)	SOUR:DATA:TEL:PDH:E:ZCS NONE
	SOUR:DATA:TEL:PDH:E:ZCS?
	Returns: NONE
See Also	SOURce:DATA:TELecom:DS:ZCS?

Interface (Ethernet, Packet Sync, Fibre Channel, and Wireless)

:FETCh:DATA:TELecom:CPRI:OBSai:LINK:LIVE?

Description	This Query returns the OBSAI live Sync status.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > Sync status
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:LINK:LIVE?
Response Syntax	<Link Status>
Response(s)	**Link Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Return Live link status for State machine.
Example(s)	FETC:DATA:TEL:CPRI:OBS:LINK:LIVE?
See Also	SOURce:DATA:TELecom:CPRI:OBSai:FCBGen?

:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:PTARget?

Description	This Query returns the OBSAI RP3 Frame Peer Target Address.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > RP3 Address > Peer Target
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:PTARget?
Response Syntax	<Peer Target Address>
Response(s)	**Peer Target Address**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns Peer Target Address.
Example(s)	FETC:DATA:TEL:CPRI:OBS:RPFR:ADDR:PTAR?
See Also	SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:TARGet?

:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:MESSages:KMG ?

Description	This Query returns the OBSAI RP3 Idle Message Per Group.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > RP3 Message > Idle/Grp (K_MG)
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:MESSages:KMG?
Response Syntax	<Value>
Response(s)	Value:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns Number of idle messages per Group.
Example(s)	FETC:DATA:TEL:CPRI:OBS:RPFR:MESS:KMG?
See Also	FETCh:DATA:TELecom:CPRI:OBSai:MESSages:SFN?

:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:MESSages:MMG?

Description	This Query returns the OBSAI RP3 Messages Per Group.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > RP3 Message > Msg/Grp (M_MG)
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:MESSages:MMG?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns Number of message per Group.
Example(s)	FETC:DATA:TEL:CPRI:OBS:RPFR:MESS:MMG?
See Also	FETCh:DATA:TELecom:CPRI:OBSai:MESSages:SFN?

:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:MESSages:NMG?

Description	This Query returns the OBSAI RP3 Message Group Per Frame.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > RP3 Message > Msg Grp/Frame (N_MG)
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:MESSages:NMG?
Response Syntax	<Message Group Per Frame>
Response(s)	**Message Group Per Frame**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns Number of message Group per Frame.
Example(s)	FETC:DATA:TEL:CPRI:OBS:RPFR:MESS:NMG?
See Also	FETCh:DATA:TELecom:CPRI:OBSai:MESSages:SFN?

:FETCh:DATA:TELecom:CPRI:OBSai:RXSeed?

Description	This Query returns the OBSAI RX Seed value.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface OBSAI > LINK - RX Seed
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:RXSeed?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Return RX Seed Count.
Example(s)	FETC:DATA:TEL:CPRI:OBS:RXS?
See Also	SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:MESSages:TYPE?

:FETCh:DATA:TELecom:CPRI:OBSai:STATe:RECeive:LIVE?

Description	This Query returns the OBSAI RX State Machine live status.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > LINK - Sync RX
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:STATe:RECeive:LIVE?
Response Syntax	<RX State machine>
Response(s)	**RX State machine**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Return Live status for RX state machine.
Example(s)	FETC:DATA:TEL:CPRI:OBS:STAT:REC:LIVE?
See Also	FETCh:DATA:TELecom:CPRI:OBSai:STATe:RECeive:LAST?

:FETCh:DATA:TELecom:CPRI:OBSai:STATe:TRANsmit:LIVE?

Description	This Query returns the OBSAI TX State Machine live status.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > LINK - Sync TX
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:STATe:TRANsmit:LIVE?
Response Syntax	<TX State machine>
Response(s)	**TX State machine**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Return Live status for TX state machine.
Example(s)	FETC:DATA:TEL:CPRI:OBS:STAT:TRAN:LIVE?
See Also	FETCh:DATA:TELecom:CPRI:OBSai:STATe:TRANsmit:LAST?

:FETCh:DATA:TELecom:CPRI:PORT:ETHernet:RATE?

Description	This query return the CPRI Ethernet Channel value.
	At *RST condition, this value is set to337.92.
	Navigation Path: Setup > Test Configurator > interface CPRI > LINK > C&M Channel > Ethernet > Rate
	This Rate is configured with Sub channel value and its unit is Mbit/s.
Syntax	:FETCh:DATA:TELecom:CPRI:PORT:ETHernet:RATE?
Response Syntax	<Ethernet Rate>
Response(s)	**Ethernet Rate**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Ethernet Rate.
Example(s)	FETC:DATA:TEL:CPRI:PORT:ETH:RATE?
	Returns the Ethernet Rate in Mbit/s
See Also	FETCh:DATA:TELecom:CPRI:ERRor:COUNt?

:FETCh:DATA:TELecom:CPRI:PORT:FSYNc:STATus?

Description	This query return the CPRI Frame Sync Status.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface CPRI > LINK > Sequence - Frame Sync
Syntax	:FETCh:DATA:TELecom:CPRI:PORT:FSYNc:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Frame Sequence Sate.
Example(s)	FETC:DATA:TEL:CPRI:PORT:FSYN:STAT?
See Also	FETCh:DATA:TELecom:CPRI:ERRor:COUNt?

:FETCh:DATA:TELecom:CPRI:PORT:LINK:STATus?

Description	This query returns the CPRI Link Status shall report a Up/Down.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Interface CPRI > LINK
Syntax	:FETCh:DATA:TELecom:CPRI:PORT:LINK:STATus?
Response Syntax	<Status.>
Response(s)	**Status.:**
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the CPRI Link Status.
Example(s)	FETC:DATA:TEL:CPRI:PORT:LINK:STAT?
See Also	FETCh:DATA:TELecom:CPRI:PORT:SSTate?

:FETCh:DATA:TELecom:CPRI:PORT:SSTate?

Description	This query return the CPRI Sequence State.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > interface CPRI > LINK > Sequence
Syntax	:FETCh:DATA:TELecom:CPRI:PORT:SSTate?
Response Syntax	<Sequence State>
Response(s)	**Sequence State**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Sequence State.
Example(s)	FETC:DATA:TEL:CPRI:PORT:SSTate?
See Also	FETCh:DATA:TELecom:CPRI:PORT:LINK:STATus?

:FETCh:DATA:TELecom:ETHernet:ALARm:LINK?

Description	This query returns the live status of Ethernet LINK alarm (parallel interfaces or serial interfaces 25G and up).
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > LINK
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:LINK? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm type whose status is to be retrieved.
	- For parallel and serial interfaces:
	LFAR: Local Fault Received
	LFAD: Local Fault Detected
	RFAult: Remote Fault
	- For parallel interfaces:
	LDOWn: Link Down
	HIBer: HIBer
	LOA: Loss of Alignment
	INVM: Invalid Mapping
	HISer: Hi-SER
	LDSERD: Local Degraded SER Detected
	LDSERR: Local Degraded SER Received
	RDSER: Remote Degraded SER
Response Syntax	<Status>

:FETCh:DATA:TELecom:ETHernet:ALARm:LINK?

Response(s)	Status:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Reports the status of the Ethernet alarm.
	PRESENT, indicates that at least one alarm has occurred.
	ABSENT, indicates that no alarm occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:ETH:ALAR:LINK? LFAR
See Also	SOURce:DATA:TELecom:PATTern:ALARm:SYNCh?

:FETCh:DATA:TELecom:ETHernet:FEC:ALARm:LINK?

Description	This query returns the live status of FEC Ethernet LINK alarm.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > LINK
Syntax	:FETCh:DATA:TELecom:ETHernet:FEC:ALARm:LINK? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm type whose status is to be retrieved.
	FECLOA: FEC-LOA Live alarm
	FECDESER: FEC Degraded SER
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Reports the status of the Ethernet alarm.
	PRESENT, indicates that at least one alarm has occurred.
	ABSENT, indicates that no alarm occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:ETH:FEC:ALAR:LINK? FECLOA
See Also	FETCh:DATA:TELecom:ETHernet:ALARm:LINK?

:FETCh:DATA:TELecom:ETHernet:LINK:LRATe:GLOBal:STATus?

Description	This query returns the live LINK status for an Ethernet interface (rates up to 25G or FlexE client).
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > LINK
	Navigation Path: Setup > Test Configurator > FlexE Group > Link
Syntax	:FETCh:DATA:TELecom:ETHernet:LINK:LRATe:GLOBal:STATus?
Response Syntax	<Link Status>
Response(s)	**Link Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Gets the link status.
	1, indicates Link Up
	0, indicates Link Down
Example(s)	Under EtherBERT
	FETC:DATA:TEL:ETH:LINK:LRAT:GLOB:STAT?
	Under FlexEBert
	SOUR:DATA:TEL:FETH:CLI:ID?
	SOUR:DATA:TEL:FETH:CLI:ID 1
	FETC:DATA:TEL:ETH:LINK:LRAT:GLOB:STAT?
See Also	SOUR:DATA:TEL:FETH:CLI:ID?

:FETCh:DATA:TELecom:ETHernet:PORT:BANDwidth?

Description	This query returns the speed.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Interface > LINK > Speed
Syntax	:FETCh:DATA:TELecom:ETHernet:PORT:BANDwidth?
Response Syntax	<Speed>
Response(s)	**Speed**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the speed for the selected instrument port.
	B100MBPS, 100M speed is selected.
	B10MBPS,10M speed is selected.
	B1GBPS, 1GBPS speed is selected.
	AUTO, Speed selected is Auto.
Example(s)	FETCh:DATA:TELecom:ETHernet:PORT:BANDwidth?
See Also	FETCh:DATA:TELecom:ETHernet:PORT:FCONtrol?

:FETCh:DATA:TELecom:ETHernet:PORT:DUPLex?

Description	This query returns the duplex type.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Interface > LINK > Duplex
Syntax	:FETCh:DATA:TELecom:ETHernet:PORT:DUPLex?
Response Syntax	<Duplex>
Response(s)	**Duplex**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the duplex type for the selected instrument port.
	FULL, Full Duplex is selected as duplex type.
	HALF,Half Duplex is selected as duplex type.
Example(s)	FETCh:DATA:TELecom:ETHernet:PORT:DUPLex?
See Also	FETCh:DATA:TELecom:ETHernet:PORT:DUPLex?

:FETCh:DATA:TELecom:ETHernet:PORT:FCONtrol?

Description	This query returns the flow control.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Interface > LINK > Flow Control
Syntax	:FETCh:DATA:TELecom:ETHernet:PORT:FCONtrol?
Response Syntax	<Fcantrol>
Response(s)	**Fcantrol**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the flow control for the selected instrument port.
	TX, Tx is selected as flow control.
	RX, Rx is selected as flow control.
	RXANDTX, RX and TX is selected as flow control.
	NONE, None is selected as flow control.
Example(s)	FETCh:DATA:TELecom:ETHernet:PORT:FCONtrol?
See Also	FETCh:DATA:TELecom:ETHernet:PORT:LOCal:CLOCk?

:FETCh:DATA:TELecom:ETHernet:PORT:LOCal:CLOCk?

Description	This query returns type of Local Clock selected.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Interface > LINK > Local Clock.
Syntax	:FETCh:DATA:TELecom:ETHernet:PORT:LOCal:CLOCk?
Response Syntax	<Clock Type>
Response(s)	**Clock Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns clock type
	MASTER, Master clock type is selected.
	SLAVE,Slave clock type is selected.
	AUTO,Auto clock type is selected.
Example(s)	FETCh:DATA:TELecom:ETHernet:PORT:LOCal:CLOCk?
See Also	FETCh:DATA:TELecom:ETHernet:PORT:FCONtrol?

:FETCh:DATA:TELecom:ETHernet:WIS:ALARm:LINK?

Description	This query returns the WIS Link alarm status for 10GE WAN interface.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > Test Configurator > Interface > LINK > WIS Link
Syntax	:FETCh:DATA:TELecom:ETHernet:WIS:ALARm:LINK? <wsp><LINK>
Parameter(s)	**LINK**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the WIS LINK.
	WLD,select WLD Link Type.
Response Syntax	<Link>
Response(s)	**Link**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Reports the WIS LINK Alarm Status.
	PRESENT, indicates that at least one error has occurred in the last second.
	ABSENT, indicates that there is no error.
	INACTIVE, indicates that the test is not running.
	MASKED,Returns Masked Wis Link
Example(s)	FETCh:DATA:TELecom:ETHernet:WIS:ALARm:LINK? WLD
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:WIS:COUNt?

:FETCh:DATA:TELecom:FIBer:LINK?

Description	This query returns the status of the FC Primitive Sequence Protocol (PSP) link.
	At *RST, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Interface > LINK
Syntax	:FETCh:DATA:TELecom:FIBer:LINK?
Response Syntax	<Link>
Response(s)	**Link**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Gets the link status.
	PRESENT, indicates that at least one alarm has occurred.
	ABSENT, indicates that no alarm occurred.
Example(s)	FETC:DATA:TEL:FIB:LINK?
See Also	FETCh:DATA:TELecom:FIBer:PORT:FLOGin:STATus?

:FETCh:DATA:TELecom:LINK:GLOBal:STATus?

Description	This query returns the status of Link.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > 40/50/100/400GE > LINK
Syntax	:FETCh:DATA:TELecom:LINK:GLOBal:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the link status.
Example(s)	FETC:DATA:TEL:LINK:GLOB:STAT?
See Also	SOURce:DATA:TELecom:ETH:ERR:PHYS:AUT?

:SENSe:DATA:TELecom:CPRI:PORT:ETHernet:RATE?

Description	This query returns the CPRI Ethernet Rate.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > interface CPRI > LINK > Ethernet Received > Rate
Syntax	:SENSe:DATA:TELecom:CPRI:PORT:ETHernet:RATE?
Response Syntax	<Ethernet Rate>
Response(s)	**Ethernet Rate**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Ethernet Rate.
Example(s)	SENS:DATa:TEL:CPRI:PORT:ETH:RATE?
See Also	SENSe:DATA:TELecom:CPRI:PORT:HDLC:RATE?

:SENSe:DATA:TELecom:CPRI:PORT:HDLC:RATE?

Description	This query returns the CPRI HDLC Rate.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > interface CPRI > LINK > HDLC Received > Rate
Syntax	:SENSe:DATA:TELecom:CPRI:PORT:HDLC:RATE?
Response Syntax	<HDLC Rate>
Response(s)	**HDLC Rate**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the HDLC Rate.
Example(s)	SENS:DATa:TEL:CPRI:PORT:HDLC:RATE?
See Also	SENSe:DATA:TELecom:CPRI:PORT:ETHernet:RATE?

:SENSe:DATA:TELecom:CPRI:PORT:PROTocol:VERSion?

Description	This query returns the CPRI Protocol version received/negotiated.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > interface CPRI > LINK > Protocol > Protocol Version Received/Negotiated
Syntax	:SENSe:DATA:TELecom:CPRI:PORT:PROTocol:VERSion?
Response Syntax	<Protocol Version>
Response(s)	**Protocol Version**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Protocol version.
Example(s)	SENS:DATa:TEL:CPRI:PORT:PROT:VERS?
See Also	SENSe:DATA:TELecom:CPRI:SUMMary:PROTocol:VERSion?

:SOURce:DATA:TELecom:CPRI:FEC:ENABle

Description	This command enables/disables RS-FEC.
	At *RST, this value is set to Enabled.
	Navigation Path: Setup > Test Configurator > Interface > RS-FEC
Syntax	:SOURce:DATA:TELecom:CPRI:FEC:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Protocol Version>
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ENAB ON
	SOUR:DATA:TEL:CPRI:FEC:ENAB?
	Returns 1
See Also	SOURce:DATA:TELecom:CPRI:FEC:ENABle

:SOURce:DATA:TELecom:CPRI:FEC:ENABle?

Description	This query returns the enable/disable status of RS-FEC.
	At *RST, this value is set to Enabled.
	Navigation Path: Setup > Test Configurator > Interface > RS-FEC
Syntax	:SOURce:DATA:TELecom:CPRI:FEC:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1:Enabled
	0:Disabled
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ENAB ON
	SOUR:DATA:TEL:CPRI:FEC:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:CPRI:FEC:ENABle?

:SOURce:DATA:TELecom:CPRI:OBSai:FCBGen

Description	This command enables/disables the OBSAI Frame Clock Burst Generation.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > Interface OBSAI > LINK - Frame Clock Burst Generation
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:FCBGen <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	ON, enables the OBSAI Frame Clock Burst Generation.
	OFF, disables the OBSAI Frame Clock Burst Generation.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:CPRI:OBS:FCBG ON
See Also	SOURce:DATA:TELecom:CPRI:OBSai:SCRamble

:SOURce:DATA:TELecom:CPRI:OBSai:FCBGen?

Description	This Query returns the OBSAI Frame Clock Burst Generation enable status.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > Interface OBSAI > LINK - Frame Clock Burst Generation
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:FCBGen?
Response Syntax	<Frame Clock Burst Generation Status>
Response(s)	**Frame Clock Burst Generation Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Return FCB Generation enable status.
Example(s)	SOUR:DATA:TEL:CPRI:OBS:FCBG?
See Also	SOURce:DATA:TELecom:CPRI:OBSai:SCRamble?

:SOURce:DATA:TELecom:CPRI:OBSai:FTIDle

Description	This command sets the OBSAI Force TX Idle Status.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > interface OBSAI > Interface Page> Force TX Idle.
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:FTIDle <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	ON, enables the Force TX Idle.
	OFF, disables the Force TX Idle.
Response Syntax	<Frame Clock Burst Generation Status>
Example(s)	SOUR:DATA:TEL:CPRI:OBS:FTID ON
See Also	SOURce:DATA:TELecom:CPRI:OBSai:FCBGen

:SOURce:DATA:TELecom:CPRI:OBSai:FTIDle?

Description	This Query returns the OBSAI Force TX Idle Status.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Interface OBSAI > LINK - Force TX Idle.
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:FTIDle?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Return the Force TX Idle status.
Example(s)	SOUR:DATA:TEL:CPRI:OBS:FTID?
See Also	SOURce:DATA:TELecom:CPRI:OBSai:FCBGen?

:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:MIS Match

Description	This command enables/disables the OBSAI RP3 Address Mismatch check box.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > Interface OBSAI > RP3 Address - Address Mismatch
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:MISMatch <wsp><Set>
Parameter(s)	Set:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	ON, enables the OBSAI RP3 Address Mismatch.
	OFF, disables the OBSAI RP3 Address Mismatch.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:CPRI:OBS:RPFR:ADDR:MISM ON
See Also	SOURce:DATA:TELecom:CPRI:OBSai:FTIDle

:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:MISMatch?

Description	This Query returns the OBSAI RP3 Address Mismatch Status.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > Interface OBSAI > RP3 Address - Address Mismatch
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:MISMatch?
Response Syntax	<AddressMismatch>
Response(s)	**AddressMismatch**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Return Address Mismatch enable/disable status.
Example(s)	SOUR:DATA:TEL:CPRI:OBS:RPFR:ADDR:MISM?
See Also	SOURce:DATA:TELecom:CPRI:OBSai:FTIDle?

:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:SOURce

Description	This command sets the OBSAI RP3 Frame Source Address.
	At *RST condition, this value is set to 0x1234.
	Navigation Path: Setup > Test Configurator > Interface OBSAI > RP3 Address - Source
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:SOURce[<wsp><Address>]
Parameter(s)	**Address**:
	The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets RP3 Source Address.
Response Syntax	<AddressMismatch>
Example(s)	SOUR:DATA:TEL:CPRI:OBS:RPFR:ADDR:SOUR #H1111
See Also	SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:TARGet

:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:SOURce?

Description	This Query returns the OBSAI RP3 Frame Source Address.
	At *RST condition, this value is set to 0x1234.
	Navigation Path: Setup > Test Configurator > Interface OBSAI > RP3 Address - Source
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:SOURce?
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns RP3 Source Address.
Example(s)	SOUR:DATA:TEL:CPRI:OBS:RPFR:ADDR:SOUR?
See Also	SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:TARGet?

:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:TARGet

Description	This command sets the OBSAI RP3 Frame Target Address.
	At *RST condition, this value is set to 0x1234.
	Navigation Path: Setup > Test Configurator > interface OBSAI > Interface Page>Target Address.
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:TARGet[<wsp><Address>]
Parameter(s)	**Address**:
	The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets Target Address.
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:CPRI:OBS:RPFR:ADDR:TARG #H1111
See Also	SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:SOURce

:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:TARGet?

Description	This Query returns the OBSAI RP3 Frame Target Address.
	At *RST condition, this value is set to 0x1234.
	Navigation Path: Setup > Test Configurator > Interface OBSAI > RP3 Address - Target
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:TARGet?
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns RP3 Target Address.
Example(s)	SOUR:DATA:TEL:CPRI:OBS:RPFR:ADDR:TARG?
See Also	SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:SOURce?

:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:MESSages:TYPE

Description	This command sets the OBSAI RP3 Message Type.
	At *RST condition, this value is set to WCDMA/FDD.
	Navigation Path: Setup > Test Configurator > Interface OBSAI > RP3 Message > Type
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:MESSages:TYPE[<wsp><Type>]
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets Message Type.
	WCDMA_FDD: WCDMA/FDD,
	LTE: LTE,
	GSM_EDGE: GSM/EDGE,
	802_16: 802.16
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:CPRI:OBS:RPFR:MESS:TYPE LTE
See Also	SOURce:DATA:TELecom:CPRI:OBSai:TXSeed

:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:MESSages:TYPE?

Description	This Query returns the OBSAI RP3 Message Type.
	At *RST condition, this value is set to WCDMA/FDD.
	Navigation Path: Setup > Test Configurator > Interface OBSAI > RP3 Message > Type
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:MESSages:TYPE?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns RP3 Message Type.
Example(s)	SOUR:DATA:TEL:CPRI:OBS:RPFR:MESS:TYPE?
See Also	SOURce:DATA:TELecom:CPRI:OBSai:TXSeed?

:SOURce:DATA:TELecom:CPRI:OBSai:SCRamble

Description	This command enables/disables the OBSAI Scrambling.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Interface OBSAI > LINK - Scrambling
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:SCRamble <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	ON, Enables the OBSAI Scrambling.
	OFF, disables the OBSAI Scrambling.
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:CPRI:OBS:SCR ON
See Also	SOURce:DATA:TELecom:CPRI:OBSai:FCBGen

:SOURce:DATA:TELecom:CPRI:OBSai:SCRamble?

Description	This Query returns the OBSAI enable/disable scrambling status.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Interface OBSAI > LINK - Scrambling
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:SCRamble?
Response Syntax	\<Set\>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA\> element.
	Returns Scrambling enable/disable status.
Example(s)	SOUR:DATA:TEL:CPRI:OBS:SCR?
See Also	SOURce:DATA:TELecom:CPRI:OBSai:FCBGen?

:SOURce:DATA:TELecom:CPRI:OBSai:TXSeed

Description	This command sets the OBSAI TX Seed value.
	At *RST condition, this value is set to 0x01.
	Navigation Path: Setup > Test Configurator > Interface OBSAI > LINK - TX Seed.
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:TXSeed[<wsp><Set>]
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the TX Seed Hex value from below list.
	T_0X01: 0x01, T_0X03: 0x03, T_0X05: 0x05, T_0X07: 0x07, T_0X09: 0x09, T_0X0F: 0x0F, T_0X11: 0x11, T_0X15: 0x15, T_0X1A: 0x1A, T_0X1B: 0x1B, T_0X2D: 0x2D, T_0X2E: 0x2E, T_0X33: 0x33, T_0X3F: 0x3F, T_0X54: 0x54, T_0X73: 0X73, T_0X76: 0x76, T_0X7D: 0x7D
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:CPRI:OBS:TXS T_0X01
See Also	SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:MESSages:TYPE

:SOURce:DATA:TELecom:CPRI:OBSai:TXSeed?

Description	This Query returns the OBSAI TX Seed value.
	At *RST condition, this value is set to 0x01.
	Navigation Path: Setup > Test Configurator > Interface OBSAI > LINK - TX Seed
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:TXSeed?
Response Syntax	<TX Seed Count>
Response(s)	**TX Seed Count**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Return TX Seed Count.
Example(s)	SOUR:DATA:TEL:CPRI:OBS:TXS?
See Also	SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:MESSages:TYPE?

:SOURce:DATA:TELecom:CPRI:PORT:CMCHannel

Description	This command sets the CPRI C&M Channel Type.
	At *RST condition, this value is set to AUTO.
	Navigation Path: Setup > Test Configurator > interface CPRI > LINK > C&M Channel
Syntax	:SOURce:DATA:TELecom:CPRI:PORT:CMCHannel[<wsp><C&M Channel>]
Parameter(s)	**C&M Channel**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Protocol C&M Channel Type value.
	AUTO
	DISABLED
	ETHernet
	HDLC
Response Syntax	<TX Seed Count>
Example(s)	SOUR:DATA:TEL:CPRI:PORT:CMCH HDLC
See Also	SOURce:DATA:TELecom:CPRI:PORT:PROTocol

:SOURce:DATA:TELecom:CPRI:PORT:CMCHannel?

Description	This query returns the CPRI C&M Channel Type.
	At *RST condition, this value is set to AUTO.
	Navigation Path: Setup > Test Configurator > interface CPRI > LINK > C&M Channel
Syntax	:SOURce:DATA:TELecom:CPRI:PORT:CMCHannel?
Response Syntax	<C&M Channel>
Response(s)	**C&M Channel**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the C&M Channel type.
	Auto, Auto is selected.
	HDLC, HDLC is selected.
	Ethernet, Ethernet is selected.
Example(s)	SOUR:DATA:TEL:CPRI:PORT:CMCH?
See Also	SOURce:DATA:TELecom:CPRI:PORT:PROTocol?

:SOURce:DATA:TELecom:CPRI:PORT:HDLC:RATE

Description	This command sets the CPRI HDLC channel value.
	At *RST condition, this value is set to 7.680.
	Navigation Path: Setup > Test Configurator > interface CPRI > LINK > C&M Channel > HDLC > Rate
Syntax	:SOURce:DATA:TELecom:CPRI:PORT:HDLC:RATE[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the HDLC Rate.
	RATE240, get the 0.240 HDLC rate.
	RATE480, get the 0.480 HDLC rate.
	RATE960, get the 0.960 HDLC rate.
	RATE1920,get the 1.920 HDLC rate.
	RATE2400,get the 2.400 HDLC rate.
	RATE7680,get the 2.400 HDLC rate.
	RATEPROPRIETARY, get the Proprietary HDLC rate.
Response Syntax	<C&M Channel>
Example(s)	SOUR:DATA:TEL:CPRI:PORT:HDLC:RATE RATE1920
See Also	SOURce:DATA:TELecom:CPRI:PORT:PROTocol

:SOURce:DATA:TELecom:CPRI:PORT:HDLC:RATE?

Description	This query returns the HDLC Channel value.
	At *RST condition, this value is set to 7.680.
	Navigation Path: Setup > Test Configurator > interface CPRI > LINK > C&M Channel > HDLC > Rate
Syntax	:SOURce:DATA:TELecom:CPRI:PORT:HDLC:RATE?
Response Syntax	<HDLC>
Response(s)	**HDLC**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the HDLC Rate.
	RATE240, get the 0.240 HDLC rate.
	RATE480, get the 0.480 HDLC rate.
	RATE960, get the 0.960 HDLC rate.
	RATE1920, get the 1.920 HDLC rate.
	RATE2400, get the 2.400 HDLC rate.
	RATE7680, get the 2.400 HDLC rate.
	RATEPROPRIETARY, get the Proprietary HDLC rate.
Example(s)	SOUR:DATA:TEL:CPRI:PORT:HDLC:RATE RATE1920
	SOUR:DATA:TEL:CPRI:PORT:HDLC:RATE?
	Returns the HDLC RATE: RATE1920
See Also	SOURce:DATA:TELecom:CPRI:PORT:CMCHannel?

:SOURce:DATA:TELecom:CPRI:PORT:PROTocol

Description	This command sets the CPRI Protocol Version Type.
	At *RST condition, this value is set to AUTO.
	Navigation Path: Setup > Test Configurator > interface CPRI > LINK > Protocol
Syntax	:SOURce:DATA:TELecom:CPRI:PORT:PROTocol[<wsp><Protocol Version>]
Parameter(s)	**Protocol Version**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Protocol Version Type value.
	AUTO
	VERSION1
	VERSION2
Response Syntax	<HDLC>
Example(s)	SOUR:DATA:TEL:CPRI:PORT:PROT VERSION1
See Also	SOURce:DATA:TELecom:CPRI:PORT:CMCHannel

:SOURce:DATA:TELecom:CPRI:PORT:PROTocol?

Description	This query return the CPRI Protocol Version Type.
	At *RST condition, this value is set to AUTO.
	Navigation Path: Setup > Test Configurator > interface CPRI > LINK > Protocol
Syntax	:SOURce:DATA:TELecom:CPRI:PORT:PROTocol?
Response Syntax	<Protocol version>
Response(s)	**Protocol version**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Protocol Version type.
	Auto, Auto is selected.
	Verson1, Verson1, is selected.
Example(s)	SOUR:DATA:TEL:CPRI:PORT:PROT?
See Also	SOURce:DATA:TELecom:CPRI:PORT:CMCHannel?

:SOURce:DATA:TELecom:CPRI:PORT:SUBChannel

Description	This command sets the CPRI Ethernet Sub Channel rate by setting appropriate value.
	At *RST condition, this value is set to 20.
	Navigation Path: Setup > Test Configurator > interface CPRI > LINK > C&M Channel > Ethernet > Subchannel
Syntax	:SOURce:DATA:TELecom:CPRI:PORT:SUBChannel \<wsp>\<Value>
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a \<DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Sub channel Number.
	MAXimum, sets the Sub channel Number as maximum.
	MINimum, sets the Sub channel Number as minimum.
	DEFault, sets the Sub channel Number as default value.
Response Syntax	\<Protocol version>
Example(s)	SOUR:DATA:TEL:CPRI:PORT:SUBC 30
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:AMOunt

:SOURce:DATA:TELecom:CPRI:PORT:SUBChannel?

Description	This query return the CPRI Ethernet Sub Channel rate by setting appropriate value.
	At *RST condition, this value is set to 20.
	Navigation Path: Setup > Test Configurator > interface CPRI > LINK > C&M Channel > Ethernet > Subchannel
Syntax	:SOURce:DATA:TELecom:CPRI:PORT:SUBChannel?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Get the Sub channel Number. Range: 20 to 63.
	MAXimum, get the Sub channel Number as maximum.
	MINimum, get the Sub channel Number as minimum.
	DEFault, get the Sub channel Number as default value.
Response Syntax	<SubChannel>
Response(s)	**SubChannel**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the TX rate.
	MAXimum, Gets the frame size as maximum.
	MINimum, Gets the frame size as minimum.
Example(s)	SOUR:DATA:TEL:CPRI:PORT:SUBC 30
	SOUR:DATA:TEL:CPRI:PORT:SUBC?
	Returns 30
	SOUR:DATA:TEL:CPRI:PORT:SUBC? MIN
	SOUR:DATA:TEL:CPRI:PORT:SUBC? MAX
See Also	SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:AMOunt?

:SOURce:DATA:TELecom:CPRI:UNFRamed:SCRamble:ENABle

Description	This command enables CPRI Scrambling for unframed test.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > Test Configurator > Interface CPRI > Scrambling
Syntax	:SOURce:DATA:TELecom:CPRI:UNFRamed:SCRamble:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<SubChannel>
Example(s)	SOUR:DATA:TEL:CPRI:UNFR:SCR:ENAB ON
See Also	SOURce:DATA:TELecom:CPRI:VERDict:ENABle

:SOURce:DATA:TELecom:CPRI:UNFRamed:SCRamble:ENABle ?

Description	This query returns the status of CPRI Scrambling for unframed test.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > Test Configurator > Interface CPRI > Scrambling
Syntax	:SOURce:DATA:TELecom:CPRI:UNFRamed:SCRamble:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:CPRI:UNFR:SCR:ENAB?
See Also	SOURce:DATA:TELecom:CPRI:VERDict:ENABle?

:SOURce:DATA:TELecom:ETHernet:FEC:DSER:ENABle

Description	This command enables/disables FEC Degraded SER.
	At *RST condition, this value is set to Enabled.
	Navigation Path: Setup > Test Configurator > Interface > FEC Degraded SER
Syntax	:SOURce:DATA:TELecom:ETHernet:FEC:DSER:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:FEC:DSER:ENAB ON
	SOUR:DATA:TEL:ETH:FEC:DSER:ENAB?
	Returns 1
See Also	SOURce:DATA:TELecom:ETHernet:FEC:ENABle

:SOURce:DATA:TELecom:ETHernet:FEC:DSER:ENABle?

Description	This query returns the FEC Degraded SER status.
	At *RST, this value is set to Enabled.
	Navigation Path: Setup > Test Configurator > Interface > FEC Degraded SER
Syntax	:SOURce:DATA:TELecom:ETHernet:FEC:DSER:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:FEC:DSER:ENAB ON
	SOUR:DATA:TEL:ETH:FEC:DSER:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:FEC:ENABle?

:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:ACTIvate

Description	This command sets the value of FEC Degraded SER Activate Threshold.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > FEC Degraded SER > Thresholds > Activate Threshold (Symbols)
Syntax	:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:ACTIvate <wsp><Threshold>
Parameter(s)	**Threshold**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets value of Degraded SER Activate Threshold.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:FEC:DSER:THR:ACTI 123
See Also	SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:DEACtivate

:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:ACTIvate?

Description	This query returns the value of FEC Degraded SER Activate Threshold.
	Navigation Path: Setup > Test Configurator > Interface > FEC Degraded SER > Thresholds > Activate Threshold (Symbols)
Syntax	:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:ACTIvate?[<wsp><Token>]
Parameter(s)	**Token**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	MAXimum
	MINimum
Response Syntax	<Threshold>
Response(s)	**Threshold**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	This parameter is optional. If no token is specified, the current value of FEC Degraded SER Activate Threshold is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Example(s)	SOUR:DATA:TEL:ETH:FEC:DSER:THR:ACTI 123
	SOUR:DATA:TEL:ETH:FEC:DSER:THR:ACTI?
	Returns: 123
See Also	SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:DEACtivate?

:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:DEACtivate

Description	This command sets the value of FEC Degraded SER Deactivate Threshold.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > FEC degraded SER > Thresholds > Deactivate Threshold (Symbols)
Syntax	:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:DEACtivate <wsp><Threshold>
Parameter(s)	**Threshold**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets value of Degraded SER Deactivate Threshold.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Threshold>
Example(s)	SOUR:DATA:TEL:ETH:FEC:DSER:THR:DEAC 123
See Also	SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:ACTIvate

:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:DEACtivate?

Description	This query returns the value of FEC Degraded SER Deactivate Threshold.
	Navigation Path: Setup > Test Configurator > Interface > FEC degraded SER > Thresholds > Deactivate Threshold (Symbols)
Syntax	:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:DEACtivate?[<wsp><Token>]
Parameter(s)	**Token**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	MAXimum
	MINimum
Response Syntax	<Threshold>
Response(s)	**Threshold**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	This parameter is optional. If no token is specified, the current value of FEC Degraded SER Deactivate Threshold is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Example(s)	SOUR:DATA:TEL:ETH:FEC:DSER:THR:DEAC 123
	SOUR:DATA:TEL:ETH:FEC:DSER:THR:DEAC?
	Returns: 123
See Also	SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:ACTIvate?

:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:INTErval

Description	This command sets the value of FEC Degraded SER Interval.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > FEC degraded SER > Thresholds>Interval(CW)
Syntax	:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:INTErval <wsp><Interval>
Parameter(s)	**Interval**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets value of Degraded SER Interval.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Threshold>
Example(s)	SOUR:DATA:TEL:ETH:FEC:DSER:THR:INTE 123
See Also	SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:ACTIvate

:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:INTErval?

Description	This query returns the value of FEC Degraded SER Interval.
	Navigation Path: Setup > Test Configurator > Interface > FEC degraded SER > Threshold > Interval(CW)
Syntax	:SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:INTErval?[<wsp><Token>]
Parameter(s)	**Token**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	MAXimum
	MINimum
Response Syntax	<Threshold>
Response(s)	**Threshold**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	This parameter is optional. If no token is specified, the current value of FEC Degraded SER Interval is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Example(s)	SOUR:DATA:TEL:ETH:FEC:DSER:THR:INTE 123
	SOUR:DATA:TEL:ETH:FEC:DSER:THR:INTE?
	Returns: 123
See Also	SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:ACTIvate?

:SOURce:DATA:TELecom:ETHernet:FEC:ENABle

Description	This command enables/disables RS-FEC.
	At *RST, this value is set to Enabled.
	Navigation Path: Setup > Test Configurator > Interface > RS-FEC (RX Only)
Syntax	:SOURce:DATA:TELecom:ETHernet:FEC:ENABle <wsp><Status>
Parameter(s)	Status:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Threshold>
Example(s)	SOUR:DATA:TEL:ETH:FEC:ENAB ON
	SOUR:DATA:TEL:ETH:FEC:ENAB?
	Returns 1
See Also	SOURce:DATA:TELecom:ETHernet:FEC:ENABle

:SOURce:DATA:TELecom:ETHernet:FEC:ENABle?

Description	This query returns the enalbe/disable status of RS-FEC (RX Only).
	At *RST, this value is set to Enabled.
	Navigation Path: Setup > Test Configurator > Interface > RS-FEC (RX Only)
Syntax	:SOURce:DATA:TELecom:ETHernet:FEC:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:FEC:ENAB ON
	SOUR:DATA:TEL:ETH:FEC:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:FEC:ENABle?

:SOURce:DATA:TELecom:ETHernet:HRATe:RFE:ENABle

Description	This command enables the configure Remote Fault Emulation for parallel interfaces.
	At *RST, this value is set to Disabled.
	Navigation Path: Setup > Test Configurator > Interface > Remote Fault Emulation
Syntax	:SOURce:DATA:TELecom:ETHernet:HRATe:RFE:ENABle <wsp><Status>
Parameter(s)	Status:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:HRAT:RFE:ENAB ON
See Also	SOURce:DATA:TELecom:ETHernet:HRATe:RFE:ENABle?

:SOURce:DATA:TELecom:ETHernet:HRATe:RFE:ENABle?

Description	This query returns the Remote Fault Emulation status for parallel interfaces.
	At *RST, this value is set to Disabled.
	Navigation Path: Setup > Test Configurator > Interface > Remote Fault Emulation
Syntax	:SOURce:DATA:TELecom:ETHernet:HRATe:RFE:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:HRAT:RFE:ENAB ON
	SOUR:DATA:TEL:ETH:HRAT:RFE:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:HRATe:RFE:ENABle

:SOURce:DATA:TELecom:ETHernet:LRATe:RFE:ENABle

Description	This command enables the Remote Fault Emulation for serial interfaces.
	At *RST, this value is set to Disabled.
	Navigation Path: Setup > Test Configurator > Interface > Remote Fault Emulation
Syntax	:SOURce:DATA:TELecom:ETHernet:LRATe:RFE:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:LRAT:RFE:ENAB ON
See Also	SOURce:DATA:TELecom:ETHernet:LRATe:RFE:ENABle?

:SOURce:DATA:TELecom:ETHernet:LRATe:RFE:ENABle?

Description	This query returns the Remote Fault Emulation status for serial interfaces.
	At *RST, this value is set to Disabled.
	Navigation Path: Setup > Test Configurator > Interface > Remote Fault Emulation
Syntax	:SOURce:DATA:TELecom:ETHernet:LRATe:RFE:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:LRAT:RFE:ENAB ON
	SOUR:DATA:TEL:ETH:LRAT:RFE:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:LRATe:RFE:ENABle

:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:BANDwidth

Description	This command sets the transmitted bandwidth when Auto-Negotiation is enabled.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Interface > LINK > Speed.
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:BANDwidth <wsp><Bandwidth>
Parameter(s)	**Bandwidth**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the speed of the module.
	B10Mbps: 10 Mbit/s
	B100Mbps: 100 Mbit/s
	B1Gbps: 1 Gbit/s
	AUTO: Auto
Response Syntax	<Status>
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:BANDwidth AUTO
	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:BANDwidth?
	Returns: AUTO
See Also	SOURce:DATA:TELecom:ETH:PORT:DUPL
	SOURce:DATA:TELecom:ETH:PORT:DUPL?

:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:BANDwidth?

Description	This query returns the value of transmitted bandwidth when Auto-Negotiation is enabled.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Interface > LINK > Speed.
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:BANDwidth?
Response Syntax	\<Bandwidth\>
Response(s)	**Bandwidth**:
	The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA\> element.
	Returns the value of transmitted bandwidth for the selected instrument when Autoneg is enabled.
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:BANDwidth AUTO
	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:BANDwidth?
	Returns: AUTO
See Also	SOURce:DATA:TELecom:ETHernet:PORT:FCONtrol

:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:DUPLex

Description	This command sets the duplex mode when Auto-Negotiation is enabled.
	At *RST condition, this value is set to FULL.
	Navigation Path: Setup > Test Configurator > Interface > LINK > Duplex.
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:DUPLex <wsp><Duplex>
Parameter(s)	**Duplex**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the duplex mode for the instrument.
	FULL
	HALF
	AUTO
Response Syntax	<Bandwidth>
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:DUPLex FULL
	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:DUPLex?
	Returns: FULL
See Also	SOURce:DATA:TELecom:ETH:PORT:BAND
	SOURce:DATA:TELecom:ETH:PORT:BAND?

:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:DUPLex?

Description	This query returns the duplex mode when Auto-Negotiation is enabled.
	At *RST condition, this value is set to FULL.
	Navigation Path: Setup > Test Configurator > Interface > LINK > Duplex.
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:DUPLex?
Response Syntax	<Duplex>
Response(s)	**Duplex**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the duplex value.
	FULL, full duplex mode is selected.
	HALF, Half duplex mode is selected.
	AUTO,Auto duuplex mode is selected
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:DUPLex FULL
	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:DUPLex?
	Returns: Full
See Also	SOURce:DATA:TELecom:ETH:PORT:DUPL
	SOURce:DATA:TELecom:ETH:PORT:DUPL?

:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:FCONtrol

Description	This command selects the flow control when Auto-Negotiation is enabled.
	At *RST condition, this value is set to NONE.
	Navigation Path: Setup > Test Configurator > Interface > LINK > Flow Control
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:FCONtrol <wsp><Control>
Parameter(s)	**Control**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the flow control
	NONE: No flow control
	RX: Transmitter to receiver (Enable RX)
	TX: Receiver to transmitter (Enable TX)
	RXANDTX: RX and TX
	AUTO: Auto
Response Syntax	<Duplex>
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:FCONtrol NONE
	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:FCONtrol?
	Returns: NONE
See Also	SOURce:DATA:TELecom:ETH:PORT:BAND
	SOURce:DATA:TELecom:ETH:PORT:BAND?

:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:FCONtrol?

Description	This query returns the flow control when Auto-Negotiation is enabled.
	At *RST condition, this value is set to NONE.
	Navigation Path: Setup > Test Configurator > Interface > LINK > Flow Control
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:FCONtrol?
Response Syntax	<Control>
Response(s)	**Control**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the flow control.
	NONE, Flow control is none.
	RX,Flow control is enable rx.
	TX,Flow control is enable tx.
	RXANDTX,Flow control is RXANDTX.
	AUTO,Flow control is Auto.
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:FCONtrol NONE
	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:FCONtrol?
	Returns: NONE
See Also	SOURce:DATA:TELecom:ETH:PORT:BAND
	SOURce:DATA:TELecom:ETH:PORT:BAND?

:SOURce:DATA:TELecom:ETHernet:PORT:BANDwidth

Description	This command sets the transmitted bandwidth.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Interface > LINK > Speed.
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:BANDwidth <wsp><Bandwidth>
Parameter(s)	**Bandwidth**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the speed of the module.
	B10Mbps: 10 Mbit/s
	B100Mbps: 100 Mbit/s
	B1Gbps: 1 Gbit/s
Response Syntax	<Control>
Example(s)	SOUR:DATA:TEL:ETH:PORT:BAND B1GBPS
	SOUR:DATA:TEL:ETH:PORT:BAND?
	Returns: B1GBPS
See Also	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:DUPLex
	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:DUPLex?

:SOURce:DATA:TELecom:ETHernet:PORT:BANDwidth?

Description	This query returns the value of transmitted bandwidth.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Interface > LINK > Speed.
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:BANDwidth?
Response Syntax	<Bandwidth>
Response(s)	**Bandwidth**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the bandwidth in bps.
	B10Mbps, 10Mbps speed is selected.
	B100Mbps, 100Mbps speed is selected.
	B1Gbps, 1Gbps speed is selected.
Example(s)	SOUR:DATA:TEL:ETH:PORT:BAND B1GBPS
	SOUR:DATA:TEL:ETH:PORT:BAND?
	Returns: B1GBPS
See Also	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:FCONtrol
	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:FCONtrol?

:SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE

Description	This command sets the cable mode.
	Navigation Path: Setup > Test Configurator > Interface > LINK > Cable Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Cable mode.
	MANual
	AUTomatic
Response Syntax	<Bandwidth>
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE MANUAL
	SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE?
	Returns: MANUAL
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:LANE

:SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE:STATus

Description	This command sets the cable type (MDI or MDIX).
	Navigation Path: Setup > Test Configurator > Interface > LINK > Cable Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE:STATus <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the cable type.
	MDIX: Media Dependant Interface Crossover (crossover Ethernet cable)
	MDI: Media Dependant Interface (straight through Ethernet cable)
Response Syntax	<Bandwidth>
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE:STATus MDIX
See Also	SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE?

:SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE:STATus?

Description	This query returns the cable type (MDI or MDIX).
	Navigation Path: Setup > Test Configurator > Interface > LINK > Cable Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the cable type.
	MDIX, Media Dependant Interface Crossover (crossover Ethernet cable) is selected as cable type.
	MDI, Media Dependant Interface (straight through Ethernet cable) is seleted as cable type
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE:STATus MDIX
	SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE:STATus?
	Returns: MDIX
See Also	SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE

:SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE?

Description	This query returns the Cable mode.
	Navigation Path: Setup > Test Configurator > Interface > LINK > Cable Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE?
Response Syntax	<Cable Mode>
Response(s)	**Cable Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the cable mode
	MANUAL, selected cable mode is Manual.
	AUTOMATIC, selected cable mode is Automatic.
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE MANUAL
	SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE?
	Returns: MANUAL
See Also	SOURce:DATA:TELecom:PATTern:ALARm:SYNCh?

:SOURce:DATA:TELecom:ETHernet:PORT:DUPLex

Description	This command sets the duplex mode.
	At *RST condition, this value is set to FULL.
	Navigation Path: Setup > Test Configurator > Interface > LINK > Duplex.
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:DUPLex <wsp><Duplex>
Parameter(s)	**Duplex**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the duplex mode for the instrument.
	FULL
	HALF
Response Syntax	<Cable Mode>
Example(s)	SOUR:DATA:TEL:ETH:PORT:DUPL FULL
	SOUR:DATA:TEL:ETH:PORT:DUPL?
	Returns: FULL
See Also	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:BANDwidth
	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:BANDwidth?

:SOURce:DATA:TELecom:ETHernet:PORT:DUPLex?

Description	This query returns the duplex mode.
	At *RST condition, this value is set to FULL.
	Navigation Path: Setup > Test Configurator > Interface > LINK > Duplex.
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:DUPLex?
Response Syntax	<Duplex>
Response(s)	**Duplex**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the duplex value.
	FULL, full duplex mode is selected.
	HALF, Half duplex mode is selected.
Example(s)	SOUR:DATA:TEL:ETH:PORT:DUPL FULL
	SOUR:DATA:TEL:ETH:PORT:DUPL?
	Returns: FULL
See Also	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:DUPLex
	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:DUPLex?

:SOURce:DATA:TELecom:ETHernet:PORT:FCONtrol

Description	This command selects the flow control.
	At *RST condition, this value is set to NONE.
	Navigation Path: Setup > Test Configurator > Interface > LINK > Flow Control
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:FCONtrol <wsp><Control>
Parameter(s)	**Control**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the flow control
	NONE: No flow control
	RX: Transmitter to receiver (Enable RX)
	TX: Receiver to transmitter (Enable TX)
	RXANDTX: RX and TX
Response Syntax	<Duplex>
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:FCONtrol TX
	SOURce:DATA:TELecom:ETHernet:PORT:FCONtrol?
	Returns: TX
See Also	SOURce:DATA:TELecom:ETHernet:PORT:LOCal:CLOCk
	SOURce:DATA:TELecom:ETHernet:PORT:LOCal:CLOCk?

:SOURce:DATA:TELecom:ETHernet:PORT:FCONtrol?

Description	This query returns the flow control.
	At *RST condition, this value is set to NONE.
	Navigation Path: Setup > Test Configurator > Interface > LINK > Flow control
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:FCONtrol?
Response Syntax	<Control>
Response(s)	**Control**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the flow control.
	NONE, No flow control is selected.
	RX, Enable RX is selected.
	TX, Enable TX is selected.
	RXANDTX,Enable RXANDTX is selected.
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:FCONtrol TX
	SOURce:DATA:TELecom:ETHernet:PORT:FCONtrol?
	Returns: TX
See Also	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:BANDwidth
	SOURce:DATA:TELecom:ETHernet:PORT:ANEGotiation:BANDwidth?

:SOURce:DATA:TELecom:ETHernet:PORT:LOCal:CLOCk

Description	This command sets the Local Clock Type.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Interface > LINK > Local Clock.
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:LOCal:CLOCk <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the clock type.
	MASTER, Master clock type is selected.
	SLAVE,Slave clock type is selected.
	AUTO, Auto clock type is selected.
Response Syntax	<Control>
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:LOCal:CLOCk MASTER
	SOURce:DATA:TELecom:ETHernet:PORT:LOCal:CLOCk?
	Returns: MASTER
See Also	SOURce:DATA:TELecom:ETHernet:PORT:FCONtrol
	SOURce:DATA:TELecom:ETHernet:PORT:FCONtrol?

:SOURce:DATA:TELecom:ETHernet:PORT:LOCal:CLOCk?

Description	This query returns type of Local Clock selected.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Interface > LINK > Local Clock.
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:LOCal:CLOCk?
Response Syntax	<Clock Type>
Response(s)	**Clock Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns clock type
	MASTER, Master clock type is selected.
	SLAVE,Slave clock type is selected.
	AUTO,Auto clock type is selected.
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:LOCal:CLOCk MASTER
	SOURce:DATA:TELecom:ETHernet:PORT:LOCal:CLOCk?
	Returns: MASTER
See Also	SOURce:DATA:TELecom:ETHernet:PORT:CABLe:MODE:STATus

:SOURce:DATA:TELecom:ETHernet:PORT:NEGotiation

Description	This command enables Auto-Negotiation.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Interface > LINK > Auto-Negotioation check box
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:NEGotiation <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the auto-negotiation for the selected instrument port status.
	ON,Enables auto-negotiation for the selected instrument port.
	OFF,Disables auto-negotiation for the selected instrument port.
Response Syntax	<Clock Type>
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:NEGotiation ON
	SOURce:DATA:TELecom:ETHernet:PORT:NEGotiation?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt

:SOURce:DATA:TELecom:ETHernet:PORT:NEGotiation?

Description	This query returns the status of Auto-Negotiation.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Interface > LINK > Auto-Negotioation check box
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:NEGotiation?
Response Syntax	<status>
Response(s)	**status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of auto-negotiation for the selected instrument port.
	1, Auto-negotiation for the selected instrument port is enabled.
	0, Auto-negotiation for the selected instrument port is disabled.
Example(s)	SOURce:DATA:TELecom:ETHernet:PORT:NEGotiation ON
	SOURce:DATA:TELecom:ETHernet:PORT:NEGotiation?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt?

:SOURce:DATA:TELecom:ETHernet:RSFec

Description	This command enables RS-FEC.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Interface 100GE (4 lanes) > LINK > RS- FEC
Syntax	:SOURce:DATA:TELecom:ETHernet:RSFec <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the RS-FEC.
	ON, enables RS-FEC.
	OFF, disabled RS-FEC.
Response Syntax	<status>
Example(s)	SOUR:DATA:TEL:EHT:RSF ON
	SOUR:DATA:TEL:EHT:RSF?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:RSFec

:SOURce:DATA:TELecom:ETHernet:RSFec?

Description	This query returns the status of RS-FEC.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Interface 100GE (4 lanes) > LINK > RS- FEC
Syntax	:SOURce:DATA:TELecom:ETHernet:RSFec?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of RS-FEC.
	1, RS-FEC is enabled.
	0, RS-FEC is disabled.
Example(s)	SOUR:DATA:TEL:EHT:RSF ON
	SOUR:DATA:TEL:EHT:RSF?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:RSFec?

:SOURce:DATA:TELecom:ETHernet:WIS:PATH:LABel

Description	This command sets the path signal label (C2) for WAN.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > 10 GEWAN > WIS > Path Signal Label(C2) (10GEWAN)
Syntax	:SOURce:DATA:TELecom:ETHernet:WIS:PATH:LABel <wsp><Label>
Parameter(s)	**Label**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the path signal label.
	UNEQuipped: the unequipped path signal label.
	EQUipped: the equipped non-specific path signal label.
	M10ETHERNET: the 10 Gbps ethernet (IEEE 802.3) path signal label.
	TSIGnal: the test signal, ITU-T 0.181 specific mapping path signal label.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:WIS:PATH:LAB EQU
	SOUR:DATA:TEL:ETH:WIS:PATH:LAB?
	Returns: EQUIPPED
See Also	SOURce:DATA:TELecom:ETHernet:WIS:PATH:LABel

:SOURce:DATA:TELecom:ETHernet:WIS:PATH:LABel?

Description	This query returns the path signal label (C2) for WAN.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > 10 GEWAN > WIS > Path Signal Label(C2) (10GEWAN)
Syntax	:SOURce:DATA:TELecom:ETHernet:WIS:PATH:LABel?
Response Syntax	<Label>
Response(s)	**Label**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the path signal label.
	UNEQUIPPED, Unequipped path signal label is selected.
	EQUIPPED, Equipped non-specific path signal label is selected.
	M10ETHERNET, 10 Gbps ethernet (IEEE 802.3) path signal label is selected.
	TSIGNAL, Test signal, ITU-T 0.181 specific mapping path signal label is selected.
Example(s)	SOUR:DATA:TEL:ETH:WIS:PATH:LAB EQU
	SOUR:DATA:TEL:ETH:WIS:PATH:LAB?
	Returns: EQUIPPED
See Also	SOURce:DATA:TELecom:ETHernet:WIS:PATH:LABel?

:SOURce:DATA:TELecom:ETHernet:WIS:TRACe

Description	This command sets the path trace string for the WAN Interface Sublayer (WIS) operation.
	At *RST condition, ASCii is selected as default type. The type length is device-dependent.
	Navigation Path: Setup > Test Configurator > 10 GEWAN > WIS > J0/J1 trace (10GEWAN)
Syntax	:SOURce:DATA:TELecom:ETHernet:WIS:TRACe \<wsp>\<Trace>, \<String>, \<Padding Type>
Parameter(s)	**Trace**:
	The program data syntax for the first parameter is defined as a \<CHARACTER PROGRAM DATA> element.
	Selects the trace.
	J0
	J1
	String:
	The program data syntax for the second parameter is defined as a \<STRING PROGRAM DATA> element.
	Select the string for specific path trace.
	Padding Type:
	The program data syntax for the third parameter is defined as a \<CHARACTER PROGRAM DATA> element.
	Select the padding type.
	SPACE
	NULL
Response Syntax	\<Label>
Example(s)	SOUR:DATA:TEL:ETH:WIS:TRAC J1, EXFO4GigE,SPACE
	SOUR:DATA:TEL:ETH:WIS:TRAC? J1 Returns: EXFO4GigE
See Also	SOURce:DATA:TELecom:ETHernet:WIS:PLMuneq?

:SOURce:DATA:TELecom:ETHernet:WIS:TRACe?

Description	This query returns the path trace string for the WAN Interface Sublayer (WIS) operation.
	At *RST condition, ASCii is selected as the default type. The type length is device-dependent.
	Navigation Path: Setup > Test Configurator > 10 GEWAN > WIS > J0/J1 trace (10GEWAN)
Syntax	:SOURce:DATA:TELecom:ETHernet:WIS:TRACe? <wsp><Trace>
Parameter(s)	**Trace**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the trace.
	J0
	J1
Response Syntax	<String>
Response(s)	**String**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the string for the specific path trace.
Example(s)	SOUR:DATA:TEL:ETH:WIS:TRAC J1, EXFO4GigE,NULL
	SOUR:DATA:TEL:ETH:WIS:TRAC? J1 Returns: EXFO4GigE
See Also	SOURce:DATA:TELecom:ETHernet:WIS:PLMuneq

:SOURce:DATA:TELecom:FETHernet:GROup:PNUMber

Description	This command sets the PHY Number associated for a specific port.
	At *RST condition, this value is set to 1 for the smallest port of the group and increasing by 1 subsequently.
	Navigation Path: Setup > Test Configurator > Interface > FlexE PHY Number
Syntax	:SOURce:DATA:TELecom:FETHernet:GROup:PNUMber <wsp><PortId>, <PHY Number>
Parameter(s)	**PortId**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the port number to apply the FlexE PHY Number.
	P1 or PORT1: Port 1
	P2 or PORT2: Port 2
	P3 or PORT3: Port 3
	P4 or PORT4: Port 4
	A1: A1
	A2: A2
	B1: B1
	B2: B2
	PHY Number:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the PHY Number for the selected port.
	Value Range: 1 to 254.
Response Syntax	<String>
Example(s)	SOUR:DATA:TEL:FETH:GRO:PNUM P1, 10
	SOUR:DATA:TEL:FETH:GRO:PNUM? P1
	Returns: 10
See Also	SOURce:DATA:TELecom:FETHernet:GROup:PNUMber?

:SOURce:DATA:TELecom:FETHernet:GROup:PNUMber?

Description	This query retursn the PHY Number associated with the specified Port.
	At *RST condition, this value is set to 1 for the smallest port of the group and increasing by 1 subsequently.
	Navigation Path: Setup > Test Configurator > Interface > FlexE PHY Number
	Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 2 - PHY Number
Syntax	:SOURce:DATA:TELecom:FETHernet:GROup:PNUMber? <wsp><Port Id>
Parameter(s)	Port Id:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the port number.
	P1 or PORT1: Port 1
	P2 or PORT2: Port 2
	P3 or PORT3: Port 3
	P4 or PORT4: Port 4
	A1: A1
	A2: A2
	B1: B1
	B2: B2
Response Syntax	<PHY Number>
Response(s)	PHY Number:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the PHY Number associated with the specified port.
	Value Range: 1 to 254
Example(s)	SOUR:DATA:TEL:FETH:GRO:PNUM P1, 10
	SOUR:DATA:TEL:FETH:GRO:PNUM? P1
	Returns: 10
See Also	SOURce:DATA:TELecom:FETHernet:GRO:PNUMber

:SOURce:DATA:TELecom:FETHernet:INSTances:STATus?

Description	This query returns the list of Equipped/Unequipped instances.
	At *RST condition, this value is device dependent.
Syntax	:SOURce:DATA:TELecom:FETHernet:INSTances:STATus?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns list of Instances with its status
Example(s)	SOURce:DATA:TELecom:FETHernet:INSTances:STATus?
	Returns: "0 Equipped, 1 Unequipped"
See Also	SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:CONFig?

:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:ENABle

Description	This command enables/disables Link Degraded Signaling.
	At *RST condition, this value is set to Disabled.
	Navigation Path: Setup > Test Configurator > Interface > Link Degraded Signaling
Syntax	:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:FIB:LINK:DSIG:ENAB ON
See Also	SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:INTerval

:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:ENABle?

Description	This query returns the Link Degraded Signaling status.
	At *RST, this value is set to Disabled.
	Navigation Path: Setup > Test Configurator > Interface > Link Degraded Signaling
Syntax	:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:FIB:LINK:DSIG:ENAB ON
	SOUR:DATA:TEL:FIB:LINK:DSIG:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:INTerval?

:SOURce:DATA:TELecom:FIBer:PSP

Description	This command enables the FC Primitive Sequence Protocol (PSP) link.
	At *RST, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Interface > LINK > PSP (Link Protocol)
Syntax	:SOURce:DATA:TELecom:FIBer:PSP <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FIB:PSP ON
See Also	SOURce:DATA:TELecom:FIBer:PORT:LOGin:STATus

:SOURce:DATA:TELecom:FIBer:PSP?

Description	This query returns the status of FC Primitive Sequence Protocol (PSP) link.
	At *RST, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Interface > LINK > PSP (Link Protocol)
Syntax	:SOURce:DATA:TELecom:FIBer:PSP?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of Primitive Sequence Protocol (PSP) link.
Example(s)	SOUR:DATA:TEL:FIB:PSP ON
	SOUR:DATA:TEL:FIB:PSP?
	Returns: 1
See Also	SOURce:DATA:TELecom:FIBer:PORT:LOGin:STATus?

:SOURce:DATA:TELecom:FOTN:FEC

Description	This command enables/disables the FEC for FlexO.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > Interface > FEC
Syntax	:SOURce:DATA:TELecom:FOTN:FEC <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FEC ON
See Also	SOURce:DATA:TELecom:FOTN:FEC:FCA

:SOURce:DATA:TELecom:FOTN:FEC?

Description	This query returns the status of the FEC for FlexO.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > Interface > FEC
Syntax	:SOURce:DATA:TELecom:FOTN:FEC?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the FEC for FlexO.
	1: FEC is enabled.
	0: FEC is disabled.
Example(s)	SOUR:DATA:TEL:FOTN:FEC?
See Also	SOURce:DATA:TELecom:FOTN:FEC:FCA?

:SOURce:DATA:TELecom:FOTN:INSTance:IDentifier

Description	This command sets the FlexO instance ID associated for a specific port and offset.
	At *RST condition, this value is set to 1 for the smallest port/offset of the group and increasing by 1 subsequently.
	Navigation Path: Setup > Test Configurator > Interface > FlexO Instance ID
Syntax	:SOURce:DATA:TELecom:FOTN:INSTance:IDentifier <wsp><PortId>, <InstanceOffsetOnPort>, <FlexOInstanceId>
Parameter(s)	**PortId**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the port on which the FlexO instance is transported:
	P1 or PORT1: Port 1
	P2 or PORT2: Port 2
	P3 or PORT3: Port 3
	P4 or PORT4: Port 4
	InstanceOffsetOnPort:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the offset on the port of the FlexO instance:
	0 for for 100GFlexORs interfaces
	FlexOInstanceId:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Configures the FlexO instance ID associated with the specified port/offset.:
	Value Range: 1 to 254.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:INST:ID P1, 0, 22
	SOUR:DATA:TEL:FETH:GRO:PNUM? P1, 0
	Returns: 22
See Also	SOURce:DATA:TELecom:FOTN:INSTance:IDentifier?

:SOURce:DATA:TELecom:FOTN:INSTance:IDentifier?

Description	This query returns the FlexO instance ID associated for a specific port and offset.
	At *RST condition, this value is set to 1 for the smallest port/offset of the group and increasing by 1 subsequently.
	Navigation Path: Setup > Test Configurator > Interface > FlexO Instance ID
Syntax	:SOURce:DATA:TELecom:FOTN:INSTance:IDentifier? <wsp><PortId>, <InstanceOffsetOnPort>
Parameter(s)	**PortId**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the port on which the FlexO instance is transported:
	P1 or PORT1: Port 1
	P2 or PORT2: Port 2
	P3 or PORT3: Port 3
	P4 or PORT4: Port 4
	InstanceOffsetOnPort:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the offset on the port of the FlexO instance:
	0 for for 100GFlexORs interfaces
Response Syntax	<FlexOInstanceId>
Response(s)	**FlexOInstanceId**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the FlexO instance ID associated with the specified port/offset.
	Value Range: 1 to 254
Example(s)	SOUR:DATA:TEL:FOTN:INST:ID P1, 0, 22
	SOUR:DATA:TEL:FETH:GRO:PNUM? P1, 0
	Returns: 22
See Also	SOURce:DATA:TELecom:FOTN:INSTance:IDentifier

:SOURce:DATA:TELecom:LINK

Description	This command selects the link used for subsequent commands/queries for test applications using more than one test link.
	For example, the EtherBERT '2x100GE' test controls and monitors two links.
	At *RST condition, this value is device-dependent.
Syntax	:SOURce:DATA:TELecom:LINK <wsp><Link number>
Parameter(s)	**Link number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	1: Link #1
	2: Link #2
Response Syntax	<FlexOInstanceId>
Example(s)	SOUR:DATA:TEL:LINK 1
	SOUR:DATA:TEL:LINK?
	Returns: 1
	SOUR:DATA:TEL:LINK 2
	SOUR:DATA:TEL:LINK?
	Returns: 2

:SOURce:DATA:TELecom:LINK:ENABle

Description	This command enables/disables the selected link for test applications using more than one test link.
	For example, the EtherBERT '2x100GE' test controls and monitors two links.
	At *RST condition, this value is set to ON.
Syntax	:SOURce:DATA:TELecom:LINK:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<FlexOInstanceId>
Example(s)	SOUR:DATA:TEL:LINK 1
	SOUR:DATA:TEL:LINK:ENAB ON
	SOUR:DATA:TEL:LINK:ENAB?
	Returns: 1
	SOUR:DATA:TEL:LINK 2
	SOUR:DATA:TEL:LINK:ENAB OFF
	SOUR:DATA:TEL:LINK:ENAB?
	Returns: 0
See Also	SOURce:DATA:TEL:LINK
	SOURce:DATA:TEL:LINK:ENABle?

:SOURce:DATA:TELecom:LINK:ENABle?

Description	This query returns the enable/disable status of the selected link for test applications using more than one test link.
	For example, the EtherBERT '2x100GE' test controls and monitors two links.
	At *RST condition, this value is ON.
Syntax	:SOURce:DATA:TELecom:LINK:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:LINK 1
	SOUR:DATA:TEL:LINK:ENAB ON
	SOUR:DATA:TEL:LINK:ENAB?
	Returns: 1
	SOUR:DATA:TEL:LINK 2
	SOUR:DATA:TEL:LINK:ENAB OFF
	SOUR:DATA:TEL:LINK:ENAB?
	Returns: 0
See Also	SOURce:DATA:TEL:LINK?

:SOURce:DATA:TELecom:LINK?

Description	This query returns the port used for subsequent commands/queries for test applications using more than one test link.
	For example, the EtherBERT '2x100GE' test controls and monitors two links.
	At *RST condition, this value is device-dependent.
Syntax	:SOURce:DATA:TELecom:LINK?
Response Syntax	<Link number>
Response(s)	**Link number**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	1: Link #1
	2: Link #2
Example(s)	SOUR:DATA:TEL:LINK 1
	SOUR:DATA:TEL:LINK?
	Returns: 1
	SOUR:DATA:TEL:LINK 2
	SOUR:DATA:TEL:LINK?
	Returns: 2

Signal (Transport)

:SENSe:DATA:TELecom:CODE

Description	This command sets the line code for the RX port. At *RST condition, this value is set to B8ZS. Navigation Path: Setup > TestConfigurator > Interface DSn/PDH > Physical Interface > Line Coding
Syntax	:SENSe:DATA:TELecom:CODE <wsp><Code>
Parameter(s)	**Code**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the external timing line code. B8ZS HDB3 AMI
Response Syntax	<Status>
Example(s)	SENS:DATA:TEL:CODE AMI
See Also	OUTPut:TELecom:CODE?

:SENSe:DATA:TELecom:CODE?

Description	This query returns the interface line coding for the RX port.
	At *RST condition, this value is set to B8ZS.
	Navigation Path: Setup > TestConfigurator > Interface DSn/PDH > Physical Interface > Line Coding
Syntax	:SENSe:DATA:TELecom:CODE?
Response Syntax	<Code>
Response(s)	**Code**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the external timing line code.
	B8ZS, B8ZS external timing line code is selected.
	HDB3, HDB3 external timing line code is selected.
	AMI, AMI external timing line code is selected.
Example(s)	SENS:DATA:TEL:CODE AMI
	SENS:DATA:TEL:CODE?
	Returns: AMI
See Also	OUTPut:TELecom:CODE

:SENSe:DATA:TELecom:ELECtrical:PORT:FREQuency:NEGative?

Description	This query returns the RX maximum negative offset for electrical interfaces/signals.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > RX Frequency > Max Negative Offset (PPM)
Syntax	:SENSe:DATA:TELecom:ELECtrical:PORT:FREQuency:NEGative?
Response Syntax	<Noffset>
Response(s)	**Noffset**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the negative frequency of the input signal.
Example(s)	SENS:DATA:TEL:ELEC:PORT:FREQ:NEG?
See Also	SENSe:DATA:TELecom:OPTical:PORT:FREQuency:POSitive?

:SENSe:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet:VALue?

Description	This query returns the RX frequency offset value for electrical interfaces/signals.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > RX Frequency > Offset (PPM)
Syntax	:SENSe:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet:VALue?
Response Syntax	<Offset>
Response(s)	**Offset**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the frequency offset value for the receiver.
Example(s)	SENS:DATA:TEL:ELEC:PORT:FREQ:OFFS:VAL?
See Also	SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue?

:SENSe:DATA:TELecom:ELECtrical:PORT:FREQuency:POSitive?

Description	This query returns the maximum positive RX frequency offset for electrical interfaces/signals.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > RX Frequency > Max Positive Offset (PPM)
Syntax	:SENSe:DATA:TELecom:ELECtrical:PORT:FREQuency:POSitive?
Response Syntax	<Poffset>
Response(s)	**Poffset**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the positive frequency of the input signal.
Example(s)	SENS:DATA:TEL:ELEC:PORT:FREQ:POS?
See Also	SENSe:DATA:TELecom:OPTical:PORT:FREQuency:NEGative?

:SENSe:DATA:TELecom:ELECtrical:PORT:FREQuency?

Description	This query returns the RX frequency for electrical interfaces/signals.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > RX Frequency > Frequency (GHz)
Syntax	:SENSe:DATA:TELecom:ELECtrical:PORT:FREQuency?
Response Syntax	<Frequency>
Response(s)	**Frequency**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the frequency of the input signal for the receiver.
Example(s)	SENS:DATA:TEL:ELEC:PORT:FREQ?
See Also	SENSe:DATA:TELecom:OPTical:PORT:FREQuency:POSitive?

:SENSe:DATA:TELecom:ELECtrical:RX:AMPLitude:MAXimum?

Description	This query returns the value of optical lanes receiver power MAXimum.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface 40GE/100GE > Physical Interface > Max Amplitude(Vpp)
Syntax	:SENSe:DATA:TELecom:ELECtrical:RX:AMPLitude:MAXimum?
Response Syntax	<Maximum Amplitude>
Response(s)	**Maximum Amplitude**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the value of the maximum receiver power.
Example(s)	SENS:DATA:TEL:ELEC:RX:AMPL:MAX?
See Also	SENSe:DATA:TELecom:OPTical:RX:POWer:MINimum?

:SENSe:DATA:TELecom:ELECtrical:RX:AMPLitude:MINimum?

Description	This query returns the value of optical lanes receiver power Minimum.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface 40GE/100GE > Physical Interface > Min Amplitude(Vpp)
Syntax	:SENSe:DATA:TELecom:ELECtrical:RX:AMPLitude:MINimum?
Response Syntax	<Minimum Amplitude>
Response(s)	**Minimum Amplitude**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the value of the minimum receiver power.
Example(s)	SENS:DATA:TEL:ELEC:RX:AMPL:MIN?
See Also	SENSe:DATA:TELecom:OPTical:TX:POWer?

:SENSe:DATA:TELecom:ELECtrical:RX:AMPLitude?

Description	This query returns the value of the receiver power.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface 40GE/100GE > Physical Interface > RX Amplitude(Vpp)
Syntax	:SENSe:DATA:TELecom:ELECtrical:RX:AMPLitude?
Response Syntax	<Amplitude>
Response(s)	**Amplitude**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the value of the receiver Amplitude.
Example(s)	SENS:DATA:TEL:ELEC:RX:AMPL?
See Also	SENSe:DATA:TELecom:OPTical:TX:POWer?

:SENSe:DATA:TELecom:ELECtrical:RX:POWer:MAXimum?

Description	This query returns the value of optical lanes receiver power MAXimum.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface 40GE/100GE > Physical Interface > Max RX Power (dBm)
Syntax	:SENSe:DATA:TELecom:ELECtrical:RX:POWer:MAXimum?
Response Syntax	<Maximum Power>
Response(s)	**Maximum Power**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the value of the maximum receiver power.
Example(s)	SENS:DATA:TEL:ELEC:RX:POW:MAX?
See Also	SENSe:DATA:TELecom:OPTical:RX:POWer:MINimum?

:SENSe:DATA:TELecom:ELECtrical:RX:POWer:MINimum?

Description	This query returns the value of optical lanes receiver power Minimum.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface 40GE/100GE > Physical Interface > Min RX Power (dBm)
Syntax	:SENSe:DATA:TELecom:ELECtrical:RX:POWer:MINimum?
Response Syntax	<Minimum Power>
Response(s)	**Minimum Power**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the value of the minimum receiver power.
Example(s)	SENS:DATA:TEL:ELEC:RX:POW:MIN?
See Also	SENSe:DATA:TELecom:OPTical:TX:POWer?

:SENSe:DATA:TELecom:ELECtrical:RX:POWer?

Description	This query returns the value of the receiver power.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface 40GE/100GE > Physical Interface > RX Power (dBm)
Syntax	:SENSe:DATA:TELecom:ELECtrical:RX:POWer?
Response Syntax	<Power>
Response(s)	**Power**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the value of the receiver power.
Example(s)	SENS:DATA:TEL:ELEC:RX:POW?
See Also	SENSe:DATA:TELecom:OPTical:TX:POWer?

:SENSe:DATA:TELecom:LOFF

Description	This command enables Laser OFF at Start-UP.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Interface > Physical Interface > Laser OFF at Start-Up
Syntax	:SENSe:DATA:TELecom:LOFF <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the state of the Laser at startup.
	ON: Enabled
	OFF: Disabled
Response Syntax	<Power>
Example(s)	SENS:DATA:TEL:LOFF ON
	SENS:DATA:TEL:LOFF?
	Returns: 1
See Also	SENSe:DATA:TELecom:LOFF
	SENSe:DATA:TELecom:LOFF?
	SOURce:DATA:TELecom:OPTical:ALARm:PORT:LANE

:SENSe:DATA:TELecom:LOFF?

Description	This query returns the status of Laser OFF at Start-UP.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Interface > Physical Interface > Laser OFF at Start-Up
Syntax	:SENSe:DATA:TELecom:LOFF?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the laser Off at Startup.
	1, laser is enabled.
	0, laser is disabled.
Example(s)	SENS:DATA:TEL:LOFF ON
	SENS:DATA:TEL:LOFF?
	Returns: 1
See Also	SENSe:DATA:TELecom:LOFF
	SENSe:DATA:TELecom:LOFF?
	SOURce:DATA:TELecom:OPTical:ALARm:PORT:LANE

:SENSe:DATA:TELecom:OPTical:LASer:WAVelength?

Description	This query returns the detected laser wavelength.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > Physical Interface > Wavelength (nm)
Syntax	:SENSe:DATA:TELecom:OPTical:LASer:WAVelength?
Response Syntax	<Wavelength>
Response(s)	**Wavelength**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the detected lane/laser wavelength.
Example(s)	SENS:DATA:TEL:OPT:LAS:WAV?
See Also	SENSe:DATA:TELecom:OPTical:SFP:Wavelength?

:SENSe:DATA:TELecom:OPTical:POWer:RANGe?

Description	This query returns the range between the minimum and maximum power range.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface 40GE/100GE > Physical Interface > Power Range (dBm)
Syntax	:SENSe:DATA:TELecom:OPTical:POWer:RANGe?[<wsp><Lane>]
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
Response Syntax	<Power range>
Response(s)	**Power range**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the range between the minimum and maximum power range.
Example(s)	SENS:DATA:TEL:OPT:POW:RANG? 1
See Also	SENSe:DATA:TELecom:OPTical:RX:POWer?

:SENSe:DATA:TELecom:OPTical:RX:POWer:MAXimum?

Description	This query returns the value of optical lanes receiver power maximum.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface 40GE/100GE > Physical Interface > Max RX Power (dBm)
Syntax	:SENSe:DATA:TELecom:OPTical:RX:POWer:MAXimum?[<wsp><Lane>]
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the lane number.
Response Syntax	<Maximum Power>
Response(s)	**Maximum Power**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the value of the maximum receiver power.
Example(s)	SENS:DATA:TEL:OPT:RX:POW:MAX? 1
See Also	SENSe:DATA:TELecom:OPTical:RX:POWer:MINimum?

:SENSe:DATA:TELecom:OPTical:RX:POWer:MINimum?

Description	This query returns the value of optical lanes receiver power minimum.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface 40GE/100GE > Physical Interface > Min RX Power (dBm)
Syntax	:SENSe:DATA:TELecom:OPTical:RX:POWer:MINimum?[<wsp><Lane>]
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the lane number.
Response Syntax	<Minimum Power>
Response(s)	**Minimum Power**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the value of the minimum receiver power.
Example(s)	SENS:DATA:TEL:OPT:RX:POW:MIN? 1
See Also	SENSe:DATA:TELecom:OPTical:TX:POWer?

:SENSe:DATA:TELecom:OPTical:RX:POWer?

Description	This query returns the value of the receiver power.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface 40GE/100GE > Physical Interface > RX Power (dBm)
Syntax	:SENSe:DATA:TELecom:OPTical:RX:POWer?[<wsp><Lane>]
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the lane number.
Response Syntax	<Power>
Response(s)	**Power**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the value of the receiver power.
Example(s)	SENS:DATA:TEL:OPT:RX:POW? 1
See Also	SENSe:DATA:TELecom:OPTical:TX:POWer?

:SENSe:DATA:TELecom:OPTical:TX:POWer?

Description	This query returns the value of the transmitter power.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface 40GE/100GE > Physical Interface > TX Power (dBm)
Syntax	:SENSe:DATA:TELecom:OPTical:TX:POWer?[<wsp><Lane>]
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
Response Syntax	<Power>
Response(s)	**Power**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the value of the transmitter power.
Example(s)	SENS:DATA:TEL:OPT:TX:POW? 1
See Also	SENSe:DATA:TELecom:OPTical:RX:POWer?

:SENSe:DATA:TELecom:OPTical:WAVelength?

Description	This query returns the detected lane wavelength.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface 40GE/100GE > Physical Interface > Wavelength (nm)
Syntax	:SENSe:DATA:TELecom:OPTical:WAVelength? <wsp><Lane>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
Response Syntax	<Wavelength>
Response(s)	**Wavelength**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the detected lane wavelength.
Example(s)	SENS:DATA:TEL:OPT:WAV? 1
See Also	SENSe:DATA:TELecom:OPTical:RX:POWer?

:SENSe:DATA:TELecom:TERMination

Description	This command sets the RX Termination.
	At *RST condition, this value is set to TERM.
	Navigation Path: Setup > TestConfigurator > Physical Interface (DSn/PDH) > RX Termination
Syntax	:SENSe:DATA:TELecom:TERMination <wsp><TopologyType>
Parameter(s)	**TopologyType**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the termination
	BRIDge: Bridge
	MONitor: Monitor
	TERMinal: Terminal
Response Syntax	<Wavelength>
Example(s)	SENS:DATA:TEL:TERM TERMINAL

:SENSe:DATA:TELecom:TERMination?

Description	This query returns the Termination. At *RST condition, this value is set to TERM. Navigation Path: Setup > TestConfigurator > Physical Interface (DSn/PDH) > RX Termination
Syntax	:SENSe:DATA:TELecom:TERMination?
Response Syntax	<Termination>
Response(s)	**Termination**: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the termination BRID: Bridge MON: Monitor TERM: Terminal
Example(s)	SENS:DATA:TEL:TERM TERMINAL SENS:DATA:TEL:TERM? Returns: TERMINAL

:SOURce:DATA:TELecom:CODE

Description	This command sets the interface line coding for the input port.
	At *RST condition, this value is set to B8ZS.
	Navigation Path: Setup > TestConfigurator > Interface DSn/PDH > Physical Interface > Line Coding
Syntax	:SOURce:DATA:TELecom:CODE <wsp><Code>
Parameter(s)	**Code**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the external timing line code.
	AMI
	B3ZS
	B8ZS
	CMI
	HDB3
Response Syntax	<Termination>
Example(s)	SOUR:DATA:TEL:CODE AMI
See Also	OUTPut:TELecom:CODE?

:SOURce:DATA:TELecom:CODE?

Description	This query returns the interface line coding for the input port.
	At *RST condition, this value is set to B8ZS.
	Navigation Path: Setup > DSn/PDH BERT > Test Configurator > Modify Structure > Topology(Decoupled) > Setup > TX > Physical Interface > Line Coding
Syntax	:SOURce:DATA:TELecom:CODE?
Response Syntax	<Code>
Response(s)	**Code**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the external timing line code.
	B8ZS, B8ZS external timing line code is selected.
	HDB3, HDB3 external timing line code is selected.
	AMI, AMI external timing line code is selected.
Example(s)	SOUR:DATA:TEL:CODE AMI
	SOUR:DATA:TEL:CODE?
	Returns: AMI
See Also	OUTPut:TELecom:CODE

:SOURce:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet

Description	This command enables the TX frequency offset for electrical interfaces/signals.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Interface > TX Frequency > Offset
Syntax	:SOURce:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet <wsp><Set>
Parameter(s)	Set:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the frequency offset generation.
	ON: Enabled
	OFF: Disabled
Response Syntax	<Code>
Example(s)	SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS ON
	SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS?
	Returns: 1
See Also	SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue?

:SOURce:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet: VALue

Description	This command sets the TX frequency offset value for electrical interfaces/signals.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > Interface > Frequency > Offset (PPM)
Syntax	:SOURce:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet:VALue <wsp><Value>
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the offset value between the standard rate specification and the rate of input signal for the transmitter of the optical port.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Code>
Example(s)	SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS:VAL 15
	SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS:VAL?
	Returns: 15
See Also	SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue?
	SENSe:DATA:TELecom:OPTical:PORT:FREQuency?

:SOURce:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet:VALue?

Description	This query returns the TX frequency offset value for electrical interfaces/signals.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > Interface > Frequency > Offset (PPM)
Syntax	:SOURce:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet:VALue?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Returns the offset value between the standard rate specification and the rate of input signal of the optical port.
	This parameter is optional. If no token is specified, the current frequency offset value is returned.
	MAXimum: Biggest value
	MINimum: Smallest value
	DEFault: Default value
Response Syntax	<Offset>
Response(s)	**Offset**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the offset value between the standard rate specification and the rate of input signal.
Example(s)	SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS:VAL 15
	SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS:VAL?
	Returns: 15
See Also	SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue

:SOURce:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet?

Description	This query returns the TX frequency offset for electrical interfaces/signals.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Interface > TX Frequency > Offset
Syntax	:SOURce:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet?
Response Syntax	<Offset>
Response(s)	**Offset**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the frequency offset generation status.
	1, Frequency offset generation of electrical port is enabled.
	0, Frequency offset generation of electrical port is disabled.
Example(s)	SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS ON
	SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS?
	Returns: 1
See Also	SOURce:DATA:TELecom:OPTical:PORT:FREQuency?

:SOURce:DATA:TELecom:ELECtrical:PORT:FREQuency?

Description	This query returns the signal TX frequency for electrical interfaces/signals.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > TX frequency > Frequency
Syntax	:SOURce:DATA:TELecom:ELECtrical:PORT:FREQuency?
Response Syntax	<Frequency>
Response(s)	**Frequency**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the input signal frequency for the electrical port transmitter.
Example(s)	SOUR:DATA:TEL:ELEC:PORT:FREQ?
See Also	SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue

:SOURce:DATA:TELecom:LBO

Description	This command sets the value for the Line Build Out interface.
	At *RST condition, this value is set to DSX133.
	Navigation Path: Setup > TestConfigurator > Interface DSn/PDH > Physical Interface > LBO
Syntax	:SOURce:DATA:TELecom:LBO <wsp><Lbo>
Parameter(s)	**Lbo**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the value for the Line Build Out interface.
	DSX655
	DSX533
	DSX399
	DSX266
	DSX133
	LBO225TO450
	LBO0TO225
	LBOCABLESIM900
	LBO0
	LBONEG7DOT5
	LBONEG12
	LBONEG15
	LBONEG22DOT5
Response Syntax	<Frequency>
Example(s)	SOUR:DATA:TEL:LBO DSX266
See Also	INPut:TELecom:LEVel

:SOURce:DATA:TELecom:LBO?

Description	This query returns the value for the Line Build Out interface.
	At *RST condition, this value is set to DSX133.
	Navigation Path: Setup > TestConfigurator > Interface DSn/PDH > Physical Interface > LBO
Syntax	:SOURce:DATA:TELecom:LBO?
Response Syntax	<Clock>
Response(s)	**Clock**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the value for the Line Build Out interface.
	DSX655, Returns the value as DSX655.
	DSX533, Returns the value as DSX533.
	DSX399, Returns the value as DSX399.
	DSX266, Returns the value as DSX266.
	DSX133, Returns the value as DSX133.
	Lbo225To450, Returns the value as Lbo225To450,
	Lbo0To225, Returns the value as Lbo0To225,
	LboCableSim900, Returns the value as LboCableSim900,
	LBO0, Returns the value as LBO0,
	LBONEG7DOT5, Returns the value as LBONEG7DOT5,
	LBONEG12, Returns the value as LBONEG12,
	LBONEG15, Returns the value as LBONEG15,
	LBONEG22DOT5, Returns the value as LBONEG22DOT5.
Example(s)	SOUR:DATA:TEL:LBO DSX266
	SOUR:DATA:TEL:LBO?
	Returns: DSX266
See Also	INPut:TELecom:LEVel?

:SOURce:DATA:TELecom:OTN:BTRaffic:PT[1..n]

Description	This command sets the background traffic for the instrument.
	At *RST condition, this value is set to PRBS31.
	Navigation Path: Setup > Test Configurator > Signal > Signal Configuration > Background Traffic (Mux Type PT20/Mux Type PT21)
Syntax	:SOURce:DATA:TELecom:OTN:BTRaffic:PT[1..n] <wsp><Traffic>
Parameter(s)	**Traffic**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the value of the background traffic.
	AIS
	NCLient, NULL Client
	PRBS31
	UNALlocated
Response Syntax	<Clock>
Example(s)	SOUR:DATA:TEL:OTN:BTR:PT21 PRBS31
	SOUR:DATA:TEL:OTN:BTR:PT21?
	Returns: PRBS31
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:FEC?

:SOURce:DATA:TELecom:OTN:BTRaffic:PT[1..n]?

Description	This query returns the background traffic for the instrument.
	At *RST condition, this value is set to PRBS31.
	Navigation Path: Setup > Test Configurator > Signal > Signal Configuration > Background Traffic (Mux Type PT20/Mux Type PT21)
Syntax	:SOURce:DATA:TELecom:OTN:BTRaffic:PT[1..n]?
Response Syntax	<Traffic>
Response(s)	**Traffic**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the value of the background traffic.
	AIS
	NCLient, NULL Client
	PRBS31
	UNALlocated
Example(s)	SOUR:DATA:TEL:OTN:BTR:PT20 PRBS31
	SOUR:DATA:TEL:OTN:BTR:PT20?
	Returns: PRBS31
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:FEC

:SOURce:DATA:TELecom:OTN:FEC

Description	This command enables/disables the FEC for the Transmitter (TX) mode.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > OTU > Signal > Signal Configuration > OTU > FEC
Syntax	:SOURce:DATA:TELecom:OTN:FEC <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Traffic>
Example(s)	SOUR:DATA:TEL:OTN:FEC ON
	SOUR:DATA:TEL:OTN:FEC?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:SCRambler

:SOURce:DATA:TELecom:OTN:FEC:FCA

Description	This command enables/disables the FEC-CORR Alarming.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > OTU > Signal > Signal Configuration > FEC-CORR Alarming
Syntax	:SOURce:DATA:TELecom:OTN:FEC:FCA <wsp><Enable>
Parameter(s)	**Enable**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables the Forward Error Correction (FEC) correctable alarming.
	ON, sets the FEC correctable alarming to ON.
	OFF, sets the FEC correctable alarming to OFF.
Response Syntax	<Traffic>
Example(s)	SOUR:DATA:TEL:OTN:FEC:FCA ON
	SOUR:DATA:TEL:OTN:FEC:FCA?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:FEC

:SOURce:DATA:TELecom:OTN:FEC:FCA?

Description	This query returns the enable/disable status of FEC-CORR Alarming.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > OTU > Signal > Signal Configuration > FEC-CORR Alarming
Syntax	:SOURce:DATA:TELecom:OTN:FEC:FCA?
Response Syntax	<FecCorrectableAlarmingStatus>
Response(s)	**FecCorrectableAlarmingStatus**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the Forward Error Correction (FEC) Correctable Alarming.
	1, FEC correctable alarming is enabled.
	0, FEC correctable alarming is disabled.
Example(s)	SOUR:DATA:TEL:OTN:FEC:FCA ON
	SOUR:DATA:TEL:OTN:FEC:FCA?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:FEC

:SOURce:DATA:TELecom:OTN:FEC?

Description	This query returns the enable/disable status of FEC for the Transmitter (TX) mode.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > OTU > Signal > Signal Configuration > OTU > FEC
Syntax	:SOURce:DATA:TELecom:OTN:FEC?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the Forward Error Correction (FEC) for the Transmitter (TX) mode.
	1, FEC for TX mode is enabled.
	0, FEC for TX mode is disabled.
Example(s)	SOUR:DATA:TEL:OTN:FEC ON
	SOUR:DATA:TEL:OTN:FEC?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:SCRambler?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SCRambler

Description	This command enables/disables the scrambler for overclocked rates OTU3e1/2 of the transmitter.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > Signal > Signal Configuration > OTU3e(1/2) > Scrambler
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SCRambler <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:OTU3:E1:SCR ON
	SOUR:DATA:TEL:OTN:OTU3:E1:SCR?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:FEC?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SCRambler?

Description	This query returns the status of scrambler for overclocked rates OTU3e1/2 of the transmitter.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > Signal > Signal Configuration > OTU3e(1/2) > Scrambler
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SCRambler?
Response Syntax	\<Set\>
Response(s)	Set:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA\> element.
	Returns the status of the scrambler for the transmitter.
	1, returns the scrambler as ON.
	0, returns the scrambler as OFF.
Example(s)	SOUR:DATA:TEL:OTN:OTU3:E1:SCR ON
	SOUR:DATA:TEL:OTN:OTU3:E1:SCR?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:FEC

:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SCRambler

Description	This command enables/disables the scrambler for non-standard rates OTU1/2 f of the receiver.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > Signal > Signal Configuration > Scrambler
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SCRambler <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:OTU1:F:SCR ON
	SOUR:DATA:TEL:OTN:OTU1:F:SCR?
	Returns: 1
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E:SCRambler?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SCRambler?

Description	This query returns the status of the scrambler for non-standard rates OTU1e/2e of the receiver.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > Signal > Signal Configuration > Scrambler
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SCRambler?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the scrambler for the receiver.
	0, status of the scrambler for the receiver is disabled.
	1, status of the scrambler for the receiver is enabled.
Example(s)	SOUR:DATA:TEL:OTN:OTU1:F:SCR ON
	SOUR:DATA:TEL:OTN:OTU1:F:SCR?
	Returns: 1
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E:SCRambler

:SOURce:DATA:TELecom:OTN:OTU[1..n]:SCRambler

Description	This command enables/disables the scrambler for the Transmitter (TX) mode.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > Signal > Signal Configuration > OTU > Scrambler
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:SCRambler <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:OTU1:SCR ON
	SOUR:DATA:TEL:OTN:OTU1:SCR?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:FEC

:SOURce:DATA:TELecom:OTN:OTU[1..n]:SCRambler?

Description	This query returns the status of scrambler for the Transmit (TX) mode.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > Signal > Signal Configuration > OTU > Scrambler
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:SCRambler?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the scrambler for the Transmitter (TX) mode.
	1, scrambler for TX mode is enabled.
	0, scrambler for TX mode is disabled.
Example(s)	SOUR:DATA:TEL:OTN:OTU3:SCR ON
	SOUR:DATA:TEL:OTN:OTU3:SCR?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:FEC?

Frequency

:FETCh:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet?

Description	This Query returns the live TX current frequency offset.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface Block > Frequency - Offset - Sweep
Syntax	:FETCh:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet?
Response Syntax	<Current Offset>
Response(s)	**Current Offset**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns live TX current frequency offset.
Example(s)	FETC:DATA:TEL:OPT:PORT:FREQ:OFFS?
See Also	FETCh:DATA:TELecom:SDHSonet:LOP:POINter:OFFSet?

:SENSe:DATA:TELecom:OPTical:PORT:FREQuency:NEGative?

Description	This query returns the maximum negative RX frequency offset for optical interfaces/signals.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Frequency > RX Frequency > Max Negative Offset (PPM)
Syntax	:SENSe:DATA:TELecom:OPTical:PORT:FREQuency:NEGative?[<wsp><Lane>]
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
Response Syntax	<Noffset>
Response(s)	**Noffset**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the negative frequency of the input signal.
Example(s)	SENS:DATA:TEL:OPT:PORT:FREQ:NEG? 0
See Also	SENSe:DATA:TELecom:OPTical:PORT:FREQuency:POSitive?

:SENSe:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue?

Description	This query returns the RX frequency offset value for optical interfaces/signals.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Frequency > RX Frequency > Offset (PPM)
Syntax	:SENSe:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue?[<wsp><Lane>]
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
Response Syntax	<Offset>
Response(s)	**Offset**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the frequency offset value for the receiver.
Example(s)	SENS:DATA:TEL:OPT:PORT:FREQ:OFFS:VAL?
See Also	SENSe:DATA:TELecom:OPTical:TX:POWer?

:SENSe:DATA:TELecom:OPTical:PORT:FREQuency:POSitive?

Description	This query returns the maximum positive RX frequency offset for optical interfaces/signals. At *RST condition, this value is set to device-dependent. Navigation Path: Setup > Test Configurator > Interface/Frequency > RX Frequency > Max Positive Offset (PPM)
Syntax	:SENSe:DATA:TELecom:OPTical:PORT:FREQuency:POSitive?[<wsp><Lane>]
Parameter(s)	**Lane**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number.
Response Syntax	<Poffset>
Response(s)	**Poffset**: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the positive frequency of the input signal.
Example(s)	SENS:DATA:TEL:OPT:PORT:FREQ:POS? 0
See Also	SENSe:DATA:TELecom:OPTical:PORT:FREQuency:NEGative?

:SENSe:DATA:TELecom:OPTical:PORT:FREQuency?

Description	This query returns the RX frequency for optical interfaces/signals.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Frequency > RX Frequency > Frequency (GHz)
Syntax	:SENSe:DATA:TELecom:OPTical:PORT:FREQuency?[<wsp><Lane>]
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
Response Syntax	<Frequency>
Response(s)	**Frequency**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the frequency of the input signal for the receiver.
Example(s)	SENS:DATA:TEL:OPT:PORT:FREQ? 0
See Also	SENSe:DATA:TELecom:OPTical:PORT:FREQuency:POSitive?

:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet

Description	This command enables the TX frequency offset for optical interfaces/signals.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Interface/Frequency > TX Frequency > Offset
Syntax	:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Frequency>
Example(s)	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:VAL 15
	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS ON
	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS?
	Returns: 1
See Also	SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue?

:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:MAXimum

Description	This command sets the maximum TX frequency for Sweep offset. At *RST condition, this value is set to 100. Navigation Path: Setup > Test Configurator > Interface Block > Frequency - Offset Sweep > Range
Syntax	:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:MAXimum <wsp><Offset>
Parameter(s)	**Offset**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Set the maximum TX frequency offset. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Frequency>
Example(s)	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:MAX 20
See Also	SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:MINimum

:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:MAXimum?

Description	This query returns the maximum TX frequency for Sweep offset.
	At *RST condition, this value is set to 100.
	Navigation Path: Setup > Test Configurator > Interface Block > Frequency - Offset - Sweep > Range
Syntax	:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:MAXimum?[<wsp><Offset>]
Parameter(s)	**Offset**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Set the maximum TX frequency offset.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Offset>
Response(s)	**Offset**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the maximum TX frequency offset
Example(s)	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:MAX 20
	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:MAX?
	Returns: 20
See Also	SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:MINimum?

:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:METHod

Description	This command sets the TX frequency offset method.
	At *RST condition, this value is set to Fixed.
	Navigation Path: Setup > Test Configurator > Interface Block > Frequency - Offset - Fixed/Sweep
Syntax	:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:METHod <wsp><Method>
Parameter(s)	**Method**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of TX frequency offset method.
	FIXED
	SWEEP
Response Syntax	<Offset>
Example(s)	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:METH FIXED
See Also	:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet

:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:METHod?

Description	This query returns the TX Frequency Offset Method.
	At *RST condition, this value is set to Fixed.
	Navigation Path: Setup > Test Configurator > Interface Block >Frequency - Offset - Fixed/Sweep
Syntax	:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:METHod?
Response Syntax	<Method>
Response(s)	**Method**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the TX frequency offset method selected.
	FIXED
	SWEEP
Example(s)	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:METH FIXED
	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:METH?
	Returns: FIXED
See Also	:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet?

:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:MINimum

Description	This command sets the minimum TX frequency for Sweep offset.
	At *RST condition, this value is set to -100.
	Navigation Path: Setup > Test Configurator > Interface Block > Frequency - Offset - Sweep > Range
Syntax	:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:MINimum <wsp><Offset>
Parameter(s)	**Offset**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Set the minimum TX frequency offset.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Method>
Example(s)	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:MIN 20
See Also	SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:MAXimum

:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:MINimum?

Description	This query returns the minimum TX frequency for Sweep offset.
	At *RST condition, this value is set to -100.
	Navigation Path: Setup > Test Configurator > Interface Block > Frequency - Offset - Sweep > Range
Syntax	:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:MINimum?[<wsp><Offset>]
Parameter(s)	**Offset**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Returns the minimum TX frequency offset.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Offset>
Response(s)	**Offset**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the minimum TX frequency offset
Example(s)	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:MIN -20
	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:MIN?
	Returns: -20
See Also	SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:MAXimum?

:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue

Description	This command sets the TX frequency offset value for optical interfaces/signals.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > Interface/Frequency > Frequency > Offset (ppm)
Syntax	:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue <wsp><Value>
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the offset value between the standard rate specification and the rate of input signal.
	MAXimum: Biggest supported offset value
	MINimum: Smalllest supported offset value
Response Syntax	<Offset>
Example(s)	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:VAL 15
	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:VAL?
	Returns: 15
See Also	SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue?
	SENSe:DATA:TELecom:OPTical:PORT:FREQuency?

:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue?

Description	This query returns the TX frequency offset for optical interfaces/signals.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > Interface/Frequency > Frequency > Offset (PPM)
Syntax	:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue?[<wsp><Offset>]
Parameter(s)	**Offset**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Returns the offset value between the standard rate specification and the rate of input signal.
	This parameter is optional. If no token is specified, the current frequency offset value is returned.
	MAXimum: Biggest offset value
	MINimum: Smallest offset value
Response Syntax	<Offset>
Response(s)	**Offset**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the offset value between the standard rate specification and the rate of input signal.
Example(s)	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:VAL 15
	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:VAL?
	Returns: 15
See Also	SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue

:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet?

Description	This query returns the TX frequency offset status for optical interfaces/signals.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Interface/Frequency > TX Frequency > Offset
Syntax	:SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet?
Response Syntax	<Offset>
Response(s)	**Offset**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the frequency offset generation status.
Example(s)	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:VAL 15
	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS ON
	SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS?
	Returns: 1
See Also	SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue

:SOURce:DATA:TELecom:OPTical:PORT:FREQuency?

Description	This query returns the TX frequency for optical interfaces/signals.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Frequency > TX frequency
Syntax	:SOURce:DATA:TELecom:OPTical:PORT:FREQuency?
Response Syntax	<Frequency>
Response(s)	**Frequency**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the frequency of the input signal for the transmitter.
Example(s)	SOUR:DATA:TEL:OPT:PORT:FREQ?
See Also	SENSe:DATA:TELecom:OPTical:PORT:FREQuency?
	SOURce:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue

Traces (OTN)

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI: DAPI:EXPected

Description	This command sets the ODU1e/2e/3e1/3e2 TCM DAPI Expected Message.
	At *RST condition, this value is set to EXFO TCMn DAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > TCMn > DAPI - Expected Message
	Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > DAPI - Expected Message
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:EXPected <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the expected message.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:TIM DAPI,ON
	SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:DAPI:EXP EXFO TCM1 DAPI
	SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:DAPI:EXP?
	Returns: EXFO TCM1 DAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI: DAPI:EXPected?

Description	This quere retruns the ODU1e/2e/3e1/3e2 TCM DAPI Expected Message.
	At *RST condition, this value is set to EXFO TCMn DAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > TCMn > DAPI - Expected Message
	Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > DAPI - Expected Message
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:EXPected?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the expected message for the instrument.
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:TIM DAPI,ON
	SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:DAPI:EXP EXFO TCM1 DAPI
	SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:DAPI:EXP?
	Returns: EXFO TCM1 DAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:EXPected

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI: SAPI:EXPected

Description	This command sets the ODU1e/2e/3e1/3e2 TCM SAPI Expected Message.
	At *RST condition, this value is set to EXFO TCMn SAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > TCMn > SAPI - Expected Message
	Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > SAPI - Expected Message
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:EXPected <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the expected message.
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:SAPI:EXP EXFO TCM1 SAPI
	SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:SAPI:EXP?
	Returns: EXFO TCM1 SAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI: SAPI:EXPected?

Description	This query returns the ODU1e/2e/3e1/3e2 TCM SAPI Expected Message.
	At *RST condition, this value is set to EXFO TCMn SAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > TCMn > SAPI - Expected Message
	Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > SAPI - Expected Message
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:EXPected?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the expected message for the instrument.
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:SAPI:EXP EXFO TCM1 SAPI
	SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:SAPI:EXP?
	Returns: EXFO TCM1 SAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:EXPected

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI: TIM

Description	This command enables/disables the ODU1e/2e/3e1/3e2 SAPI/DAPI TCM Trace Identifier Mismatch (TIM). At *RST condition, this value is set to ON. Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > TCMn > SAPI/DAPI TCM-TIM Navigation Path: Results > Traces > OTN > ODUn > TCMn > SAPI/DAPI TCM-TIM NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:TIM <wsp><Etim>, <Set>
Parameter(s)	**Etim**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. enables/disables the TIM (Trace Identifier Mismatch). SAPI: the SAPI which allows editing of the SAPI (Source Access Point Identifier) message to be generated. DAPI: the DAPI which allows editing of the DAPI (Destination Access Point Identifier) message to be generated. **Set**: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the Trace Identifier Mismatch (TIM) ON, enables the Trace Identifier Mismatch (TIM). OFF, disables the Trace Identifier Mismatch (TIM).
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:TIM SAPI,ON SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:TIM? SAPI Returns: 1
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:TIM?

Description	This query returns the state of the ODU3e1/e2 SAPI/DAPI TCM Trace Identifier Mismatch (TIM).
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > TCM > SAPI/DAPI TCM-TIM
	Navigation Path: Results > Traces > OTN > ODUn > TCM > SAPI/DAPI TCM-TIM
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:TIM? <wsp><Etim>
Parameter(s)	**Etim**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	enables/disables the TIM (Trace Identifier Mismatch).
	SAPI: the SAPI which allows editing of the SAPI (Source Access Point Identifier) message to be generated.
	DAPI: the DAPI which allows editing of the DAPI (Destination Access Point Identifier) message to be generated.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of Trace Identifier Mismatch (TIM).
	ON, enables the Trace Identifier Mismatch (TIM).
	OFF, disables the Trace Identifier Mismatch (TIM).
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:TIM? SAPI
	Returns: 1
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:EXPected

Description	This command sets the ODU1e/2e/3e1/3e2 PM DAPI expected message.
	At *RST condition, this value is set to EXFO ODU DAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > DAPI - Expected Message
	Navigation Path: Results > Traces > OTN > ODUn > DAPI - Expected Message
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:EXPected <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the expected message.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TTI:TIM DAPI,ON
	SENS:DATA:TEL:OTN:ODU3:E1:TTI:DAPI:EXP EXFO ODU DAPI
	SENS:DATA:TEL:OTN:ODU3:E1:TTI:DAPI:EXP?
	Returns: EXFO ODU DAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM
	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:EXPec ted?

Description	This query returns the ODU1e/2e/3e1/3e2 PM DAPI expected message.
	At *RST condition, this value is set to EXFO ODU DAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > DAPI - Expected Message
	Navigation Path: Results > Traces > OTN > ODUn > DAPI - Expected Message
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:EXPected?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the expected message for the instrument.
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TTI:TIM DAPI,ON
	SENS:DATA:TEL:OTN:ODU3:E1:TTI:DAPI:EXP EXFO ODU DAPI
	SENS:DATA:TEL:OTN:ODU3:E1:TTI:DAPI:EXP?
	Returns: EXFO ODU DAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM
	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXPected

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:EXPected

Description	This command sets the ODU1e/2e/3e1/3e2 PM SAPI expected message.
	At *RST condition, this value is set to EXFO ODU SAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > SAPI - Expected Message
	Navigation Path: Results > Traces > OTN > ODU3n > PM TTI Traces > SAPI - Expected Message
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:EXPected <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the expected message.
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU3:E1:TTI:SAPI:EXP EXFO ODU SAPI
	SENS:DATA:TEL:OTN:ODU3:E1:TTI:SAPI:EXP?
	Returns: EXFO ODU SAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM
	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:EXPected?

Description	This query returns the ODU1e/2e/3e1/3e2 PM SAPI expected message.
	At *RST condition, this value is set to EXFO ODU SAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > SAPI - Expected Message
	Navigation Path: Results > Traces > OTN > ODU3n > PM TTI Traces > SAPI - Expected Message
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:EXPected?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the expected message for the instrument.
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TTI:TIM SAPI, ON
	SENS:DATA:TEL:OTN:ODU3:E1:TTI:SAPI:EXP EXFO ODU SAPI
	SENS:DATA:TEL:OTN:ODU3:E1:TTI:SAPI:EXP?
	Returns: EXFO ODU SAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM
	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:EXPected

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:TIM

Description	This command enables/disables the ODU3e1/e2 SAPI/DAPI Trace Identifier Mismatch (TIM).
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > ODU3e1/e2 > PM TTI Traces > SAPI/DAPI ODU-TIM
	Navigation Path: Results > Traces > OTN > ODU3e1/e2 > PM TTI Traces > SAPI/DAPI ODU-TIM
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:TIM <wsp><Etim>, <Set>
Parameter(s)	**Etim**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	enables/disables the TIM (Trace Identifier Mismatch).
	SAPI: the SAPI which allows editing of the SAPI (Source Access Point Identifier) message to be generated.
	DAPI: the DAPI which allows editing of the DAPI (Destination Access Point Identifier) message to be generated.
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the Trace Identifier Mismatch (TIM)
	ON, enables the Trace Identifier Mismatch (TIM).
	OFF, disables the Trace Identifier Mismatch (TIM).
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU3:E1:TTI:TIM? SAPI
	Returns: 1
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:TIM?

Description	This query returns the state of the ODU3e1/e2 SAPI/DAPI Trace Identifier Mismatch (TIM).
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > ODU3e1/e2 > PM TTI Traces > SAPI/DAPI ODU-TIM
	Navigation Path: Results > Traces > OTN > ODU3e1/e2 > PM TTI Traces > SAPI/DAPI ODU-TIM
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:TIM? <wsp><Etim>
Parameter(s)	**Etim**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	enables/disables the TIM (Trace Identifier Mismatch).
	SAPI: the SAPI which allows editing of the SAPI (Source Access Point Identifier) message to be generated.
	DAPI: the DAPI which allows editing of the DAPI (Destination Access Point Identifier) message to be generated.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of Trace Identifier Mismatch (TIM).
	ON, enables the Trace Identifier Mismatch (TIM).
	OFF, disables the Trace Identifier Mismatch (TIM).
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU3:E1:TTI:TIM? SAPI
	Returns: 1
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI: EXPected

Description	This command sets the ODU1f/2f TCM DAPI expected message.
	At *RST condition, this value is set to EXFO TCMn DAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > TCM > DAPI - Expected Message
	Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > DAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI:EXPected <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the expected message.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:TIM DAPI,ON
	SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:DAPI:EXP EXFO TCM1 DAPI
	SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:DAPI:EXP?
	Returns: EXFO TCM1 DAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI: EXPected?

Description	This query returns the ODU1f/2f TCM DAPI expected message.
	At *RST condition, this value is set to EXFO TCMn DAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > TCM > DAPI - Expected Message
	Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > DAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI:EXPected?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the expected message for the instrument.
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:TIM DAPI,ON
	SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:DAPI:EXP EXFO TCM1 DAPI
	SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:DAPI:EXP?
	Returns: EXFO TCM1 DAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:EXPected

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:EXPected

Description	This command sets the ODU1f/2f TCM SAPI expected message.
	At *RST condition, this value is set to EXFO TCMn SAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > TCM > SAPI - Expected Message
	Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > SAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:EXPected <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the expected message.
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:SAPI:EXP EXFO TCM1 SAPI
	SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:SAPI:EXP?
	Returns: EXFO TCM1 SAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:EXPected?

Description	This query returns the ODU1f/2f TCM SAPI expected message.
	At *RST condition, this value is set to EXFO TCMn SAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > TCM > SAPI - Expected Message
	Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > SAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:EXPected?
Response Syntax	\<Message\>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a \<STRING RESPONSE DATA\> element.
	Returns the expected message.
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:SAPI:EXP EXFO TCM1 SAPI
	SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:SAPI:EXP?
	Returns: EXFO TCM1 SAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:EXPected

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:TIM

Description	This command enables/disables the ODU1f/2f SAPI/DAPI TCM Trace Identifier Mismatch (TIM).
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > TCM > SAPI/DAPI TCM-TIM
	Navigation Path: Results > Traces > OTN > ODUn > TCM > SAPI/DAPI TCM-TIM
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:TIM <wsp><Etim>, <Set>
Parameter(s)	**Etim**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	enables/disables the TIM (Trace Identifier Mismatch).
	SAPI: the SAPI which allows editing of the SAPI (Source Access Point Identifier) message to be generated.
	DAPI: the DAPI which allows editing of the DAPI (Destination Access Point Identifier) message to be generated.
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the Trace Identifier Mismatch (TIM)
	ON, enables the Trace Identifier Mismatch (TIM).
	OFF, disables the Trace Identifier Mismatch (TIM).
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:TIM? SAPI
	Returns: 1
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:TIM?

Description	This query returns the state of the ODU1f/2f SAPI/DAPI TCM Trace Identifier Mismatch (TIM).
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > TCM > SAPI/DAPI TCM-TIM
	Navigation Path: Results > Traces > OTN > ODUn > TCM > SAPI/DAPI TCM-TIM
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:TIM? <wsp><Etim>
Parameter(s)	**Etim**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Enables/disables the TIM (Trace Identifier Mismatch).
	SAPI: the SAPI which allows editing of the SAPI (Source Access Point Identifier) message to be generated.
	DAPI: the DAPI which allows editing of the DAPI (Destination Access Point Identifier) message to be generated.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of Trace Identifier Mismatch (TIM).
	ON, enables the Trace Identifier Mismatch (TIM).
	OFF, disables the Trace Identifier Mismatch (TIM).
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:TIM? SAPI
	Returns: 1
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:DAPI:EXPected

Description	This command sets the ODU1f/2f PM DAPI expected message.
	At *RST condition, this value is set to EXFO ODU DAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > DAPI - Expected Message
	Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > DAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:DAPI:EXPected <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the expected message.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TTI:TIM DAPI,ON
	SENS:DATA:TEL:OTN:ODU1:F:TTI:DAPI:EXP EXFO ODU DAPI
	SENS:DATA:TEL:OTN:ODU1:F:TTI:DAPI:EXP?
	Returns: EXFO ODU DAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM
	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:DAPI:EXPected?

Description	This query returns the ODU1f/2f PM DAPI expected message.
	At *RST condition, this value is set to EXFO ODU DAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > DAPI - Expected Message
	Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > DAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:DAPI:EXPected?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the expected message.
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TTI:TIM DAPI,ON
	SENS:DATA:TEL:OTN:ODU1:F:TTI:DAPI:EXP EXFO ODU DAPI
	SENS:DATA:TEL:OTN:ODU1:F:TTI:DAPI:EXP?
	Returns: EXFO ODU DAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM
	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXPected

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:SAPI:EXPected

Description	This command sets the ODU1f/2f PM SAPI expected message.
	At *RST condition, this value is set to EXFO ODU SAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > SAPI - Expected Message
	Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > SAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:SAPI:EXPected <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the expected message.
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU1:F:TTI:SAPI:EXP EXFO ODU SAPI
	SENS:DATA:TEL:OTN:ODU1:F:TTI:SAPI:EXP?
	Returns: EXFO ODU SAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM
	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:SAPI:EXPected?

Description	This query returns the ODU1f/2f PM SAPI expected message.
	At *RST condition, this value is set to EXFO ODU SAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > SAPI - Expected Message
	Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > SAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:SAPI:EXPected?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the expected message for the instrument.
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU1:F:TTI:SAPI:EXP EXFO ODU SAPI
	SENS:DATA:TEL:OTN:ODU1:F:TTI:SAPI:EXP?
	Returns: EXFO ODU SAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM
	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:EXPected

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:TIM

Description	This command enables/disables the ODU1f/2f SAPI/DAPI PM Trace Identifier Mismatch (TIM).
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > SAPI/DAPI TCM-TIM
	Navigation Path: Results > Traces > OTN > ODU1 > PM TTI Traces > SAPI/DAPI ODU-TIM
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:TIM <wsp><TIM>, <Set>
Parameter(s)	**TIM**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Enables/disables ODU-TIM for either:
	SAPI
	DAPI
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables the Trace Identifier Mismatch (TIM)
	ON, enables the Trace Identifier Mismatch (TIM).
	OFF, disables the Trace Identifier Mismatch (TIM).
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU1:F:TTI:TIM? SAPI
	Returns: 1
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:TIM?

Description	This query returns the enable/disable status of the ODU1f/2f SAPI/DAPI PM Trace Identifier Mismatch (TIM).
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > SAPI/DAPI TCM-TIM
	Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > SAPI/DAPI ODU-TIM
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:TIM? <wsp><TIM>
Parameter(s)	**TIM**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sellects the TIM (Trace Identifier Mismatch).
	SAPI
	DAPI
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of Trace Identifier Mismatch (TIM).
	ON: enabled.
	OFF: disabled.
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU1:F:TTI:TIM? SAPI
	Returns: 1
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:EXPected

Description	This command sets the ODU TCM DAPI expected message.
	At *RST condition, this value is set to EXFO TCM DAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > TCMn > DAPI - Expected Message
	Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > DAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:EXPected <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the expected message.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:OTN:ODU3:TCM1:TTI:DAPI:EXP EXFO TCM1 DAPI
	SENS:DATA:TEL:OTN:ODU3:TCM1:TTI:DAPI:EXP?
	Returns: EXFO TCM1 DAPI
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:EXPected
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:EXPected?

Description	This query returns the ODU TCM DAPI expected message.
	At *RST condition, this value is set to EXFO TCM DAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > TCMn > DAPI - Expected Message
	Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > DAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:EXPected?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the expected message for the instrument.
Example(s)	SENS:DATA:TEL:OTN:ODU3:TCM1:TTI:DAPI:EXP EXFO TCM1 DAPI
	SENS:DATA:TEL:OTN:ODU3:TCM1:TTI:DAPI:EXP?
	Returns: EXFO TCM1 DAPI
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:EXPected
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:EXPected

Description	This command sets the ODUn TCM SAPI expected message.
	At *RST condition, this value is set to EXFO TCM SAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > TCMn > SAPI - Expected Message
	Navigation Path: Results > Traces > OTUn > ODUn > OTUn TCM TTI Traces > TCMn > SAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:EXPected <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the expected message.
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU3:TCM1:TTI:SAPI:EXP EXFO TCM1 SAPI
	SENS:DATA:TEL:OTN:ODU3:TCM1:TTI:SAPI:EXP?
	Returns: EXFO TCM1 SAPI
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:EXPected
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:EXPected?

Description	This query returns the ODUn TCM SAPI expected message.
	At *RST condition, this value is set to EXFO TCMn SAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > TCMn > SAPI - Expected Message
	Navigation Path: Results > Traces > OTUn > ODUn > OTUn TCM TTI Traces > TCMn > SAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:EXPected?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the expected message for the instrument.
Example(s)	SENS:DATA:TEL:OTN:ODU3:TCM1:TTI:SAPI:EXP EXFO TCM1 SAPI
	SENS:DATA:TEL:OTN:ODU3:TCM1:TTI:SAPI:EXP?
	Returns: EXFO TCM1 SAPI
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:EXPected
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:EXPected?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:TIM

Description	This command enables/disables the ODU SAPI/DAPI TCM Trace Identifier Mismatch (TIM).
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU > Traces > ODU > TCM > SAPI/DAPI TCM-TIM
	Navigation Path: Results > Traces > OTN > ODU > TCM > SAPI/DAPI TCM-TIM
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:TIM <wsp><Etim>, <Set>
Parameter(s)	**Etim**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	enables/disables the TIM (Trace Identifier Mismatch) for ODU TCM TTI.
	SAPI: the SAPI which allows editing of the SAPI (Source Access Point Identifier) message to be generated.
	DAPI: the DAPI which allows editing of the DAPI (Destination Access Point Identifier) message to be generated.
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the Trace Identifier Mismatch (TIM).
	ON, enables the Trace Identifier Mismatch (TIM).
	OFF, disables the Trace Identifier Mismatch (TIM).
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU3:TCM1:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU3:TCM1:TTI:TIM? SAPI
	Returns: 1
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIMer
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIMer?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:TIM?

Description	This query returns the state of the ODU SAPI/DAPI TCM Trace Identifier Mismatch (TIM).
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU > Traces > ODU > TCM > SAPI/DAPI TCM-TIM
	Navigation Path: Results > Traces > OTN > ODU > TCM > SAPI/DAPI TCM-TIM
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:TIM? <wsp><Etim>
Parameter(s)	**Etim**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the expected message.
	SAPI: the SAPI which allows editing of the SAPI (Source Access Point Identifier) message to be generated.
	DAPI: the DAPI which allows editing of the DAPI (Destination Access Point Identifier) message to be generated.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of Trace Identifier Mismatch (TIM).
	1, enables the status of TIM.
	0, disables the status of TIM.
Example(s)	SENS:DATA:TEL:OTN:ODU3:TCM1:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU3:TCM1:TTI:TIM? SAPI
	Returns: 1
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIMer
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIMer?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHAnnel

Description	This command forces the ODU TTI Traces commands/queries to be applied on all channels (ON) or a single channel (OFF) for Multi-Channel OTN test.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > ODU Channels > Traces > PM TTI Traces
	Navigation Path: Results > Traces > OTN > ODU > PM TTI Traces
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHAnnel <wsp><AllChannel>
Parameter(s)	**AllChannel**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Selects if the ODU TTI Traces commands/queries are applied on all channels (ON) or a single channel (OFF).
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:OTN:ODU100:TTI:ACHA ON
	SENS:DATA:TEL:OTN:ODU100:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP XFO ODU SAPI
	SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP?
	Returns: XFO ODU SAPI
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHAN
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHA?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHAnnel?

Description	This query returns if the ODU TTI Traces commands/queries are applied on all channels (ON) or a single channel (OFF) for Multi-Channel OTN test.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > ODU Channels > Traces > PM TTI Traces
	Navigation Path: Results > Traces > OTN > ODU > PM TTI Traces
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHAnnel?
Response Syntax	<AllChannel>
Response(s)	**AllChannel**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns an indication that the ODU TTI Traces commands/queries are to be applied on all channels.
	1, ODU TTI Trace commands/queries are applied on all channels.
	0, ODU TTI Trace commands/queries are applied on a specific channels determined by SENS:DATA:TEL:OTN:ODU[1..n]:TTI:CHAN.
Example(s)	SENS:DATA:TEL:OTN:ODU100:TTI:ACHA ON
	SENS:DATA:TEL:OTN:ODU100:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP XFO ODU SAPI
	SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP?
	Returns: XFO ODU SAPI
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHAN
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHA

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel

Description	This command sets the value of the channel used by the ODU TTI Traces for Multi-Channel OTN test.
	At *RST condition, this value is set to 1.
	When setting a channel value, the following command is set to OFF: SENSe[1..n]:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHAnnel
	Navigation Path: Setup > Test Configurator > ODU Channels > Traces > PM TTI Traces
	Navigation Path: Results > Traces > OTN > ODU > PM TTI Traces
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel <wsp><Channel>
Parameter(s)	**Channel**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the channel used for ODU TTI Traces, when AllCHAnnel is not selected, in the Multi-Channel OTN test application.
Response Syntax	<AllChannel>
Example(s)	SENS:DATA:TEL:OTN:ODU100:TTI:CHAN 3
	SENS:DATA:TEL:OTN:ODU100:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP XFO ODU SAPI3
	SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP?
	Returns: XFO ODU SAPI3
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHAN?
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHA

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel?

Description	This query returns the value of the channel used by the ODU TTI Traces for Multi-Channel OTN test.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > ODU Channels > Traces > PM TTI Traces
	Navigation Path: Results > Traces > OTN > ODU > PM TTI Traces
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel?
Response Syntax	\<Channel\>
Response(s)	**Channel**:
	The response data syntax for the first parameter is defined as a \<NR1 NUMERIC RESPONSE DATA\> element.
	Returns the channel used for the ODU TTI Trace, when AllCHAnnel is 'OFF', in the Multi-Channel OTN test application.
Example(s)	SENS:DATA:TEL:OTN:ODU100:TTI:CHAN 3
	SENS:DATA:TEL:OTN:ODU100:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP XFO ODU SAPI3
	SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP?
	Returns: XFO ODU SAPI3
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHAN
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHA

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPected

Description	This command sets the ODUn PM DAPI expected message.
	At *RST condition, this value is set to EXFO ODU DAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > DAPI - Expected Message
	Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > DAPI - Expected Message
	In Multi-Channel OTN, when accessing an ODU LO, the channel must be set using SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel. The global expected DAPI can also be set for all channels by using SENS:DATA:TEL:OTN:ODU[1..n]:TTI:ACHAnnel.
	In FlexO BERT, when accessing an ODU LO, the client ID must be set using SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLient. The global expected DAPI can also be set for all clients by using SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACLient
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPected <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Is the expected message for ODU TTI Trace

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPected

Response Syntax	\<Channel\>
Example(s)	SENS:DATA:TEL:OTN:ODU3:TTI:TIM DAPI,ON
	SENS:DATA:TEL:OTN:ODU3:TTI:DAPI:EXP EXFO ODU DAPI
	SENS:DATA:TEL:OTN:ODU3:TTI:DAPI:EXP?
	Returns: EXFO ODU DAPI
	For Multi-Channel OTN:
	SENS:DATA:TEL:OTN:ODU100:TTI:ACHA ON
	SENS:DATA:TEL:OTN:ODU100:TTI:TIM DAPI,ON
	SENS:DATA:TEL:OTN:ODU100:TTI:DAPI:EXP "XFO ODU DAPI"
	SENS:DATA:TEL:OTN:ODU100:TTI:DAPI:EXP?
	Returns: XFO ODU DAPI
	For FlexO BERT:
	SENS:DATA:TEL:OTN:ODU101:TTI:ACL ON
	SENS:DATA:TEL:OTN:ODU101:TTI:TIM DAPI,ON
	SENS:DATA:TEL:OTN:ODU101:TTI:DAPI:EXP "XFO ODU DAPI"
	SENS:DATA:TEL:OTN:ODU101:TTI:DAPI:EXP?
	Returns: XFO ODU DAPI
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPected
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPected?
	For Multi-Channel OTN
	SENSe:DATA:TELecom:OTN:ODU[1..n]:CHANnel
	SENSe:DATA:TELecom:OTN:ODU[1..n]:CHANnel?
	SENSe:DATA:TELecom:OTN:ODU[1..n]:ACHAnnel
	SENSe:DATA:TELecom:OTN:ODU[1..n]:ACHAnnel?
	For FlexO BERT:
	SENSe:DATA:TELecom:OTN:ODU[1..n]:CLIent
	SENSe:DATA:TELecom:OTN:ODU[1..n]:CLIent?
	SENSe:DATA:TELecom:OTN:ODU[1..n]:ACLient
	SENSe:DATA:TELecom:OTN:ODU[1..n]:ACLient?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPected?

Description	This qiuery returns the ODUn PM DAPI expected message.
	At *RST condition, this value is set to EXFO ODU DAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > DAPI - Expected Message
	Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > DAPI - Expected Message
	In Multi-Channel OTN, when accessing an ODU LO, the channel must be set using SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel. The global expected DAPI can also be set for all channels by using SENS:DATA:TEL:OTN:ODU[1..n]:TTI:ACHAnnel.
	In FlexO BERT, when accessing an ODU LO, the client ID must be set using SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLIent. The global expected DAPI can also be set for all clients by using SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACLient
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPected?
Response Syntax	<Message>

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPected?

Response(s)

Message:

The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.

Returns the expected message for the instrument.

Example(s)

SENS:DATA:TEL:OTN:ODU3:TTI:TIM DAPI,ON

SENS:DATA:TEL:OTN:ODU3:TTI:DAPI:EXP EXFO ODU DAPI

SENS:DATA:TEL:OTN:ODU3:TTI:DAPI:EXP?

Returns: EXFO ODU DAPI

For Multi-Channel OTN:

SENS:DATA:TEL:OTN:ODU100:TTI:ACHA ON

SENS:DATA:TEL:OTN:ODU100:TTI:TIM DAPI,ON

SENS:DATA:TEL:OTN:ODU100:TTI:DAPI:EXP "XFO ODU DAPI"

SENS:DATA:TEL:OTN:ODU100:TTI:DAPI:EXP?

Returns: XFO ODU DAPI

For FlexO BERT:

SENS:DATA:TEL:OTN:ODU101:TTI:ACL ON

SENS:DATA:TEL:OTN:ODU101:TTI:TIM DAPI,ON

SENS:DATA:TEL:OTN:ODU101:TTI:DAPI:EXP "XFO ODU DAPI"

SENS:DATA:TEL:OTN:ODU101:TTI:DAPI:EXP?

Returns: XFO ODU DAPI

See Also

SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPected

SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPected?

For Multi-Channel OTN

SENSe:DATA:TELecom:OTN:ODU[1..n]:CHANnel

SENSe:DATA:TELecom:OTN:ODU[1..n]:CHANnel?

SENSe:DATA:TELecom:OTN:ODU[1..n]:ACHAnnel

SENSe:DATA:TELecom:OTN:ODU[1..n]:ACHAnnel?

For FlexO BERT:

SENSe:DATA:TELecom:OTN:ODU[1..n]:CLIent

SENSe:DATA:TELecom:OTN:ODU[1..n]:CLIent?

SENSe:DATA:TELecom:OTN:ODU[1..n]:ACLient

SENSe:DATA:TELecom:OTN:ODU[1..n]:ACLient?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:GOVErwrite?

Description	This query returns if an expected DAPI ODU TTI Traces has been overwritten on at least one channel for Multi-Channel OTN test.
	Navigation Path: Setup > Test Configurator > OTU > Traces > ODU > DAPI - Expected Message - Overwritten icon
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:GOVErwrite?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	1: At least one expected DAPI ODU TTI Trace has been overwritten.
	0: All expected DAPI ODU TTI Traces are the same as the Global expected ODU TTI Trace.
Example(s)	SENS:DATA:TEL:OTN:ODU100:TTI:DAPI:GOVE?
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPected
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHAN
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHA

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPected

Description	This command sets the ODUn PM SAPI expected message.
	At *RST condition, this value is set to EXFO ODU SAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > SAPI - Expected Message
	Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > SAPI - Expected Message
	In Multi-Channel OTN, when accessing an ODU LO, the channel must be set using SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel. The global expected SAPI can also be set for all channels by using SENS:DATA:TEL:OTN:ODU[1..n]:TTI:ACHAnnel.
	In FlexO BERT, when accessing an ODU LO, the client ID must be set using SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLIent. The global expected SAPI can also be set for all clients by using SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACLient
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPected <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the expected message.

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPected

Response Syntax
    <Set>

Example(s)
    SENS:DATA:TEL:OTN:ODU3:TTI:TIM SAPI,ON

    SENS:DATA:TEL:OTN:ODU3:TTI:SAPI:EXP EXFO ODU SAPI

    SENS:DATA:TEL:OTN:ODU3:TTI:SAPI:EXP?

    Returns: EXFO ODU SAPI

    For Multi-Channel OTN:

    SENS:DATA:TEL:OTN:ODU100:TTI:ACHA ON

    SENS:DATA:TEL:OTN:ODU100:TTI:TIM SAPI,ON

    SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP "XFO ODU SAPI"

    SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP?

    Returns: XFO ODU SAPI

    For FlexO BERT:

    SENS:DATA:TEL:OTN:ODU101:TTI:ACL ON

    SENS:DATA:TEL:OTN:ODU101:TTI:TIM SAPI,ON

    SENS:DATA:TEL:OTN:ODU101:TTI:SAPI:EXP "XFO ODU SAPI"

    SENS:DATA:TEL:OTN:ODU101:TTI:SAPI:EXP?

    Returns: XFO ODU SAPI

See Also
    SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPected

    SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPected?

    For Multi-Channel OTN

    SENSe:DATA:TELecom:OTN:ODU[1..n]:CHANnel

    SENSe:DATA:TELecom:OTN:ODU[1..n]:CHANnel?

    SENSe:DATA:TELecom:OTN:ODU[1..n]:ACHAnnel

    SENSe:DATA:TELecom:OTN:ODU[1..n]:ACHAnnel?

    For FlexO BERT:

    SENSe:DATA:TELecom:OTN:ODU[1..n]:CLIent

    SENSe:DATA:TELecom:OTN:ODU[1..n]:CLIent?

    SENSe:DATA:TELecom:OTN:ODU[1..n]:ACLient

    SENSe:DATA:TELecom:OTN:ODU[1..n]:ACLient?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPected?

Description	This query returns the ODUn PM SAPI expected message.
	At *RST condition, this value is set to EXFO ODU SAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > SAPI - Expected Message
	Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > SAPI - Expected Message
	In Multi-Channel OTN, when accessing an ODU LO, the channel must be set using SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel. The global expected SAPI can also be set for all channels by using SENS:DATA:TEL:OTN:ODU[1..n]:TTI:ACHAnnel.
	In FlexO BERT, when accessing an ODU LO, the client ID must be set using SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLIent. The global expected SAPI can also be set for all clients by using SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACLient
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPected?
Response Syntax	<Message>

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPected?

Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the expected message for the instrument.
Example(s)	SENS:DATA:TEL:OTN:ODU3:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU3:TTI:SAPI:EXP EXFO ODU SAPI
	SENS:DATA:TEL:OTN:ODU3:TTI:SAPI:EXP?
	Returns: EXFO ODU SAPI
	For Multi-Channel OTN:
	SENS:DATA:TEL:OTN:ODU100:TTI:ACHA ON
	SENS:DATA:TEL:OTN:ODU100:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP XFO ODU SAPI
	SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP?
	Returns: XFO ODU SAPI
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPected
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPected?
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHAN
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHA

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:GOVErwrite?

Description	This query returns if an expected SAPI ODU TTI Traces has been overwritten on at least one channel for Multi-Channel OTN test. Navigation Path: Setup > Test Configurator > OTU > Traces > ODU > SAPI - Expected Message - Overwritten icon
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:GOVErwrite?
Response Syntax	\<Set\>
Response(s)	**Set**: The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA\> element. 1: At least one expected SAPI ODU TTI Trace has been overwritten. 0: All expected SAPI ODU TTI Traces are the same as the Global expected ODU TTI Trace.
Example(s)	SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:GOVE?
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPected SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHAN SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACHA

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIM

Description	This command enables/disables the ODU SAPI/DAPI Trace Identifier Mismatch (TIM).
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU > Traces > ODU > PM TTI Traces > SAPI/DAPI ODU-TIM
	Navigation Path: Results > Traces > OTN > ODU > PM TTI Traces > SAPI/DAPI ODU-TIM
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIM <wsp><Etim>, <Set>
Parameter(s)	**Etim**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	enables/disables the TIM (Trace Identifier Mismatch).
	SAPI: the SAPI which allows editing of the SAPI (Source Access Point Identifier) message to be generated.
	DAPI: the DAPI which allows editing of the DAPI (Destination Access Point Identifier) message to be generated.
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the Trace Identifier Mismatch (TIM).
	ON, enables the Trace Identifier Mismatch (TIM).
	OFF, disables the Trace Identifier Mismatch (TIM).
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:OTN:ODU3:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU3:TTI:TIM? SAPI
	Returns: 1
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM
	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIM?

Description	This query returns the state of the ODU SAPI/DAPI Trace Identifier Mismatch (TIM).
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU > Traces > ODU > PM TTI Traces > SAPI/DAPI ODU-TIM
	Navigation Path: Results > Traces > OTN > ODU > PM TTI Traces > SAPI/DAPI ODU-TIM
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIM? <wsp><Etim>
Parameter(s)	**Etim**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	enables/disables the TIM (Trace Identifier Mismatch).
	SAPI: the SAPI which allows editing of the SAPI (Source Access Point Identifier) message to be generated.
	DAPI: the DAPI which allows editing of the DAPI (Destination Access Point Identifier) message to be generated.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of Trace Identifier Mismatch (TIM).
	0, status of the Trace Identifier Mismatch (TIM) is disabled
	1, status of the Trace Identifier Mismatch (TIM) is enabled
Example(s)	SENS:DATA:TEL:OTN:ODU3:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU3:TTI:TIM? SAPI
	Returns: 1
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM
	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXPec ted

Description	This command sets the OTU3e2/e2 SM DAPI expected message.
	At *RST condition, this value is set to EXFO OTU DAPI.
	Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > DAPI Expected Message
	Navigation Path: Results > Traces > OTN > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > DAPI Expected Message
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXPected <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the expected message.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:OTN:OTU3:E1:TTI:TIM DAPI,ON
	SENS:DATA:TEL:OTN:OTU3:E1:TTI:DAPI:EXP EXFO OTU DAPI
	SENS:DATA:TEL:OTN:OTU3:E1:TTI:DAPI:EXP?
	Returns: EXFO OTU DAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM

:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXPected?

Description	This query returns the OTU3e2/e2 SM DAPI expected message.
	At *RST condition, this value is set to EXFO OTU DAPI.
	Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > DAPI Expected Message
	Navigation Path: Results > Traces > OTN > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > DAPI Expected Message
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXPected?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the expected message.
Example(s)	SENS:DATA:TEL:OTN:OTU3:E1:TTI:TIM DAPI,ON
	SENS:DATA:TEL:OTN:OTU3:E1:TTI:DAPI:EXP EXFO OTU DAPI
	SENS:DATA:TEL:OTN:OTU3:E1:TTI:DAPI:EXP?
	Returns: EXFO OTU DAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM

:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:EXPected

Description	This command sets the OTU1e/2e/3e1/3e2 PM SAPI expected message.
	At *RST condition, this value is set to EXFO OTU SAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > OTUn > PM TTI Traces > SAPI - Expected Message
	Navigation Path: Results > Traces > OTN > OTUn > PM TTI Traces > SAPI - Expected Message
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:EXPected <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the expected message.
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:OTU3:E1:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:OTU3:E1:TTI:SAPI:EXP EXFO OTU SAPI
	SENS:DATA:TEL:OTN:OTU3:E1:TTI:SAPI:EXP?
	Returns: EXFO OTU SAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM

:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:EXPected?

Description	This command sets the ODU1e/2e/3e1/3e2 SM SAPI expected message.
	At *RST condition, this value is set to EXFO OTU SAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > OTUn > PM TTI Traces > SAPI - Expected Message
	Navigation Path: Results > Traces > OTN > OTUn > PM TTI Traces > SAPI - Expected Message
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:EXPected?
Response Syntax	\<Message\>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a \<STRING RESPONSE DATA\> element.
	Returns the expected message.
Example(s)	SENS:DATA:TEL:OTN:OTU3:E1:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:OTU3:E1:TTI:SAPI:EXP EXFO OTU SAPI
	SENS:DATA:TEL:OTN:OTU3:E1:TTI:SAPI:EXP?
	Returns: EXFO OTU SAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM

:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM

Description	This command enables/disables the OTU1e/2e / OTU3e1/e2 SM SAPI/DAPI Trace Identifier Mismatch (TIM).
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > SAPI/DAPI OTU-TIM
	Navigation Path: Results > Traces > OTN > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > SAPI/DAPI OTU-TIM
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM <wsp><Etim>, <Set>
Parameter(s)	**Etim**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	enables/disables the Trace Identifier Mismatch (TIM).
	SAPI: the SAPI which allows editing of the Source Access Point Identifier (SAPI) message to be generated.
	DAPI: the DAPI which allows editing of the Destination Access Point Identifier (DAPI) message to be generated.
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the Trace Identifier Mismatch (TIM).
	ON, enables the Trace Identifier Mismatch (TIM).
	OFF, disables the Trace Identifier Mismatch (TIM).
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:OTU3:E1:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:OTU3:E1:TTI:TIM? SAPI
	Returns: 1
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM?

Description	This query returns the status of the OTU1e/2e / OTU3e1/e2 SM SAPI/DAPI Trace Identifier Mismatch (TIM).
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > SAPI/DAPI OTU-TIM
	Navigation Path: Results > Traces > OTN > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > SAPI/DAPI OTU-TIM
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM? <wsp><Etim>
Parameter(s)	**Etim**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	enables/disables the Trace Identifier Mismatch (TIM).
	SAPI: the SAPI which allows editing of the Source Access Point Identifier (SAPI) message to be generated.
	DAPI: the DAPI which allows editing of the Destination Access Point Identifier (DAPI) message to be generated.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the Trace Identifier Mismatch (TIM).
	0, status of the Trace Identifier Mismatch (TIM) is disabled
	1, status of the Trace Identifier Mismatch (TIM) is enabled
Example(s)	SENS:DATA:TEL:OTN:OTU3:E1:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:OTU3:E1:TTI:TIM? SAPI
	Returns: 1
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM

:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:DAPI:EXPected

Description	This command sets the OTU1f/2f SM DAPI expected message. At *RST condition, this value is set to EXFO OTU DAPI. Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > SM TTI Traces > DAPI - Expected Message Navigation Path: Results > Traces > OTN > OTU1f/2f > SM TTI Traces > DAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:DAPI:EXPected <wsp><Message>
Parameter(s)	**Message**: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the expected message.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:OTN:OTU1:F:TTI:TIM DAPI,ON SENS:DATA:TEL:OTN:OTU1:F:TTI:DAPI:EXP EXFO OTU DAPI SENS:DATA:TEL:OTN:OTU1:F:TTI:DAPI:EXP? Returns: EXFO OTU DAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXP?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:DAPI:EXPected?

Description	This query returns the OTU1f/2f SM DAPI expected message.
	At *RST condition, this value is set to EXFO OTU DAPI.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > SM TTI Traces > DAPI - Expected Message
	Navigation Path: Results > Traces > OTN > OTU1f/2f > SM TTI Traces > DAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:DAPI:EXPected?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the expected message.
Example(s)	SENS:DATA:TEL:OTN:OTU1:F:TTI:TIM DAPI,ON
	SENS:DATA:TEL:OTN:OTU1:F:TTI:DAPI:EXP EXFO OTU DAPI
	SENS:DATA:TEL:OTN:OTU1:F:TTI:DAPI:EXP?
	Returns: EXFO OTU DAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:EXP

:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:SAPI:EXPected

Description	This command sets the OTU1f/2f SM SAPI expected message.
	At *RST condition, this value is set to EXFO OTU SAPI.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > SM TTI Traces > SAPI - Expected Message
	Navigation Path: Results > Traces > OTN > OTU1f/2f > SM TTI Traces > SAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:SAPI:EXPected <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the expected message.
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:OTU1:F:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:OTU1:F:TTI:SAPI:EXP EXFO OTU SAPI
	SENS:DATA:TEL:OTN:OTU1:F:TTI:SAPI:EXP?
	Returns: EXFO OTU SAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:SAPI:EXPected?

Description	This query returns the OTU1f/2f SM SAPI expected message.
	At *RST condition, this value is set to EXFO OTU SAPI.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > SM TTI Traces > SAPI - Expected Message
	Navigation Path: Results > Traces > OTN > OTU1f/2f > SM TTI Traces > SAPI - Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:SAPI:EXPected?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the expected message.
Example(s)	SENS:DATA:TEL:OTN:OTU1:F:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:OTU1:F:TTI:SAPI:EXP EXFO OTU SAPI
	SENS:DATA:TEL:OTN:OTU1:F:TTI:SAPI:EXP?
	Returns: EXFO OTU SAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM

:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:TIM

Description	This command enables/disables the OTU1f/2f SAPI/DAPI Trace Identifier Mismatch (TIM).
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > SM TTI Traces > SAPI/DAPI OTU-TIM
	Navigation Path: Results > Traces > OTN > OTU1f/2f > SM TTI Traces > SAPI/DAPI OTU-TIM
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:TIM <wsp><Etim>, <Set>
Parameter(s)	**Etim**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	enables/disables the Trace Identifier Mismatch (TIM).
	SAPI: the SAPI which allows editing of the Source Access Point Identifier (SAPI) message to be generated.
	DAPI: the DAPI which allows editing of the Destination Access Point Identifier (DAPI) message to be generated.
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the Trace Identifier Mismatch (TIM).
	ON, enables the Trace Identifier Mismatch (TIM).
	OFF, disables the Trace Identifier Mismatch (TIM).
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:OTU1:F:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:OTU1:F:TTI:TIM? SAPI
	Returns: 0
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:TIM?

Description	This query returns the status of the OTU1f/2f SAPI/DAPI Trace Identifier Mismatch (TIM).
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > SM TTI Traces > SAPI/DAPI OTU-TIM
	Navigation Path: Results > Traces > OTN > OTU1f/2f > SM TTI Traces > SAPI/DAPI OTU-TIM
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:TIM? <wsp><Etim>
Parameter(s)	**Etim**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	enables/disables the Trace Identifier Mismatch (TIM).
	SAPI: the SAPI which allows editing of the Source Access Point Identifier (SAPI) message to be generated.
	DAPI: the DAPI which allows editing of the Destination Access Point Identifier (DAPI) message to be generated.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the Trace Identifier Mismatch (TIM).
	0, status of the Trace Identifier Mismatch (TIM) is disabled.
	1, status of the Trace Identifier Mismatch (TIM) is enabled.
Example(s)	SENS:DATA:TEL:OTN:OTU1:F:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:OTU1:F:TTI:TIM? SAPI
	Returns: 1
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:TIM

:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:EXPected

Description	This command sets the OTU SM DAPI expected message.
	At *RST condition, this value is set to EXFO OTU DAPI.
	Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > DAPI Expected Message
	Navigation Path: Results > Traces > OTN > OTU > SM TTI Traces > DAPI Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:EXPected <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the expected message.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:OTN:OTU3:TTI:TIM DAPI,ON
	SENS:DATA:TEL:OTN:OTU3:TTI:DAPI:EXP EXFO OTU DAPI
	SENS:DATA:TEL:OTN:OTU3:TTI:DAPI:EXP?
	Returns: EXFO OTU DAPI
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPected
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPected?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:EXPected?

Description	This query returns the OTU SM DAPI expected message.
	At *RST condition, this value is set to EXFO OTU DAPI.
	Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces
	Navigation Path: Results > Traces > OTN > OTU > SM TTI Traces
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:EXPected?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the expected message for the OTU.
Example(s)	SENS:DATA:TEL:OTN:OTU3:TTI:TIM DAPI,ON
	SENS:DATA:TEL:OTN:OTU3:TTI:DAPI:EXP EXFO OTU DAPI
	SENS:DATA:TEL:OTN:OTU3:TTI:DAPI:EXP?
	Returns: EXFO OTU DAPI
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPected
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:EXPected?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:EXPected

Description	This command sets the OTU SM SAPI expected message.
	At *RST condition, this value is set to EXFO OTU SAPI.
	Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > SAPI Expected Message
	Navigation Path: Results > Traces > OTN > OTU > SM TTI Traces > SAPI Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:EXPected <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the expected message.
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:OTU3:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:OTU3:TTI:SAPI:EXP EXFO OTU SAPI
	SENS:DATA:TEL:OTN:OTU3:TTI:SAPI:EXP?
	Returns: EXFO OTU SAPI
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM
	SENSe:DATA:TELecom:OTN:OTU[1..n][1..n]:TTI:SAPI:EXPected?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:EXPected?

Description	This query returns the OTU SM SAPI expected message.
	At *RST condition, this value is set to EXFO OTU SAPI.
	Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > SAPI Expected Message
	Navigation Path: Results > Traces > OTN > OTU > SM TTI Traces > SAPI Expected Message
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:EXPected?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the expected message for the OTU.
Example(s)	SENS:DATA:TEL:OTN:OTU3:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:OTU3:TTI:SAPI:EXP EXFO OTU SAPI
	SENS:DATA:TEL:OTN:OTU3:TTI:SAPI:EXP?
	Returns: EXFO OTU SAPI
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPected
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:EXPected?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM

Description	This command enables/disables the OTU SM SAPI/DAPI Trace Identifier Mismatch (TIM).
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces
	Navigation Path: Results > Traces > OTN > OTU > SM TTI Traces > SAPI/DAPI OTU-TIM
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM <wsp><Etim>, <Set>
Parameter(s)	**Etim**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	enables/disables the TIM (Trace Identifier Mismatch).
	SAPI: the SAPI which allows editing of the SAPI (Source Access Point Identifier) message to be generated.
	DAPI: the DAPI which allows editing of the DAPI (Destination Access Point Identifier) message to be generated.
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the Trace Identifier Mismatch (TIM).
	ON, enables the Trace Identifier Mismatch (TIM).
	OFF, disables the Trace Identifier Mismatch (TIM).
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:OTU3:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:OTU3:TTI:TIM? SAPI
	Returns: 1
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIM
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIM?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM?

Description	This query returns the state the OTU SM SAPI/DAPI Trace Identifier Mismatch (TIM).
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces
	Navigation Path: Results > Traces > OTN > OTU > SM TTI Traces > SAPI/DAPI OTU-TIM
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:TIM? <wsp><Etim>
Parameter(s)	**Etim**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	enables/disables the TIM (Trace Identifier Mismatch).
	SAPI: the SAPI which allows editing of the SAPI (Source Access Point Identifier) message to be generated.
	DAPI: the DAPI which allows editing of the DAPI (Destination Access Point Identifier) message to be generated.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of Trace Identifier Mismatch (TIM).
	SAPI, indicates the SAPI which allows editing of the SAPI (Source Access Point Identifier) message to be generated.
	DAPI, indicates the DAPI which allows editing of the DAPI (Destination Access Point Identifier) message to be generated.
Example(s)	SENS:DATA:TEL:OTN:OTU3:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:OTU3:TTI:TIM? SAPI
	Returns: 1
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIM
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:TIM?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:PM:DAPI:B

Description	This command sets the ODU1e/2e/3e1/3e2 PM DAPI generated message.
	At *RST condition, this value is set to EXFO ODU DAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > DAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:PM:DAPI:B <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:PM:DAPI:B EXFO ODU DAPI
	SOUR:DATA:TEL:OTN:ODU3:E1:PM:DAPI:B?
	Returns: EXFO ODU DAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:DAPI:B

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:PM:DAPI:B?

Description	This query returns the ODU1e/2e/3e1/3e2 PM DAPI generated message.
	At *RST condition, this value is set to EXFO ODU DAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > DAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:PM:DAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:PM:DAPI:B EXFO ODU DAPI
	SOUR:DATA:TEL:OTN:ODU3:E1:PM:DAPI:B?
	Returns: EXFO ODU DAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:DAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:PM:OPSPec:B

Description	This command sets the ODU1e/2e/3e1/3e2 PM Operator Specific.
	At *RST condition, this value is set to EXFO ODU OPERATOR SPECIFIC.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > Operator Specific - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:PM:OPSPec:B <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:PM:OPSP:B EXFO ODU OPERATOR SPECIFIC
	SOUR:DATA:TEL:OTN:ODU3:E1:PM:OPSP:B?
	Returns: EXFO ODU OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:OPSPec:B

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:PM:OPSPec:B ?

Description	This query returns the ODU1e/2e/3e1/3e2 PM Operator Specific.
	At *RST condition, this value is set to EXFO ODU OPERATOR SPECIFIC.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > Operator Specific - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:PM:OPSPec:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:PM:OPSP:B EXFO ODU OPERATOR SPECIFIC
	SOUR:DATA:TEL:OTN:ODU3:E1:PM:OPSP:B?
	Returns: EXFO ODU OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:OPSPec:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:PM:SAPI:B

Description	This command sets the ODU1e/2e/3e1/3e2 PM SAPI generated message.
	At *RST condition, this value is set to EXFO ODU SAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > SAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:PM:SAPI:B <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:PM:SAPI:B EXFO ODU SAPI
	SOUR:DATA:TEL:OTN:ODU3:E1:PM:SAPI:B?
	Returns: EXFO ODU SAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:PM:SAPI:B?

Description	This query returns the ODU1e/2e/3e1/3e2 PM SAPI generated message.
	At *RST condition, this value is set to EXFO ODU SAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > SAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:PM:SAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:PM:SAPI:B EXFO ODU SAPI
	SOUR:DATA:TEL:OTN:ODU3:E1:PM:SAPI:B?
	Returns: EXFO ODU SAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:DAPI:B

Description	This command sets the ODU3e1/e2 TCM DAPI generated message.
	At *RST condition, this value is set to EXFO OTU DAPI.
	Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > ODU3e1/e2 > TCM > DAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:DAPI:B <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:TCM1:DAPI:B16 EXFO OTU DAPI
	SOUR:DATA:TEL:OTN:ODU3:E1:TCM1:DAPI:B16?
	Returns: EXFO OTU DAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:DAPI:B16?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:DAPI:B?

Description	This query returns the ODU3e1/e2 TCM DAPI generated message.
	At *RST condition, this value is set to EXFO OTU DAPI.
	Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > ODU3e1/e2 > TCM > DAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:DAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message for the instrument.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:TCM1:DAPI:B16 EXFO OTU DAPI
	SOUR:DATA:TEL:OTN:ODU3:E1:TCM1:DAPI:B16?
	Returns: EXFO OTU DAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:DAPI:B16

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:OP
SPec:B

Description	This command sets the ODU1e/2e/3e1/3e2 TCM Operator Specific Generated Message.
	At *RST condition, this value is set to EXFO TCMn OPERATOR SPECIFIC.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > ODUn TCM TTI Traces > TCMn > Operator Specific - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:OPSPec:B <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:TCM1:OPSP:B32 EXFO TCM1 OPERATOR SPECIFIC
	SOUR:DATA:TEL:OTN:ODU3:E1:TCM1:OPSP:B32?
	Returns: EXFO TCM1 OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B32?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:OP SPec:B?

Description	This query returns the ODU1e/2e/3e1/3e2 TCM Operator Specific Generated Message.
	At *RST condition, this value is set to EXFO TCMn OPERATOR SPECIFIC.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > ODUn TCM TTI Traces > TCMn > Operator Specific - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:OPSPec:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:TCM1:OPSP:B32 EXFO TCM1 OPERATOR SPECIFIC
	SOUR:DATA:TEL:OTN:ODU3:E1:TCM1:OPSP:B32?
	Returns: EXFO TCM1 OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B32

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:SAPI:B

Description	This command sets the ODU3e1/e2 TCM SAPI generated message.
	At *RST condition, this value is set to EXFO OTU SAPI
	Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > ODU3e1/e2 > TCM > SAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:SAPI:B <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:TCM1:SAPI:B16 EXFO OTU SAPI
	SOUR:DATA:TEL:OTN:ODU3:E1:TCM1:SAPI:B16?
	Returns: EXFO OTU SAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B16?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:SAPI:B?

Description	This query returns the ODU3e1/e2 TCM SAPI generated message.
	At *RST condition, this value is set to EXFO OTU SAPI.
	Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > ODU3e1/e2 > TCM > SAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:SAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message for the instrument.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:TCM1:SAPI:B16 EXFO OTU SAPI
	SOUR:DATA:TEL:OTN:ODU3:E1:TCM1:SAPI:B16?
	Returns: EXFO OTU SAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B16

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:OVERwrite:ENABled

Description	This command enables/disables ODU3e1/e2 PM Overwrite.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > ODU3e(1/2) > PM TTI Traces > Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:OVERwrite:ENABled \<wsp>\<Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a \<BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	\<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:TTI:OVER:ENAB ON
	SOUR:DATA:TEL:OTN:ODU3:E1:TTI:OVER:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:OVERwrite:ENABled?

Description	This query returns the status of ODU3e1/e2 PM Overwrite.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > ODU3e(1/2) > PM TTI Traces > Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:OVERwrite:ENABled?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:TTI:OVER:ENAB ON
	SOUR:DATA:TEL:OTN:ODU3:E1:TTI:OVER:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:PM:DAPI:B

Description	This command sets the ODU1f/2f PM DAPI generated message.
	At *RST condition, this value is set to EXFO ODU DAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > DAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:PM:DAPI:B <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:PM:DAPI:B EXFO ODU DAPI
	SOUR:DATA:TEL:OTN:ODU1:F:PM:DAPI:B?
	Returns: EXFO ODU DAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:DAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:PM:DAPI:B?

Description	This query returns the ODU1f/2f PM DAPI generated message.
	At *RST condition, this value is set to EXFO ODU DAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > DAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:PM:DAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:PM:DAPI:B EXFO ODU DAPI
	SOUR:DATA:TEL:OTN:ODU1:F:PM:DAPI:B?
	Returns: EXFO ODU DAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:DAPI:B

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:PM:OPSPec:B

Description	This command sets the ODU1f/2f PM Operator Specific.
	At *RST condition, this value is set to EXFO ODU OPERATOR SPECIFIC.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > Operator Specific - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:PM:OPSPec:B <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:PM:OPSPec:B EXFO ODU OPERATOR SPECIFIC
	SOUR:DATA:TEL:OTN:ODU1:F:PM:OPSPec:B?
	Returns: EXFO ODU OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:OPSPec:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:PM:OPSPec:B?

Description	This query returns the ODU1f/2f PM Operator Specific.
	At *RST condition, this value is set to EXFO ODU OPERATOR SPECIFIC.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > Operator Specific - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:PM:OPSPec:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:PM:OPSPec:B EXFO ODU OPERATOR SPECIFIC
	SOUR:DATA:TEL:OTN:ODU1:F:PM:OPSPec:B?
	Returns: EXFO ODU OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:OPSPec:B

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:PM:SAPI:B

Description	This command sets the ODU1f/2f PM SAPI generated message.
	At *RST condition, this value is set to EXFO ODU SAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > SAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:PM:SAPI:B <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:PM:SAPI:B EXFO ODU SAPI
	SOUR:DATA:TEL:OTN:ODU1:F:PM:SAPI:B?
	Returns: EXFO ODU SAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:PM:SAPI:B?

Description	This query returns the ODU1f/2f PM SAPI generated message.
	At *RST condition, this value is set to EXFO ODU SAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > SAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:PM:SAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:PM:SAPI:B EXFO ODU SAPI
	SOUR:DATA:TEL:OTN:ODU1:F:PM:SAPI:B?
	Returns: EXFO ODU SAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:DAPI:B

Description	This command sets the ODU1f/2f TCM DAPI generated message.
	At *RST condition, this value is set to EXFO OTU DAPI.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > ODU1f/2f > TCM > DAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:DAPI:B <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:TCM1:DAPI:B EXFO OTU DAPI
	SOUR:DATA:TEL:OTN:ODU1:F:TCM1:DAPI:B?
	Returns: EXFO OTU DAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:DAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:DAPI:B?

Description	This query returns the ODU1f/2f TCM DAPI generated message.
	At *RST condition, this value is set to EXFO OTU DAPI.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > ODU1f/2f > TCM > DAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:DAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message for the instrument.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:TCM1:DAPI:B EXFO OTU DAPI
	SOUR:DATA:TEL:OTN:ODU1:F:TCM1:DAPI:B?
	Returns: EXFO OTU DAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:DAPI:B

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:OPSPec:B

Description	This command sets the ODU1f/2f TCM Operator Specific Generated Message.
	At *RST condition, this value is set to EXFO TCMn OPERATOR SPECIFIC.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > ODUn TCM TTI Traces > TCMn > Operator Specific - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:OPSPec:B <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:TCM1:OPSP:B EXFO TCM1 OPERATOR SPECIFIC
	SOUR:DATA:TEL:OTN:ODU1:F:TCM1:OPSP:B?
	Returns: EXFO TCM1 OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:OPSPec:B?

Description	This query returns the ODU1f/2f TCM Operator Specific Generated Message.
	At *RST condition, this value is set to EXFO TCMn OPERATOR SPECIFIC.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > ODUn TCM TTI Traces > TCMn > Operator Specific - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:OPSPec:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:TCM1:OPSP:B EXFO TCM1 OPERATOR SPECIFIC
	SOUR:DATA:TEL:OTN:ODU1:F:TCM1:OPSP:B?
	Returns: EXFO TCM1 OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:SAPI:B

Description	This command sets the ODU1f/2f TCM SAPI generated message.
	At *RST condition, this value is set to EXFO OTU SAPI.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > ODU1f/2f > TCM > SAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:SAPI:B <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:TCM1:SAPI:B EXFO OTU SAPI
	SOUR:DATA:TEL:OTN:ODU1:F:TCM1:SAPI:B?
	Returns: EXFO OTU SAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:SAPI:B?

Description	This query returns the ODU1f/2f TCM SAPI generated message.
	At *RST condition, this value is set to EXFO OTU SAPI.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > ODU1f/2f > TCM > SAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:SAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message for the instrument.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:TCM1:SAPI:B EXFO OTU SAPI
	SOUR:DATA:TEL:OTN:ODU1:F:TCM1:SAPI:B?
	Returns: EXFO OTU SAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TTI:OVERwrite:ENABled

Description	This command enables/disables ODU1f/2f PM Overwrite.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > PM TTI Traces > Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TTI:OVERwrite:ENABled <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:TTI:OVER:ENAB ON
	SOUR:DATA:TEL:OTN:ODU3:E1:TTI:OVER:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TTI:OVERwrite:ENA Bled?

Description	This query returns the status of ODU1f/2f PM Overwrite.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > PM TTI Traces > Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:TTI:OVERwrite:ENABled?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:TTI:OVER:ENAB ON
	SOUR:DATA:TEL:OTN:ODU3:E1:TTI:OVER:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled

:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:DAPI:B

Description	This command sets the ODUn PM DAPI generated message.
	At *RST condition, this value is set to EXFO ODU DAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > DAPI - Generated Message
	NOTE: For ODU[1..n], use appropriate digit or use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:DAPI:B <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:PM:DAPI:B EXFO ODU DAPI
	SOUR:DATA:TEL:OTN:ODU3:PM:DAPI:B?
	Returns: EXFO ODU DAPI
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:SAPI:B
	SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:SAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:DAPI:B?

Description	This query returns the ODUn PM DAPI generated message.
	At *RST condition, this value is set to EXFO ODU DAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > DAPI - Generated Message
	NOTE: For ODU[1..n], use appropriate digit or use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:DAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:PM:DAPI:B EXFO ODU DAPI
	SOUR:DATA:TEL:OTN:ODU3:PM:DAPI:B?
	Returns: EXFO ODU DAPI
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:SAPI:B
	SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:SAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:OPSPec:B

Description	This command sets the ODUn PM Operator Specific.
	At *RST condition, this value is set to EXFO ODU OPERATOR SPECIFIC.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > Operator Specific - Generated Message
	NOTE: For ODU[1..n], use appropriate digit or use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:OPSPec:B <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:PM:OPSP:B EXFO ODU OPERATOR SPECIFIC
	SOUR:DATA:TEL:OTN:ODU3:PM:OPSP:B?
	Returns: EXFO ODU OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B
	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:OPSPec:B?

Description	This query returns the ODUn PM Operator Specific.
	At *RST condition, this value is set to EXFO ODU OPERATOR SPECIFIC.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > Operator Specific - Generated Message
	NOTE: For ODU[1..n], use appropriate digit or use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:OPSPec:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:PM:OPSP:B EXFO ODU OPERATOR SPECIFIC
	SOUR:DATA:TEL:OTN:ODU3:PM:OPSP:B?
	Returns: EXFO ODU OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B
	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:SAPI:B

Description	This command sets the ODUn PM SAPI generated message.
	At *RST condition, this value is set to EXFO ODU SAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > SAPI - Generated Message
	NOTE: For ODU[1..n], use appropriate digit or use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:SAPI:B <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:PM:SAPI:B EXFO ODU SAPI
	SOUR:DATA:TEL:OTN:ODU3:PM:SAPI:B?
	Returns: EXFO ODU SAPI
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:DAPI:B
	SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:DAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:SAPI:B?

Description	This query returns the ODUn PM SAPI generated message.
	At *RST condition, this value is set to EXFO ODU SAPI.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > PM TTI Traces > SAPI - Generated Message
	NOTE: For ODU[1..n], use appropriate digit or use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:PM:SAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:PM:SAPI:B EXFO ODU SAPI
	SOUR:DATA:TEL:OTN:ODU3:PM:SAPI:B?
	Returns: EXFO ODU SAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B

:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:DAPI:B

Description	This command sets the ODU TCM DAPI generated message.
	At *RST condition, this value is set to EXFO TCM DAPI.
	Navigation Path: Setup > Test Configurator > OTU > Traces > ODU > TCM > DAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:DAPI:B <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:TCM1:DAPI:B EXFO1
	SOUR:DATA:TEL:OTN:ODU3:TCM1:DAPI:B?
	Returns: EXFO1
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B
	SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:DAPI:B?

Description	This query returns the ODU TCM DAPI generated message.
	At *RST condition, this value is set to EXFO TCM DAPI.
	Navigation Path: Setup > Test Configurator > OTU > Traces > ODU > TCM > DAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:DAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message for the instrument.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:TCM1:DAPI:B EXFO1
	SOUR:DATA:TEL:OTN:ODU3:TCM1:DAPI:B?
	Returns: EXFO1
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B
	SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:OPSPec:B

Description	This command sets the ODUn TCM Operator Specific Generated Message.
	At *RST condition, this value is set to EXFO TCMn OPERATOR SPECIFIC.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > ODUn TCM TTI Traces > TCMn > Operator Specific - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:OPSPec:B <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:TCM1:OPSP:B EXFO TCM1 OPERATOR SPECIFIC
	SOUR:DATA:TEL:OTN:ODU3:TCM1:OPSP:B?
	Returns: EXFO TCM1 OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B
	SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:OPSPec:B ?

Description	This query returns the ODU1f/2f TCM Operator Specific Generated Message.
	At *RST condition, this value is set to EXFO TCMn OPERATOR SPECIFIC.
	Navigation Path: Setup > Test Configurator > OTUn > Traces > ODUn > ODUn TCM TTI Traces > TCMn > Operator Specific - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:OPSPec:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:TCM1:OPSP:B EXFO TCM1 OPERATOR SPECIFIC
	SOUR:DATA:TEL:OTN:ODU3:TCM1:OPSP:B?
	Returns: EXFO TCM1 OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B
	SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B

Description	This command sets the ODU TCM SAPI generated message.
	At *RST condition, this value is set to EXFO TCM SAPI.
	Navigation Path: Setup > Test Configurator > OTU > Traces > ODU > TCM > SAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:TCM1:SAPI:B EXFO
	SOUR:DATA:TEL:OTN:ODU3:TCM1:SAPI:B?
	Returns: EXFO
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:DAPI:B
	SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:DAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B?

Description	This query returns the ODU TCM SAPI generated message.
	At *RST condition, this value is set to EXFO TCM SAPI.
	Navigation Path: Setup > Test Configurator > OTU > Traces > ODU > TCM > SAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:SAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message for the instrument.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:TCM1:SAPI:B EXFO
	SOUR:DATA:TEL:OTN:ODU3:TCM1:SAPI:B?
	Returns: EXFO
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:DAPI:B
	SOURce:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:DAPI:B?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:TTI:OVERwrite:ENABled

Description	This command enables/disables ODU PM Overwrite.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU > Traces > ODU > PM TTI Traces > Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:TTI:OVERwrite:ENABled <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:TTI:OVER:ENAB ON
	SOUR:DATA:TEL:OTN:ODU3:TTI:OVER:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:TTI:OVERwrite:ENABled?

Description	This query returns the status of ODU PM Overwrite.
	At *RST condition, this value is set to OFF.
	Navigation Path: Test > Setup > Test Configurator > OTU > Traces > ODU > PM TTI Traces > Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:TTI:OVERwrite:ENABled?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ODU3:TTI:OVER:ENAB ON
	SOUR:DATA:TEL:OTN:ODU3:TTI:OVER:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled

:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:DAPI:B

Description	This command sets the OTU1e/2e/3e1/3e2 SM DAPI Generated Message.
	At *RST condition, this value is set to EXFO OTU DAPI.
	Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > DAPI Generated Message
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:DAPI:B <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:OTN:OTU3:E1:SM:DAPI:B EXFO OTU DAPI
	SOUR:DATA:TEL:OTN:OTU3:E1:SM:DAPI:B?
	Returns: EXFO OTU DAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B

:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:DAPI:B?

Description	This query returns the OTU1e/2e/3e1/3e2 SM DAPI Generated Message.
	At *RST condition, this value is set to EXFO OTU DAPI.
	Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > DAPI Generated Message
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:DAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:OTU3:E1:SM:DAPI:B EXFO OTU DAPI
	SOUR:DATA:TEL:OTN:OTU3:E1:SM:DAPI:B?
	Returns: EXFO OTU DAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:OPSPec:B

Description	This command sets the OTU1e/2e / OTU3e1/e2 SM Operator Specific generated message.
	At *RST condition, this value is set to EXFO OTU OPERATOR SPECIFIC.
	Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > Operator Specific
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:OPSPec:B <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:OTU3:E1:SM:OPSP:B EXFO OTU OPERATOR SPECIFIC
	SOUR:DATA:TEL:OTN:OTU3:E1:SM:OPSP:B?
	Returns: EXFO OTU OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B

:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:OPSPec:B?

Description	This query returns the OTU1e/2e / OTU3e1/e2 SM Operator Specific generated message.
	At *RST condition, this value is set to EXFO OTU OPERATOR SPECIFIC.
	Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > Operator Specific
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:OPSPec:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:OTU3:E1:SM:OPSP:B EXFO OTU OPERATOR SPECIFIC
	SOUR:DATA:TEL:OTN:OTU3:E1:SM:OPSP:B?
	Returns: EXFO OTU OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:OVERwrite:ENABled

Description	This command enables/disables OTU1e/2e / OTU3e1/e2 SM Overwrite.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > Overwrite
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:OVERwrite:ENABled <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:OTU3:E1:SM:OVER:ENAB ON
	SOUR:DATA:TEL:OTN:OTU3:E1:SM:OVER:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:TTI:OVERwrite:ENABled?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:OVERwrite:ENABled?

Description	This query returns the status of OTU1e/2e / OTU3e1/e2 SM Overwrite
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > Overwrite
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:OVERwrite:ENABled?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:OTU3:E1:SM:OVER:ENAB ON
	SOUR:DATA:TEL:OTN:OTU3:E1:SM:OVER:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:TTI:OVERwrite:ENABled

:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B

Description	This command sets the OTU1e/2e / OTU3e1/e2 SM SAPI generated message.
	At *RST condition, this value is set to EXFO OTU SAPI.
	Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > SAPI Generated Message
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:OTN:OTU3:E1:SM:SAPI:B EXFO OTU SAPI
	SOUR:DATA:TEL:OTN:OTU3:E1:SM:SAPI:B?
	Returns: EXFO OTU SAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:DAPI:B

:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B?

Description	This query returns the OTU1e/2e / OTU3e1/e2 SM SAPI generated message.
	At *RST condition, this value is set to EXFO OTU SAPI.
	Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Traces > OTU1e/2e / OTU3e1/e2 > SM TTI Traces > SAPI Generated Message
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:OTU3:E1:SM:SAPI:B EXFO OTU SAPI
	SOUR:DATA:TEL:OTN:OTU3:E1:SM:SAPI:B?
	Returns: EXFO OTU SAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:DAPI:B?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:DAPI:B

Description	This command sets the OTU1f/2f SM DAPI Generated Message.
	At *RST condition, this value is set to EXFO OTU DAPI.
	Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > DAPI Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:DAPI:B <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:OTU1:F:SM:DAPI:B EXFO OTU DAPI
	SOUR:DATA:TEL:OTN:OTU1:F:SM:DAPI:B?
	Returns: EXFO OTU DAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:DAPI:B?

Description	This query returns the OTU1f/2f SM DAPI Generated Message.
	At *RST condition, this value is set to EXFO OTU DAPI.
	Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > DAPI Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:DAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:OTU1:F:SM:DAPI:B EXFO OTU DAPI
	SOUR:DATA:TEL:OTN:OTU1:F:SM:DAPI:B?
	Returns: EXFO OTU DAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B

:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:OPSPec:B

Description	This command sets the OTU1f/2f SM Operator Specific generated message.
	At *RST condition, this value is set to EXFO OTU OPERATOR SPECIFIC.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > SM TTI Traces > Operator Specific - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:OPSPec:B <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:OTU1:F:SM:OPSPec:B EXFO OTU OPERATOR SPECIFIC
	SOUR:DATA:TEL:OTN:OTU1:F:SM:OPSPec:B?
	Returns: EXFO OTU OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:OPSPec:B?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:OPSPec:B?

Description	This query returns the OTU1f/2f SM Operator Specific generated message.
	At *RST condition, this value is set to EXFO OTU OPERATOR SPECIFIC.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > SM TTI Traces > Operator Specific - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:OPSPec:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:OTU1:F:SM:OPSP:B EXFO OTU OPERATOR SPECIFIC
	SOUR:DATA:TEL:OTN:OTU1:F:SM:OPSP:B?
	Returns: EXFO OTU OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:OPSPec:B

:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:OVERwrite:ENABled

Description	This command enables/disables OTU1f/2f SM Overwrite.
	At *RST condition, this value is set to OFF.
	Navigation Path: Test > Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > SM TTI Traces > Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:OVERwrite:ENABled <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:OTU3:E1:SM:OVER:ENAB ON
	SOUR:DATA:TEL:OTN:OTU3:E1:SM:OVER:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:TTI:OVERwrite:ENABled?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:OVERwrite:ENABled?

Description	This query returns the status of OTU1f/2f SM Overwrite.
	At *RST condition, this value is set to OFF.
	Navigation Path: Test > Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > SM TTI Traces > Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:OVERwrite:ENABled?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:OTU3:E1:SM:OVER:ENAB ON
	SOUR:DATA:TEL:OTN:OTU3:E1:SM:OVER:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:TTI:OVERwrite:ENABled

:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:SAPI:B

Description	This command sets the OTU1f/2f SM SAPI generated message.
	At *RST condition, this value is set to EXFO OTU SAPI.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > SM TTI Traces > SAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:SAPI:B <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:OTN:OTU1:F:SM:SAPI:B EXFO OTU SAPI
	SOUR:DATA:TEL:OTN:OTU1:F:SM:SAPI:B?
	Returns: EXFO OTU SAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:SAPI:B?

Description	This query returns the OTU1f/2f SM SAPI generated message.
	At *RST condition, this value is set to EXFO OTU SAPI.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > Traces > OTU1f/2f > SM TTI Traces > SAPI - Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:F:SM:SAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message.
Example(s)	SOUR:DATA:TEL:OTN:OTU1:F:SM:SAPI:B EXFO OTU SAPI
	SOUR:DATA:TEL:OTN:OTU1:F:SM:SAPI:B?
	Returns: EXFO OTU SAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SM:SAPI:B

:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:DAPI:B[1..n]

Description	This command sets the OTU SM DAPI Generated Message.
	At *RST condition, this value is set to EXFO OTU DAPI.
	Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > DAPI Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:DAPI:B[1..n] <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:OTU3:SM:DAPI:B16 EXFO OTU DAPI
	SOUR:DATA:TEL:OTN:OTU3:SM:DAPI:B16?
	Returns: EXFO OTU DAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B16
	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B16?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:DAPI:B[1..n]?

Description	This query returns the OTU SM DAPI Generated Message.
	At *RST condition, this value is set to EXFO OTU DAPI.
	Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > DAPI Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:DAPI:B[1..n]?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message for the instrument.
Example(s)	SOUR:DATA:TEL:OTN:OTU3:SM:DAPI:B16 EXFO OTU DAPI
	SOUR:DATA:TEL:OTN:OTU3:SM:DAPI:B16?
	Returns: EXFO OTU DAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B16
	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B16?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B[1..n]

Description	This command sets the OTU SM Operator Specific generated message.
	At *RST condition, this value is set to EXFO OTU OPERATOR SPECIFIC.
	Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > Operator Specific
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B[1..n] <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:OTU3:SM:OPSP:B32 EXFO OTU OPERATOR SPECIFIC
	SOUR:DATA:TEL:OTN:OTU3:SM:OPSP:B32?
	Returns: EXFO OTU OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B16
	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B16?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B[1..n]?

Description	This query returns the OTU SM Operator Specific generated message.
	At *RST condition, this value is set to EXFO OTU OPERATOR SPECIFIC.
	Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > Operator Specific
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OPSPec:B[1..n]?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message for the instrument.
Example(s)	SOUR:DATA:TEL:OTN:OTU3:SM:OPSP:B32 EXFO OTU OPERATOR SPECIFIC
	SOUR:DATA:TEL:OTN:OTU3:SM:OPSP:B32?
	Returns: EXFO OTU OPERATOR SPECIFIC
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B16
	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B16?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled

Description	This command enables/disables OTU SM Overwrite.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:OTN:OTU3:SM:OVER:ENAB ON
	SOUR:DATA:TEL:OTN:OTU3:SM:OVER:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:TTI:OVERwrite:ENABled?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled?

Description	This query returns the status of OTU SM Overwrite.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:OTU3:SM:OVER:ENAB ON
	SOUR:DATA:TEL:OTN:OTU3:SM:OVER:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:TTI:OVERwrite:ENABled

:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B[1..n]

Description	This command sets the OTU SM SAPI generated message.
	At *RST condition, this value is set to EXFO OTU SAPI.
	Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > SAPI Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B[1..n] <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:OTN:OTU3:SM:SAPI:B16 EXFO OTU SAPI
	SOUR:DATA:TEL:OTN:OTU3:SM:SAPI:B16?
	Returns: EXFO OTU SAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:DAPI:B16
	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:DAPI:B16?

:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B[1..n]?

Description	This query returns the OTU SM SAPI generated message.
	At *RST condition, this value is set to EXFO OTU SAPI.
	Navigation Path: Setup > Test Configurator > OTU > Traces > OTU > SM TTI Traces > SAPI Generated Message
Syntax	:SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:SAPI:B[1..n]?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message for the instrument.
Example(s)	SOUR:DATA:TEL:OTN:OTU3:SM:SAPI:B16 EXFO OTU SAPI
	SOUR:DATA:TEL:OTN:OTU3:SM:SAPI:B16?
	Returns: EXFO OTU SAPI
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:DAPI:B16
	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:DAPI:B16?

FTFL/PT

:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PCODe

Description	This command sets the corresponding expected payload type as hexadecimal code for OTU1e/2e rate.
	At *RST condition, this value is set to 03.
	Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > PT - Code
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PCODe <wsp><Code>
Parameter(s)	**Code**:
	The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the corresponding expected payload type as hexadecimal code.
Response Syntax	<Value>
Example(s)	SENS:DATA:TEL:OTN:OPU1:E:PCOD #H00
	SENS:DATA:TEL:OTN:OPU1:E:PCOD?
	Returns: 00 (the decimal form of #H00)
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe
	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PCODe?

Description	This query returns the corresponding expected payload type as hexadecimal code for OTU1e/2e rate.
	At *RST condition, this value is set to #HFE.
	Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > PT - Code
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PCODe?
Response Syntax	<Code>
Response(s)	**Code**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the corresponding expected payload type code.
Example(s)	SENS:DATA:TEL:OTN:OPU1:E:PCOD #H00
	SENS:DATA:TEL:OTN:OPU1:E:PCOD?
	Returns: 00 (the decimal form of H00)
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe
	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PLM

Description	This command enables/disables the Optical Payload Unit-Payload Label Mismatch (OPU-PLM) alarm analysis for OTU1e/2e rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > PT - OPU-PLM
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PLM <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the OPU-PLM (Optical Payload Unit-Payload Label Mismatch) alarm analysis.
	ON, enables the PLM alarm.
	OFF, disables the PLM alarm.
Response Syntax	<Code>
Example(s)	SENS:DATA:TEL:OTN:OPU1:E:PLM ON
	SENS:DATA:TEL:OTN:OPU1:E:PLM?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe
	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PLM?

Description	This query returns the status of the Optical Payload Unit-Payload Label Mismatch (OPU-PLM) alarm analysis for OTU1e/2e rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > PT - OPU-PLM
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PLM?
Response Syntax	\<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA> element.
	Returns the status of the Optical Payload Unit-Payload Label Mismatch (OPU-PLM) alarm analysis.
	1, PLM alarm analysis is enabled.
	0, PLM alarm analysis is disabled.
Example(s)	SENS:DATA:TEL:OTN:OPU1:E:PLM ON
	SENS:DATA:TEL:OTN:OPU1:E:PLM?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe
	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe

Description	This command sets the expected payload signal type to be generated for OTU1e/2e rate.
	At *RST condition, this value is set to PRBStest.
	Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > PT - Payload Type
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe <wsp><Payload>

:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe

Parameter(s)	Payload:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Sets the expected payload signal type to be generated.

ASYNchronous: Asynchronous CBR mapping

ATM: Asynchronous Transfer Mode

BISYnch: Bit Synchronous

BSNTiming: Bit Stream No Timing

BSTiming: Bit Stream Timing

EXPerimental: Experimental mapping

FC100ODU0: FC-100 into ODU0

FC1200ODU2E: FC-1200 into ODU2e

FC200ODU1: FC-200 into ODU0

FC400: FC-400 into ODUflex

FC800: FC-800 into ODUflex

GFP1: Generic Framing Procedure

GFPEOPU2: GFP mapping into extended OPU2

IBDRMAPPING: IB DDR mapping into ODUflex

IBQDRMAPPING: IB QDR mapping into ODUflex

IBSDRMAPPING: IB SDR mapping into ODUflex

NAVailable: Not Available

NULLtest: NULL Test Signal mapping

OC12STM4ODU0: OC-12/STM-4 into ODU0

OC3STM1ODU0: OC-3/STM-1 into ODU0

ODUODTUJK: ODU Multiplex with ODTUk.ts/ODTUjk

ODUODTUKTSODTUJK: ODU Multiplex with ODTUjk

PCSCODEWORD: PCS Codeword transparent Ethernet

PRBStest: PRBS Test Signal mapping

RFSTandard: Reserved for International Standardization

RPRopriet: Reserved Codes for Proprietary

VCONcate: Virtual Concatenation

:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe

Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:OTN:OPU1:E:PTYP EXP
	SENS:DATA:TEL:OTN:OPU1:E:PTYP?
	Returns: EXPERIMENTAL
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe
	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe?

Description	This query returns the expected payload signal type to be generated for OTU1e/2e rate.
	At *RST condition, this value is set to PRBStest.
	Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > PT - Payload Type
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe?
Response Syntax	<Payload>

:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe?

Response(s)	Payload:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the injected payload signal type to be generated.
	RFSTandard, Reserved for International Standardization is selected.
	EXPerimental, Experimental mapping is selected.
	ASYNchronous, Asynchronous CBR mapping is selected.
	BISYnch, Bit Synchronous CBR mapping as the payload type is selected.
	ATM, ATM mapping is selected.
	GFP1, GFP mapping is selected.
	VCONcate, Virtual Concatenation is selected.
	PCSCTE, PCS Codeword Transparent Ethernet is selected.
	FC1200ODU2E,FC-1200 into ODU2e is selected.
	GFPEOPU2, GFP mapping into extended OPU2 is selected.
	OC3STM1ODU0, OC-3/STM-1 into ODU0 is selected.
	OC12STM4ODU0, OC-12/STM-4 into ODU0 is selected.
	FC100ODU0, FC-100 into ODU0 is selected.
	FC200ODU1, FC-200 into ODU0 is selected.
	FC400, FC-400 into ODUflex is selected.
	FC800, FC-800 into ODUflex is selected.
	BSTiming, Bit Stream with Octet Timing mapping is selected.
	BSNTiming,Bit Stream Without Octet Timing mapping is selected.
	IBDRMAPPING,IB DDR mapping into ODUflex is selected.
	IBSDRMAPPING, IB SDR mapping into ODUflex is selected.
	IBQDRMAPPINGIB QDR mapping into ODUflex is selected.
	ODUODTUKTSODTUJK, ODU Multiplex with ODTUjk is selected.
	ODUODTUJK, ODU Multiplex with ODTUk.ts/ODTUjk as the payload type is selected.
	NAVailable, Not Available is selected.
	RPRopriet, Reserved Codes for Proprietary is selected.
	NULLtest, NULL Test Signal mapping is selected.
	PRBStest, PRBS Test Signal mapping is selected.

:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe?

Example(s)	SENS:DATA:TEL:OTN:OPU1:E:PTYP EXP
	SENS:DATA:TEL:OTN:OPU1:E:PTYP?
	Returns: EXPERIMENTAL
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe
	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PCODe

Description	This command sets the corresponding expected payload type as hexadecimal code for OTU1f/2f rate. At *RST condition, this value is set to 03. Navigation Path: Setup > Test Configurator > OTU1f/2f > FTFL/PT > ODU1f/2f > PT - Code
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PCODe <wsp><Code>
Parameter(s)	**Code**: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the corresponding expected payload type as hexadecimal code.
Response Syntax	<Payload>
Example(s)	SENS:DATA:TEL:OTN:OPU1:F:PCOD #H00 SENS:DATA:TEL:OTN:OPU1:F:PCOD? Returns: 00 (the decimal form of #H00)
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PCODe?

Description	This query returns the corresponding expected payload type as hexadecimal code for OTU1f/2f rate.
	At *RST condition, this value is set to #HFE.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > FTFL/PT > ODU1f/2f > PT - Code
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PCODe?
Response Syntax	<Code>
Response(s)	**Code**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the corresponding expected payload type as decimal code.
	The values are from 0 to 255.
Example(s)	SENS:DATA:TEL:OTN:OPU1:F:PCOD #H00
	SENS:DATA:TEL:OTN:OPU1:F:PCOD?
	Returns: 00 (the decimal form of H00)
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe
	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PLM

Description	This command enables/disables the Optical Payload Unit-Payload Label Mismatch (OPU-PLM) alarm analysis for OTU1f/2f rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > FTFL/PT > ODU1f/2f > PT - OPU-PLM
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PLM <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the OPU-PLM (Optical Payload Unit-Payload Label Mismatch) alarm analysis.
	ON, enables the PLM alarm.
	OFF, disables the PLM alarm.
Response Syntax	<Code>
Example(s)	SENS:DATA:TEL:OTN:OPU1:F:PLM ON
	SENS:DATA:TEL:OTN:OPU1:F:PLM?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe
	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PLM?

Description	This query returns the status of the Optical Payload Unit-Payload Label Mismatch (OPU-PLM) alarm analysis for OTU1f/2f rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > FTFL/PT > ODU1f/2f > PT - OPU-PLM
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PLM?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the Optical Payload Unit-Payload Label Mismatch (OPU-PLM) alarm analysis.
	1, PLM alarm analysis is enabled.
	0, PLM alarm analysis is disabled.
Example(s)	SENS:DATA:TEL:OTN:OPU1:F:PLM ON
	SENS:DATA:TEL:OTN:OPU1:F:PLM?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe
	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe

Description	This command sets the expected payload signal type to be generated for OTU1f/2f rate.
	At *RST condition, this value is set to PRBStest.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > FTFL/PT > ODU1f/2f > PT - Payload Type
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe <wsp><Payload>

:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe

Parameter(s)	Payload:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the expected payload signal type to be generated.
	RFSTandard: Reserved for international standardization
	EXPerimental: Experimental mapping
	ASYNchronous: Asynchronous CBR mapping
	BISYnch: Bit synchronous CBR mapping
	ATM: ATM mapping
	GFP1: GFP Mapping
	VCONcate: Virtual Concatenated signal
	PCSCODEWORD: PCS Codeword transparent Ethernet
	FC1200ODU2E: FC-1200 into ODU2e
	GFPEOPU2: GFP mapping into extended OPU2
	OC3STM1ODU0: OC3/STM-1 into ODU0
	OC12STM4ODU0: OC12/STM-4 into ODU0
	FC100ODU0: FC-100 into ODU0
	FC200ODU1: FC-200 into ODU1
	FC400: FC-400 into ODUflex
	FC800: FC-800 into ODUflex
	BSTiming: Bit stream with octet timing mapping
	BSNTiming: Bit stream without octet timing mapping
	IBDRMAPPING: IB DDR mapping into ODUflex
	IBSDRMAPPING: IB SDR mapping into ODUflex
	IBQDRMAPPING: IB QDR mapping into ODUflex
	ODUODTUJK: ODU multiplex with ODTUjk
	ODUODTUKTSODTUJK: ODU multiplex with ODTUk.ts/ODTUjk
	NAVailable: Not available
	RPRopriet: Reserved codes for proprietary use
	NULLtest: NULL test signal mapping
	PRBStest: PRBS test signal mapping

:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe

Response Syntax	\<Set\>
Example(s)	SENS:DATA:TEL:OTN:OPU1:F:PTYP EXP
	SENS:DATA:TEL:OTN:OPU1:F:PTYP?
	Returns: EXPERIMENTAL
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe
	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe?

Description	This query returns the expected payload signal type to be generated for OTU1f/2f rate.
	At *RST condition, this value is set to PRBStest.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > FTFL/PT > ODU1f/2f > PT - Payload Type
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe?
Response Syntax	<Payload>

:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe?

Response(s)	Payload:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the injected payload signal type to be generated.
	RFSTANDARD, indicates Reserved for international standardization
	EXPERIMENTAL, indicates Experimental mapping
	ASYNCHRONOUS, indicates Asynchronous CBR mapping
	BISYNCH, indicates Bit synchronous CBR mapping
	ATM, indicates ATM mapping
	GFP1, indicates GFP Mapping
	VCONCATE, indicates Virtual Concatenated signal
	PCSCODEWORD, indicates PCS Codeword transparent Ethernet
	FC1200ODU2E, indicates FC-1200 into ODU2e
	GFPEOPU2, indicates GFP mapping into extended OPU2
	OC3STM1ODU0, indicates OC3/STM-1 into ODU0
	OC12STM4ODU0, indicates OC12/STM-4 into ODU0
	FC100ODU0, indicates FC-100 into ODU0
	FC200ODU1, indicates FC-200 into ODU1
	FC400, indicates FC-400 into ODUflex
	FC800, indicates FC-800 into ODUflex
	BSTIMING, indicates Bit stream with octet timing mapping
	BSNTIMING, indicates Bit stream without octet timing mapping
	IBDRMAPPING, indicates IB DDR mapping into ODUflex
	IBSDRMAPPING, indicates IB SDR mapping into ODUflex
	IBQDRMAPPING, indicates IB QDR mapping into ODUflex
	ODUODTUJK, indicates ODU multiplex with ODTUjk
	ODUODTUKTSODTUJK, indicates ODU multiplex with ODTUk.ts/ODTUjk
	NAVAILABLE, indicates Not available
	RPROPRIET, indicates Reserved codes for proprietary use
	NULLTEST, indicates NULL test signal mapping
	PRBSTEST, indicates PRBS test signal mapping

:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe?

Example(s)	SENS:DATA:TEL:OTN:OPU1:F:PTYP EXP
	SENS:DATA:TEL:OTN:OPU1:F:PTYP?
	Returns: EXPERIMENTAL
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe
	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:GOVErwrite?

Description	This query returns if an expected Payload Type has been overwritten on at least one channel for Multi-Channel OTN test.
	At *RST condition, this value is set to OFF.
	Navigation Path: Test > Test Configurator > OTU > PT > ODU > PT - Expected overwritten icon
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:GOVErwrite?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	1: At least one expected Payload Type has been overwritten.
	0: All expected Payload Types are the same as the Global expected Payload Type.
Example(s)	SENS:DATA:TEL:OTN:OPU100:GOVE?
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe
	SENSe:DATA:TELecom:OTN:OPU[1..n]:CHAN
	SENSe:DATA:TELecom:OTN:OPU[1..n]:CHAN?
	SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHA
	SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHA?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe

Description	This command sets the expected Payload Type as hexadecimal code.
	At *RST condition, this value is set to PRBStest.
	Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > PT - Expected Code
	Navigation Path: Results > FTFL/PT > ODU > PT - Expected Code
	In Multi-Channel OTN, when accessing an OPU LO,
	the channel must be set using SENSe:DATA:TELecom:OTN:OPU[1..n]CHANnel.
	The expected Payload Type can also be set for all channels by using SENS:DATA:TEL:OTN:OPU[1..n]:ACHAnnel.
	In FlexO BERT, when accessing an OPU LO,
	the client ID must be set using SENSe:DATA:TELecom:OTN:OPU[1..n]:CLIent
	The expected Payload Type can also be set for all clients by using SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLient
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe <wsp><Code>
Parameter(s)	**Code**:
	The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the corresponding expected Payload Type as hexadecimal code.

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe

Response Syntax	<Set>
Example(s)	OTN BERT:
	SENS:DATA:TEL:OTN:OPU1:PCOD #H00
	SENS:DATA:TEL:OTN:OPU1:PCOD?
	Returns: 0 (the decimal form of #H00)
	For Multi-Channel OTN:
	SENS:DATA:TEL:OTN:OPU100:ACHA ON
	SENS:DATA:TEL:OTN:OPU100:PCOD #H00
	SENS:DATA:TEL:OTN:OPU100:PCOD?
	Returns: 0 (the decimal form of #H00)
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe
	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe?
	SENSe:DATA:TELecom:OTN:OPU[1..n]:CHAN
	SENSe:DATA:TELecom:OTN:OPU[1..n]:CHAN?
	SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHA
	SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHA?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe?

Description	This query returns the expected Payload Type as hexadecimal code.
	At *RST condition, this value is set to PRBStest.
	Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > PT - Expected Code
	Navigation Path: Results > FTFL/PT > ODU > PT- ExpectedCode
	In Multi-Channel OTN, when accessing an OPU LO,
	the channel must be set using SENSe:DATA:TELecom:OTN:OPU[1..n]CHANnel.
	The global expected Payload Code can also be retrieved by using SENS:DATA:TEL:OTN:OPU[1..n]:ACHAnnel.
	In FlexO BERT, when accessing an OPU LO,
	the client ID must be set using SENSe:DATA:TELecom:OTN:OPU[1..n]:CLIent
	The global expected Payload Code can also be retrieved by using SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLient
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe?
Response Syntax	<Code>

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe?

Response(s)	Code:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the corresponding expected Payload Type as decimal code.
	The values are from 0 to 255.
Example(s)	OTN BERT:
	SENS:DATA:TEL:OTN:OPU1:PCOD #H00
	SENS:DATA:TEL:OTN:OPU1:PCOD?
	Returns: 0 (the decimal form of #H00)
	For Multi-Channel OTN:
	SENS:DATA:TEL:OTN:OPU100:ACHA ON
	SENS:DATA:TEL:OTN:OPU100:PCOD #H00
	SENS:DATA:TEL:OTN:OPU100:PCOD?
	Returns: 0 (the decimal form of #H00)
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe
	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe?
	SENSe:DATA:TELecom:OTN:OPU[1..n]:CHAN
	SENSe:DATA:TELecom:OTN:OPU[1..n]:CHAN?
	SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHA
	SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHA?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PLM

Description	This command enables/disables the state of Optical Payload Unit-Payload Label Mismatch (OPU-PLM) alarm analysis for the instrument.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > PT - OPU-PLM
	Navigation Path: Results > FTFL/PT > ODU > PT - OPU-PLM
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:PLM <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the OPU-PLM (Optical Payload Unit-Payload Label Mismatch) alarm analysis.
	ON, enables the PLM alarm.
	OFF, disables the PLM alarm.
Response Syntax	<Code>
Example(s)	OTN BERT:
	SENS:DATA:TEL:OTN:OPU1:PLM ON
	SENS:DATA:TEL:OTN:OPU1:PLM?
	Returns: 1
	For Multi-Channel OTN:
	SENS:DATA:TEL:OTN:OPU100:ACHA ON
	SENS:DATA:TEL:OTN:OPU100:PLM ON
	SENS:DATA:TEL:OTN:OPU100:PLM?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe
	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe?
	SENSe:DATA:TELecom:OTN:OPU[1..n]:CHAN
	SENSe:DATA:TELecom:OTN:OPU[1..n]:CHAN?
	SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHA
	SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHA?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PLM?

Description	This query returns the state of Optical Payload Unit-Payload Label Mismatch (OPU-PLM) alarm analysis for the instrument.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > PT - OPU-PLM
	Navigation Path: Results > FTFL/PT > ODU > PT - OPU-PLM
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:PLM?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the Optical Payload Unit-Payload Label Mismatch (OPU-PLM) alarm analysis.
	1, PLM alarm analysis is enabled.
	0, PLM alarm analysis is disabled.
Example(s)	OTN BERT:
	SENS:DATA:TEL:OTN:OPU1:PLM ON
	SENS:DATA:TEL:OTN:OPU1:PLM?
	Returns: 1
	For Multi-Channel OTN:
	SENS:DATA:TEL:OTN:OPU100:ACHA ON
	SENS:DATA:TEL:OTN:OPU100:PLM ON
	SENS:DATA:TEL:OTN:OPU100:PLM?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe
	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe?
	SENSe:DATA:TELecom:OTN:OPU[1..n]:CHAN
	SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHA

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe

Description	This command sets the expected Payload Type.
	At *RST condition, this value is set to PRBStest.
	Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > PT - Expected Payload Type
	Navigation Path: Results > FTFL/PT > ODU > PT - Expected Payload Type
	In Multi-Channel OTN, when accessing an OPU LO,
	the channel must be set using SENSe:DATA:TELecom:OTN:OPU[1..n]CHANnel.
	The expected Payload Type can also be set for all channels by using SENS:DATA:TEL:OTN:OPU[1..n]:ACHAnnel.
	In FlexO BERT, when accessing an OPU LO,
	the client ID must be set using SENSe:DATA:TELecom:OTN:OPU[1..n]:CLIent
	The expected Payload Type can also be set for all clients by using SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLient
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe <wsp><Payload Type>

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe

Parameter(s)	Payload Type:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Sets the expected Payload Type.

_1485_1001OPU1: (1.485/1.001) Gbit/s SDI mapping into OPU1

_1485OPU1: 1.485 Gbit/s SDI mapping in to OPU1

_200GBASER: 200GBASE-R mapping into OPUflex

_25GBASER: 25GBASE-R mapping into OPUflex

_2970_1001OPUFLEX: (2.970/1.001) Gbit/s SDI mapping into OPUflex

_2970OPUFLEX: 2.970 Gbit/s SDI mapping into OPUflex

_400GBASER: 400GBASE-R mapping into OPUflex

ASYNchronous: Asynchronous CBR mapping

ATM: ATM mapping

BISYnch: Bit synchronous CBR mapping

BSNTiming: Bit stream without octet timing mapping

BSTiming: Bit stream with octet timing mapping

DVBASIOPU0: DVB_ASI mapping into OPU0

EXPerimental: Experimental mapping

FC100ODU0: FC-100 into ODU0

FC1200ODU2E: FC-1200 into ODU2e

FC1600: FC-1600 mapping into OPUflex

FC200ODU1: FC-200 into ODU1

FC3200: FC-3200 mapping into OPUflex

FC400: FC-400 into ODUflex

FC800: FC-800 into ODUflex

FLEXEAWARE: FlexE aware (partial rate) mapping into OPUflex

FLEXECLIENT: FlexE Client mapping into OPUflex

GFP1: GFP Mapping

GFPEOPU2: GFP mapping into extended OPU2

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe

Parameter(s)	
	IBDRMAPPING: IB DDR mapping into ODUflex
	IBQDRMAPPING: IB QDR mapping into ODUflex
	IBSDRMAPPING: IB SDR mapping into ODUflex
	NAVailable: Not available
	NULLtest: NULL test signal mapping
	OC12STM4ODU0: OC12/STM-4 into ODU0
	OC3STM1ODU0: OC3/STM-1 into ODU0
	ODUODTUCNTS: ODU multiplex with ODTUCn.ts
	ODUODTUJK: ODU multiplex with ODTUjk
	ODUODTUKTSODTUJK: ODU multiplex with ODTUk.ts/ODTUjk
	PCSCODEWORD: PCS Codeword transparent Ethernet
	PRBStest: PRBS test signal mapping
	RFSTandard: Reserved for international standardization
	RPRopriet: Reserved codes for proprietary use
	SBCONESCONOPU0: SBCON/ESCON mapping into OPU0
	SDIMAPPING: SDI mapping into OPU0
	VCONcate: Virtual Concatenated signal

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe

Response Syntax	\<Set\>
Example(s)	OTN BERT:
	SENS:DATA:TEL:OTN:OPU1:PTYP EXP
	SENS:DATA:TEL:OTN:OPU1:PTYP?
	Returns: EXPERIMENTAL
	For Multi-Channel OTN:
	SENS:DATA:TEL:OTN:OPU100:ACHA ON
	SENS:DATA:TEL:OTN:OPU100:PTYP EXP
	SENS:DATA:TEL:OTN:OPU100:PTYP?
	Returns: EXPERIMENTAL
	For FlexO BERT:
	SENS:DATA:TEL:OTN:OPU101:ACL ON
	SENS:DATA:TEL:OTN:OPU101:PTYP EXP
	SENS:DATA:TEL:OTN:OPU101:PTYP?
	Returns: EXPERIMENTAL
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe
	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe?
	For Multi-Channel OTN
	SENSe:DATA:TELecom:OTN:OPU[1..n]:CHANnel
	SENSe:DATA:TELecom:OTN:OPU[1..n]:CHANnel?
	SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHAnnel
	SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHAnnel?
	For FlexO BERT:
	SENSe:DATA:TELecom:OTN:OPU[1..n]:CLIent
	SENSe:DATA:TELecom:OTN:OPU[1..n]:CLIent?
	SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLient
	SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLient?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe?

Description	This query returns the expected Payload Type.
	At *RST condition, this value is set to PRBStest.
	Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > PT - Expected Payload Type
	Navigation Path: Results > FTFL/PT > ODU > PT - Expected Payload Type
	In Multi-Channel OTN, when accessing an OPU LO,
	the channel must be set using SENSe:DATA:TELecom:OTN:OPU[1..n]CHANnel.
	The global expected Payload Type can also be retrieved by using SENS:DATA:TEL:OTN:OPU[1..n]:ACHAnnel.
	In FlexO BERT, when accessing an OPU LO,
	the client ID must be set using SENSe:DATA:TELecom:OTN:OPU[1..n]:CLIent.
	The global expected Payload Type can also be retrieved by using SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLient.
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe?
Response Syntax	<Payload Type>

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe?

Response(s)	Payload Type: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the expected Payload Type. _1485_1001OPU1: (1.485/1.001) Gbit/s SDI mapping into OPU1 _1485OPU1: 1.485 Gbit/s SDI mapping in to OPU1 _200GBASER: 200GBASE-R mapping into OPUflex _25GBASER: 25GBASE-R mapping into OPUflex _2970_1001OPUFLEX: (2.970/1.001) Gbit/s SDI mapping into OPUflex _2970OPUFLEX: 2.970 Gbit/s SDI mapping into OPUflex _400GBASER: 400GBASE-R mapping into OPUflex ASYNchronous: Asynchronous CBR mapping ATM: ATM mapping BISYnch: Bit synchronous CBR mapping BSNTiming: Bit stream without octet timing mapping BSTiming: Bit stream with octet timing mapping DVBASIOPU0: DVB_ASI mapping into OPU0 EXPerimental: Experimental mapping FC100ODU0: FC-100 into ODU0 FC1200ODU2E: FC-1200 into ODU2e FC1600: FC-1600 mapping into OPUflex FC200ODU1: FC-200 into ODU1 FC3200: FC-3200 mapping into OPUflex FC400: FC-400 into ODUflex FC800: FC-800 into ODUflex FLEXEAWARE: FlexE aware (partial rate) mapping into OPUflex FLEXECLIENT: FlexE Client mapping into OPUflex GFP1: GFP Mapping GFPEOPU2: GFP mapping into extended OPU2

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe?

Response(s)	IBDRMAPPING: IB DDR mapping into ODUflex
	IBQDRMAPPING: IB QDR mapping into ODUflex
	IBSDRMAPPING: IB SDR mapping into ODUflex
	NAVailable: Not available
	NULLtest: NULL test signal mapping
	OC12STM4ODU0: OC12/STM-4 into ODU0
	OC3STM1ODU0: OC3/STM-1 into ODU0
	ODUODTUCNTS: ODU multiplex with ODTUCn.ts
	ODUODTUJK: ODU multiplex with ODTUjk
	ODUODTUKTSODTUJK: ODU multiplex with ODTUk.ts/ODTUjk
	PCSCODEWORD: PCS Codeword transparent Ethernet
	PRBStest: PRBS test signal mapping
	RFSTandard: Reserved for international standardization
	RPRopriet: Reserved codes for proprietary use
	SBCONESCONOPU0: SBCON/ESCON mapping into OPU0
	SDIMAPPING: SDI mapping into OPU0
	VCONcate: Virtual Concatenated signal
Example(s)	OTN BERT:
	SENS:DATA:TEL:OTN:OPU1:PTYP EXP
	SENS:DATA:TEL:OTN:OPU1:PTYP?
	Returns: EXPERIMENTAL
	For Multi-Channel OTN:
	SENS:DATA:TEL:OTN:OPU100:ACHA ON
	SENS:DATA:TEL:OTN:OPU100:PTYP EXP
	SENS:DATA:TEL:OTN:OPU100:PTYP?
	Returns: EXPERIMENTAL
	For FlexO BERT:
	SENS:DATA:TEL:OTN:OPU101:ACL ON
	SENS:DATA:TEL:OTN:OPU101PTYP EXP
	SENS:DATA:TEL:OTN:OPU101:PTYP?
	Returns: EXPERIMENTAL

:SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe?

See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe
	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe?
	For Multi-Channel OTN:
	SENSe:DATA:TELecom:OTN:OPU[1..n]:CHANnel
	SENSe:DATA:TELecom:OTN:OPU[1..n]:CHANnel?
	SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHAnnel
	SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHAnnel?
	For FlexO BERT:
	SENSe:DATA:TELecom:OTN:OPU[1..n]:CLIent
	SENSe:DATA:TELecom:OTN:OPU[1..n]:CLIent?
	SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLientl
	SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLientl?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:CODE

Description	This command sets the FTFL Fault Indication code to be generated for OTU1e/2e / OTU3e1/E2 rate.
	At *RST condition, this value is set to #H00.
	Navigation Path: Setup > Test Configurator > OTU3e(1/2) > FTFL/PT > ODU1e/2e / ODU3e1/E2 > FTFL - Code
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:CODE <wsp><Ftfl>, <Code>
Parameter(s)	**Ftfl**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the CONFig of the forward and backward ODU Fault Type Fault Location (FTFL).
	FORWard, sets the Forward CONFig.
	BACKward, sets the Backward CONFig.
	Code:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the FTFL Fault Indication Code to be generated.
Response Syntax	<Payload Type>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:CODE FORW,#H01
	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:CODE? FORW
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:CODE?

Description	This query returns the FTFL Fault Indication code to be generated for OTU1e/2e / OTU3e1/E2 rate.
	At *RST condition, this value is set to #H00.
	Navigation Path: Setup > Test Configurator > OTU3e(1/2) > FTFL/PT > ODU1e/2e / ODU3e1/E2 > FTFL - Code
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:CODE? <wsp><Ftfl>
Parameter(s)	**Ftfl**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the CONFig of the forward and backward ODU Fault Type Fault Location (FTFL).
	FORWard, sets the Forward CONFig.
	BACKward, sets the Backward CONFig.
Response Syntax	<Code>
Response(s)	**Code**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the selection of the Fault Type Fault Location (FTFL) fault indication code to be generated.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:CODE FORW,#H01
	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:CODE? FORW
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:IDENtifier

Description	This command sets the FTFL Operator Identifier to be generated for OTU1e/2e / OTU3e1/E2 rate.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > OTU3e(1/2) > FTFL/PT > ODU1e/2e / ODU3e1/E2 > FTFL - Operator Identifier
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:IDENtifier <wsp><Ftfl>, <Identifier>
Parameter(s)	**Ftfl**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the CONFig of the forward and backward ODU Fault Type Fault Location (FTFL).
	FORWard, sets the Forward CONFig.
	BACKward, sets the Backward CONFig.
	Identifier:
	The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the operator identifier to be generated.
Response Syntax	<Code>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:IDEN FORW,exfo
	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:IDEN? FORW
	Returns: exfo
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:IDENtifier?

Description	This query returns the FTFL Operator Identifier to be generated for OTU1e/2e / OTU3e1/E2 rate.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > OTU3e(1/2) > FTFL/PT > ODU1e/2e / ODU3e1/E2 > FTFL - Operator Identifier
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:IDENtifier? <wsp><Ftfl>
Parameter(s)	**Ftfl**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the CONFig of the forward and backward ODU Fault Type Fault Location (FTFL).
	FORWard, sets the Forward CONFig.
	BACKward, sets the Backward CONFig.
Response Syntax	<Identifier>
Response(s)	**Identifier**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the value of the Fault Type Fault Location (FTFL) Operator Identifier (bytes 1 to 9 for forward, byte 129 to 137 for backward) to be generated.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:IDEN FORW,exfo
	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:IDEN? FORW
	Returns: exfo
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication

Description	This command sets the FTFL Fault Indication message to be generated for OTU1e/2e / OTU3e1/E2 rate.
	At *RST condition, this value is set to NFAult.
	Navigation Path: Setup > Test Configurator > OTU3e(1/2) > FTFL/PT > ODU1e/2e / ODU3e1/E2 > FTFL - Fault Indication
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication <wsp><Ftfl>, <Indication>
Parameter(s)	**Ftfl**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the CONFig of the forward and backward ODU Fault Type Fault Location (FTFL).
	FORWard, sets the Forward CONFig.
	BACKward, sets the Backward CONFig.
	Indication:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the FTFL Fault Indication message to be generated.
	NFAult: No Fault
	RESERVED: Reserved
	SFAil: Signal Fail
	SDEgraDe: Signal Degraded
Response Syntax	<Identifier>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:IND FORW,SFA
	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:IND? FORW
	Returns: SFAIL
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:INDicati on?

Description	This query returns the FTFL Fault Indication message to be generated for OTU1e/2e / OTU3e1/E2 rate.
	At *RST condition, this value is set to NFAult.
	Navigation Path: Setup > Test Configurator > OTU3e(1/2) > FTFL/PT > ODU1e/2e / ODU3e1/E2 > FTFL - Fault Indication
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication? <wsp><Ftfl>
Parameter(s)	**Ftfl**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the CONFig of the forward and backward ODU Fault Type Fault Location (FTFL).
	FORWard, sets the Forward CONFig.
	BACKward, sets the Backward CONFig.
Response Syntax	<Indication>
Response(s)	**Indication**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the FTFL Fault Indication message to be generated.
	NFAULT, No Fault (NFAULT) is selected as FTFL Fault Indication message.
	SFAIL, Signal Fail (SFAIL) is selected as FTFL Fault Indication message.
	SDEGRADE, Signal Degraded (SDEGRADE) is selected as FTFL Fault Indication message.
	RESERVED, Reserved is selected as FTFL Fault Indication message.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:IND FORW,SFA
	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:IND? FORW
	Returns: SFAIL
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:OPSPec

Description	This command sets the FTFL Operator Specific to be generated for OTU1e/2e / OTU3e1/E2 rate.
	At *RST condition, this value is set to EXFO ODU OPERATOR SPECIFIC.
	Navigation Path: Setup > Test Configurator > OTU3e(1/2) > FTFL/PT > ODU1e/2e / ODU3e1/E2 > FTFL - Operator Specific
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:OPSPec <wsp><Ftfl>, <Specific>
Parameter(s)	**Ftfl**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the CONFig of the forward and backward ODU Fault Type Fault Location (FTFL).
	FORWard, sets the Forward CONFig.
	BACKward, sets the Backward CONFig.
	Specific:
	The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the operator specific to be generated.
Response Syntax	<Indication>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:OPSP FORW,exfo
	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:OPSP? FORW
	Returns: exfo
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OPSPec?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:OPSPec ?

Description	This query returns the FTFL Operator Specific to be generated for OTU1e/2e / OTU3e1/E2 rate.
	At *RST condition, this value is set to EXFO ODU OPERATOR SPECIFIC.
	Navigation Path: Setup > Test Configurator > OTU3e(1/2) > FTFL/PT > ODU1e/2e / ODU3e1/E2 > FTFL - Operator Specific
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:OPSPec? <wsp><Ftfl>
Parameter(s)	**Ftfl**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the CONFig of the forward and backward ODU Fault Type Fault Location (FTFL).
	FORWard, sets the Forward CONFig.
	BACKward, sets the Backward CONFig.
Response Syntax	<Specific>
Response(s)	**Specific**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the value of operator specific (bytes 10 to 127 for forward, byte 138 to 255 for backward) to be generated.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:OPSP FORW,exfo
	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:OPSP? FORW
	Returns: exfo
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OPSPec

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:OVERwrite:ENABled

Description	This command enables/disables the Fault Type Fault Location (FTFL) Overwrite feature for OTU1e/2e / OTU3e1/E2 rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU1e/2e / ODU3e1/e2 > FTFL - Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:OVERwrite:ENABled <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Specific>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:OVER:ENAB ON
	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:OVER:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:OVERwrite:ENABled?

Description	This query returns the status of Fault Type Fault Location (FTFL) Overwrite feature for OTU1e/2e / OTU3e1/E2 rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU1e/2e / ODU3e1/e2 > FTFL - Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:OVERwrite:ENABled?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:OVER:ENAB ON
	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:OVER:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:CODE

Description	This command sets the FTFL Fault Indication code to be generated for OTU1f/2f rate.
	At *RST condition, this value is set to #H00.
	Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > FTFL - Code
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:CODE <wsp><Ftfl>, <Code>
Parameter(s)	**Ftfl**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the CONFig of the forward and backward ODU Fault Type Fault Location (FTFL).
	FORWard, sets the Forward CONFig.
	BACKward, sets the Backward CONFig.
	Code:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the FTFL Fault Indication Code to be generated.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:FTFL:CODE FORW,#H01
	SOUR:DATA:TEL:OTN:ODU1:F:FTFL:CODE? FORW
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:CODE?

Description	This query returns the FTFL Fault Indication code to be generated for OTU1f/2f rate.
	At *RST condition, this value is set to #H00.
	Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > FTFL - Code
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:CODE? <wsp><Ftfl>
Parameter(s)	**Ftfl**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the CONFig of the forward and backward ODU Fault Type Fault Location (FTFL).
	FORWard, sets the Forward CONFig.
	BACKward, sets the Backward CONFig.
Response Syntax	<Code>
Response(s)	**Code**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the selection of the Fault Type Fault Location (FTFL) fault indication code to be generated.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:FTFL:CODE FORW,#H01
	SOUR:DATA:TEL:OTN:ODU1:F:FTFL:CODE? FORW
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:IDENtifier

Description	This command sets the FTFL Operator Identifier to be generated for OTU1f/2f rate.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > FTFL - Operator Identifier
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:IDENtifier <wsp><Ftfl>, <Identifier>
Parameter(s)	**Ftfl**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the CONFig of the forward and backward ODU Fault Type Fault Location (FTFL).
	FORWard, sets the Forward CONFig.
	BACKward, sets the Backward CONFig.
	Identifier:
	The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the operator identifier to be generated.
Response Syntax	<Code>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:FTFL:IDEN FORW,exfo
	SOUR:DATA:TEL:OTN:ODU1:F:FTFL:IDEN? FORW
	Returns: exfo
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:IDENtifier?

Description	This query returns the FTFL Operator Identifier to be generated for OTU1f/2f rate.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > FTFL - Operator Identifier
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:IDENtifier? <wsp><Ftfl>
Parameter(s)	**Ftfl**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the CONFig of the forward and backward ODU Fault Type Fault Location (FTFL).
	FORWard, sets the Forward CONFig.
	BACKward, sets the Backward CONFig.
Response Syntax	<Identifier>
Response(s)	**Identifier**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the value of the Fault Type Fault Location (FTFL) Operator Identifier (bytes 1 to 9 for forward, byte 129 to 137 for backward) to be generated.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:FTFL:IDEN FORW,exfo
	SOUR:DATA:TEL:OTN:ODU1:F:FTFL:IDEN? FORW
	Returns: exfo
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:INDication

Description	This command sets the FTFL Fault Indication message to be generated for OTU1f/2f rate.
	At *RST condition, this value is set to NFAult.
	Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > FTFL - Fault Indication
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:INDication <wsp><Ftfl>, <Indication>
Parameter(s)	**Ftfl**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the CONFig of the forward and backward ODU Fault Type Fault Location (FTFL).
	FORWard, sets the Forward CONFig.
	BACKward, sets the Backward CONFig.
	Indication:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the FTFL Fault Indication message to be generated.
	NFAult: No Fault
	SFAil: Signal Fail
	SDED: Signal Degraded
	RESERVED: Reserved
Response Syntax	<Identifier>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:FTFL:IND FORW,SFA
	SOUR:DATA:TEL:OTN:ODU1:F:FTFL:IND? FORW
	Returns: SFAIL
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:INDication?

Description	This query returns the FTFL Fault Indication message to be generated for OTU1f/2f rate.
	At *RST condition, this value is set to NFAult.
	Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > FTFL - Fault Indication
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:INDication? <wsp><Ftfl>
Parameter(s)	**Ftfl**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the CONFig of the forward and backward ODU Fault Type Fault Location (FTFL).
	FORWard, sets the Forward CONFig.
	BACKward, sets the Backward CONFig.
Response Syntax	<Indication>
Response(s)	**Indication**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the FTFL Fault Indication message to be generated.
	NFAULT, No Fault (NFAULT) is selected as FTFL Fault Indication message.
	SFAIL, Signal Fail (SFAIL) is selected as FTFL Fault Indication message.
	SDEGRADE, Signal Degraded (SDEGRADE) is selected as FTFL Fault Indication message.
	RESERVED, Reserved is selected as FTFL Fault Indication message.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:FTFL:IND FORW,SFA
	SOUR:DATA:TEL:OTN:ODU1:F:FTFL:IND? FORW
	Returns: SFAIL
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:OPSPec

Description	This command sets the FTFL Operator Specific to be generated for OTU1f/2f rate.
	At *RST condition, this value is set to EXFO ODU OPERATOR SPECIFIC.
	Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > FTFL - Operator Specific
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:OPSPec <wsp><Ftfl>, <Specific>
Parameter(s)	**Ftfl**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the CONFig of the forward and backward ODU Fault Type Fault Location (FTFL).
	FORWard, sets the Forward CONFig.
	BACKward, sets the Backward CONFig.
	Specific:
	The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the operator specific to be generated.
Response Syntax	<Indication>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:FTFL:OPSP FORW,exfo
	SOUR:DATA:TEL:OTN:ODU1:F:FTFL:OPSP? FORW
	Returns: exfo
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OPSPec?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:OPSPec?

Description	This query returns the FTFL Operator Specific to be generated for OTU1f/2f rate.
	At *RST condition, this value is set to EXFO ODU OPERATOR SPECIFIC.
	Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > FTFL - Operator Specific
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:OPSPec? <wsp><Ftfl>
Parameter(s)	**Ftfl**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the CONFig of the forward and backward ODU Fault Type Fault Location (FTFL).
	FORWard, sets the Forward CONFig.
	BACKward, sets the Backward CONFig.
Response Syntax	<Specific>
Response(s)	**Specific**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the value of operator specific (bytes 10 to 127 for forward, byte 138 to 255 for backward) to be generated.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:FTFL:OPSP FORW,exfo
	SOUR:DATA:TEL:OTN:ODU1:F:FTFL:OPSP? FORW
	Returns: exfo
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OPSPec

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:OVERwrite:ENABled

Description	This command enables/disables the Fault Type Fault Location (FTFL) Overwrite feature for OTU1f/2f rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU1e/2e / ODU3e1/E2 > FTFL - Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:OVERwrite:ENABled <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Specific>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:OVER:ENAB ON
	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:OVER:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:OVERwrite:ENABled?

Description	This query returns the status of Fault Type Fault Location (FTFL) Overwrite feature for OTU1f/2f rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU1e/2e / ODU3e1/E2 > FTFL - Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:OVERwrite:ENABled?
Response Syntax	\<Status\>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA\> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:OVER:ENAB ON
	SOUR:DATA:TEL:OTN:ODU3:E1:FTFL:OVER:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled

:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE

Description	This command sets the selection of the Fault Type Fault Location (FTFL) Fault Indication code to be generated.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > FTFL - Code
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE <wsp><Ftfl>, <Code>
Parameter(s)	**Ftfl**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the CONFig of the forward and backward ODU (Optical Channel Data Unit) FTFL (Fault Type Fault Location) to be generated.
	FORWard, sets the Forward CONFig.
	BACKward, sets the Backward CONFig.
	Code:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the selection of the Fault Type Fault Location (FTFL) fault indicator code to be generated.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:FTFL:CODE FORW,#H01
	SOUR:DATA:TEL:OTN:ODU1:FTFL:CODE? FORW
	Returns: 1 (the decimal form of #01H)
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication
	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE?

Description	This query returns the selection of the Fault Type Fault Location (FTFL) Fault Indication code to be generated. At *RST condition, this value is set to 0. Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > FTFL - Code
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE? <wsp><Ftfl>
Parameter(s)	**Ftfl**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the CONFig of the forward and backward ODU (Optical Channel Data Unit) FTFL (Fault Type Fault Location) to be generated. FORWard, sets the Forward CONFig. BACKward, sets the Backward CONFig.
Response Syntax	<Code>
Response(s)	**Code**: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the selection of the Fault Type Fault Location (FTFL) fault indicator code to be generated.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:FTFL:CODE FORW,#H01 SOUR:DATA:TEL:OTN:ODU1:FTFL:CODE? FORW Returns: 1 (the decimal form of #01H)
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier

Description	This command sets the Fault Type Fault Location (FTFL) Operator Identifier to be generated.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > FTFL - Operator Identifier
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier <wsp><Ftfl>, <Identifier>
Parameter(s)	**Ftfl**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the CONFig of the forward and backward ODU (Optical Channel Data Unit) FTFL (Fault Type Fault Location) to be generated.
	FORWard, sets the Forward CONFig.
	BACKward, sets the Backward CONFig.
	Identifier:
	The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the operator identifier to be generated. A maximum of 9 characters are allowed.
Response Syntax	<Code>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:FTFL:IDEN FORW,exfo
	SOUR:DATA:TEL:OTN:ODU1:FTFL:IDEN? FORW
	Returns: exfo
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication
	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier?

Description	This query returns the Fault Type Fault Location (FTFL) Operator Identifier to be generated.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > FTFL - Operator Identifier
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier? <wsp><Ftfl>
Parameter(s)	**Ftfl**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the CONFig of the forward and backward ODU (Optical Channel Data Unit) FTFL (Fault Type Fault Location) to be generated.
	FORWard, sets the Forward CONFig.
	BACKward, sets the Backward CONFig.
Response Syntax	<Identifier>
Response(s)	**Identifier**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the value of the Fault Type Fault Location (FTFL) Operator Identifier (bytes 1 to 9 for forward, byte 129 to 137 for backward) to be generated.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:FTFL:IDEN FORW,exfo
	SOUR:DATA:TEL:OTN:ODU1:FTFL:IDEN? FORW
	Returns: exfo
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication
	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication

Description	This command sets the selection of the Fault Type Fault Location (FTFL) Fault Indication message to be generated.
	At *RST condition, this value is set to NFAult.
	Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > FTFL - Fault Indication
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication <wsp><Ftfl>, <Indication>
Parameter(s)	**Ftfl**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the CONFig of the forward and backward ODU (Optical Channel Data Unit) FTFL (Fault Type Fault Location) to be generated.
	FORWard, sets the Forward CONFig.
	BACKward, sets the Backward CONFig.
	Indication:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the fault indication of the Fault Type Fault Location (FTFL) fault indicator message to be generated.
	NFAult: No Fault
	SFAil: Signal Fail
	SDED: Signal Degraded
	RESERVED: Reserved
Response Syntax	<Identifier>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:FTFL:IND FORW,SFA
	SOUR:DATA:TEL:OTN:ODU1:FTFL:IND? FORW
	Returns: SFAIL
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier
	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication?

Description	This query returns the selection of the Fault Type Fault Location (FTFL) Fault Indication message to be generated.
	At *RST condition, this value is set to NFAult.
	Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > FTFL - Fault Indication
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication? <wsp><Ftfl>
Parameter(s)	**Ftfl**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the CONFig of the forward and backward ODU (Optical Channel Data Unit) FTFL (Fault Type Fault Location) to be generated.
	FORWard, sets the Forward CONFig.
	BACKward, sets the Backward CONFig.
Response Syntax	<Indication>
Response(s)	**Indication**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Fault Type Fault Location (FTFL) Fault Indication message to be generated.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:FTFL:IND FORW,SFA
	SOUR:DATA:TEL:OTN:ODU1:FTFL:IND? FORW
	Returns: SFAIL
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier
	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OPSPec

Description	This command sets the Fault Type Fault Location (FTFL) Operator Specific to be generated.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > FTFL - Operator Specific
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OPSPec <wsp><Ftfl>, <Specific>
Parameter(s)	**Ftfl**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the CONFig of the forward and backward ODU (Optical Channel Data Unit) FTFL (Fault Type Fault Location) to be generated.
	FORWard, sets the Forward CONFig.
	BACKward, sets the Backward CONFig.
	Specific:
	The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the operator specific to be generated. A maximum of 118 characters are allowed.
Response Syntax	<Indication>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:FTFL:OPSP FORW,exfo
	SOUR:DATA:TEL:OTN:ODU1:FTFL:OPSP? FORW
	Returns: exfo
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication
	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OPSPec?

Description	This query returns the Fault Type Fault Location (FTFL) Operator Specific to be generated.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > FTFL - Opertor Specific
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OPSPec? <wsp><Ftfl>
Parameter(s)	**Ftfl**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the CONFig of the forward and backward ODU FTFL (Fault Type Fault Location) to be generated.
	FORWard, sets the Forward CONFig.
	BACKward, sets the Backward CONFig.
Response Syntax	<Specific>
Response(s)	**Specific**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the value of operator specific (bytes 10 to 127 for forward, byte 138 to 255 for backward) to be generated.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:FTFL:OPSP FORW,exfo
	SOUR:DATA:TEL:OTN:ODU1:FTFL:OPSP? FORW
	Returns: exfo
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OPSPec

:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OVERwrite:ENABled

Description	This command enables/disables the Fault Type Fault Location (FTFL) Overwrite feature.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > FTFL - Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OVERwrite:ENABled <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Specific>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:FTFL:OVER:ENAB ON
	SOUR:DATA:TEL:OTN:ODU3:FTFL:OVER:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OVERwrite:ENABled?

Description	This query returns the status of Fault Type Fault Location (FTFL) Overwrite feature.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > FTFL - Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OVERwrite:ENABled?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ODU3:FTFL:OVER:ENAB ON
	SOUR:DATA:TEL:OTN:ODU3:FTFL:OVER:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SM:OVERwrite:ENABled

:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PCODe

Description	This command sets the corresponding injected payload type as hexadecimal code for OTU1e/2e rate. At *RST condition, this value is set to #H00. Navigation Path: Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > PT - Code
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PCODe <wsp><Code>
Parameter(s)	**Code**: The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the corresponding injected payload type in hexadecimal code. The values are 00 to FF.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:OTN:OPU1:E:PCOD #H00 SOUR:DATA:TEL:OTN:OPU1:E:PCOD? Returns: 00 (the decimal form of H00)
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PCODe?

Description	This query returns the corresponding injected payload type as hexadecimal code for OTU1e/2e rate.
	At *RST condition, this value is set to #H03.
	Navigation Path: Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > PT - Code
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PCODe?
Response Syntax	<Code>
Response(s)	**Code**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the corresponding injected payload type as decimal code.
	The values are 00 to 255.
Example(s)	SOUR:DATA:TEL:OTN:OPU1:E:PCOD #H00
	SOUR:DATA:TEL:OTN:OPU1:E:PCOD?
	Returns: 00 (the decimal form of H00)
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe
	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe

Description	This command sets the injected payload signal type to be generated for OTU1e/2e rate.
	At *RST condition, this value is set to PRBStest.
	Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > PT - Payload Type
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe <wsp><Payload>

:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe

Parameter(s)

Payload:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Sets the expected payload signal type to be generated.

RFSTandard: the Reserved for International Standardization

EXPerimental the Experimental mapping.

ASYNchronous: the Asynchronous CBR mapping.

BISYnch: the Bit Synchronous CBR mapping.

ATM: the ATM mapping

GFP1: the GFP mapping.

VCONcate: the Virtual Concatenation

PCSCODEWORD: the PCS Codeword Transparent Ethernet

FC1200ODU2E: the FC-1200 into ODU2e

GFPEOPU2: the GFP mapping into extended OPU2

OC3STM1ODU0: OC-3/STM-1 into ODU0

OC12STM4ODU0: OC-12/STM-4 into ODU0

FC100ODU0: the FC-100 into ODU0

FC200ODU1: the s FC-200 into ODU1

FC400: the FC-400 into ODUflex

FC800: the FC-800 into ODUflex

BSTiming: the Bit Stream Timing.

BSNTiming: Bit Stream No Timing.

IBSDRMAPPING: IB SDR mapping into ODUflex

IBDRMAPPING: IB DDR mapping into ODUflex

IBQDRMAPPING: IB QDR mapping into ODUflex

ODUODTUKTSODTUJK: ODU Multiplex with ODTUjk

ODUODTUJK: ODU Multiplex with ODTUk.ts/ODTUjk

NAVailable: Not Available.

RPRopriet: Reserved Codes for Proprietary Usec

NULLtest: NULL Test Signal mapping

PRBStest: PRBS Test Signal mapping

:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe

Response Syntax	<Code>
Example(s)	SOUR:DATA:TEL:OTN:OPU1:E:PTYP EXP
	SOUR:DATA:TEL:OTN:OPU1:E:PTYP?
	Returns: EXPERIMENTAL
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe
	SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe:OVERwrite: ENABled

Description	This command enables/disables PT Overwrite for OTU1f/2f rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > PT - Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe:OVERwrite:ENABled <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Code>
Example(s)	SOUR:DATA:TEL:OTN:OPU1:E:PTYP:OVER:ENAB ON
	SOUR:DATA:TEL:OTN:OPU1:E:PTYP:OVER:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe:OVERwrite:ENABled?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe:OVERwrite: ENABled?

Description	This query returns the status of the PT Overwrite for OTU1f/2f rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > PT - Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe:OVERwrite:ENABled?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:OPU1:E:PTYP:OVER:ENAB ON
	SOUR:DATA:TEL:OTN:OPU1:E:PTYP:OVER:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe:OVERwrite:ENABled

:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe?

Description	This query returns the injected payload signal type to be generated for OTU1e/2e rate.
	At *RST condition, this value is set to PRBStest.
	Navigation Path: Setup > Test Configurator > OTU1e/2e > FTFL/PT > ODU1e/2e > PT - Payload Type
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe?
Response Syntax	<Payload>

:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe?

Response(s)	**Payload**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the expected payload signal type to be generated.
	RFSTandard, Reserved for International Standardization is selected.
	EXPerimental, Experimental mapping is selected.
	ASYNchronous, Asynchronous CBR mapping is selected.
	BISYnch, Bit Synchronous CBR mapping as the payload type is selected.
	ATM, ATM mapping is selected.
	GFP1, GFP mapping is selected.
	VCONcate, Virtual Concatenation is selected.
	PCSCTE, PCS Codeword Transparent Ethernet is selected.
	FC1200ODU2E,FC-1200 into ODU2e is selected.
	GFPEOPU2, GFP mapping into extended OPU2 is selected.
	OC3STM1ODU0, OC-3/STM-1 into ODU0 is selected.
	OC12STM4ODU0, OC-12/STM-4 into ODU0 is selected.
	FC100ODU0, FC-100 into ODU0 is selected.
	FC200ODU1, FC-200 into ODU0 is selected.
	FC400, FC-400 into ODUflex is selected.
	FC800, FC-800 into ODUflex is selected.
	BSTiming, Bit Stream with Octet Timing mapping is selected.
	BSNTiming,Bit Stream Without Octet Timing mapping is selected.
	IBDRMAPPING,IB DDR mapping into ODUflex is selected.
	IBSDRMAPPING, IB SDR mapping into ODUflex is selected.
	IBQDRMAPPINGIB QDR mapping into ODUflex is selected.
	ODUODTUKTSODTUJK, ODU Multiplex with ODTUjk is selected.
	ODUODTUJK, ODU Multiplex with ODTUk.ts/ODTUjk as the payload type is selected.
	NAVailable, Not Available is selected.
	RPRopriet, Reserved Codes for Proprietary is selected.
	NULLtest, NULL Test Signal mapping is selected.
	PRBStest, PRBS Test Signal mapping is selected.

:SOURce:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe?

Example(s)	SOUR:DATA:TEL:OTN:OPU1:E:PTYP EXP
	SOUR:DATA:TEL:OTN:OPU1:E:PTYP?
	Returns: EXPERIMENTAL
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe
	SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PCODe

Description	This command sets the corresponding injected payload type as hexadecimal code for OTU1f/2f rate.
	At *RST condition, this value is set to #H00.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > FTFL/PT > ODU1f/2f > PT - Code
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PCODe <wsp><Code>
Parameter(s)	**Code**:
	The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the corresponding injected payload type in hexadecimal code.
	The values are 00 to FF.
Response Syntax	<Payload>
Example(s)	SOUR:DATA:TEL:OTN:OPU1:F:PCOD #H00
	SOUR:DATA:TEL:OTN:OPU1:F:PCOD?
	Returns: 00 (the decimal form of H00)
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe
	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PCODe?

Description	This query returns the corresponding injected payload type as hexadecimal code for OTU1f/2f rate.
	At *RST condition, this value is set to #H03.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > FTFL/PT > ODU1f/2f > PT - Code
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PCODe?
Response Syntax	<Code>
Response(s)	**Code**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the corresponding injected payload type as decimal code.
	The values are 00 to 255.
Example(s)	SOUR:DATA:TEL:OTN:OPU1:F:PCOD #H00
	SOUR:DATA:TEL:OTN:OPU1:F:PCOD?
	Returns: 00 (the decimal form of H00)
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe
	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe

Description	This command sets the injected payload signal type to be generated for OTU1f/2f rate.
	At *RST condition, this value is set to PRBStest.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > FTFL/PT > ODU1f/2f > PT - Payload Type
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe <wsp><Payload>

:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe

Parameter(s)	Payload:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Sets the expected payload signal type to be generated.

RFSTandard: Reserved for international standardization

EXPerimental: Experimental mapping

ASYNchronous Asynchronous CBR mapping

BISYnch: Bit synchronous CBR mapping

ATM: ATM mapping

GFP1: GFP Mapping

VCONcate: Virtual Concatenated signal

PCSCODEWORD: PCS Codeword transparent Ethernet

FC1200ODU2E: FC-1200 into ODU2e

GFPEOPU2: GFP mapping into extended OPU2

OC3STM1ODU0: OC3/STM-1 into ODU0

OC12STM4ODU0: OC12/STM-4 into ODU0

FC100ODU0: FC-100 into ODU0

FC200ODU1: FC-200 into ODU1

FC400: FC-400 into ODUflex

FC800: FC-800 into ODUflex

BSTiming: Bit stream with octet timing mapping

BSNTiming: Bit stream without octet timing mapping

IBDRMAPPING: IB DDR mapping into ODUflex

IBSDRMAPPING: IB SDR mapping into ODUflex

IBQDRMAPPING: IB QDR mapping into ODUflex

ODUODTUJK: ODU multiplex with ODTUjk

ODUODTUKTSODTUJK: ODU multiplex with ODTUk.ts/ODTUjk

NAVailable: Not available

RPRopriet: Reserved codes for proprietary use

NULLtest: NULL test signal mapping

PRBStest: PRBS test signal mapping

:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe

Response Syntax	<Code>
Example(s)	SOUR:DATA:TEL:OTN:OPU1:F:PTYP EXP
	SOUR:DATA:TEL:OTN:OPU1:F:PTYP?
	Returns: EXPERIMENTAL
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe
	SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe:OVERwrite:ENABled

Description	This command enables/disables PT Overwrite for OTU1f/2f rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > FTFL/PT > ODU1f/2f > PT - Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe:OVERwrite:ENABled <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Code>
Example(s)	SOUR:DATA:TEL:OTN:OPU1:F:PTYP:OVER:ENAB ON
	SOUR:DATA:TEL:OTN:OPU1:F:PTYP:OVER:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe:OVERwrite:ENABled?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe:OVERwrite:ENABled?

Description	This query returns the status of the PT Overwrite for OTU1f/2f rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > FTFL/PT > ODU1f/2f > PT - Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe:OVERwrite:ENABled?
Response Syntax	\<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:OPU1:F:PTYP:OVER:ENAB ON
	SOUR:DATA:TEL:OTN:OPU1:F:PTYP:OVER:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe:OVERwrite:ENABled

:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe?

Description	This query returns the injected payload signal type to be generated for OTU1f/2f rate.
	At *RST condition, this value is set to PRBStest.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > FTFL/PT > ODU1f/2f > PT - Payload Type
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe?
Response Syntax	<Payload>

:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe?

Response(s)	**Payload**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the expected payload signal type to be generated.
	RFSTANDARD, indicates Reserved for international standardization
	EXPERIMENTAL, indicates Experimental mapping
	ASYNCHRONOUS, indicates Asynchronous CBR mapping
	BISYNCH, indicates Bit synchronous CBR mapping
	ATM, indicates ATM mapping
	GFP1, indicates GFP Mapping
	VCONCATE, indicates Virtual Concatenated signal
	PCSCODEWORD, indicates PCS Codeword transparent Ethernet
	FC1200ODU2E, indicates FC-1200 into ODU2e
	GFPEOPU2, indicates GFP mapping into extended OPU2
	OC3STM1ODU0, indicates OC3/STM-1 into ODU0
	OC12STM4ODU0, indicates OC12/STM-4 into ODU0
	FC100ODU0, indicates FC-100 into ODU0
	FC200ODU1, indicates FC-200 into ODU1
	FC400, indicates FC-400 into ODUflex
	FC800, indicates FC-800 into ODUflex
	BSTIMING, indicates Bit stream with octet timing mapping
	BSNTIMING, indicates Bit stream without octet timing mapping
	IBDRMAPPING, indicates IB DDR mapping into ODUflex
	IBSDRMAPPING, indicates IB SDR mapping into ODUflex
	IBQDRMAPPING, indicates IB QDR mapping into ODUflex
	ODUODTUJK, indicates ODU multiplex with ODTUjk
	ODUODTUKTSODTUJK, indicates ODU multiplex with ODTUk.ts/ODTUjk
	NAVAILABLE, indicates Not available
	RPROPRIET, indicates Reserved codes for proprietary use
	NULLTEST, indicates NULL test signal mapping
	PRBSTEST, indicates PRBS test signal mapping

:SOURce:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe?

Example(s)	SOUR:DATA:TEL:OTN:OPU1:F:PTYP EXP
	SOUR:DATA:TEL:OTN:OPU1:F:PTYP?
	Returns: EXPERIMENTAL
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe
	SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe

Description	This command sets the corresponding injected payload type as hexadecimal code.
	At *RST condition, this value is set to #H00.
	Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > PT- Payload Type
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe <wsp><Code>
Parameter(s)	**Code**:
	The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the corresponding injected payload type in hexadecimal code.
	The values are 00 to FF.
Response Syntax	<Payload>
Example(s)	SOUR:DATA:TEL:OTN:OPU1:PCOD #H00
	SOUR:DATA:TEL:OTN:OPU1:PCOD?
	Returns: 00 (the decimal form of H00)
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe
	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe?

Description	This query returns the corresponding injected payload type as hexadecimal code.
	At *RST condition, this value is set to #H03.
	Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > PT- Payload Type
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe?
Response Syntax	<Code>
Response(s)	**Code**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the corresponding injected payload type as decimal code.
	The values are 00 to 255.
Example(s)	SOUR:DATA:TEL:OTN:OPU1:PCOD #H00
	SOUR:DATA:TEL:OTN:OPU1:PCOD?
	Returns: 00 (the decimal form of #H00)
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe
	SENSe:DATA:TELecom:OTN:OPU[1..n]:PCODe?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe

Description	This command sets the injected payload signal type to be generated.
	At *RST condition, this value is set to PRBStest.
	Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > PT- Payload Type
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe <wsp><Payload Type>

:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe

Parameter(s)	
	Payload Type:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Sets the injected payload signal type to be generated.

_1485_1001OPU1: (1.485/1.001) Gbit/s SDI mapping into OPU1

_1485OPU1: 1.485 Gbit/s SDI mapping in to OPU1

_200GBASER: 200GBASE-R mapping into OPUflex

_25GBASER: 25GBASE-R mapping into OPUflex

_2970_1001OPUFLEX: (2.970/1.001) Gbit/s SDI mapping into OPUflex

_2970OPUFLEX: 2.970 Gbit/s SDI mapping into OPUflex

_400GBASER: 400GBASE-R mapping into OPUflex

ASYNchronous: Asynchronous CBR mapping

ATM: ATM mapping

BISYnch: Bit synchronous CBR mapping

BSNTiming: Bit stream without octet timing mapping

BSTiming: Bit stream with octet timing mapping

DVBASIOPU0: DVB_ASI mapping into OPU0

EXPerimental: Experimental mapping

FC100ODU0: FC-100 into ODU0

FC1200ODU2E: FC-1200 into ODU2e

FC1600: FC-1600 mapping into OPUflex

FC200ODU1: FC-200 into ODU1

FC3200: FC-3200 mapping into OPUflex

FC400: FC-400 into ODUflex

FC800: FC-800 into ODUflex

FLEXEAWARE: FlexE aware (partial rate) mapping into OPUflex

FLEXECLIENT: FlexE Client mapping into OPUflex

GFP1: GFP Mapping

GFPEOPU2: GFP mapping into extended OPU2

:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe

Parameter(s)	IBDRMAPPING: IB DDR mapping into ODUflex
	IBQDRMAPPING: IB QDR mapping into ODUflex
	IBSDRMAPPING: IB SDR mapping into ODUflex
	NAVailable: Not available
	NULLtest: NULL test signal mapping
	OC12STM4ODU0: OC12/STM-4 into ODU0
	OC3STM1ODU0: OC3/STM-1 into ODU0
	ODUODTUCNTS: ODU multiplex with ODTUCn.ts
	ODUODTUJK: ODU multiplex with ODTUjk
	ODUODTUKTSODTUJK: ODU multiplex with ODTUk.ts/ODTUjk
	PCSCODEWORD: PCS Codeword transparent Ethernet
	PRBStest: PRBS test signal mapping
	RFSTandard: Reserved for international standardization
	RPRopriet: Reserved codes for proprietary use
	SBCONESCONOPU0: SBCON/ESCON mapping into OPU0
	SDIMAPPING: SDI mapping into OPU0
	VCONcate: Virtual Concatenated signal
Response Syntax	<Code>
Example(s)	SOUR:DATA:TEL:OTN:OPU1:PTYP EXP
	SOUR:DATA:TEL:OTN:OPU1:PTYP?
	Returns: EXPERIMENTAL
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe
	SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe?

:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe:OVERwrite:ENABled

Description	This command enables/disables the Payload Type Overwrite feature.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > PT - Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe:OVERwrite:ENABled <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Code>
Example(s)	SOUR:DATA:TEL:OTN:OPU3:PTYP:OVER:ENAB ON
	SOUR:DATA:TEL:OTN:OPU3:PTYP:OVER:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:FTFL:OVERwrite:ENABled

:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe:OVERwrite:ENABled?

Description	This query returns the status of Payload Type Overwrite feature.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > PT - Overwrite
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe:OVERwrite:ENABled?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:OPU3:PTYP:OVER:ENAB ON
	SOUR:DATA:TEL:OTN:OPU3:PTYP:OVER:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:FTFL:OVERwrite:ENABled

:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe?

Description	This query returns the injected payload signal type to be generated.
	At *RST condition, this value is set to PRBStest.
	Navigation Path: Setup > Test Configurator > OTU > FTFL/PT > ODU > PT- Payload Type
Syntax	:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe?
Response Syntax	<Payload>

:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe?

Response(s)	Payload:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.

Returns the expected payload signal type to be generated.

_1485_1001OPU1: (1.485/1.001) Gbit/s SDI mapping into OPU1

_1485OPU1: 1.485 Gbit/s SDI mapping in to OPU1

_200GBASER: 200GBASE-R mapping into OPUflex

_25GBASER: 25GBASE-R mapping into OPUflex

_2970_1001OPUFLEX: (2.970/1.001) Gbit/s SDI mapping into OPUflex

_2970OPUFLEX: 2.970 Gbit/s SDI mapping into OPUflex

_400GBASER: 400GBASE-R mapping into OPUflex

ASYNchronous: Asynchronous CBR mapping

ATM: ATM mapping

BISYnch: Bit synchronous CBR mapping

BSNTiming: Bit stream without octet timing mapping

BSTiming: Bit stream with octet timing mapping

DVBASIOPU0: DVB_ASI mapping into OPU0

EXPerimental: Experimental mapping

FC100ODU0: FC-100 into ODU0

FC1200ODU2E: FC-1200 into ODU2e

FC1600: FC-1600 mapping into OPUflex

FC200ODU1: FC-200 into ODU1

FC3200: FC-3200 mapping into OPUflex

FC400: FC-400 into ODUflex

FC800: FC-800 into ODUflex

FLEXEAWARE: FlexE aware (partial rate) mapping into OPUflex

FLEXECLIENT: FlexE Client mapping into OPUflex

GFP1: GFP Mapping

GFPEOPU2: GFP mapping into extended OPU2

IBDRMAPPING: IB DDR mapping into ODUflex

IBQDRMAPPING: IB QDR mapping into ODUflex

IBSDRMAPPING: IB SDR mapping into ODUflex

NAVailable: Not available

NULLtest: NULL test signal mapping

OC12STM4ODU0: OC12/STM-4 into ODU0

OC3STM1ODU0: OC3/STM-1 into ODU0

ODUODTUCNTS: ODU multiplex with ODTUCn.ts

ODUODTUJK: ODU multiplex with ODTUjk

ODUODTUKTSODTUJK: ODU multiplex with ODTUk.ts/ODTUjk

:SOURce:DATA:TELecom:OTN:OPU[1..n]:PTYPe?

Example(s)	SOUR:DATA:TEL:OTN:OPU1:PTYP EXP
	SOUR:DATA:TEL:OTN:OPU1:PTYP?
	Returns: EXPERIMENTAL
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe
	SENSe:DATA:TELecom:OTN:OPU[1..n]:PTYPe?

MAC/IP/UDP

:SENSe:DATA:TELecom:ETHernet:STReam:DESTination:IPVersion

Description	This command sets the Destination IPv6 address. At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IPv6 > IPv6 Destination Address Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > IPv6 Destination Address
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:DESTination:IPVersion <wsp><Number>, <Address>
Parameter(s)	**Number**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM **Address**: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Sets the Destination IPv6 address.
Response Syntax	<Llayer>
Example(s)	SENSe:DATA:TELecom:ETHernet:STReam:DESTination:IPV 1, FE80:0000:0000:0000:0200:00FF:FE00:0000 SENSe:DATA:TELecom:ETHernet:STReam:DESTination:IPV? 1 Returns: 0000:0000:0000:0000:0000:0000:0000:0000
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IPV?

:SENSe:DATA:TELecom:ETHernet:STReam:DESTination:IPVersion?

Description	This query returns the Destination IPv6 address.
	At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IPv6 > IPv6 Destination Address
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > IPv6 Destination Address
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:DESTination:IPVersion? <wsp><Number>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Destination IPv6 address.
Example(s)	SENSe:DATA:TELecom:ETHernet:STReam:DESTination:IPV 1, FE80:0000:0000:0000:0200:00FF:FE00:0000
	SENSe:DATA:TELecom:ETHernet:STReam:DESTination:IPV? 1
	Returns: 0000:0000:0000:0000:0000:0000:0000:0000
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IPV

:SENSe:DATA:TELecom:ETHernet:STReam:FLABel:IPVersion

Description	This command sets the IPv6 Flow Label.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IPv6 > Flow Label
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Flow Label
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FLABel:IPVersion <wsp><Stream>, <Flow Label>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
	Flow Label:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the IPv6 Flow Label.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Address>
Example(s)	SENS:DATA:TEL:ETH:STR:FLAB:IPV 1, 20
	SENS:DATA:TEL:ETH:STR:FLAB:IPV? 1
	Returns: 20
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:IPV?

:SENSe:DATA:TELecom:ETHernet:STReam:FLABel:IPVersion?

Description	This query returns the IPv6 Flow Label.
	At *RST condition, this value is set to 0
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IPv6 > Flow Label
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Flow Label
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:FLABel:IPVersion? <wsp><Stream>,[<Flow Label>]
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
	Flow Label:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional.
	If no token is specified, the current flow label is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Flabel>
Response(s)	**Flabel**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the IPv6 Flow Label.
Example(s)	SENS:DATA:TEL:ETH:STR:FLAB:IPV 1, 20
	SENS:DATA:TEL:ETH:STR:FLAB:IPV? 1
	Returns: 21
See Also	SENSe:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:IPV

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID

Description	This command sets the Virtual Local Area Network (VLAN) Identification for frame of the selected service, direction, and stack. At *RST condition, this value is set to 2. Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > VLAN > VLAN ID
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID <wsp><Service>, <Direction>, <Stacked>, <Id>
Parameter(s)	**Service**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. **Direction**: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 **Stacked**: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the VLAN stacked. **Id**: The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Select the VLAN ID. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID

Response Syntax	<Flabel>
Example(s)	SOUR:DATA:TEL:ETH:ESAM:CONF:SERV:VLAN 1, LTOR,ON
	SOUR:DATA:TEL:ETH:ESAM:CONF:SERV:VLAN:STAC 1, LTOR,2
	SOUR:DATA:TEL:ETH:ESAM:CONF:SERV:VLAN:ID 1, LTOR,1, 50
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:SERVices:VLAN:TYPE

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID:ELIGiblebit

Description	This command enables/disables the user Virtual Local Area Network (VLAN) eligible bit for frame parameters for selected service, direction, and stack.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > VLAN > Drop Eligible
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID:ELIGiblebit <wsp><Service>, <Direction>, <Stacked>, <Set>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Stacked:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the VLAN stacked.
	Set:
	The program data syntax for the fourth parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enable or disable the eligible bit for the specific VLAN Id.
	ON: Enabled
	OFF: Disabled

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID:ELIGiblebit

Response Syntax	<Flabel>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN 1, LTOR,ON
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STAC 1, LTOR,2
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID:ELIGiblebit 1, LTOR,2,ON
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:SERVices:VLAN:STAC

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID:ELIGiblebit?

Description	This query returns the status of user VLAN eligible bit for frame parameters for selected service, direction, and stack.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > VLAN > Drop Eligible
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID:ELIGiblebit? <wsp><Service>, <Direction>, <Stacked>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Stacked:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the VLAN stacked.
Response Syntax	<Status>

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID:ELIGiblebit?

Response(s)	**Status**: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of eligible bit. 1, eligible bit is enabled. 0, eligible bit is disabled.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN 1, LTOR,ON SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STAC 1, LTOR,2 SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID:ELIGiblebit 1, LTOR,2,ON SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID:ELIGiblebit? 1, LTOR,2 Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:SERVices:VLAN:STAC?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID?

Description	This query returns the available VLAN ID for frame of the selected service, direction, and stack.
	At *RST condition, this value is set to 2.
	Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > VLAN > VLAN ID
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID? <wsp><Service>, <Direction>, <Stacked>,[<Id>]
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Stacked:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the VLAN stacked.
	Id:
	The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Select the VLAN ID.
	This parameter is optional. If no token is specified, the current VLAN ID value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:ID?

Response Syntax	\<Id\>
Response(s)	**Id**: The response data syntax for the first parameter is defined as a \<NR1 NUMERIC RESPONSE DATA\> element. Returns the value of VLAN identification.
Example(s)	SOURce:DATA:TEL:ETH:ESAM:CONF:SERV:VLAN 1, LTOR,ON SOUR:DATA:TEL:ETH:ESAM:CONF:SERV:VLAN:STAC 1, LTOR,2 SOUR:DATA:TEL:ETH:ESAM:CONF:SERV:VLAN:ID 1, LTOR,1, 50 SOUR:DATA:TEL:ETH:ESAM:CONF:SERV:VLAN:ID? 1, LTOR,1 Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:TYPE?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:PRIority

Description	This command sets the priority of the Virtual Local Area Network (VLAN) identification for frame parameters for selected service, direction, and stack.

At *RST condition, this value is set to 0.

Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > VLAN > Priority

Syntax

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:PRIority <wsp><Service>, <Direction>, <Stacked>, <Priority>

Parameter(s)

Service:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Direction:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the Direction.

(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)

LTORemote: Local to Remote

RTOLocal: Remote to Local

P1TOP2: P1 -TO-P2

P2TOP1: P2 -TO-P1

Stacked:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the VLAN stacked.

Priority:

The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Set the priority of the stream.

MAXimum: Biggest supported value

MINimum: Smallest supported value

DEFault: Deault value

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:PRIority

Response Syntax	<Id>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN 1, LTOR,ON
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STAC 1, LTOR,2
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:PRIority 1, LTOR,2,5
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:BIRFrame

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:PRIority?

Description	This query returns the priority of the Virtual Local Area Network (VLAN) identification for frame parameters for selected service, direction, and stack.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > VLAN > Priority
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:PRIority? <wsp><Service>, <Direction>, <Stacked>,[<Priority>]

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:PRIority?

Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Stacked:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the VLAN stacked.
	Priority:
	The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Set the priority of the stream.
	MAXimum is used to retrieve the instrument's greatest supported Virtual Local Area Network (VLAN) priority Value.
	MINimum is used to retrieve the instrument's smallest supported Virtual Local Area Network (VLAN) priority Value.
	This parameter is optional. If no token is specified, the current priority of the Virtual Local Area Network (VLAN) value is returned.
	DEFault is used to retrieve the instrument's default supported Virtual Local Area Network (VLAN) priority Value.
Response Syntax	<Priority>

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:PRIority?

Response(s)	**Priority**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns value of VLAN priority.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN 1, LTOR,ON
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STAC 1, LTOR,2
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:PRIority 1, LTOR,2,5
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:PRIority? 1, LTOR,2
	Returns: 5
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:BURSt:PARameters:BIRFrame?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:TYPE

Description	This command sets the type of Virtual Local Area Network (VLAN) identification for frame parameters specific VLAN service, direction, and stack.
	At *RST condition, this value is set to V8100.
	Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > VLAN > Type
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:TYPE <wsp><Service>, <Direction>, <Stacked>, <Idtype>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Stacked:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the VLAN stacked.
	Idtype:
	The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects VLAN type.
	V8100: VLAN type 8100.
	V88A8: VLAN type 88A8.
	V9100: VLAN type 9100.
	V9200: VLAN type 9200.
	V9300: VLAN type 9300.

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:TYPE

Response Syntax	<Priority>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN 1, LTOR,ON
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STAC 1, LTOR,2
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:TYPE 1, LTOR,1, V88A8
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:TYPE? 1, LTOR,1
	Returns: V88A8
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STAC

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:TYPE?

Description	This command sets the type of Virtual Local Area Network (VLAN) identification for frame parameters specific VLAN service, direction, and stack.
	At *RST condition, this value is set to V8100.
	Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > VLAN > Type
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:TYPE? <wsp><Service>, <Direction>, <Stacked>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Stacked:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the VLAN stacked.
Response Syntax	<Idtype>

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:TYPE?

Response(s)	Idtype:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Virtual Local Area Network (VLAN) type.
	V8100, VLAN type 8100 is selected.
	V88A8, VLAN type 88A8 is selected.
	V9100, VLAN type 9100 is selected.
	V9200, VLAN type 9200 is selected.
	V9300, VLAN type 9300 is selected.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN 1, LTOR,ON
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STAC 1, LTOR,2
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:TYPE 1, LTOR,1, V88A8
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:TYPE? 1, LTOR,1
	Returns: V88A8
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STAC?

:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination

Description	This command sets the Media Access Control (MAC) destination address of the selected stream for 'Traffic Gen & Mon' or the selected client for 'FlexE BERT'.
	At *RST condition, this value is device-dependent.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > MAC > Destination MAC Address
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > MAC > Destination MAC Address
	Navigation Path: FlexE BERT > Setup > Test Configurator > Clients > MAC > Destination MAC Address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination <wsp><Number>, <Address>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	- 1 to n Client ID for FlexE BERT
	Address:
	The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the destination MAC address.
Response Syntax	<Idtype>
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:DEST 1, FE:FE:FE:00:00:00
	SOUR:DATA:TEL:ETH:STR:ADDR:DEST? 1
	Returns: FE:FE:FE:00:00:00
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination?
	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce

:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:FLOoding

Description	This command enables the Destination MAC Flooding.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > MAC > Destination Flooding
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:FLOoding <wsp><Stream>, <Set>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the Destination MAC Flooding.
	ON, enables the Destination MAC Flooding.
	OFF, disables the Destination MAC Flooding.
Response Syntax	<Idtype>
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:DEST:FLO 1,ON
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce?

:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:FLOoding?

Description	This query returns status of Destination MAC Flooding.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > MAC > Destination Flooding
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:FLOoding? <wsp><Stream>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of Destination MAC Flooding.
	1, Destination MAC Flooding is enabled.
	0, Destination MAC Flooding is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:DEST:FLO 1,ON
	SOUR:DATA:TEL:ETH:STR:ADDR:DEST:FLO? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce

:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP

Description	This command sets the IPv4 destination address.
	At *RST condition, this value is set to 0.0.0.0.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Destination IP Address
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Destination IP Address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP <wsp><Number>, <Address>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	Address:
	The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
	Set the destination IP address.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:DEST:IP 1, 1.1.1.1
	SOUR:DATA:TEL:ETH:STR:ADDR:DEST:IP? 1
	Returns: 1.1.1.1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination
	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP?

:SOURce:DATA:TELecom:ETHernet:STRearm:ADDRess:DESTination:IP?

Description	This query returns the IPv4 destination address. At *RST condition, this value is set to 0.0.0.0. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Destination IP Address Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Destination IP Address
Syntax	:SOURce:DATA:TELecom:ETHernet:STRearm:ADDRess:DESTination:IP? <wsp><Number>
Parameter(s)	**Number**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM
Response Syntax	<Address>
Response(s)	**Address**: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the IP destination address in the form of a string.
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:DEST:IP 1, 1.1.1.1 SOUR:DATA:TEL:ETH:STR:ADDR:DEST:IP? 1 Returns: 1.1.1.1
See Also	SOURce:DATA:TELecom:ETHernet:STRearm:ADDRess:DESTination SOURce:DATA:TELecom:ETHernet:STRearm:ADDRess:DESTination:IP

:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination?

Description	This query returns the Media Access Control (MAC) destination address of the selected stream for 'Traffic Gen & Mon' or the selected client for 'FlexE BERT'.
	At *RST condition, this value is device-dependent.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > MAC > Destination MAC Address
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > MAC > Destination MAC Address
	Navigation Path: FlexE BERT > Setup > Test Configurator > Clients > MAC > Destination MAC Address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination? <wsp><Number>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	- 1 to n Client ID for FlexE BERT
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the MAC destination address in the form of a string.
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:DEST 1, FE:FE:FE:00:00:00
	SOUR:DATA:TEL:ETH:STR:ADDR:DEST? 1
	Returns: FE:FE:FE:00:00:00
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination
	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce?

:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:FLOoding:RANGe

Description	This command sets the Source/Destination MAC Flooding range.
	At *RST condition, this value is set to 4096.
	Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > MAC > Flooding Range
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:FLOoding:RANGe <wsp><Stream>, <Range>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Range:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Source/Destination MAC Flooding range.
	Range is from 2 to 4096.
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:FLO:RANG 1,64
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination?

:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:FLOoding:RANGe?

Description	This query returns the Source/Destination MAC Flooding range.
	At *RST condition, this value is set to 4096.
	Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > MAC > Flooding Range
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:FLOoding:RANGe? <wsp><Stream>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Source/Destination MAC Flooding range.
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:FLO:RANG 1,64
	SOUR:DATA:TEL:ETH:STR:ADDR:FLO:RANG? 1
	Returns: 64
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination

:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce

Description	This command sets the Media Access Control (MAC) source address.
	At *RST condition, this value is device-dependent.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > MAC > Source MAC Address
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > MAC > Source MAC Address
	Navigation Path: Setup > Test Configurator > Clients > MAC > Source MAC Address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce <wsp><Number>, <Address>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	- 1 to n Client ID for FlexE BERT
	- 1 for other test applications
	Address:
	The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the source MAC address.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:SOUR 1, FE:FE:FE:00:00:00
	SOUR:DATA:TEL:ETH:STR:ADDR:SOUR? 1
	Returns: FE:FE:FE:00:00:00
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce?
	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination

:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:FLOoding

Description	This command enables the Source MAC Flooding.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > MAC > Source Flooding
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:FLOoding <wsp><Stream>, <Set>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the Source MAC Flooding.
	ON, enables the Source MAC Flooding
	OFF, disables the Source MAC Flooding
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:SOUR:FLO 1,ON
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP?

:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce :FLOoding?

Description	This query returns Source MAC Flooding.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > MAC > Source Flooding
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:FLOoding? <wsp><Stream>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of Source MAC Flooding.
	1, Source MAC Flooding is enabled.
	0, Source MAC Flooding is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:SOUR:FLO 1,ON
	SOUR:DATA:TEL:ETH:STR:ADDR:SOUR:FLO? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP

:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP

Description	This command sets the IPv4 source address.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Source IP Address
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Source IP Address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP <wsp><Number>, <Address>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	Address:
	The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the source IP address.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:SOUR:IP 1, 1.1.1.1
	SOUR:DATA:TEL:ETH:STR:ADDR:SOUR:IP? 1
	Returns: 1.1.1.1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP?

:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP?

Description	This query returns the source IPv4 address.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Source IP Address
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Source IP Address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP? <wsp><Number>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the source IP address in the form of a string.
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:SOUR:IP 1, 1.1.1.1
	SOUR:DATA:TEL:ETH:STR:ADDR:SOUR:IP? 1
	Returns: 1.1.1.1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP

:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce?

Description	This query returns the Media Access Control (MAC) source address.
	At *RST condition, this value is device-dependent.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > MAC > Source MAC Address
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > MAC > Source MAC Address
	Navigation Path: Setup > Test Configurator > Clients > MAC > Source MAC Address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce? <wsp><Number>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	- 1 to n Client ID for FlexE BERT
	- 1 for other test applications
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the source MAC address.
Example(s)	SOUR:DATA:TEL:ETH:STR:ADDR:SOUR 1, FE:FE:FE:FE:00:00
	SOUR:DATA:TEL:ETH:STR:ADDR:SOUR? 1
	Returns: FE:FE:FE:FE:00:00
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce
	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination?

:SOURce:DATA:TELecom:ETHernet:STReam:COUPled:ENABle

Description	This command enables/disables the coupled status
	At *RST condition, this value is set to OFF.
	Navigation Path: setup > test Configurator > MAC/IP/UDP > Coupled with Interface
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Coupled with Interface
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:COUPled:ENABle <wsp><Stream ID>, <Status>
Parameter(s)	**Stream ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Status:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Address>
Example(s)	SOURce:DATA:TEL:ETH:STR:COUP:ENAB 1, ON
	SOURce:DATA:TEL:ETH:STR:COUP:ENAB? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:OPTical:ALARm:PORT:AUTomated
	SOURce:DATA:TELecom:OPTical:ALARm:PORT:AUTomated?

:SOURce:DATA:TELecom:ETHernet:STReam:COUPled:ENABle?

Description	This query returns coupled status
	At *RST condition, this value is set to OFF.
	Navigation Path: setup > test Configurator > MAC/IP/UDP > Coupled with Interface
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Coupled with Interface
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:COUPled:ENABle? <wsp><Stream ID>
Parameter(s)	**Stream ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOURce:DATA:TEL:ETH:STR:COUP:ENAB 1, ON
	SOURce:DATA:TEL:ETH:STR:COUP:ENAB? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:OPTical:ALARm:PORT:AUTomated
	SOURce:DATA:TELecom:OPTical:ALARm:PORT:AUTomated?

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway

Description	This command enables/disables the IPv4 gateway status.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Default Gateway
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Default Gateway
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway <wsp><Number>,[<Set>]
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the IP gateway for the selected stream.
	ON, Enables IP gateway for the selected stream.
	OFF, disables IP gateway for the selected stream.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT 1, ON
	SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway?

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway:ADDRess

Description	This command sets the default gateway IPv4 address.
	At *RST condition, this value is set to 0.0.0.0.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Default Gateway
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Default Gateway
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway:ADDRess <wsp><Number>, <Address>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	Address:
	The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
	Selects the default IP gateway address.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT 1, ON
	SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT:ADDR 1, 0.0.1.1
	SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT:ADDR? 1
	Returns: 0.0.1.1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway
	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway:ADDRess?

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway:ADDRess?

Description	This query returns the default gateway IPv4 address.
	At *RST condition, this value is set to 0.0.0.0.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Default Gateway
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Default Gateway
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway:ADDRess? <wsp><Number>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the default gateway IP address.
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT 1, ON
	SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT:ADDR 1, 0.0.1.1
	SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT:ADDR? 1
	Returns: 0.0.1.1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway
	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway:ADDRess

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway?

Description	This query returns the IPv4 gateway status.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Default Gateway
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Default Gateway
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway? <wsp><Number>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the IP gateway.
	1, IP gateway is enabled.
	0, IP gateway is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT 1, ON
	SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TOSDs

Description	This command sets the Type of Service/Differentiated Services (TOS/DS) value.
	At *RST condition, this value is set to 00.
	Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > IP/IPv6 > IP TOS/DS
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP/IPv6 > IP TOS/DS
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TOSDs <wsp><Number>, <Tosds>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	Tosds:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Selects the TOS/DS value.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:IP:TOSD 1, #HFF
	SOUR:DATA:TEL:ETH:STR:DEST:IP:TOSD? 1
	Returns: 255
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TOSDs?

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TOSDs?

Description	This query returns the Type of Service/Differentiated Services (TOS/DS) value.
	At *RST condition, this value is set to 00.
	Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > IP/IPv6 > IP TOS/DS
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP/IPv6 > IP TOS/DS
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TOSDs? <wsp><Number>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
Response Syntax	<Tosds>
Response(s)	**Tosds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the TOSDS value.
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:IP:TOSD 1, #HFF
	SOUR:DATA:TEL:ETH:STR:DEST:IP:TOSD? 1
	Returns: 255
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TOSDs

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TTL

Description	This command sets the Time to Live (TTL) value (IPv4).
	At *RST condition, this value is set to 128.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TTL
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TTL
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TTL <wsp><Number>,[<TTL>]
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	TTL:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the TTL value.
	Choices are 0 to 255.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Tosds>
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:IP:TTL 1, 200
	SOUR:DATA:TEL:ETH:STR:DEST:IP:TTL? 1
	Returns: 200
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TTL?

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TTL?

Description	This query returns the Time to Live (TTL) value (IPv4). At *RST condition, this value is set to 128. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TTL Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TTL
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TTL? <wsp><Number>,[<TTL>]
Parameter(s)	**Number**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM **TTL**: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the TTL value. This parameter is optional. If no token is specified, the current TTL value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Ttl>
Response(s)	**Ttl**: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the TTL value.
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:IP:TTL 1, 200 SOUR:DATA:TEL:ETH:STR:DEST:IP:TTL? 1 Returns: 200
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TTL

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT

Description	This command sets the UDP destination port number.
	At *RST condition, this value is set to 7.
	Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > UDP > Destination Port
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > UDP > Destination Port
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT <wsp><Number>,[<DPort>]
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	DPort:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the UDP destination port value for selected stream.
	Choices are 0 to 65535.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Ttl>
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:PORT 1, 60
	SOUR:DATA:TEL:ETH:STR:DEST:PORT? 1
	Returns: 60
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT?
	SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT?

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT:TCP

Description	This command sets the TCP destination port number.
	At *RST condition, this value is set to 7.
	Navigation Path: Setup > Test CONFig Bert > MAC/IP/UDP > TCP > Destination Port
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > TCP > Destination Port
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT:TCP <wsp><Number>,[<DPort>]
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	DPort:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the TCP destination port number.
	MAXimum, sets the maximum destination port value.
	MINimum, sets the minimum destination port value.
	DEFault: Default value
Response Syntax	<Ttl>
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:PORT:TCP 1, 60
	SOUR:DATA:TEL:ETH:STR:DEST:PORT:TCP? 1
	Returns: 60
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT:TCP?

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT:TCP?

Description	This query returns the TCP destination port value.
	At *RST condition, this value is set to 7.
	Navigation Path: Setup > Test CONFig Bert > MAC/IP/UDP > TCP > Destination Port
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > TCP > Destination Port
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT:TCP? <wsp><Number>,[<DPort>]
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	DPort:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the TCP destination port number.
	MAXimum, sets the maximum destination port value.
	MINimum, sets the minimum destination port value.
	DEFault: Default value
Response Syntax	<Dport>
Response(s)	**Dport**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns destination port number.
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:PORT:TCP 1, 60
	SOUR:DATA:TEL:ETH:STR:DEST:PORT:TCP? 1
	Returns: 60
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT:TCP

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT?

Description	This query returns the UDP destination port number.
	At *RST condition, this value is set to 7.
	Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > UDP > Destination Port
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > UDP > Destination Port
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT? <wsp><Number>,[<DPort>]
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	DPort:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the UDP destination port value for the selected stream.
	This parameter is optional. If no token is specified, the current UDP destination port number is returned.
	Choices are 0 to 65535.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Dport>

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT?

Response(s)	**Dport**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns UDP destination port number for the selected stream.
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:PORT 1, 60
	SOUR:DATA:TEL:ETH:STR:DEST:PORT? 1
	Returns: 60
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT
	SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT?

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:RESolve

Description	This command sends a request to the network to retrieve the MAC address corresponding to the selected destination IP/IPv6 address.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Resolve MAC Address
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP/IPv6 > Resolve MAC Address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:RESolve[<wsp><Number>],[<Set>]
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the Resolved MAC address status.
	ON, resolved MAC address status is enabled.
	OFF, resolved MAC address status is disabled.
Response Syntax	<Dport>
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:RES 1, ON
	SOUR:DATA:TEL:ETH:STR:DEST:RES? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:RESolve?

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:RESolve:STATus?

Description	This query returns the status of the resolved MAC address. When enabled, will send an ARP request to the network to retrieve the MAC address corresponding to the selected IP/IPv6 address.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Resolve MAC Address
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP/IPv6 > Resolve MAC Address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:RESolve:STATus?[<wsp><Number>]
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the resolved MAC address status.
	FAILED, Failed is retrieved.
	NRESOLVED, Not Resolved is retrieved.
	RESOLVED, Resolved is retrieved.
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:RES 1, ON
	SOUR:DATA:TEL:ETH:STR:DEST:RES:STAT? 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:RESolve

:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:RESolve?

Description	This query returns the status of the resolved MAC address setting corresponding to the selected destination IP/IPv6 address.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Resolve MAC Address
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP/IPv6 > Resolve MAC Address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DESTination:RESolve?[<wsp><Number>]
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of resolved MAC destination address.
	1, resolved MAC destination address is Enabled.
	0, resolved MAC destination address is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:DEST:RES 1, ON
	SOUR:DATA:TEL:ETH:STR:DEST:RES? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:RESolve

:SOURce:DATA:TELecom:ETHernet:STReam:ETHer

Description	This command sets the ether type for the selected traffic stream.
	At *RST condition, this value is set to 0x0000 when Network Layer is set to None; 0x0800 for IPv4; 0x86DD for IPv6; 0x8847 for MPLS; 0x8902 for S-OAM (available with EtherSAM)
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > MAC > EtherType
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:ETHer <wsp><Number>, <Set>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	Set:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the EtherType for the selected stream: 0x0000 to 0xFFFF. Available when the Network Layer is set to None.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:STR:ETH 1, 0080
	SOUR:DATA:TEL:ETH:STR:ETH? 1
	Returns: 0080
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TTL

:SOURce:DATA:TELecom:ETHernet:STReam:ETHer?

Description	At *RST condition, this value is set to 0x0000 when Network Layer is set to None; 0x0800 for IPv4; 0x86DD for IPv6; 0x8847 for MPLS; 0x88B7 when Network Layer is set to None with EtherBERT test; 0x8902 for S-OAM (available with EtherSAM). Navigation Path: Setup > Test Configurator > MAC/IP/UDP > MAC > EtherType
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:ETHer? <wsp><Number>
Parameter(s)	**Number**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Depending on the test application, selects a number as follows: - 1 to 16 Streams for Traffic Gen & Mon - 1 to 10 Services for EtherSAM
Response Syntax	<Type>
Response(s)	**Type**: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the EtherType.
Example(s)	SOUR:DATA:TEL:ETH:STR:ETH? 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT?

:SOURce:DATA:TELecom:ETHernet:STReam:IP:AUTomatic:STATus

Description	This command enables/disables the IPv4 Automatic (DHCP) status.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Automatic IP (DHCP)
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Automatic IP (DHCP)
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:IP:AUTomatic:STATus <wsp><Tgen>,[<Set>]
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the IP Automatic status for the selected stream.
	ON, Enables IP Automatic status for the selected stream.
	OFF, disables IP Automatic status for the selected stream.
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:ETH:STR:IP:AUT:STAT 1, ON
	SOUR:DATA:TEL:ETH:STR:IP:AUT:STAT? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:TTL

:SOURce:DATA:TELecom:ETHernet:STReam:IP:AUTomatic:STATus?

Description	This query returns the IPv4 Automatic (DHCP) status.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Automatic IP (DHCP)
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Automatic IP (DHCP)
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:IP:AUTomatic:STATus? <wsp><Tgen>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of Automatic IP.
	1, Automatic IP is enabled.
	0, Automatic IP is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:IP:AUT:STAT 1, ON
	SOUR:DATA:TEL:ETH:STR:IP:AUT:STAT? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:IP:AUTomatic:STATus

:SOURce:DATA:TELecom:ETHernet:STReam:IPVersion:HOP:LIMit

Description	This command Set The Hop Limit field of the IPv6 header shall be configurable.
	At *RST condition, this value is set to 128.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IPv6 > Hop Limit
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Hop Limit
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:IPVersion:HOP:LIMit <wsp><Stream>, <HOP Limit>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
	HOP Limit:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the HOP Limit
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Set>
Example(s)	SOURce:DATA:TELecom:ETHernet:STReam:IPV:HOP:LIMit 1, 25
	SOURce:DATA:TELecom:ETHernet:STReam:IPV:HOP:LIMit? 1
See Also	SOURce:DATA:TELecom:ETHernet:PORT:GLOB:IPV:ADDRess?
	SOURce:DATA:TELecom:ETHernet:PORT:GLOB:IPV:MODE
	SOURce:DATA:TELecom:ETHernet:PORT:GLOB:IPV:IICoupled

:SOURce:DATA:TELecom:ETHernet:STReam:IPVersion:HOP:LIMit?

Description	This query returns The Hop Limit field of the IPv6 header shall be configurable.
	At *RST condition, this value is set to 128.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IPv6 > Hop Limit
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Hop Limit
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:IPVersion:HOP:LIMit? <wsp><Stream>,[<HOP Limit>]
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
	HOP Limit:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current Hop Limit is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<HOP Limit>
Response(s)	**HOP Limit**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the IPv6 Hop Limit.
Example(s)	SOURce:DATA:TELecom:ETHernet:STReam:IPV:HOP:LIMit 1, 25
	SOURce:DATA:TELecom:ETHernet:STReam:IPV:HOP:LIMit? 2
See Also	SOURce:DATA:TELecom:ETHernet:PORT:GLOB:IPV:ADDRess
	SOURce:DATA:TELecom:ETHernet:PORT:GLOB:IPV:MODE
	SOURce:DATA:TELecom:ETHernet:PORT:GLOB:IPV:IICoupled

:SOURce:DATA:TELecom:ETHernet:STReam:MAC:OUI

Description	This command sets the frame format OUI type for 802.3 SNAP frame format.
	At *RST condition, this value is device dependent.
	Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > MAC > OUI
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > MAC > OUI
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:MAC:OUI <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets Frame format type
	RFC1042, sets frame format type to RFC1042
	8021H,sets frame format type to 8021H
	USERDEFined, sets frame format type to USERDEFINED
Response Syntax	<HOP Limit>
Example(s)	SOUR:DATA:TEL:ETH:STR:MAC:OUI RFC1042
	SOUR:DATA:TEL:ETH:STR:MAC:OUI?
	Returns: RFC1042
See Also	SOURce:DATA:TELecom:ETHernet:PORT:NETWork:FRAMe:FORMat:OUI RFC1042
	SOURce:DATA:TELecom:ETHernet:PORT:NETWork:FRAMe:FORMat:OUI? Returns RFC1042

:SOURce:DATA:TELecom:ETHernet:STReam:MAC:OUI?

Description	This query returns the frame format OUI type for 802.3 SNAP frame format.
	At *RST condition, this value is device dependent.
	Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > MAC > OUI
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > MAC > OUI
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:MAC:OUI?
Response Syntax	<OUI>
Response(s)	**OUI**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns Frame format type
	RFC1042, Returns as RFC1042 frame format.
	8021H,Returns 8021H as frame format.
	USERDEFINED,Returns USERDEFINED as frame format.
Example(s)	SOUR:DATA:TEL:ETH:STR:MAC:OUI RFC1042
	SOUR:DATA:TEL:ETH:STR:MAC:OUI?
	Returns: RFC1043
See Also	SOURce:DATA:TELecom:ETHernet:PORT:NETWork:FRAMe:FORMat:OUI RFC1042
	SOURce:DATA:TELecom:ETHernet:PORT:NETWork:FRAMe:FORMat:OUI? Returns RFC1042

:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:COSexp

Description

This command selects the COS/EXP value.

At *RST condition, this value is st to 0 (000 - Low) (default).

Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > MPLS > COS

Syntax

:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:COSexp <wsp><Number>, <Label Index>, <Cosexp>

Parameter(s)

Number:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Depending on the test application, selects a number as follows:

- 1 to 16 Streams for Traffic Gen & Mon

- 1 to 10 Services for EtherSAM

Label Index:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Label Index.

Cosexp:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the COS/EXP value.

Sets the Class Of Service for the instrument.

000LOW: 0 (000 - Low)

001LOW: 1 (001 - Low)

010LOW: 2 (010 - Low)

011LOW: 3 (011 - Low)

100HIGH: 4 (100 - High)

101HIGH: 5 (101 - High)

110HIGH: 6 (110 - High)

111HIGH: 7 (111 - High)

:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:COSexp

Response Syntax	<OUI>
Example(s)	SOUR:DATA:TEL:ETH:STR:MPLS:COS 1, 1, 111HIGH
	SOUR:DATA:TEL:ETH:STR:MPLS:COS? 1, 1
	Returns: 111HIGH
See Also	SOURce:DATA:TELecom:ETHernet:MPLS:HEADers
	SOURce:DATA:TELecom:ETHernet:MPLS:HEADers?

:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:COSexp?

Description	This query returns the COS/EXP value.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > MPLS > COS
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:COSexp? <wsp><Number>, <Label Index>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	Label Index:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Label Index.
Response Syntax	<Cosexp>

:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:COSexp?

Response(s)	**Cosexp**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns Class Of Service for the instrument.
	000LOW, returns 0 (000 - Low) as Class Of Service.
	001LOW, returns 1 (001 - Low) as Class Of Service.
	010LOW, returns 2 (010 - Low) as Class Of Service.
	011LOW, returns 3 (011 - Low) as Class Of Service.
	100HIGH, returns 4 (100 - High) as Class Of Service.
	101HIGH, returns 5 (101 - High) as Class Of Service.
	110HIGH, returns 6 (110 - High) as Class Of Service.
	111HIGH, returns 7 (111 - High) as Class Of Service.
Example(s)	SOUR:DATA:TEL:ETH:STR:MPLS:COS 1, 1, 000LOW
	SOUR:DATA:TEL:ETH:STR:MPLS:COS? 1, 1
	Returns: 000LOW
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MPLS

:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:LABel

Description	This command sets the Multi Protocol Label Switching (MPLS) label type.
	At *RST condition, this value is set to 16.
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > MPLS > Label
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:LABel <wsp><Number>, <Label Index>, <Label Value>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	Label Index:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Label Index.
	Label Value:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the label value.
	Choices are 0 through 1048575.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Cosexp>
Example(s)	SOUR:DATA:TEL:ETH:STR:MPLS:LAB 1, 1, 16
	SOUR:DATA:TEL:ETH:STR:MPLS:LAB? 1, 1
	Returns: 16
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MPLS:TTL

:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:LABel?

Description

This query returns the Multi Protocol Label Switching (MPLS) label type.

At *RST condition, this value is set to 16.

Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > MPLS > Label

Syntax

:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:LABel? <wsp><Number>, <Label Index>,[<Label Value>]

Parameter(s)

Number:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Depending on the test application, selects a number as follows:

- 1 to 16 Streams for Traffic Gen & Mon

- 1 to 10 Services for EtherSAM

Label Index:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Label Index.

Label Value:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

This parameter is optional. If no token is specified, the current label number is returned.

MAXimum: Biggest supported value

MINimum: Smallest supported value

DEFault: Default value

Response Syntax

<Label>

:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:LABel?

Response(s)	**Label**: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the label value.
Example(s)	SOUR:DATA:TEL:ETH:STR:MPLS:LAB 1, 1, 16 SOUR:DATA:TEL:ETH:STR:MPLS:LAB? 1, 1 Returns: 16
See Also	SOURce:DATA:TELecom:ETHernet:MPLS:HEADers SOURce:DATA:TELecom:ETHernet:MPLS:HEADers?

:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:TTL

Description	This command sets the Time to Live (TTL) value of Multi Protocol Label Switching (MPLS).
	At *RST condition, this value is set to 128.
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > MPLS > TTL
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:TTL <wsp><Number>, <Label Index>, <TTL>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	Label Index:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Label Index.
	TTL:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the TTL value.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Label>
Example(s)	SOUR:DATA:TEL:ETH:STR:MPLS:TTL 1, 1, 200
	SOUR:DATA:TEL:ETH:STR:MPLS:TTL? 1, 1
	Returns: 200
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MPLS:COSexp

:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:TTL?

Description	This query returns the Time to Live (TTL) value of Multi Protocol Label Switching (MPLS).
	At *RST condition, this value is set to 128.
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > MPLS > TTL
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:TTL? <wsp><Number>, <Label Index>,[<TTL>]
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	Label Index:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Label Index.
	TTL:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current TTL value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<TTL>
Response(s)	**TTL**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the TTL value.
Example(s)	SOUR:DATA:TEL:ETH:STR:MPLS:TTL 1, 1, 200
	SOUR:DATA:TEL:ETH:STR:MPLS:TTL? 1, 1
	Returns: 200
See Also	SOURce:DATA:TELecom:ELECtrical:STReam:MPLS:LABel?

:SOURce:DATA:TELecom:ETHernet:STReam:PAYLoad

Description	This command sets the payload pattern.
	At *RST condition, this value is set to #HCC.
	Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > Payload > Pattern
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:PAYLoad <wsp><Tgen>, <Pattern>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Pattern:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Selects the payload pattern value.
	Choices are #H00 through #HFF.
Response Syntax	<TTL>
Example(s)	SOUR:DATA:TEL:ETH:STR:PAYL 1, #HFF
	SOUR:DATA:TEL:ETH:STR:PAYL? 1
	Returns: 255
See Also	SOURce:DATA:TEL:ETH:STR:PROFile:RATE

:SOURce:DATA:TELecom:ETHernet:STReam:PAYLoad:UDHeader

Description	This command sets the User Defined Header value.
	At *RST condition, this value is set to "0000000000000000000000000000000".
	Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > Payload > User Defined Header
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:PAYLoad:UDHeader <wsp><Stream>, <Set>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Set:
	The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the User Defined Header.
Response Syntax	<TTL>
Example(s)	SOUR:DATA:TEL:ETH:STR:PAYL:UDH 1, "0000000000000000000000000000011"
	SOUR:DATA:TEL:ETH:STR:PAYL:UDH? 1
	Returns: "0000000000000000000000000000011"
See Also	SOUR:DATA:TEL:ETH:STR:PAYL:UDH:ENAB

:SOURce:DATA:TELecom:ETHernet:STReam:PAYLoad:UDHeader:ENABle

Description	This command enables/disables User Defined Header.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > Payload > User Defined Header
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:PAYLoad:UDHeader:ENABle <wsp><Stream>, <Status>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Status:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<TTL>
Example(s)	SOUR:DATA:TEL:ETH:STR:PAYL:UDH:ENAB 1, ON
	SOUR:DATA:TEL:ETH:STR:PAYL:UDH:ENAB? 1
	Returns: 1
See Also	SOURce:DATA:TEL:ETH:STR:PROFile:RATE

:SOURce:DATA:TELecom:ETHernet:STReam:PAYLoad:UDHeader:ENABle?

Description	This query returns the enable/disable statuf of User Defined Header.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > Payload > User Defined Header
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:PAYLoad:UDHeader:ENABle? <wsp><Stream>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:STR:PAYL:UDH:ENAB 1, ON
	SOUR:DATA:TEL:ETH:STR:PAYL:UDH:ENAB? 1
	Returns: 1
See Also	SOURce:DATA:TEL:ETH:STR:PROFile:RATE

:SOURce:DATA:TELecom:ETHernet:STReam:PAYLoad:UDHeader?

Description	This query returns the User Defined Header value.
	At *RST condition, this value is set to "00000000000000000000000000000000".
	Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > Payload > User Defined Header
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:PAYLoad:UDHeader? <wsp><Stream>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Header>
Response(s)	**Header**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the User Defined Header value.
Example(s)	SOUR:DATA:TEL:ETH:STR:PAYL:UDH 1, "00000000000000000000000000000011"
	SOUR:DATA:TEL:ETH:STR:PAYL:UDH? 1
	Returns: "00000000000000000000000000000011"
See Also	SOUR:DATA:TEL:ETH:STR:PAYL:UDH:ENAB

:SOURce:DATA:TELecom:ETHernet:STReam:PAYLoad?

Description	This query returns payload pattern.
	At *RST condition, this value is set to #HCC.
	Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > Payload > Pattern
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:PAYLoad? <wsp><Tgen>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Pattern>
Response(s)	**Pattern**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Return the payload value.
Example(s)	SOUR:DATA:TEL:ETH:STR:PAYL 1, #HFF
	SOUR:DATA:TEL:ETH:STR:PAYL? 1
See Also	SOURce:DATA:TEL:ETH:STR:PROFile:RATE?

:SOURce:DATA:TELecom:ETHernet:STReam:QPINg

Description	This command quick pings with parameters for mentioned stream. Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP/IPv6 > Quick Ping Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP/IPv6 > Quick Ping
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QPINg <wsp><Tgen>
Parameter(s)	**Tgen**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the stream number. Range: 1 to 16
Response Syntax	<Pattern>
Example(s)	SOUR:DATA:TEL:ETH:STR:QPING 1 SOUR:DATA:TEL:ETH:STR:QPING?
See Also	SOURce:DATA:TELecom:ETHernet:PINJection:MAC:DESTination:ADDRess:ENABle

:SOURce:DATA:TELecom:ETHernet:STReam:QPINg?

Description	This query returns the status of last Quick ping done
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP/IPv6 > Quick Ping
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP/IPv6 > Quick Ping
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QPINg?
Response Syntax	<Ping Status>
Response(s)	**Ping Status**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Quick ping status.
	INPROGRESS | SUCCESSFUL | FAIL | NOPINGDONE
Example(s)	SOUR:DATA:TEL:ETH:STR:QPING 1
	SOUR:DATA:TEL:ETH:STR:QPING?
See Also	SOURce:DATA:TELecom:ETHernet:PINJection:MAC:DESTination:ADDRess:ENABle?

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IP:MULTiplicat

Description	This command enables/disables the IPv4 multiplicator.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Source IP Multiplicator
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Source IP Multiplicator
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IP:MULTiplicat <wsp><Stream>, <Status>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
	Status:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Ping Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:IP:MULT 1, ON
	SOUR:DATA:TEL:ETH:STR:SOUR:IP:MULT? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:IPVersion:HOP:LIMit?

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IP:MULTiplicat?

Description	This query returns the status of IPv4 multiplicator.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Source IP Multiplicator
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Source IP Multiplicator
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IP:MULTiplicat? <wsp><Stream>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<IPv4 Multiplicator Status>
Response(s)	**IPv4 Multiplicator Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of IPv4 multiplicator.
	1, IPv4 multiplicator is Enabled.
	0, IPv4 multiplicator is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:IP:MULT 1, ON
	SOUR:DATA:TEL:ETH:STR:SOUR:IP:MULT? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:IPVersion:HOP:LIMit

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IP:RANGe

Description	This command sets the IPv4 multiplicator range.
	At *RST condition, this value is set to 0To127.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Source IP Multiplicator
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Source IP Multiplicator
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IP:RANGe <wsp><Stream>, <Range>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
	Range:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the range for IP multiplicator.
	0T127: the range from 0 to 127.
	1T128: the range from 1 to 128.
Response Syntax	<IPv4 Multiplicator Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:IP:MULT 1, ON
	SOUR:DATA:TEL:ETH:STR:SOUR:IP:RANG 1, 1T128
	SOUR:DATA:TEL:ETH:STR:SOUR:IP:RANG? 1
	Returns: 1T128
See Also	SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:PMASk?

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IP:RANGe?

Description	This query returns the IPv4 multiplicator range.
	At *RST condition, this value is set to 0To127.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > Source IP Multiplicator
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Source IP Multiplicator
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IP:RANGe? <wsp><Stream>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Range>
Response(s)	**Range**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the range for IPv4 multiplicator.
	0T127, range from 1 to 128 is selected.
	1T128, range from 0 to 127 is selected.
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:IP:MULT 1, ON
	SOUR:DATA:TEL:ETH:STR:SOUR:IP:RANG 1, 1T128
	SOUR:DATA:TEL:ETH:STR:SOUR:IP:RANG? 1
	Returns: 1T128
See Also	SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:PMASk

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IPVersion:MULTiplicat

Description	This command enables/disables the IPv6 multiplicator.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IPv6 > Source IP Multiplicator
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Source IP Multiplicator
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IPVersion:MULTiplicat <wsp><Stream>, <Status>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
	Status:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Range>
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:IPV:MULT 1, ON
	SOUR:DATA:TEL:ETH:STR:SOUR:IPV:MULT? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:IPv6:HOP:LIMit

:SOURce:DATA:TELecom:ETHernet:STRearm:SOURce:IPVersion:MULTiplicat?

Description	This query returns the status of IPv6 multiplicator.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IPv6 > Source IP Multiplicator
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Source IP Multiplicator
Syntax	:SOURce:DATA:TELecom:ETHernet:STRearm:SOURce:IPVersion:MULTiplicat? <wsp><Stream>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of IPv6 multiplicator.
	1, IPv6 multiplicator is enabled.
	0, IPv6 multiplicator is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:IPV:MULT 1, ON
	SOUR:DATA:TEL:ETH:STR:SOUR:IPV:MULT? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:IPv6:HOP:LIMit?

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IPVersion:RANGe

Description	This command sets the IPv6 multiplicator range.
	At *RST condition, this value is set to 1TO128.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IPv6 > Source IP Multiplicator
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Source IP Multiplicator
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IPVersion:RANGe <wsp><Stream>, <Range>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
	Range:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the range for IPv6 multiplicator.
	0T127: the range from 0T127.
	1T128: the range from 1T128.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:IPV:MULT 1, ON
	SOUR:DATA:TEL:ETH:STR:SOUR:IPV:RANG 1, 1T128
	SOUR:DATA:TEL:ETH:STR:SOUR:IPV:RANG? 1
	Returns: 1T128
See Also	SOURce:DATA:TELecom:ETHernet:PORT:GLOB:IPV:PMASk?
	SOURce:DATA:TELecom:ETHernet:PORT:GLOB:IPV:MODE

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IPVersion:RANGe?

Description	This query returns the IPv6 multiplicator range.
	At *RST condition, this value is set to 1TO128.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IPv6 > Source IP Multiplicator
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Source IP Multiplicator
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:IPVersion:RANGe? <wsp><Stream>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Range>
Response(s)	**Range**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the range for IPv6 multiplicator.
	1T128, range from 1T128 is selected.
	0T127, range from 0T127 is selected.
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:IPV:MULT 1, ON
	SOUR:DATA:TEL:ETH:STR:SOUR:IPV:RANG 1, 1T128
	SOUR:DATA:TEL:ETH:STR:SOUR:IPV:RANG? 1
	Returns: 1T128
See Also	SOURce:DATA:TELecom:ETHernet:PORT:GLOB:IPV:PMASk
	SOURce:DATA:TELecom:ETHernet:PORT:GLOB:IPV:MODE

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:MASK:IP

Description	This command sets the IPv4 subnet mask.
	At *RST condition, this value is set to 255.255.0.0.
	Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > IP > Subnet Mask
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Subnet Mask
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:MASK:IP <wsp><Tgen>, <Mask>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Mask:
	The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the IP subnet mask in the form of a string.
Response Syntax	<Range>
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:MASK:IP 1, 255.255.255.255
	SOUR:DATA:TEL:ETH:STR:SOUR:MASK:IP? 1
	Returns: 255.255.255.255
See Also	SOURce:DATA:TELecom:ETHernet:STReam:SOURce:MASK:IP?
	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway:ADDRess

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:MASK:IP ?

Description	This query returns the IPv4 subnet mask.
	At *RST condition, this value is set to 255.255.0.0.
	Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > IP > Subnet Mask
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > Subnet Mask
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:MASK:IP? <wsp><Tgen>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the IP mask address in form of a string.
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:MASK:IP 1, 255.255.255.255
	SOUR:DATA:TEL:ETH:STR:SOUR:MASK:IP? 1
	Returns: 255.255.255.255
See Also	SOURce:DATA:TELecom:ETHernet:STReam:SOURce:MASK:IP
	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway:ADDRess

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT

Description	This command sets the UDP source port number.
	At *RST condition, this value is set to 49184.
	Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > UDP > Source Port
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > UDP > Source Port
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT <wsp><Tgen>,[<Port>]
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Port:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the UDP source port number. Choices are 0 to 65535.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:PORT 1, 65500
	SOUR:DATA:TEL:ETH:STR:SOUR:PORT? 1
	Returns: 65500
See Also	SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT?
	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT:TCP

Description	This command sets the TCP source port number.
	At *RST condition, this value is set to 49184.
	Navigation Path: Setup > Test CONFig Bert > MAC/IP/UDP > TCP > Source Port
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > TCP > Source Port
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT:TCP <wsp><Tgen>,[<Port>]
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Port:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the port number.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:PORT:TCP 1, 65500
	SOUR:DATA:TEL:ETH:STR:SOUR:PORT:TCP? 1
	Returns: 65500
See Also	SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT:TCP?

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT:TCP?

Description	This query returns the TCP source port number.
	At *RST condition, this value is set to 49184.
	Navigation Path: Setup > Test CONFig Bert > MAC/IP/UDP > TCP > Source Port
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > TCP > Source Port
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT:TCP? <wsp><Tgen>,[<Port>]
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Port:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current value is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the source port number for the selected stream.
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:PORT:TCP 1, 65500
	SOUR:DATA:TEL:ETH:STR:SOUR:PORT:TCP? 1
	Returns: 65500
See Also	SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT:TCP

:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT?

Description	This query returns the UDP source port number.
	At *RST condition, this value is set to 49184.
	Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > UDP > Source Port
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > UDP > Source Port
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT? <wsp><Tgen>,[<Port>]
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Port:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current value is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the UDP source port number for the selected stream.
Example(s)	SOUR:DATA:TEL:ETH:STR:SOUR:PORT 1, 65500
	SOUR:DATA:TEL:ETH:STR:SOUR:PORT? 1
	Returns: 65500
See Also	SOURce:DATA:TELecom:ETHernet:STReam:SOURce:PORT
	SOURce:DATA:TELecom:ETHernet:STReam:DESTination:PORT:TCP?

:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:ID

Description	This command sets the Virtual Local Area Network (VLAN) Identification (ID) of the stream.
	At *RST condition, this value is set to 2.
	Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > VLAN > VLAN ID
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > VLAN > VLAN ID
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:ID <wsp><Number>, <Stacked>, <ID>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	Stacked:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Select the Virtual Local Area Network (VLAN) stacked.
	The value for stacked is set to 1 only.
	ID:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Virtual Local Area Network (VLAN) ID of the stream. Choices are 0 to 4095.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:ETH:STR:VLAN 1, ON
	SOUR:DATA:TEL:ETH:STR:VLAN:ID 1, 1, 50
	SOUR:DATA:TEL:ETH:STR:VLAN:ID? 1, 1
	Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:STReam:VLAN
	SOURce:DATA:TELecom:ETHernet:STReam:VLAN:ID?

:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:ID:ELIGible bit

Description	This command enables/disables the Virtual Local Area Network (VLAN) Identification (ID) eligible bit.
	At *RST condition, this value is set to OFF.
	Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > VLAN > Drop Eligible
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > VLAN > Drop Eligible
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:ID:ELIGiblebit <wsp><Number>, <Stacked>,[<Set>]
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	Stacked:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Virtual Local Area Network (VLAN) stacked.
	Set:
	The program data syntax for the third parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the eligible bit for the specific VLAN (Virtual Local Area Network) ID (Identification).
	ON,Enables the eligible bit for the specific VLAN (Virtual Local Area Network) ID (Identification).
	OFF,Disables the eligible bit for the specific VLAN (Virtual Local Area Network) ID (Identification).

:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:ID:ELIGible bit

Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:ETH:STR:VLAN 1, ON
	SOUR:DATA:TEL:ETH:STR:VLAN:ID:ELIG 1, 1, ON
	SOUR:DATA:TEL:ETH:STR:VLAN:ID:ELIG? 1, 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:VLAN
	SOURce:DATA:TELecom:ETHernet:STReam:VLAN:TYPE
	SOURce:DATA:TELecom:ETHernet:STReam:VLAN:ID:ELIGiblebit?

:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:ID:ELIGible bit?

Description	This query returns the status of Virtual Local Area Network (VLAN) Identification (ID) eligible bit.
	At *RST condition, this value is set to OFF.
	Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > VLAN > Drop Eligible
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > VLAN > Drop Eligible
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:ID:ELIGiblebit? <wsp><Number>, <Stacked>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	Stacked:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Virtual Local Area Network (VLAN) stacked.
Response Syntax	<Set>

:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:ID:ELIGible bit?

Response(s)	**Set**: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of the Virtual Local Area Network (VLAN) ID eligible bit. 1, Virtual Local Area Network (VLAN) ID eligible bit is enabled. 0, Virtual Local Area Network (VLAN) ID eligible bit is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:VLAN 1, ON SOUR:DATA:TEL:ETH:STR:VLAN:ID:ELIG 1, 1, ON SOUR:DATA:TEL:ETH:STR:VLAN:ID:ELIG? 1, 1 Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:VLAN SOURce:DATA:TELecom:ETHernet:STReam:VLAN:TYPE SOURce:DATA:TELecom:ETHernet:STReam:VLAN:ID:ELIGiblebit

:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:ID?

Description	This query returns the Virtual Local Area Network (VLAN) Identification (ID) of the stream.
	At *RST condition, this value is set to 2.
	Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > VLAN > VLAN ID
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > VLAN > VLAN ID
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:ID? <wsp><Number>, <ID>,[<Value>]
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Virtual Local Area Network (VLAN) stacked.
	The value for stacked is set to 1 only.
	Value:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current value is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<VLAN ID>

:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:ID?

Response(s)	**VLAN ID**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Virtual Local Area Network (VLAN) ID of the stream.
Example(s)	SOUR:DATA:TEL:ETH:STR:VLAN 1, ON
	SOUR:DATA:TEL:ETH:STR:VLAN:ID 1, 1, 50
	SOUR:DATA:TEL:ETH:STR:VLAN:ID? 1, 1
	Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:STReam:VLAN
	SOURce:DATA:TELecom:ETHernet:STReam:VLAN:ID

:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:PRIority

Description

This command sets the Virtual Local Area Network (VLAN) user priority.

At *RST condition, this value is set to 0.

Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > VLAN > Priority

Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > VLAN > Priority

Syntax

:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:PRIority <wsp><Number>, <Stacked>, <Priority>

Parameter(s)

Number:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Depending on the test application, selects a number as follows:

- 1 to 16 Streams for Traffic Gen & Mon

- 1 to 10 Services for EtherSAM

Stacked:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Select the Virtual Local Area Network (VLAN) stacked.

The value for stacked is set to 1 only.

Priority:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the Virtual Local Area Network (VLAN) user priority.

MAXimum: Biggest supported value.

MINimum: Smallest supported value.

DEFault: Default value.

Response Syntax

<VLAN ID>

Example(s)

SOUR:DATA:TEL:ETH:STR:VLAN 1, ON

SOUR:DATA:TEL:ETH:STR:VLAN:PRI 1, 1, 5

SOUR:DATA:TEL:ETH:STR:VLAN:PRI? 1, 1

Returns: 5

See Also

SOURce:DATA:TELecom:ETHernet:STReam:VLAN

SOURce:DATA:TELecom:ETHernet:STReam:VLAN:PRIority?

:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:PRIority?

Description	This query returns the Virtual Local Area Network (VLAN) user priority.
	At *RST condition, this value is set to 0.
	Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > VLAN > Priority
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > VLAN > Priority
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:PRIority? <wsp><Number>, <Stacked>,[<Value>]
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	Stacked:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Select the Virtual Local Area Network (VLAN) stacked.
	The value for stacked is set to 1 only.
	Value:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current value is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Priority>

:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:PRIority?

Response(s)	**Priority**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Virtual Local Area Network (VLAN) user priority.
Example(s)	SOUR:DATA:TEL:ETH:STR:VLAN 1, ON
	SOUR:DATA:TEL:ETH:STR:VLAN:PRI 1, 1, 5
	SOUR:DATA:TEL:ETH:STR:VLAN:PRI? 1, 1
	Returns: 5
See Also	SOURce:DATA:TELecom:ETHernet:STReam:VLAN
	SOURce:DATA:TELecom:ETHernet:STReam:VLAN:PRIority

:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:TYPE

Description	This command selects the type of Virtual Local Area Network (VLAN).
	At *RST condition, this value is set to device-dependent.
	Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > VLAN > Type
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > VLAN > Type
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:TYPE <wsp><Number>, <Stacked>, <Vtype>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	Stacked:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the VLAN stacked.
	Vtype:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the VLAN type.
	V8100: VLAN type 8100.
	V88A8: VLAN type 88A8.
	V9100: VLAN type 9100.
	V9200: VLAN type 9200.
	V9300: VLAN type 9300.

:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:TYPE

Response Syntax	\<Priority\>
Example(s)	SOUR:DATA:TEL:ETH:STR:VLAN 1, ON
	SOUR:DATA:TEL:ETH:STR:VLAN:STAC 1, 3
	SOUR:DATA:TEL:ETH:STR:VLAN:TYPE 1, 1, V9100
	SOUR:DATA:TEL:ETH:STR:VLAN:TYPE? 1, 3
	Returns: V9100
See Also	SOURce:DATA:TELecom:ETHernet:STReam:VLAN
	SOURce:DATA:TELecom:ETHernet:STReam:VLAN:STACked
	SOURce:DATA:TELecom:ETHernet:STReam:VLAN:TYPE?

:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:TYPE?

Description	This query returns the type of the Virtual Local Area Network (VLAN).
	At *RST condition, this value is set to device-dependent.
	Navigation Path: BERT > Setup > Test Configurator > MAC/IP/UDP > VLAN > Type
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > VLAN > Type
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:TYPE? <wsp><Number>, <Stacked>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	Stacked:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the VLAN stacked.
Response Syntax	<Vtype>

:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:TYPE?

Response(s)

Vtype:

The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.

Returns the type of the VLAN.

V8100, the VLAN type 8100 is selected.

V88A8, the VLAN type 88A8 is selected.

V9100, the VLAN type 9100 is selected.

V9200, the VLAN type 9200 is selected.

V9300, the VLAN type 9300 is selected.

Example(s)

SOUR:DATA:TEL:ETH:STR:VLAN 1, ON

SOUR:DATA:TEL:ETH:STR:VLAN:STAC 1, 3

SOUR:DATA:TEL:ETH:STR:VLAN:TYPE 1, 1, V9100

SOUR:DATA:TEL:ETH:STR:VLAN:TYPE? 1, 1

Returns: V9100

See Also

SOURce:DATA:TELecom:ETHernet:STReam:VLAN

SOURce:DATA:TELecom:ETHernet:STReam:VLAN:STACked

SOURce:DATA:TELecom:ETHernet:STReam:VLAN:TYPE

EtherBERT, FC BERT, BERT (CPRI), and Unframed BERT

:FETCh:DATA:TELecom:EOTN:ALARm:LINK?

Description	This query returns the current status of Transcoding (EoOTN) alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > LINK (Transcoding)
Syntax	:FETCh:DATA:TELecom:EOTN:ALARm:LINK? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm type whose status is to be retrieved.
	LOAML1027B
	LOBL1027B
	HIBER1027B: Hi-BER1027B
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:EOTN:ALAR:LINK? LOBL1027B
See Also	FETCh:DATA:TELecom:PATTern:ALARm:SYNCh?

:FETCh:DATA:TELecom:ETHernet:EOTN:ALARm:LINK?

Description	This query returns the current status of Ethernet (EoOTN) alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > LINK (Ethernet)
Syntax	:FETCh:DATA:TELecom:ETHernet:EOTN:ALARm:LINK? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LDOWn: Link Down
	LFAR: L Fault Rcd
	LFAD: L Fault Det
	RFAult: Remote Fault
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETHernet:EOTN:ALAR:LINK? RFAULT
See Also	FETCh:DATA:TELecom:PATTern:ALARm:SYNCh?

:SENSe:DATA:TELecom:COUPled

Description	This command enables/disables the receiver coupling.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - Coupled RX to TX
Syntax	:SENSe:DATA:TELecom:COUPled <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the receiver coupling.
	ON: Enabled
	OFF: Disabled
Response Syntax	<Status>
Example(s)	SENS:DATA:TEL:COUP ON
	SENS:DATA:TEL:COUP?
	Returns: 1
See Also	SENSe:DATA:TELecom:PATTern:RXP:STATus ON

:SENSe:DATA:TELecom:COUPled?

Description	This query returns the status of the receiver coupling.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - Coupled RX to TX
Syntax	:SENSe:DATA:TELecom:COUPled?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the coupled status of the receiver.
	1, Coupled status is enabled.
	0, Coupled status is disabled.
Example(s)	SENS:DATA:TEL:COUP ON
	SENS:DATA:TEL:COUP?
	Returns: 1
See Also	SENSe:DATA:TELecom:PATTern:RXP:STATus?

:SENSe:DATA:TELecom:FIBer:RTLatency:THReshold

Description	This command sets Round-Trip Latency Threshold in milliseconds.
	At *RST, this value is set to 15.
	Navigation Path: Setup > Test Configurator > FC BERT > Latency Tags Insertion - Round-Trip Latency Threshold
Syntax	:SENSe:DATA:TELecom:FIBer:RTLatency:THReshold <wsp><Threshold Value>
Parameter(s)	**Threshold Value**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the threshold value.
	MAXimum: Maximum.
	MINimum: Minimum.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FIB:STR:LAT ON
	SOUR:DATA:TEL:FIB:STR:LAT:VERD ON
	SENS:DATA:TEL:FIB:RTL:THR 800.55
See Also	SOURce:DATA:TELecom:FIBer:STReam:SIZE

:SENSe:DATA:TELecom:FIBer:RTLatency:THReshold?

Description	This query returns Round-Trip Latency Threshold in milliseconds.
	At *RST, this value is set to 15.
	Navigation Path: Setup > Test Configurator > FC BERT > Latency Tags Insertion - Round-Trip Latency Threshold
Syntax	:SENSe:DATA:TELecom:FIBer:RTLatency:THReshold?[<wsp><Threshold Value>]
Parameter(s)	**Threshold Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If unspecified, the current value is returned.
	MAXimum: Maximum.
	MINimum: Minimum.
Response Syntax	<Threshold>
Response(s)	**Threshold**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the round trip latency threshold value.
Example(s)	SOUR:DATA:TEL:FIB:STR:LAT ON
	SOUR:DATA:TEL:FIB:STR:LAT:VERD ON
	SENS:DATA:TEL:FIB:RTL:THR 800.56
	SENS:DATA:TEL:FIB:RTL:THR?
	Returns: 800.56
See Also	SOURce:DATA:TELecom:FIBer:STReam:SIZE?

:SENSe:DATA:TELecom:PATTern:RXPanalysis:STATus

Description	This command sets the status of the RX Pattern Analysis.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - No Pattern Analysis (Live)
Syntax	:SENSe:DATA:TELecom:PATTern:RXPanalysis:STATus <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the status of the RX Pattern Analysis.
	ON: Enabled
	OFF: Disabled
Response Syntax	<Threshold>
Example(s)	SENS:DATA:TEL:PATT:RXP:STAT ON
	SENS:DATA:TEL:PATT:RXP:STAT?
	Returns: 1
See Also	SENSe:DATA:TELecom:COUPled

:SENSe:DATA:TELecom:PATTern:RXPanalysis:STATus?

Description	This query returns the status of the RX Pattern Analysis.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - No Pattern Analysis (Live)
Syntax	:SENSe:DATA:TELecom:PATTern:RXPanalysis:STATus?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the pattern analysis status of the receiver.
	1, RX Pattern Analysis is enabled.
	0, RX Pattern Analysis is disabled.
Example(s)	SENS:DATA:TEL:PATT:RXP:STAT ON
	SENS:DATA:TEL:PATT:RXP:STAT?
	Returns: 1
See Also	SENSe:DATA:TELecom:COUPled?

:SENSe:DATA:TELecom:PATTern:TYPE

Description	This command selects test pattern type for the receiver.
	At *RST condition, this value is set to PRBs2E31.
	Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - RX Pattern
Syntax	:SENSe:DATA:TELecom:PATTern:TYPE <wsp><Type>

:SENSe:DATA:TELecom:PATTern:TYPE

Parameter(s)	Type:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the pattern type for the receiver.

CJTPat: CJTPAT

CRPat: CRPAT

CSPat: CSPAT

DALY: DALY Pattern

LCRTpat: LCRTPAT

MULtipattern: Multi-Pattern

NCLient: NULL CLIENT

P0000: 0000 Pattern

P1010: 1010 Pattern

P1100: 1100 Pattern

P1111: 1111 Pattern

P1IN16: 1in16 (1:15)

P1IN8: 1in8 (1:7)

P2IN8: 2in8

P3IN24: 3in24

P55Octet: 55 Octet

PRBS2E11: PRBS11

PRBS2E15: PRBS15

PRBS2E20: PRBS20

PRBS2E23: PRBS23

PRBS2E31: PRBS31

PRBS2E9: PRBS9

PRBS31UNScrambled: PRBS31 Unscrambled

QRSS: QRSS Pattern

SCRTpat: SCRTPAT

SEEDA: Seed A

SEEDB: Seed B

UPATtern: User Defined

:SENSe:DATA:TELecom:PATTern:TYPE

Response Syntax	\<Set\>
Example(s)	SENS:DATA:TEL:PATT:TYPE PRBs2E15
	SENS:DATA:TEL:PATT:TYPE?
	Returns: PRBs2E15
See Also	SENSe:DATA:TELecom:PATTern:TYPE?

:SENSe:DATA:TELecom:PATTern:TYPE:USER:VALue

Description	This command sets the receiver user pattern value for the specified index.
	At *RST condition, this value is set to #H00000000.
	Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - RX Pattern - User Pattern
Syntax	:SENSe:DATA:TELecom:PATTern:TYPE:USER:VALue[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the receiver user pattern value for the specified index.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault:Default value
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:PATT:TYPE:USER:VAL #H00000001
	SENS:DATA:TEL:PATT:TYPE:USER:VAL?
	Returns: 1
See Also	SENSe:DATA:TELecom:PATTern:TYPE
	SENSe:DATA:TELecom:PATTern:TYPE:USER:VALue?

:SENSe:DATA:TELecom:PATTern:TYPE:USER:VALue?

Description	This query returns the receiver user pattern value for the specified index.
	At *RST condition, this value is set to #H00000000.
	Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - RX Pattern - User Pattern
Syntax	:SENSe:DATA:TELecom:PATTern:TYPE:USER:VALue?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault:Default value
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the user pattern value for the receiver.
Example(s)	SENS:DATA:TEL:PATT:TYPE:USER:VAL #H00000001
	SENS:DATA:TEL:PATT:TYPE:USER:VAL?
	Returns: 1
See Also	SENSe:DATA:TELecom:PATTern:TYPE
	SENSe:DATA:TELecom:PATTern:TYPE:USER:VALue

:SENSe:DATA:TELecom:PATTern:TYPE?

Description	This query returns test pattern type for the receiver.
	At *RST condition, this value is set to PRBs2E31.
	Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - RX Pattern
Syntax	:SENSe:DATA:TELecom:PATTern:TYPE?
Response Syntax	<Pattern>

:SENSe:DATA:TELecom:PATTern:TYPE?

Response(s)	**Pattern**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the pattern type for the receiver.
	PRBs2E9, pattern type PRBS9 is selected.
	PRBs2E11, pattern type PRBS11 is selected.
	PRBs2E15, pattern type PRBS15 is selected.
	PRBs2E20, pattern type PRBS20 is selected.
	PRBs2E23, pattern type PRBS23 is selected.
	PRBs2E31, pattern type PRBS31 is selected.
	UPATTERN, pattern type User Defined is selected.
	NCLIENT, pattern type NCLIENT is selected.
	PRBS31UNSCRAMBLED, pattern type PRBS31 Unscrambled is selected.
	SEEDA, pattern type Seed A is selected.
	SEEDB, pattern type Seed B is selected.
	P1111, pattern type 1111 Pattern is selected.
	P1100, pattern type 1100 Pattern is selected.
	P1010, pattern type 1010 Pattern is selected.
	P0000, pattern type 0000 Pattern is selected.
	P1IN8, pattern type 1in8 (1:7) is selected.
	P1IN16, pattern type 1in16 (1:15) is selected.
	P2IN8, pattern type 2in8 is selected.
	P3IN24, pattern type 3in24 is selected.
	P55OCTET, pattern type 55 Octet is selected.
	QRSS, pattern type QRSS is selected.
	DALY, pattern type DALY is selected.
	MULTIPATTERN, pattern type Multi-Pattern is selected.
Example(s)	SENS:DATA:TEL:PATT:TYPE PRBs2E15
	SENS:DATA:TEL:PATT:TYPE?
	Returns: PRBs2E15
See Also	SENSe:DATA:TELecom:PATTern:TYPE

:SENSe:DATA:TELecom:POLarity

Description	This command sets the polarity pattern of the receiver.
	At *RST condition, this value is set to NINVerted.
	Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - RX Pattern - Invert
Syntax	:SENSe:DATA:TELecom:POLarity <wsp><Polarity>
Parameter(s)	**Polarity**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the polarity pattern for the receiver.
	NINVerted: Non-inverted.
	INVerted: Inverted.
Response Syntax	<Pattern>
Example(s)	SENS:DATA:TEL:POL INV
	SENS:DATA:TEL:POL?
	Returns: INVerted
See Also	SENSe:DATA:TELecom:PATTern:TYPE
	SENSe:DATA:TELecom:PATTern:POLarity?

:SENSe:DATA:TELecom:POLarity?

Description	This query returns the polarity pattern of the receiver. At *RST condition, this value is set to NINVerted. Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - RX Pattern - Invert
Syntax	:SENSe:DATA:TELecom:POLarity?
Response Syntax	<Polarity>
Response(s)	**Polarity**: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the polarity pattern of the receiver. NINVERTED, priority as non-inverted is selected. INVERTED, priority as inverted is selected.
Example(s)	SENS:DATA:TEL:POL INV SENS:DATA:TEL:POL? Returns: INVerted
See Also	SENSe:DATA:TELecom:PATTern:TYPE SENSe]:DATA:TELecom:PATTern:POLarity

:SENSe:DATA:TELecom:SDT:DT

Description	This command selects the Debounce Time (ms).
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > <Test Block> > Service Disruption - Debounce Time
Syntax	:SENSe:DATA:TELecom:SDT:DT <wsp><Time>
Parameter(s)	**Time**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the debounce time.
	Choices are from 0 ms to 500 ms.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Polarity>
Example(s)	SENS:DATA:TEL:SDT:DT 20
See Also	SENSe:DATA:TELecom:SDT:NTTime

:SENSe:DATA:TELecom:SDT:DT?

Description	This query returns the debounce time (ms).
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > <Test Block> > Service Disruption - Debounce Time.
Syntax	:SENSe:DATA:TELecom:SDT:DT?[<wsp><Debounce Time>]
Parameter(s)	**Debounce Time**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optionnal.
	If no token is specified, the current debounce time is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Time>
Response(s)	**Time**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the debounce time.
Example(s)	SENS:DATA:TEL:SDT:DT?
See Also	SENSe:DATA:TELecom:SDT:NTTime?

:SENSe:DATA:TELecom:SDT:NTTime

Description	This command selects the no Traffic time(ms) without any Traffic before stopping SDT measurement.
	At *RST condition, this value is set to 50.
	Navigation Path: Setup > Test Configurator > <Test Block> > Service Disruption - No Traffic Time
Syntax	:SENSe:DATA:TELecom:SDT:NTTime <wsp><Time>
Parameter(s)	**Time**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the no traffic time without any traffic before stopping SDT measurement.
	Choices are from 0.005ms to 1000 ms.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Time>
Example(s)	SENS:DATA:TEL:SDT:NTT 18
	SENS:DATA:TEL:SDT:NTT?
	Returns: 18
See Also	SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE

:SENSe:DATA:TELecom:SDT:NTTime?

Description	This query returns the no traffic time(ms) without any traffic before stopping SDT measurement.
	At *RST condition, this value is set to 10000.
	Navigation Path: Setup > Test Configurator > <Test Block> > Service Disruption - No Traffic Time
Syntax	:SENSe:DATA:TELecom:SDT:NTTime?[<wsp><No Traffic Time>]
Parameter(s)	**No Traffic Time**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional.
	If no token is specified, the current no traffic time without any traffic is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Time>
Response(s)	**Time**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the no traffic time without any traffic before stopping SDT measurement.
Example(s)	SENS:DATA:TEL:SDT:NTT 200
	SENS:DATA:TEL:SDT:NTT?
	Returns: 200
See Also	SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE

:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:ALL

Description	This command selects all lanes for further configuration.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - All Lanes
Syntax	:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:ALL <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Selects all receiver lanes.
	ON: Selects all lanes
	OFF: Unselects all lanes
Response Syntax	<Time>
Example(s)	SENS:DATA:TEL:UPRB:PATT:GLOB:ALL OFF
	SENS:DATA:TEL:UPRB:PATT:GLOB:ALL?
	Returns: 0
See Also	SENSe:DATA:TELecom:COUPled?

:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:ALL?

Description	This query returns the status of all lanes for further configuration.
	At *RST condition, this value is set to NINVerted.
	Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - All Lanes
Syntax	:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:ALL?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of all lanes of the receiver.
	1, All lanes of the receiver status is enabled.
	0, All lanes of the receiver status is disabled.
Example(s)	SENS:DATA:TEL:UPRB:PATT:GLOB:ALL ON
	SENS:DATA:TEL:UPRB:PATT:GLOB:ALL?
	Returns: 1
See Also	SENSe:DATA:TELecom:COUPled

:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:COUPled

Description	This command sets the global pattern for the coupled status for the receiver.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - Coupled RX to TX
Syntax	:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:COUPled <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:UPRB:PATT:GLOB:COUP ON
	SENS:DATA:TEL:UPRB:PATT:GLOB:COUP?
	Returns: 1
See Also	SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:ALL?

:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:COUPled?

Description	This query returns the global pattern for the coupled status for the receiver.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - Coupled RX to TX
Syntax	:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:COUPled?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the coupled status of the receiver.
	1, coupled status of the receiver is enabled.
	0, coupled status of the receiver is disabled.
Example(s)	SENS:DATA:TEL:UPRB:PATT:GLOB:COUP?
See Also	SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:ALL

:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:POLarity:RX

Description	This command sets the global Invert pattern for the receiver.
	At *RST condition, this value is set to NINVerted.
	Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - RX Pattern - Invert
Syntax	:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:POLarity:RX <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the polarity for the receiver.
	NINVerted: Non-Inverted
	INVerted: Inverted
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:UPRB:PATT:GLOB:POL:RX INV
	SENS:DATA:TEL:UPRB:PATT:GLOB:POL:RX?
	Returns: INVerted
See Also	SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:RX?

:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:POLarity:RX?

Description	This query returns the global Invert pattern for the receiver.
	At *RST condition, this value is set to NINVerted.
	Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - RX Pattern - Invert
Syntax	:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:POLarity:RX?
Response Syntax	<Pattern>
Response(s)	**Pattern**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the polarity type of the transmitter.
	NINVerted, indicates Non-Inverted as the polarity.
	INVerted, indicates Inverted as the polarity.
Example(s)	SENS:DATA:TEL:UPRB:PATT:GLOB:POL:RX INV
	SENS:DATA:TEL:UPRB:PATT:GLOB:POL:RX?
	Returns: INVerted
See Also	SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:RX

:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:RX

Description	This command sets the global test pattern type for the receiver. At *RST condition, this value is set to PRBs2E23. Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - RX Pattern
Syntax	:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:RX <wsp><Type>
Parameter(s)	**Type**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the test pattern for the receiver. PRBS2E9: PRBS 2^9-1. PRBS2E11: PRBS 2^{11}-1. PRBS2E15: PRBS 2^{15}-1. PRBS2E20: PRBS 2^{20}-1. PRBS2E23: PRBS 2^{23}-1. PRBS2E31: PRBS 2^{31}-1. PSWAVE1: PSWAVE1. PSWAVE2: PSWAVE2. PSWAVE4: PSWAVE4. PSWAVE8:PSWAVE8. PSWAVE16: PSWAVE16. PRBS31Q: PRBS31Q, PRBS13Q: PRBS13Q, SSPRQ: SSPRQ, UPATtern: User Pattern
Response Syntax	<Pattern>
Example(s)	SENS:DATA:TEL:UPRB:PATT:GLOB:PRBS:TYPE:RX PRBs2E31 SENS:DATA:TEL:UPRB:PATT:GLOB:PRBS:TYPE:RX? Returns: PRBs2E31
See Also	SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:RX?

:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:RX?

Description	This query returns the global test pattern type for the receiver.
	At *RST condition, this value is set to PRBs2E23.
	Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - RX Pattern
Syntax	:SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:RX?
Response Syntax	<Pattern>
Response(s)	**Pattern**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the test pattern for the Receiver.
	PRBs2E9, PRBS 2^9-1 is selected.
	PRBs2E11, PRBS 2^11-1 is selected.
	PRBs2E15, PRBS 2^15-1 is selected.
	PRBs2E20, PRBS 2^20-1 is selected.
	PRBs2E23, PRBS 2^23-1 is selected.
	PRBs2E31, PRBS 2^31-1 is selected.
	PSWAVE1, PSWAVE1 is selected.
	PSWAVE2, PSWAVE2 is selected.
	PSWAVE4, PSWAVE4 is selected.
	PSWAVE8, PSWAVE8 is selected.
	PSWAVE16, PSWAVE16 is selected.
	PRBS31Q, PRBS31Q is selected.
	PRBS13Q, PRBS13Q is selected.
	SSPRQ, SSPRQis selected.
Example(s)	SENS:DATA:TEL:UPRB:PATT:GLOB:PRBS:TYPE:RX?
See Also	SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:RX

:SENSe:DATA:TELecom:UPRBs:PATTern:POLarity:RX

Description	This command sets the Invert pattern per lane for the receiver.
	At *RST condition, this value is set to NINVerted.
	Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - RX Pattern - Invert
Syntax	:SENSe:DATA:TELecom:UPRBs:PATTern:POLarity:RX <wsp><Lane>, <Invert>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Invert:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the polarity for the receiver.
	NINVerted: Non-Inverted
	INVerted: Inverted
Response Syntax	<Pattern>
Example(s)	SENS:DATA:TEL:UPRB:PATT:POL:RX 1, INV
See Also	SENSe:DATA:TELecom:UPRBs:PATTern:POLarity:RX?
	SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:ALL

:SENSe:DATA:TELecom:UPRBs:PATTern:POLarity:RX?

Description	This query returns the Invert pattern per lane for the receiver.
	At *RST condition, this value is set to NINVerted.
	Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - RX Pattern - Invert
Syntax	:SENSe:DATA:TELecom:UPRBs:PATTern:POLarity:RX? <wsp><Lane>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Slects the lane number.
Response Syntax	<Invert>
Response(s)	**Invert**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Invert pattern setting for the selected lane.
Example(s)	SENS:DATA:TEL:UPRB:PATT:POL:RX? 1
See Also	SENSe:DATA:TELecom:UPRBs:PATTern:POLarity:RX
	SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:ALL

:SENSe:DATA:TELecom:UPRBs:PATTern:PRBS:TYPE:RX

Description	This command sets the test pattern type for the receiver for the selected lane.
	At *RST condition, this value is set to PRBs2E23.
	Navigation Path: Setup > Test Configurator > Unframed BERT > PCS Lane - RX Pattern
Syntax	:SENSe:DATA:TELecom:UPRBs:PATTern:PRBS:TYPE:RX <wsp><Lane>, <Type>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane for status of the transmitted error pattern. The range for the lane is from 0 to 19.
	Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the test pattern type for the receiver.
	PRBS2E9: PRBS 2^9-1.
	PRBS2E11: PRBS 2^11-1.
	PRBS2E15: PRBS 2^15-1.
	PRBS2E20: PRBS 2^20-1.
	PRBS2E23: PRBS 2^23-1.
	PRBS2E31: PRBS 2^31-1.
Response Syntax	<Invert>
Example(s)	SENS:DATA:TEL:UPRB:PATT:PRBS:TYPE:RX 1, PRBs2E23
	SENS:DATA:TEL:UPRB:PATT:PRBS:TYPE:RX? 1
	Returns: PRBs2E23
See Also	SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:POLarity:RX?

:SENSe:DATA:TELecom:UPRBs:PATTern:PRBS:TYPE:RX?

Description	This query returns the test pattern type for the transmitter for the selected lane.
	At *RST condition, this value is set to PRBs2E23.
	Navigation Path: Setup > Test Configurator > Unframed BERT > PCS Lane - RX Pattern
Syntax	:SENSe:DATA:TELecom:UPRBs:PATTern:PRBS:TYPE:RX? <wsp><Lane>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane for status of the transmitted error pattern. The range for the lane is from 0 to 19.
Response Syntax	<Pattern>
Response(s)	**Pattern**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the test pattern type for the receiver.
	PRBs2E9, PRBS 2^9-1 is selected.
	PRBs2E11, PRBS 2^11-1 is selected.
	PRBs2E15, PRBS 2^15-1 is selected.
	PRBs2E20, PRBS 2^20-1 is selected.
	PRBs2E23, PRBS 2^23-1 is selected.
	PRBs2E31, PRBS 2^31-1 is selected.
	PSWAVE1, PSWAVE1 is selected.
	PSWAVE2, PSWAVE2 is selected.
	PSWAVE4, PSWAVE4 is selected.
	PSWAVE8, PSWAVE8 is selected.
	PSWAVE16, PSWAVE16 is selected.
Example(s)	SENS:DATA:TEL:UPRB:PATT:PRBS:TYPE:RX? 1
See Also	SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:POLarity:RX

:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:VERDict:DISable

Description	This command disables Pass/Fail Verdict in Unframed Bert.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > Test Configurator > BERT > Bit Error - Pass/Fail Verdict and BER Threshold
Syntax	:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:VERDict:DISable
Response Syntax	<Pattern>
Example(s)	SENS:DATA:TEL:UPRB:PATT:THR:VERD:DIS

:SOURce:DATA:TELecom:CPRI:OBSai:VERDict:ENABle

Description	This command enables/disables the pass/fail verdict.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > BERT > OBSAI - Pass/Fail Verdict
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:VERDict:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Pattern>
Example(s)	SOUR:DATA:TEL:CPRI:OBS:VERD:ENAB ON
See Also	SOURce:DATA:TELecom:CPRI:OBSai:VERDict:ENABle?

:SOURce:DATA:TELecom:CPRI:OBSai:VERDict:ENABle?

Description	This query returns the enable/disable verdict status.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > BERT > OBSAI - Pass/Fail Verdict
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:VERDict:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:CPRI:OBS:VERD:ENAB?
See Also	SOURce:DATA:TELecom:CPRI:OBSai:VERDict:ENABle

:SOURce:DATA:TELecom:CPRI:VERDict:ENABle

Description	This command sets status of CPRI Threshold Enable/Disable.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > Test Configurator > BERT > CPRI - Pass/Fail Verdict
Syntax	:SOURce:DATA:TELecom:CPRI:VERDict:ENABle <wsp><Status>
Parameter(s)	Status:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATa:TEL:CPRI:VERD:ENAB ON
See Also	SOURce:DATA:TELecom:CPRI:VERDict:ENABle?

:SOURce:DATA:TELecom:CPRI:VERDict:ENABle?

Description	This Query returns status of CPRI Threshold.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > Test Configurator > BERT > CPRI - Pass/Fail Verdict
Syntax	:SOURce:DATA:TELecom:CPRI:VERDict:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATa:TEL:CPRI:VERDict:ENAB?
See Also	SOURce:DATA:TELecom:CPRI:VERDict:ENABle

:SOURce:DATA:TELecom:ETHernet:STReam:LATency:MODE:TYPE

Description	This command selects the Latency Mode.
	At *RST condition, this value is set to Round-Trip.
	Navigation Path: Setup > Test Configuration > EtherBERT > Latency > Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:LATency:MODE:TYPE <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Select the Latency Mode
	ROUNDTRIP: Round-Trip
	ONEWay: One-Way P<m> <-> P<n>, where m = FIRST port and n = SECOND port
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:LAT:MODE ONEW
	SOUR:DATA:TEL:ETH:STR:LAT:MODE?
	Returns: ONEWay
See Also	SOURce:DATA:TELecom:PORT

:SOURce:DATA:TELecom:ETHernet:STReam:LATency:MODE:TYPE?

Description	This query returns the Latency Mode.
	At *RST condition, this value is set to Round-Trip.
	Navigation Path: Setup > Test Configuration > EtherBERT > Latency > Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:LATency:MODE:TYPE?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Latency Mode.
	ROUNDTRIP: Round-Trip
	ONEWay: One-Way P<m> <-> P<n>, where m = FIRST port and n = SECOND port
Example(s)	SOUR:DATA:TEL:ETH:STR:LAT:MODE ONEW
	SOUR:DATA:TEL:ETH:STR:LAT:MODE?
	Returns: ONEWay
See Also	SOURce:DATA:TELecom:PORT?

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:ENABle

Description	This command enables/disables QoS metrics Latency measurement.
	At *RST condition, this value is OFF.
	Navigation Path: Setup > Test Configurator > EtherBERT > Latency > Enable
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:ENABle <wsp><Latency Measurement Enable>
Parameter(s)	**Latency Measurement Enable**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:LAT:ENAB ON
	SOUR:DATA:TEL:ETH:STR:QOSM:LAT:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:STATus

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:ENABle?

Description	This query returns status of QoS metrics Latency measurement
	At *RST condition, this value is OFF.
	Navigation Path: Setup > Test Configurator > EtherBERT > Latency > Enabled
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the Latency measurement status.
	1, Latency measurement is enabled.
	0, Latency measurement is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:LAT:ENAB ON
	SOUR:DATA:TEL:ETH:STR:QOSM:LAT:ENAB ?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:STATus?

:SOURce:DATA:TELecom:ETHernet:STReam:RATE

Description	This command sets the transmitter payload rate for the selected traffic payload type.
	At *RST condition, this value is set to 100%.
	Navigation Path: Setup > Test Configurator > EtherBERT > Shaping - TX Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:RATE 56666
	SOUR:DATA:TEL:ETH:STR:RATE?
	Returns: 56666
See Also	SOURce:DATA:TELecom:ETHernet:STReam:RATE?
	SOURce:DATA:TELecom:ETHernet:STReam:TRANsmit:NFRame

:SOURce:DATA:TELecom:ETHernet:STReam:RATE?

Description	This query returns the transmitter payload rate for the selected traffic payload type.
	At *RST condition, this value is set to 100%.
	Navigation Path: Setup > Test Configurator > EtherBERT > Shaping - TX Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:RATE?[<wsp><Rate>]
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current value is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the stream rate for the transmitter.
Example(s)	SOUR:DATA:TEL:ETH:STR:RATE 56666
	SOUR:DATA:TEL:ETH:STR:RATE?
	Returns: 56666
See Also	SOURce:DATA:TELecom:ETHernet:STReam:RATE

:SOURce:DATA:TELecom:ETHernet:STReam:TX:STATus

Description	This command enables/disable the transmitter.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > EtherBERT > Shaping - Enable TX
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:TX:STATus <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the transmitter status.
	ON: Enabled
	OFF: Disabled
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:ETH:STR:TX:STAT ON
	SOUR:DATA:TEL:ETH:STR:TX:STAT?
	Returns: 1
See Also	SOURce:DATA:TELcom:ETHernet:STReam:TX:STATus

:SOURce:DATA:TELecom:ETHernet:STReam:TX:STATus?

Description	This query returns the transmitter status.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > EtherBERT > Shaping - Enable TX
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:TX:STATus?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the transmitter status.
	1, Transmitter is enabled.
	0, Transmitter is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:TX:STAT ON
	SOUR:DATA:TEL:ETH:STR:TX:STAT?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:TX:STATus?

:SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier

Description	Selects the Client Identifier used by all subsequent client related commands or queries.
	Needs to be part of the currently configured client into the FlexE calendar.
	At *RST condition, this value is set to 0 (Invalid Client ID).
Syntax	:SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier <wsp><Client Id>
Parameter(s)	**Client Id**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selected Client Identifier
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FETH:CLI:ID 1
	SOUR:DATA:TEL:FETH:CLI:ID?
	Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier?

:SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier?

Description	Returns the Client Identifier used by all subsequent client related commands or queries.
	At *RST condition, this value is set to 0 (Invalid Client ID)
Syntax	:SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier?
Response Syntax	<Client Id>
Response(s)	**Client Id**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Selected Client Identifier
Example(s)	SOUR:DATA:TEL:FETH:CLI:ID 1
	SOUR:DATA:TEL:FETH:CLI:ID?
	Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier

:SOURce:DATA:TELecom:FETHernet:PATTern:CLIent:IDentifier

Description	Selects the Client Identifier associated with Pattern.
	At *RST condition, this value is set to 1 (Default Client ID).
	Navigation Path: Setup > Test Configurator > Clients > BERT > Pattern on Client ID
Syntax	:SOURce:DATA:TELecom:FETHernet:PATTern:CLIent:IDentifier <wsp><Client ID>
Parameter(s)	**Client ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects Client Identifier.
Response Syntax	<Client Id>
Example(s)	SOUR:DATA:TEL:FETH:PATT:CLI:ID 2
	SOUR:DATA:TEL:FETH:PATT:CLI:ID?
	Returns: 2

:SOURce:DATA:TELecom:FETHernet:PATTern:CLIent:IDentifier?

Description	Returns the Client Identifier Selected for Pattern.
	At *RST condition, this value is set to 1 (Default Client ID).
	Navigation Path: Setup > Test Configurator > Clients > BERT > Pattern on Client ID
Syntax	:SOURce:DATA:TELecom:FETHernet:PATTern:CLIent:IDentifier?
Response Syntax	<Client ID>
Response(s)	**Client ID**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns Client Identifier.
Example(s)	SOUR:DATA:TEL:FETH:PATT:CLI:ID 2
	SOUR:DATA:TEL:FETH:PATT:CLI:ID?
	Returns: 2

:SOURce:DATA:TELecom:FIBer:STReam:LATency

Description	This command enables/disables the latency tags status.
	At *RST, this value is set to ON.
	Navigation Path: Setup > Test Configurator > FC BERT > Latency Tags Insertion - Latency Tags
Syntax	:SOURce:DATA:TELecom:FIBer:STReam:LATency <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Client ID>
Example(s)	SOUR:DATA:TEL:FIB:STR:LAT ON
See Also	SOURce:DATA:TELecom:FIBer:PORT:LOGin:STATus

:SOURce:DATA:TELecom:FIBer:STReam:LATency:VERDict

Description	This command sets the Pass/Fail Verdict for the instrument.
	At *RST condition, this value is set to Enabled.
	Navigation Path: Setup > Test Configurator > FC BERT > Latency Tags Insertion - Pass/Fail Verdict
Syntax	:SOURce:DATA:TELecom:FIBer:STReam:LATency:VERDict <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Client ID>
Example(s)	SOUR:DATA:TEL:FIB:STR:LAT ON
	SOUR:DATA:TEL:FIB:STR:LAT:VERD ON
See Also	SOURce:DATA:TELecom:FIBer:PORT:LOGin:STATus

:SOURce:DATA:TELecom:FIBer:STReam:LATency:VERDict?

Description	This query returns the Pass/Fail Verdict for the instrument.
	At *RST condition, this value is set to Enabled.
	Navigation Path: Setup > Test Configurator > FC BERT > Latency Tags Insertion - Pass/Fail Verdict
Syntax	:SOURce:DATA:TELecom:FIBer:STReam:LATency:VERDict?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the Pass/Failed Verdict status.
	1 - Pass/Failed Verdict status is enabled.
	0 - Pass/Failed Verdict status is disabled.
Example(s)	SOUR:DATA:TEL:FIB:STR:LAT ON
	SOUR:DATA:TEL:FIB:STR:LAT:VERD ON
	SOUR:DATA:TEL:FIB:STR:LAT:VERD?
	Returns: 1
See Also	SOURce:DATA:TELecom:FIBer:PORT:LOGin:STATus?

:SOURce:DATA:TELecom:FIBer:STReam:LATency?

Description	This query returns the latency tags status.
	At *RST, this value is set to ON.
	Navigation Path: Setup > Test Configurator > FC BERT > Latency Tags Insertion - Latency Tags
Syntax	:SOURce:DATA:TELecom:FIBer:STReam:LATency?
Response Syntax	<Bbcredit>
Response(s)	**Bbcredit**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the Latency tags status.
	1 - Latency tags is enabled.
	0 - Latency tags is disabled.
Example(s)	SOUR:DATA:TEL:FIB:STR:LAT ON
	SOUR:DATA:TEL:FIB:STR:LAT?
	Returns: 1
See Also	SOURce:DATA:TELecom:FIBer:PORT:LOGin:STATus?

:SOURce:DATA:TELecom:FIBer:STReam:RATE

Description	This command sets the maximum bandwidth rate for fibre channel stream (%).
	At *RST, this value is set to 100.
	Navigation Path: Setup > Test Configurator > FC BERT > Shaping - TX Rate
Syntax	:SOURce:DATA:TELecom:FIBer:STReam:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate in percentage.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Bbcredit>
Example(s)	SOUR:DATA:TEL:FIB:STR:RATE 100
See Also	SOURce:DATA:TELecom:FIBer:STReam:SIZE

:SOURce:DATA:TELecom:FIBer:STReam:RATE?

Description	This query returns the maximum bandwidth rate for fibre channel stream (%).
	At *RST, this value is set to 100.
	Navigation Path: Setup > Test Configurator > FC BERT > Shaping - TX Rate
Syntax	:SOURce:DATA:TELecom:FIBer:STReam:RATE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current value is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the maximum bandwidth rate for fibre channel stream.
Example(s)	SOUR:DATA:TEL:FIB:STR:RATE 100
	SOUR:DATA:TEL:FIB:STR:RATE?
	Returns: 100
See Also	SOURce:DATA:TELecom:FIBer:STReam:SIZE?

:SOURce:DATA:TELecom:FIBer:STReam:SIZE

Description	This command sets the frame size for fibre channel network (Bytes).
	At *RST, this value is set to 2148.
	Navigation Path: Setup > Test Configurator > FC BERT > FC Frame - Frame Size
Syntax	:SOURce:DATA:TELecom:FIBer:STReam:SIZE <wsp><Size>
Parameter(s)	**Size**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the frame size for fibre channel network. Choices are 32 through 2148.
	MAXimum: Maximum.
	MINimum: Minimum.
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:FIB:STR:SIZE 128
See Also	SOURce:DATA:TELecom:FIBer:STReam:RATE

:SOURce:DATA:TELecom:FIBer:STReam:SIZE?

Description	This query returns the frame size for fibre channel network (Bytes). At *RST, this value is set to 2148. Navigation Path: Setup > Test Configurator > FC BERT > FC Frame - Frame Size
Syntax	:SOURce:DATA:TELecom:FIBer:STReam:SIZE?[<wsp><Size>]
Parameter(s)	Size: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If unspecified, the current value will be returned. MAXimum: Maximum. MINimum: Minimum.
Response Syntax	<Size>
Response(s)	Size: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the frame size for fibre channel network.
Example(s)	SOUR:DATA:TEL:FIB:STR:SIZE 128 SOUR:DATA:TEL:FIB:STR:SIZE? Returns: 128
See Also	SOURce:DATA:TELecom:FIBer:STReam:RATE?

:SOURce:DATA:TELecom:PATTern:TYPE

Description	This command sets the test pattern type for the transmitter.
	At *RST condition, this value is set to PRBs2E31.
	Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - TX Pattern
Syntax	:SOURce:DATA:TELecom:PATTern:TYPE <wsp><Type>

:SOURce:DATA:TELecom:PATTern:TYPE

Parameter(s)	
	Type:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the pattern type for the transmitter.

CJTPat: CJTPAT

CRPat: CRPAT

CSPat: CSPAT

DALY: DALY Pattern

LCRTpat: LCRTPAT

MULtipattern: Multi-Pattern

NCLient: NULL CLIENT

P0000: 0000 Pattern

P1010: 1010 Pattern

P1100: 1100 Pattern

P1111: 1111 Pattern

P1IN16: 1in16 (1:15)

P1IN8: 1in8 (1:7)

P2IN8: 2in8

P2E6: P2E6

P3iN24: 3in24

P55Octet: 55 Octet

PRBS2E11: PRBS11

PRBS2E15: PRBS15

PRBS2E20: PRBS20

PRBS2E23: PRBS23

PRBS2E31: PRBS31

PRBS2E9: PRBS9

PRBS31UNScrambled: PRBS31 Unscrambled

QRSS: QRSS

SCRTpat: SCRTPAT

SEEDA: Seed A

SEEDB: Seed B

UPATtern: User Defined

:SOURce:DATA:TELecom:PATTern:TYPE

Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:PATT:TYPE PRBs2E15
	SOUR:DATA:TEL:PATT:TYPE?
	Returns: PRBs2E15
See Also	SOURce:DATA:TELecom:PATTern:TYPE?

:SOURce:DATA:TELecom:PATTern:TYPE:USER:VALue

Description	This command sets the transmitter user pattern value for the specified index.
	At *RST condition, this value is set to #H00000000.
	Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - TX Pattern - User Pattern
Syntax	:SOURce:DATA:TELecom:PATTern:TYPE:USER:VALue[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the transmitter user pattern value for the specified index.
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:PATT:TYPE:USER:VAL #H00000001
	SOUR:DATA:TEL:PATT:TYPE:USER:VAL?
	Returns: 1
See Also	SOURce:DATA:TELecom:PATTern:TYPE
	SOURce:DATA:TELecom:PATTern:TYPE:USER:VALue?

:SOURce:DATA:TELecom:PATTern:TYPE:USER:VALue?

Description	This query returns the transmitter user pattern value for the specified index.
	At *RST condition, this value is set to #H00000000.
	Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - TX Pattern - User Pattern
Syntax	:SOURce:DATA:TELecom:PATTern:TYPE:USER:VALue?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the user pattern value for the transmitter.
Example(s)	SOUR:DATA:TEL:PATT:TYPE:USER:VAL #H00000001
	SOUR:DATA:TEL:PATT:TYPE:USER:VAL?
	Returns: 1
See Also	SOURce:DATA:TELecom:PATTern:TYPE
	SOURce:DATA:TELecom:PATTern:TYPE:USER:VALue

:SOURce:DATA:TELecom:PATTern:TYPE?

Description	This query returns the test pattern type for transmitter.
	At *RST condition, this value is set to PRBs2E31.
	Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - TX Pattern
Syntax	:SOURce:DATA:TELecom:PATTern:TYPE?
Response Syntax	<Pattern>

:SOURce:DATA:TELecom:PATTern:TYPE?

Response(s)	**Pattern**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the pattern type for the transmitter.
	PRBs2E9, pattern type PRBS9 is selected.
	PRBs2E11, pattern type PRBS11 is selected.
	PRBs2E15, pattern type PRBS15 is selected.
	PRBs2E20, pattern type PRBS20 is selected.
	PRBs2E23, pattern type PRBS23 is selected.
	PRBs2E31, pattern type PRBS31 is selected.
	UPATTERN, pattern type User Defined is selected.
	NCLIENT, pattern type NCLIENT is selected.
	PRBS31UNSCRAMBLED, pattern type PRBS31 Unscrambled is selected.
	SEEDA, pattern type Seed A is selected.
	SEEDB, pattern type Seed B is selected.
	P1111, pattern type 1111 Pattern is selected.
	P1100, pattern type 1100 Pattern is selected.
	P1010, pattern type 1010 Pattern is selected.
	P0000, pattern type 0000 Pattern is selected.
	P1IN8, pattern type 1in8 (1:7) is selected.
	P1IN16, pattern type 1in16 (1:15) is selected.
	P2IN8, pattern type 2in8 is selected.
	P3IN24, pattern type 3in24 is selected.
	P55OCTET, pattern type 55 Octet is selected.
	QRSS, pattern type QRSS is selected.
	DALY, pattern type DALY is selected.
	MULTIPATTERN, pattern type Multi-Pattern is selected.
Example(s)	SOUR:DATA:TEL:PATT:TYPE PRBs2E15
	SOUR:DATA:TEL:PATT:TYPE?
	Returns: PRBs2E15
See Also	SOURce:DATA:TELecom:PATTern:TYPE

:SOURce:DATA:TELecom:POLarity

Description	This command sets the polarity pattern for the transmitter.
	At *RST condition, this value is set to NINVerted.
	Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - TX Pattern - Invert
Syntax	:SOURce:DATA:TELecom:POLarity <wsp><Polarity>
Parameter(s)	**Polarity**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the transmitter polarity.
	NINVerted: Non-inverted.
	INVerted: Inverted.
Response Syntax	<Pattern>
Example(s)	SOUR:DATA:TEL:POL INV
	SOUR:DATA:TEL:POL?
	Returns: INVerted
See Also	SOURce:DATA:TELecom:PATTern:TYPE?
	SOURce:DATA:TELecom:POLarity?

:SOURce:DATA:TELecom:POLarity?

Description	This query returns the polarity pattern of the transmitter.
	At *RST condition, this value is set to NINVerted.
	Navigation Path: Setup > Test Configurator > EtherBERT > Pattern - TX Pattern - Invert
Syntax	:SOURce:DATA:TELecom:POLarity?
Response Syntax	<Polarity>
Response(s)	**Polarity**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the transmitter polarity pattern for specific stream.
	NINVerted, indicates the polarity as non-inverted.
	INVerted, indicates the polarity as inverted.
Example(s)	SOUR:DATA:TEL:POL INV
	SOUR:DATA:TEL:POL?
	Returns: INVerted
See Also	SOURce:DATA:TELecom:PATTern:TYPE
	SOURce:DATA:TELecom:PATTern:POLarity

:SOURce:DATA:TELecom:UPRBs:PATTern:GLOBal:POLarity:TX

Description	This command sets the global polarity pattern for the transmitter.
	At *RST condition, this value is set to NINVerted.
	Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - TX Pattern - Invert
Syntax	:SOURce:DATA:TELecom:UPRBs:PATTern:GLOBal:POLarity:TX <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the polarity for the transmitter.
	NINVerted: Non-Inverted
	INVerted: Inverted
Response Syntax	<Polarity>
Example(s)	SOUR:DATA:TEL:UPRB:PATT:GLOB:POL:TX INV
	SOUR:DATA:TEL:UPRB:PATT:GLOB:POL:TX?
	Returns: INVerted
See Also	SOURce:DATA:TELecom:PATTern:TYPE?
	SOURce:DATA:TELecom:POLarity?

:SOURce:DATA:TELecom:UPRBs:PATTern:GLOBal:POLarity:TX ?

Description	This query returns the global polarity pattern for the transmitter.
	At *RST condition, this value is set to NINVerted.
	Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - TX Pattern - Invert
Syntax	:SOURce:DATA:TELecom:UPRBs:PATTern:GLOBal:POLarity:TX?
Response Syntax	<Pattern>
Response(s)	**Pattern**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the polarity type of the transmitter.
	NINVerted, indicates Non-Inverted as the polarity.
	INVerted, indicates Inverted as the polarity.
Example(s)	SOUR:DATA:TEL:UPRB:PATT:GLOB:POL:TX INV
	SOUR:DATA:TEL:UPRB:PATT:GLOB:POL:TX?
	Returns: INVerted
See Also	SOURce:DATA:TELecom:PATTern:TYPE
	SOURce:DATA:TELecom:PATTern:POLarity

:SOURce:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:TX

Description	This command sets the global test pattern type for the Transmitter.
	At *RST condition, this value is set to PRBs2E23.
	Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - TX Pattern
Syntax	:SOURce:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:TX <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the test pattern for the transmitter.
	PRBS2E9: PRBS 2 ^ 9-1
	PRBS2E11: PRBS 2 ^ 11-1
	PRBS2E15: PRBS 2 ^ 15-1
	PRBS2E20: PRBS 2 ^ 20-1
	PRBS2E23: PRBS 2 ^ 23-1
	PRBS2E31: PRBS 2 ^ 31-1
	PSWAVE1: PSWAVE1
	PSWAVE2: PSWAVE2
	PSWAVE4: PSWAVE4
	PSWAVE8: PSWAVE8
	PSWAVE16: PSWAVE16
	PRBS31Q: PRBS31Q
	PRBS13Q: PRBS13Q
	SSPRQ: SSPRQ
	UPATtern: User Pattern
Response Syntax	<Pattern>
Example(s)	SOUR:DATA:TEL:UPRB:PATT:GLOB:PRBS:TYPE:TX PRBs2E23
	SOUR:DATA:TEL:UPRB:PATT:GLOB:PRBS:TYPE:TX?
	Returns: PRBs2E23
See Also	SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:RX

:SOURce:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:TX?

Description	This query returns the global test pattern type for the Transmitter.
	At *RST condition, this value is set to PRBs2E23.
	Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - TX Pattern
Syntax	:SOURce:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:TX?
Response Syntax	<Pattern>
Response(s)	**Pattern**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the test pattern for the Transmitter.
	PRBs2E9, PRBS 2^9-1 is selected.
	PRBs2E11, PRBS 2^11-1 is selected.
	PRBs2E15, PRBS 2^15-1 is selected.
	PRBs2E20, PRBS 2^20-1 is selected.
	PRBs2E23, PRBS 2^23-1 is selected.
	PRBs2E31, PRBS 2^31-1 is selected.
	PSWAVE1, PSWAVE1 is selected.
	PSWAVE2, PSWAVE2 is selected.
	PSWAVE4, PSWAVE4 is selected.
	PSWAVE8, PSWAVE8 is selected.
	PSWAVE16, PSWAVE16 is selected.
	PRBS31Q, PRBS31Q is selected.
	PRBS13Q, PRBS13Q is selected.
	SSPRQ, SSPRQ is selected.
	UPATtern, User Pattern is selected
Example(s)	SOUR:DATA:TEL:UPRB:PATT:GLOB:PRBS:TYPE:TX?
See Also	SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:PRBS:TYPE:RX?

:SOURce:DATA:TELecom:UPRBs:PATTern:POLarity:TX

Description	This command sets the Invert pattern per lane for the transmitter.
	At *RST condition, this value is set to NINVerted.
	Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - TX Pattern - Invert
Syntax	:SOURce:DATA:TELecom:UPRBs:PATTern:POLarity:TX <wsp><Lane>, <Invert>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Invert:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the polarity for the transmitter.
	NINVerted: Non-Inverted
	INVerted: Inverted
Response Syntax	<Pattern>
Example(s)	SOUR:DATA:TEL:UPRB:PATT:POL:TX 1, INV
See Also	SOURce:DATA:TELecom:UPRBs:PATTern:POLarity:TX?
	SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:ALL

:SOURce:DATA:TELecom:UPRBs:PATTern:POLarity:TX?

Description	This query returns the Invert pattern per lane for the transmitter.
	At *RST condition, this value is set to NINVerted.
	Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern - TX Pattern - Invert
Syntax	:SOURce:DATA:TELecom:UPRBs:PATTern:POLarity:TX? <wsp><Lane>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
Response Syntax	<Invert>
Response(s)	**Invert**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Invert pattern setting for the selected lane.
Example(s)	SOUR:DATA:TEL:UPRB:PATT:POL:TX? 1
See Also	SOURce:DATA:TELecom:UPRBs:PATTern:POLarity:TX
	SENSe:DATA:TELecom:UPRBs:PATTern:GLOBal:ALL

:SOURce:DATA:TELecom:UPRBs:PATTern:PRBS:TYPE:TX

Description	This command sets the test pattern type for the transmitter for the selected lane.
	At *RST condition, this value is set to PRBs2E23.
	Navigation Path: Setup > Test Configurator > Unframed BERT > PCS Lane - TX Pattern
Syntax	:SOURce:DATA:TELecom:UPRBs:PATTern:PRBS:TYPE:TX <wsp><Lane>, <Type>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane for status of the transmitted error pattern. The range for the lane is from 0 to 19.
	Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the test pattern type for the transmitter.
	PRBS2E9: PRBS $2 \wedge 9$-1.
	PRBS2E11: PRBS $2 \wedge 11$-1.
	PRBS2E15: PRBS $2 \wedge 15$-1.
	PRBS2E20: PRBS $2 \wedge 20$-1.
	PRBS2E23: PRBS $2 \wedge 23$-1.
	PRBS2E31: PRBS $2 \wedge 31$-1.
	PSWAVE1: PSWAVE1.
	PSWAVE2: PSWAVE2.
	PSWAVE4: PSWAVE4.
	PSWAVE8: PSWAVE8.
	PSWAVE16: PSWAVE16.
Response Syntax	<Invert>
Example(s)	SOUR:DATA:TEL:UPRB:PATT:PRBS:TYPE:TX 1, PRBs2E23
	SOUR:DATA:TEL:UPRB:PATT:PRBS:TYPE:TX? 1
	Returns: PRBs2E23
See Also	SOURce:DATA:TELecom:PATTern:TYPE
	SOURce:DATA:TELecom:PATTern:TYPE:USER:VALue?

:SOURce:DATA:TELecom:UPRBs:PATTern:PRBS:TYPE:TX?

Description	This query returns the test pattern type for the transmitter for the selected lane.
	At *RST condition, this value is set to PRBs2E23.
	Navigation Path: Setup > Test Configurator > Unframed BERT > PCS Lane - TX Pattern
Syntax	:SOURce:DATA:TELecom:UPRBs:PATTern:PRBS:TYPE:TX? <wsp><Lane>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane for status of the transmitted error pattern. The range for the lane is from 0 to 19.
Response Syntax	<Pattern>
Response(s)	**Pattern**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the test pattern type for the transmitter for the selected traffic stream.
	PRBs2E9, PRBS 2^9-1 is selected.
	PRBs2E11, PRBS $2^{11}-1$ is selected.
	PRBs2E15, PRBS $2^{15}-1$ is selected.
	PRBs2E20, PRBS $2^{20}-1$ is selected.
	PRBs2E23, PRBS $2^{23}-1$ is selected.
	PRBs2E31, PRBS $2^{31}-1$ is selected.
	PSWAVE1, PSWAVE1 is selected.
	PSWAVE2, PSWAVE2 is selected.
	PSWAVE4, PSWAVE4 is selected.
	PSWAVE8, PSWAVE8 is selected.
	PSWAVE16, PSWAVE16 is selected.
Example(s)	SOUR:DATA:TEL:UPRB:PATT:PRBS:TYPE:TX? 1
See Also	SOURce:DATA:TELecom:PATTern:TYPE
	SOURce:DATA:TELecom:PATTern:TYPE:USER:VALue

RFC 2544 - Global

:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:MINtime?

Description	This query returns the minimum time for the back-to-back subtest required to run in best condition.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Back-to-Back - Estimated Time
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:MINtime?
Response Syntax	<Time>
Response(s)	**Time**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the minimum time.
Example(s)	FETC:DATA:TEL:ETH:RFC:BCKT:MIN?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:ENABle

:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:MINtime?

Description	This query returns the minimum time the Frame Loss subtest is required to run in best condition.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Frame Loss - Estimated Time
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:MINtime?
Response Syntax	<Time>
Response(s)	**Time**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the minimum time.
Example(s)	FETC:DATA:TEL:ETH:RFC:FLOS:MIN?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:ENABle

:FETCh:DATA:TELecom:ETHernet:RFC:LATency:MINtime?

Description	This query returns the minimum time the latency subtest is required to run in best condition.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Latency - Estimated Time
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:LATency:MINtime?
Response Syntax	<Time>
Response(s)	**Time**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the minimum time.
Example(s)	FETC:DATA:TEL:ETH:RFC:LAT:MIN?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:LATency:ENABle

:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:MINtime?

Description	This query returns the minimum time the throughput subtest is required to run in best condition.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Throughput - Estimated Time
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:MINtime?
Response Syntax	\<Time\>
Response(s)	**Time**:
	The response data syntax for the first parameter is defined as a \<STRING RESPONSE DATA\> element.
	Returns the minimum time the test is required to run in best condition.
Example(s)	FETC:DATA:TEL:ETH:RFC:THR:MIN?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:THRoughut:ENABle

:FETCh:DATA:TELecom:ETHernet:RFC:TOTal:MINtime?

Description	This query returns the total time the test is required to run in best condition.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Total - Extimated Time
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:TOTal:MINtime?
Response Syntax	<Total Time>
Response(s)	**Total Time**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the total time the test is required to run in best condition.
Example(s)	FETC:DATA:TEL:ETH:RFC:TOT:MIN?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:MINtime?

:SOURce:DATA:TELecom:ETHernet:DUALtest:ENABled

Description	This command enables/disables Dual Test Set.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Dual Test Set > Dual Test Set
	Navigation Path: Setup > Test Configurator > EtherSAM > Global > Dual Test Set > Dual Test Set
Syntax	:SOURce:DATA:TELecom:ETHernet:DUALtest:ENABled <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Total Time>
Example(s)	SOUR:DATA:TEL:ETH:DUAL:ENAB ON
See Also	SOURce:DATA:TELecom:ETHernet:REMote:CONNect?

:SOURce:DATA:TELecom:ETHernet:DUALtest:ENABled?

Description	This query returns the enable/disable Dual Test Set status.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Dual Test Set > Dual Test Set
	Navigation Path: Setup > Test Configurator > EtherSAM > Global > Dual Test Set > Dual Test Set
Syntax	:SOURce:DATA:TELecom:ETHernet:DUALtest:ENABled?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:DUAL:ENAB ON
	SOUR:DATA:TEL:ETH:DUAL:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:REMote:CONNect

:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ENABle

Description	This command enables/disables the selected back-to-back subtest.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Back-to-Back - Subtests
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:RFC:BCKT:ENAB ON
	SOUR:DATA:TEL:ETH:RFC:BCKT:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:ENABle
	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:ENABle?

:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ENABle?

Description	This query returns the status of the back-to-back subtest.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Back-to-Back - Subtests
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:RFC:BCKT:ENAB ON
	SOUR:DATA:TEL:ETH:RFC:BCKT:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:ENABle
	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:ENABle?

:SOURce:DATA:TELecom:ETHernet:RFC:FDIRection

Description	This command sets the Flow Direction
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Global Options - Flow Direction
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:FDIRection <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Flow direction
	TXTORX: TX To RX
	P1TOP2: Port #1 To Port #2
	P2TOP1: Port #2 To Port #1
	FBIDIRCT: Bidirectional
	LTORemote: Local To Remote
	RTOLocal: Remote To Local
Response Syntax	<Status>
Example(s)	SOURce:DATA:TELecom:ETHernet:RFC:FDIRection TXTORX
See Also	FETCh:DATA:TELecom:ETHernet:RFC:LATency:FCOunt:TX

:SOURce:DATA:TELecom:ETHernet:RFC:FDIRection?

Description	This query returns the Flow Direction
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Global Options - Flow Direction
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:FDIRection?
Response Syntax	<direction>
Response(s)	**direction**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Flow direction
Example(s)	SOURce:DATA:TELecom:ETHernet:RFC:FDIRection?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:LATency:FCOunt:TX?

:SOURce:DATA:TELecom:ETHernet:RFC:FDIStrib

Description	This command selects frame size distribution from the list. At *RST condition, this value is set to RFC2544. Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Frame Distribution - Frame Distribution
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:FDIStrib \<wsp>\<Distribution>
Parameter(s)	**Distribution**: The program data syntax for the first parameter is defined as a \<CHARACTER PROGRAM DATA> element. Selects frame size distribution from the list. RFC2544: RFC2544 UDEFined: User Defined
Response Syntax	\<direction>
Example(s)	SOUR:DATA:TEL:ETH:RFC:FDIS UDEF SOUR:DATA:TEL:ETH:RFC:FDIS? Returns: UDEFined
See Also	SOURce:DATA:TELecom:ETHernet:RFC:QUANtity SOURce:DATA:TELecom:ETHernet:RFC:QUANtity?

:SOURce:DATA:TELecom:ETHernet:RFC:FDIStrib?

Description	This query returns the frame size distribution from the list.
	At *RST condition, this value is set to RFC2544.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Frame Distribution - Frame Distribution
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:FDIStrib?
Response Syntax	<Distribution>
Response(s)	**Distribution**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the frame size distribution from the list.
	RFC2544, RFC2544 is returned as frame size distribution.
	UDEFined, User Defined (UDEFined) is returned as frame size distribution.
Example(s)	SOUR:DATA:TEL:ETH:RFC:FDIS RFC2544
	SOUR:DATA:TEL:ETH:RFC:FDIS?
	Returns: RFC2544
See Also	SOURce:DATA:TELecom:ETHernet:RFC:QUANtity
	SOURce:DATA:TELecom:ETHernet:RFC:QUANtity?

:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:ENABle

Description	This command enables/disables the selected Frame Loss subtest.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Frame Loss - Subtests
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:ENABle <wsp><Status>
Parameter(s)	Status:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Distribution>
Example(s)	SOUR:DATA:TEL:ETH:RFC:FLOS:ENAB ON
	SOUR:DATA:TEL:ETH:RFC:FLOS:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ENABle
	SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ENABle?

:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:ENABle?

Description	This query returns the status of the Frame Loss subtest.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Frame Loss - Subtests
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:RFC:FLOS:ENAB ON
	SOUR:DATA:TEL:ETH:RFC:FLOS:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ENABle
	SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ENABle?

:SOURce:DATA:TELecom:ETHernet:RFC:FSIZe

Description	This command sets the predefined frame size distribution values for RFC 2544 distribution.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Frame Distribution - Frame Size
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:FSIZe \<wsp>\<Quantity>, \<Size>
Parameter(s)	**Quantity**:
	The program data syntax for the first parameter is defined as a \<DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the quantity of frame size.
	Size:
	The program data syntax for the second parameter is defined as a \<DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the predefined frame size distribution value.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	\<Status>
Example(s)	SOUR:DATA:TEL:ETH:RFC:FDIS UDEF
	SOUR:DATA:TEL:ETH:RFC:QUAN 1
	SOUR:DATA:TEL:ETH:RFC:FSIZ 1, 69
	SOUR:DATA:TEL:ETH:RFC:FSIZ? 1
	Returns: 69
See Also	SOURce:DATA:TELecom:ETHernet:RFC:QUANtity

:SOURce:DATA:TELecom:ETHernet:RFC:FSIZe?

Description	This query returns the predefined frame size distribution values for RFC 2544 distribution.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Frame Distribution - Frame Size
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:FSIZe? <wsp><Quantity>,[<Size>]
Parameter(s)	**Quantity**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the quantity of frame size.
	Size:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current predefined frame size distribution is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Fsize>
Response(s)	**Fsize**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the predefined frame size distribution values.
Example(s)	SOUR:DATA:TEL:ETH:RFC:FDIS UDEF
	SOUR:DATA:TEL:ETH:RFC:QUAN 1
	SOUR:DATA:TEL:ETH:RFC:FSIZ 1, 65
	SOUR:DATA:TEL:ETH:RFC:FSIZ? 1
	Returns: 65
See Also	SOURce:DATA:TELecom:ETHernet:RFC:QUANtity?

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:ENABle

Description	This command enables/disables the latency subtest.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Latency - Subtests
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LATency:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Fsize>
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:ENAB ON
	SOUR:DATA:TEL:ETH:RFC:LAT:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ENABle

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:ENABle?

Description	This query returns the status of the latency subtest.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Latency - Subtests
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LATency:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:ENAB ON
	SOUR:DATA:TEL:ETH:RFC:LAT:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ENABle?

:SOURce:DATA:TELecom:ETHernet:RFC:QUANtity

Description	This command selects quantity of frame size to be used for the test.
	At *RST condition, this value is set to 7.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Frame Distribution - Quantity
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:QUANtity <wsp><Quantity>
Parameter(s)	**Quantity**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects quantity of frame size.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:RFC:QUAN 7
	SOUR:DATA:TEL:ETH:RFC:QUAN?
	Returns: 7
See Also	SOURce:DATA:TELecom:ETHernet:RFC:FDIStribution
	SOURce:DATA:TELecom:ETHernet:RFC:FDIStribution?

:SOURce:DATA:TELecom:ETHernet:RFC:QUANtity?

Description	This query returns the quantity of frame size used for the test.
	At *RST condition, this value is set to 7.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Frame Distribution - Quantity
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:QUANtity?
Response Syntax	<Quantity>
Response(s)	**Quantity**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the quantity of frame size.
Example(s)	SOUR:DATA:TEL:ETH:RFC:QUAN 7
	SOUR:DATA:TEL:ETH:RFC:QUAN?
	Returns: 7
See Also	SOURce:DATA:TELecom:ETHernet:RFC:FDIStribution
	SOURce:DATA:TELecom:ETHernet:RFC:FDIStribution?

:SOURce:DATA:TELecom:ETHernet:RFC:RESTore

Description	This command restores the default CONFig for RFC Frame Sizes.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Restore RFC 2544 Defaults
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:RESTore
Response Syntax	<Quantity>
Example(s)	SOUR:DATA:TEL:ETH:RFC:REST
See Also	SOURce:DATA:TELecom:ETHernet:RFC:FSIZe

:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:ENABle

Description	This command enables/disables the selected RFC 2544 throughput subtest.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Throughput - Subtests
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Quantity>
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:ENAB ON
	SOUR:DATA:TEL:ETH:RFC:THR:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:VALidations

:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:ENABle?

Description	This query returns the status of the selected throughput subtest.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Global > Throughput - Subtests
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:ENAB ON
	SOUR:DATA:TEL:ETH:RFC:THR:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:VALidations?

Smart Loopback

:SOURce:DATA:TELecom:ETHernet:SLOopback:MATChing:MAC:ADDRess:MODE?

Description	This query returns the MAC address of Smart Loopback application.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Smart Loopback > Loopback - Matching & Swapping - MAC Address
Syntax	:SOURce:DATA:TELecom:ETHernet:SLOopback:MATChing:MAC:ADDRess:MODE?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the MAC address.
Example(s)	SOUR:DATA:TEL:ETH:SLO:MATC:MAC:ADDR:MODE?
See Also	SOURce:DATA:TELecom:ETHernet:SLOopback:MODE?

:SOURce:DATA:TELecom:ETHernet:SLOopback:MATChing:UDP:PORT:MODE?

Description	This query returns the UDP/TCP port value of Smart Loopback application.
	At *RST condition, this value is set to All.
	Navigation Path: Setup > Test Configurator > Smart Loopback > Loopback - Matching & Swapping - UDP/TCP Port
Syntax	:SOURce:DATA:TELecom:ETHernet:SLOopback:MATChing:UDP:PORT:MODE?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the UDP port mode.
Example(s)	SOUR:DATA:TEL:ETH:SLO:MATC:UDP:PORT:MODE?
See Also	SOURce:DATA:TELecom:ETHernet:SLOopback:MODE?

:SOURce:DATA:TELecom:ETHernet:SLOopback:MODE

Description	This command selects the mode for Smart Loopback application.
	At *RST condition, this value is set to UDP.
	Navigation Path: Setup > Test Configurator > Smart Loopback > Loopback - Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:SLOopback:MODE <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the loopback mode for the smart loopback application.
	UDPTCP, UDP mode is selected.
	IP, IP mode is selected.
	ETHernet, Ethernet mode is selected.
	EAUNicast, Ethernet all unicast mode is selected.
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:SLO:MODE IP
See Also	SOURce:DATA:TELecom:ETHernet:SLOopback:MATChing:UDP:PORT:MODE?

:SOURce:DATA:TELecom:ETHernet:SLOopback:MODE?

Description	This query returns the selected mode for Smart Loopback application.
	At *RST condition, this value is set to UDP.
	Navigation Path: Setup > Test Configurator > Smart Loopback > Loopback - Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:SLOopback:MODE?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the loopback mode.
	IP, IP mode is selected.
	UDPTCP, UDP mode is selected.
	ETHERNET, Ethernet mode is selected.
	EAUNICAST, Ethernet all unicast mode is selected.
Example(s)	SOUR:DATA:TEL:ETH:SLO:MODE IP
	SOUR:DATA:TEL:ETH:SLO:MODE?
	Returns: IP
See Also	SOURce:DATA:TELecom:ETHernet:SLOopback:MATChing:UDP:PORT:MODE?

BERT

:FETCh:DATA:TELecom:PATTern:ALARm:SYNC?

Description	This query returns the Sync status of pattern alarm for the selected lane.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Unframed BERT > Sync
Syntax	:FETCh:DATA:TELecom:PATTern:ALARm:SYNC? <wsp><Lane>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane of pattern alarm.
Response Syntax	<Sync>
Response(s)	**Sync**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Synch status of the pattern alarm.
	PRESENT, indicates that at least one alarm has occurred.
	ABSENT, indicates that no alarm occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:PATT:ALAR:SYNC? 1
See Also	FETCh:DATA:TELecom:PATTern:GLOBal:ALARm:SYNC?

:FETCh:DATA:TELecom:PATTern:GLOBal:ALARm:SYNC?

Description	This query returns the Globally Sync status of the pattern alarm.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Unframed BERT > Sync
Syntax	:FETCh:DATA:TELecom:PATTern:GLOBal:ALARm:SYNC?
Response Syntax	<Sync>
Response(s)	**Sync**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Globally Synch status of the pattern
	alarm.
	PRESENT, indicates that at least one alarm has occurred.
	ABSENT, indicates that no alarm occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:PATT:GLOB:ALAR:SYNC?
See Also	FETCh:DATA:TELecom:PATTern:ALARm:SYNC?

:SENSe:DATA:TELecom:PATTern:THReshold:COUNt

Description	This command selects the Pass/Fail Verdict as Bit Error Count and sets the BER Threshold count value.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > BERT > Bit Error - Pass/Fail Verdict and BER Threshold (Count)
	Navigation Path: Setup > Test Configurator > Clients > BERT > Bit Error - Pass/Fail Verdict and BER Threshold (Count)
Syntax	:SENSe:DATA:TELecom:PATTern:THReshold:COUNt <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Pattern Threshold Count Value.
	Choices are 0 to 999999
	MAXimum: Biggest supported count
	MINimum: Smallest supported count
	DEFault: Default value
Response Syntax	<Sync>
Example(s)	SENS:DATA:TEL:PATTern:THReshold:COUN 1000
	SENS:DATA:TEL:PATTern:THReshold:COUN? Returns: 1000
See Also	SENSe:DATA:TELecom:SDT:NDTime?

:SENSe:DATA:TELecom:PATTern:THReshold:COUNt?

Description	This query returns the BER Threshold count value.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > BERT > Bit Error - Pass/Fail Verdict and BER Threshold (Count)
	Navigation Path: Setup > Test Configurator > Clients > BERT > Bit Error - Pass/Fail Verdict and BER Threshold (Count)
Syntax	:SENSe:DATA:TELecom:PATTern:THReshold:COUNt?[<wsp><Threshold>]
Parameter(s)	**Threshold**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional.
	If no token is specified, the Pattern Threshold Count Value is returned.
	MAXimum: Biggest count
	MINimum: Smallest count
	DEFault: Default value
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the pattern Threshold Count.
Example(s)	SENS:DATA:TEL:PATTern:THReshold:COUN 1000
	SENS:DATA:TEL:PATTern:THReshold:COUN? Returns: 1000
See Also	SENSe:DATA:TELecom:SDT:NDTime

:SENSe:DATA:TELecom:PATTern:THReshold:RATE

Description	This command selects the Pass/Fail Verdict as Bit Error Rate and sets the BER Threshold rate value.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > BERT > Bit Error - Pass/Fail Verdict and BER Threshold (Rate)
	Navigation Path: Setup > Test Configurator > Clients > BERT > Bit Error - Pass/Fail Verdict and BER Threshold (Rate)
Syntax	:SENSe:DATA:TELecom:PATTern:THReshold:RATE <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Pattern threshold rate.
	Choices are 1.0E-14 through 1.9E-01
	MAXimum: Biggest rate
	MINimum: Smallest rate
	DEFault: Default rate
Response Syntax	<Value>
Example(s)	SENS:DATA:TEL:PATTern:THReshold:RATE 1.0E-12
	SENS:DATA:TEL:PATTern:THReshold:RATE? Returns: 1.0E-12
See Also	SENSe:DATA:TELecom:SDT:PATTern:THReshold:COUNt?

:SENSe:DATA:TELecom:PATTern:THReshold:RATE?

Description	This query returns BER Threshold rate value.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > BERT > Bit Error - BER Threshold (Rate)
	Navigation Path: Setup > Test Configurator >Clients > BERT > Bit Error - BER Threshold (Rate)
Syntax	:SENSe:DATA:TELecom:PATTern:THReshold:RATE?[<wsp><Threshold>]
Parameter(s)	**Threshold**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional.
	If no token is specified, the Pattern threshold rate is returned.
	MAXimum: Biggest rate
	MINimum: Smallest rate
	DEFault: Default rate
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the pattern BER Threshold rate.
Example(s)	SENS:DATA:TEL:PATTern:THReshold:RATE 1.0E-12
	SENS:DATA:TEL:PATTern:THReshold:RATE? Returns: 1.0E-12
See Also	SENSe:DATA:TELecom:SDT:PATTern:THReshold:COUNt

:SENSe:DATA:TELecom:SDT

Description	This command enables/disables the disruption time measurements.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > <Test Block> > Service Disruption - Disruption Monitoring
Syntax	:SENSe:DATA:TELecom:SDT <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Value>
Example(s)	SENS:DATA:TEL:SDT ON
	SENS:DATA:TEL:SDT? Returns: 1
See Also	SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE
	SENSe:DATA:TELecom:SDT:OTN:DSELection

:SENSe:DATA:TELecom:SDT:NDTime

Description	This command selects the no defect time(ms) without any defects before stopping SDT measurement.
	At *RST condition, this value is set to 300 ms.
	Navigation Path: Setup > Test Configurator > BERT > Service Disruption - No Defect Time
Syntax	:SENSe:DATA:TELecom:SDT:NDTime <wsp><Time>
Parameter(s)	**Time**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the no defect time without any defects before stopping SDT measurement.Choices are from 0.005ms to 2000 ms.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default Value
Response Syntax	<Value>
Example(s)	SENS:DATA:TEL:SDT:NDT 18
	SENS:DATA:TEL:SDT:NDT?
	Returns: 18
See Also	SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE

:SENSe:DATA:TELecom:SDT:NDTime?

Description	This query returns the no defect time(ms) without any defects before stopping SDT measurement. At *RST condition, thisthis value is set to 300 ms. Navigation Path: Setup > Test Configurator > BERT > Service Disruption - No Defect Time
Syntax	:SENSe:DATA:TELecom:SDT:NDTime?[<wsp><No Defect Time>]
Parameter(s)	**No Defect Time**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional.If no token is specified, the current no defect time without any defects is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Time>
Response(s)	**Time**: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the no defect time without any defects before stopping SDT measurement.
Example(s)	SENS:DATA:TEL:SDT:NDT 200 SENS:DATA:TEL:SDT:NDT? Returns: 200
See Also	SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE?

:SENSe:DATA:TELecom:SDT:OTN:DSELection

Description	This command selects the defect of selected layer.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > BERT > Service Disruption - Defect
Syntax	:SENSe:DATA:TELecom:SDT:OTN:DSELection <wsp><Selection>
Parameter(s)	**Selection**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the defect:
	AISL, AISP, AISV, AULop,
	B1, B2, B3, BIP2, BITerror, BPV,
	CBIT, CRC6,
	DS1AIS, DS1OOF, DS3AIS, DS3OOF,
	E1AIS, E1CRC4, E1EBIT, E1FAS, E1LOF, E1RAI, E2AIS, E2FAS, E2LOF, E2RAI, E3AIS, E3FAS, E3LOF, E3RAI, E4AIS, E4FAS, E4LOF, E4RAI, EPCD, EPPD, EPSD, EVCD, EVPD, EVSD, EXZ,
	FAS, FBIT, FCCW, FEBE, FRAMingbit, FUCW,
	HOPTCMBIP, HOPTCMIAIS, HOPTCMIEC, HOPTCMLTC, HOPTCMODI, HOPTCMOEI, HOPTCMRDI, HOPTCMREI, HOPTCMTIM, HOPTCMUNEQ, HOPTCMVIOL, HPRei, HPUNEQ,
	IDLE,
	LOFLom, LOM, LOMF, LOPPLM, LOPTCMBIP, LOPTCMIAIS, LOPTCMIEC, LOPTCMLTC, LOPTCMODI, LOPTCMOEI, LOPTCMRDI, LOPTCMREI, LOPTCMTIM, LOPTCMUNEQ, LOPTCMVIOL, LOPTIM, LOPUNEQ, LOSE, LOSO, LPRDi, LPRei, LPRFi,
	MFAS,
	OAIS, OBDI, OBEI, OBIae, OBIP8, OBSD, OBSF, ODAis, ODBDi, ODBei, ODBIP8, OFSD, OFSF, OIAe, OLCK, OLOF, OLOM, OMSim, OOCI, OOM, OOOF, OPUAIS, OPUCSF, OPULOOMFI, OPUOMFI, OPUOOMFI, OPUPLM, OTLFAS, OTLINVMArKer, OTLLOF, OTLLOL, OTLLOR, OTLOOF, OTLOOR,
	PBIT, PDIP, PLM, PLOSs,
	RAI, RAIMf, RDI, RDIL, RDIP, REIL, REIP, RFAS, RLOF,
	SEF,
	TS16AIS, TU3AIS, TU3B3, TU3LOM, TU3LOP, TU3PCD, TU3PDI, TU3PLM, TU3PPD, TU3PSD, TU3RDI, TU3REI, TU3TCMBIP, TU3TCMIAIS, TU3TCMIEC, TU3TCMLTC, TU3TCMODI, TU3TCMOEI, TU3TCMRDI, TU3TCMREI, TU3TCMTIM, TU3TCMUNEQ, TU3TCMVIOL, TU3TIM, TU3UNEQ, TULop

:SENSe:DATA:TELecom:SDT:OTN:DSELection

Response Syntax	<Time>
Example(s)	SENS:DATA:TEL:SDT:OTN:DSEL BITERROR
	SENS:DATA:TEL:SDT:OTN:DSEL?
	Returns: BITERROR
See Also	SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE

:SENSe:DATA:TELecom:SDT:OTN:DSELection?

Description	This query returns the defect for selected layer.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > BERT > Service Disruption - Defect
Syntax	:SENSe:DATA:TELecom:SDT:OTN:DSELection?
Response Syntax	<Selection>

:SENSe:DATA:TELecom:SDT:OTN:DSELection?

Response(s)

Selection:

The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.

Returns the defect:

AISL, AISP, AISV, AULop,

B1, B2, B3, BIP2, BITerror, BPV,

CBIT, CRC6,

DS1AIS, DS1OOF, DS3AIS, DS3OOF,

E1AIS, E1CRC4, E1EBIT, E1FAS, E1LOF, E1RAI, E2AIS, E2FAS, E2LOF, E2RAI, E3AIS, E3FAS, E3LOF, E3RAI, E4AIS, E4FAS, E4LOF, E4RAI, EPCD, EPPD, EPSD, EVCD, EVPD, EVSD, EXZ,

FAS, FBIT, FCCW, FEBE, FRAMingbit, FUCW,

HOPTCMBIP, HOPTCMIAIS, HOPTCMIEC, HOPTCMLTC, HOPTCMODI, HOPTCMOEI, HOPTCMRDI, HOPTCMREI, HOPTCMTIM, HOPTCMUNEQ, HOPTCMVIOL, HPRei, HPUNEQ,

IDLE,

LOFLom, LOM, LOMF, LOPPLM, LOPTCMBIP, LOPTCMIAIS, LOPTCMIEC, LOPTCMLTC, LOPTCMODI, LOPTCMOEI, LOPTCMRDI, LOPTCMREI, LOPTCMTIM, LOPTCMUNEQ, LOPTCMVIOL, LOPTIM, LOPUNEQ, LOSE, LOSO, LPRDi, LPRei, LPRFi,

MFAS,

OAIS, OBDI, OBEI, OBIae, OBIP8, OBSD, OBSF, ODAis, ODBDi, ODBei, ODBIP8, OFSD, OFSF, OIAe, OLCK, OLOF, OLOM, OMSim, OOCI, OOM, OOOF, OPUAIS, OPUCSF, OPULOOMFI, OPUOMFI, OPUOOMFI, OPUPLM, OTLFAS, OTLINVMArKer, OTLLOF, OTLLOL, OTLLOR, OTLOOF, OTLOOR,

PBIT, PDIP, PLM, PLOSs,

RAI, RAIMf, RDI, RDIL, RDIP, REIL, REIP, RFAS, RLOF,

SEF,

TS16AIS, TU3AIS, TU3B3, TU3LOM, TU3LOP, TU3PCD, TU3PDI, TU3PLM, TU3PPD, TU3PSD, TU3RDI, TU3REI, TU3TCMBIP, TU3TCMIAIS, TU3TCMIEC, TU3TCMLTC, TU3TCMODI, TU3TCMOEI, TU3TCMRDI, TU3TCMREI, TU3TCMTIM, TU3TCMUNEQ, TU3TCMVIOL, TU3TIM, TU3UNEQ, TULopTU3TIM, TU3UNEQ, TU3TCMVIOL, TULop

Example(s)

SENS:DATA:TEL:SDT:OTN:DSEL BITERROR

SENS:DATA:TEL:SDT:OTN:DSEL?

Returns: BITERROR

See Also

SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE?

:SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE

Description	This command selects on which layer the service disruption time test is performed.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > BERT > Service Disruption - Defect
Syntax	:SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE <wsp><Layer>
Parameter(s)	**Layer**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects on which layer the service disruption time test is performed. Choices depend on the selected test path.
	DS0, DS1, DS2, DS3,
	E0, E1, E2, E3, E4,
	FEC,
	HOP, HOPTCM,
	INTERFACE,
	LINE, LOP, LOPTCM,
	NONE,
	ODU0, ODU1, ODU1E, ODU1F, ODU2, ODU2E, ODU2F, ODU3, ODU3E1, ODU3E2, ODU4,
	OPU0, OPU1, OPU1E, OPU1F, OPU2, OPU2E, OPU2F, OPU3, OPU3E1, OPU3E2, OPU4,
	OTL,
	OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F, OTU3, OTU3E1, OTU3E2, OTU4,
	PATTern for BER,
	SECTion,
	TU3, TU3TCM
Response Syntax	<Selection>
Example(s)	SENS:DATA:TEL:SDT:OTN:LAY:TYPE OTU3e1
	SENS:DATA:TEL:SDT:OTN:LAY:TYPE
	Returns: OTU3e1
See Also	SENSe:DATA:TELecom:SDT:OTN:DSELection

:SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE?

Description	This query returns the layer for service disruption time test.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > BERT > Service Disruption - Defect
Syntax	:SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE?
Response Syntax	<Layer>
Response(s)	Layer:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the layer on which service disruption time test is performed.
	DS0, DS1, DS2, DS3,
	E0, E1, E2, E3, E4,
	FEC,
	HOP, HOPTCM,
	INTERFACE,
	LINE, LOP, LOPTCM,
	NONE,
	ODU0, ODU1, ODU1E, ODU1F, ODU2, ODU2E, ODU2F, ODU3, ODU3E1, ODU3E2, ODU4,
	OPU0, OPU1, OPU1E, OPU1F, OPU2, OPU2E, OPU2F, OPU3, OPU3E1, OPU3E2, OPU4,
	OTL,
	OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F, OTU3, OTU3E1, OTU3E2, OTU4,
	PATTern for BER,
	SECTion,
	TU3, TU3TCM
Example(s)	SENS:DATA:TEL:SDT:OTN:LAY:TYPE Interface
	SENS:DATA:TEL:SDT:OTN:LAY:TYPE?
	Returns: Interface
See Also	SENSe:DATA:TELecom:SDT:OTN:DSELection?

:SENSe:DATA:TELecom:SDT:THReshold

Description	This command selects the configurable threshold value to declare the Service Disruption Pass/Fail verdict.
	At *RST condition, this value is set to 1000 ms.
	Navigation Path: Setup > Test Configurator > <Test Block> > Service Disruption - SDT Threshold
Syntax	:SENSe:DATA:TELecom:SDT:THReshold <wsp><Threshold>
Parameter(s)	**Threshold**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the configurable threshold value to declare the Service Disruption Pass/Fail verdict.
	Choices are from 18.0 to 299999.995
	MAXimum: Biggest supported value
	MINimum: Smallest supported value.
	DEFault: Default value
Response Syntax	<Layer>
Example(s)	SENS:DATA:TEL:SDT:THR 50
	SENS:DATA:TEL:SDT:THR?
	Returns: 50
See Also	SENS[1..n]:DATA:TEL:SDT:NTT 18
	SENS[1..n]:DATA:TEL:SDT:NTT? Returns 18

:SENSe:DATA:TELecom:SDT:THReshold?

Description	This query returns the configurable threshold value to declare the Service Disruption Pass/Fail verdict.
	At *RST condition, this value is set to 50 ms.
	Navigation Path: Setup > Test Configurator > <Test Block> > Service Disruption - SDT Threshold
Syntax	:SENSe:DATA:TELecom:SDT:THReshold?[<wsp><Threshold>]
Parameter(s)	**Threshold**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional.
	If no token is specified, the current threshold value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the configurable threshold value
Example(s)	SENS:DATA:TEL:SDT:THR
	SENS:DATA:TEL:SDT:THR?
	Returns: 0
See Also	SENS[1..n]:DATA:TEL:SDT:NTT 200
	SENS[1..n]:DATA:TEL:SDT:NTT? Returns 200

:SENSe:DATA:TELecom:SDT:VERDict

Description	This command sets the Pass/Fail Verdict.
	At *RST condition, this value is set to Enabled.
	Navigation Path: Setup > Test Configurator > <Test Block> > Service Disruption - Pass/Fail Verdict
Syntax	:SENSe:DATA:TELecom:SDT:VERDict <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:SDT:VERD ON
	SENS:DATA:TEL:SDT:VERD?
	Returns: 1
See Also	SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE

:SENSe:DATA:TELecom:SDT:VERDict?

Description	This query returns the Pass/Fail Verdict.
	At *RST condition, this value is set to Enabled.
	Navigation Path: Setup > Test Configurator > <Test Block> > Service Disruption - Pass/Fail Verdict
Syntax	:SENSe:DATA:TELecom:SDT:VERDict?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the Pass/Failed Verdict status
	1 - Pass/Failed Verdict status is enabled.
	0 - Pass/Failed Verdict status is disabled.
Example(s)	SENS:DATA:TEL:SDT:VERD ON
	SENS:DATA:TEL:SDT:VERD?
	Returns: 1
See Also	SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE

:SENSe:DATA:TELecom:SDT?

Description	This query returns the status of disruption time measurements.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > <Test Block> > Service Disruption - Disruption Monitoring
Syntax	:SENSe:DATA:TELecom:SDT?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the disruption time measurements.
	1 - measurement is enabled.
	0 - measurement is disabled.
Example(s)	SENS:DATA:TEL:SDT ON
	SENS:DATA:TEL:SDT? Returns: 1
See Also	SENSe:DATA:TELecom:SDT:OTN:LAYer:TYPE?

:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:COUNt

Description	This command selects the Pass/Fail Verdict as Bit Error Count and sets the BER Threshold count value.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern > BERT Threshold
Syntax	:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:COUNt <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Pattern Threshold Count Value.
	Choices are 0 to 999999
	MAXimum: Biggest supported count
	MINimum: Smallest supported count
	DEFault: Default value
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:UPRB:PATTern:THReshold:COUN 1000
	SENS:DATA:TEL:UPRB:PATTern:THReshold:COUN? Returns: 1000
See Also	SENSe:DATA:TELecom:SDT:NDTime?

:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:COUNt?

Description	This query returns the BER Threshold count value.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern > BERT Threshold
Syntax	:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:COUNt?[<wsp><GET>]
Parameter(s)	**GET**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Returns the Pattern Threshold Count Value.
	This parameter is optional. If no token is specified, the Pattern Threshold Count Value is returned.
	MAXimum: Biggest count value
	MINimum: Smallest count value
	DEFault: Default value
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the pattern Threshold Count.
Example(s)	SENS:DATA:TEL:UPRB:PATTern:THReshold:COUN 1000
	SENS:DATA:TEL:UPRB:PATTern:THReshold:COUN? Returns: 1000
See Also	SENSe:DATA:TELecom:SDT:NDTime

:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:RATE

Description	This command selects the Pass/Fail Verdict as Bit Error Rate and sets the BER Threshold rate value.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern > BERT Threshold
Syntax	:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:RATE <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Pattern threshold rate.
	Choices are 1.0E-14 through 1.9E-01
	MAXimum: Biggest rate
	MINimum: Smallest rate
	DEFault: Default value
Response Syntax	<Value>
Example(s)	SENS:DATA:TEL:UPRB:PATTern:THReshold:RATE 1.0E-12
	SENS:DATA:TEL:UPRB:PATTern:THReshold:RATE? Returns: 1.0E-12
See Also	SENSe:DATA:TELecom:SDT:PATTern:THReshold:COUNt

:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:RATE?

Description	This query returns BER Threshold rate value.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Unframed BERT > Pattern > BERT Threshold
Syntax	:SENSe:DATA:TELecom:UPRBs:PATTern:THReshold:RATE?[<wsp><GET>]
Parameter(s)	**GET**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Returns the Pattern Threshold Rate.
	This parameter is optional. If no token is specified, the Pattern Threshold Rate is returned.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
	DEFault: Default value
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the pattern Threshold rate.
Example(s)	SENS:DATA:TEL:UPRB:PATTern:THReshold:RATE 1.0E-12
	SENS:DATA:TEL:UPRB:PATTern:THReshold:RATE? Returns: 1.0E-12
See Also	SENSe:DATA:TELecom:SDT:PATTern:THReshold:COUNt

:SOURce:DATA:TELecom:OTN:REStore:DEFault

Description	This command resets the test to its default factory settings.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: OTN Test > Setup > BERT / Unframed BERT > Restore OTN BERT Defaults
Syntax	:SOURce:DATA:TELecom:OTN:REStore:DEFault
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:REST:DEF
See Also	SOURce:DATA:TELecom:SDHSonet:OH:REStore:DEFault
	SOURce:DATA:TELecom:GFP:OH:REStore:DEFault

:SOURce:DATA:TELecom:PATTern:VERDict:DISable

Description	This command disables the Pass/Fail Verdict.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > Test Configurator > BERT > Bit Error - Pass/Fail Verdict
	Navigation Path: Setup > Test Configurator > Clients > BERT > Bit Error - Pass/Fail Verdict
Syntax	:SOURce:DATA:TELecom:PATTern:VERDict:DISable
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:PATTern:VERDict:DISable
See Also	SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:DEFault?

Interface - Laser ON/OFF

:SENSe:DATA:TELecom:ALASer

Description	This command enables/disables the All Lanes selection; once set use the following command to enable/disable the laser for all lanes OUTPut[1..n]:TELecom:LASer
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > OTU4/OTU3/100GE/40GE parallel interface > Interface/Signal > Physical Interface - Laser ON/OFF > All Lanes
Syntax	:SENSe:DATA:TELecom:ALASer <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the laser for all Lanes.
	ON: Enabled
	OFF: Disabled
Response Syntax	<Termination>
Example(s)	SENS:DATA:TEL:ALAS ON
	SENS:DATA:TEL:ALAS?
	Returns: 1
See Also	SENSe:DATA:TELecom:ALASer ON
	SENSe:DATA:TELecom:ALASer?
	Returns: 1

:SENSe:DATA:TELecom:ALASer?

Description	This query returns the state of the All Lanes selection.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > OTU4/OTU3/100GE/40GE parallel interface > Interface/Signal > Physical Interface - Laser ON/OFF > All Lanes
Syntax	:SENSe:DATA:TELecom:ALASer?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the laser for all lanes.
	1, returns the status of the laser for all lanes as ON.
	0, returns the status of the laser for all lanes as OFF.
Example(s)	SENS:DATA:TEL:ALAS ON
	SENS:DATA:TEL:ALAS?
	Returns: 1
See Also	SENSe:DATA:TELecom:LASer?
	SENSe:DATA:TELecom:LASer

:SENSe:DATA:TELecom:LASer

Description	This command enables/disables the laser for the selected lane. Available when the All Lanes setting is disabled.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > Interface > Physical Interface > Laser ON/OFF > Lane
Syntax	:SENSe:DATA:TELecom:LASer <wsp><Lane>, <Set>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the laser according to per lane CONFig.
	ON, sets the laser to ON.
	OFF, sets the laser to OFF.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:LAS 1, ON
	SENS:DATA:TEL:LAS? 1
	Returns: 1
See Also	SENSe:DATA:TELecom:LASer?
	SENSe:DATA:TELecom:ALASer

:SENSe:DATA:TELecom:LASer?

Description	This query returns the enable/disable status of the laser for a specific lane.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > Interface > Physical Interface > Laser ON/OFF > Lane
Syntax	:SENSe:DATA:TELecom:LASer? <wsp><Lane>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status of the laser for a specific lane.
	1: Laser is ON
	0: Lase is OFF
Example(s)	SENS:DATA:TEL:LAS 1, ON
	SENS:DATA:TEL:LAS? 1
	Returns: 1
See Also	SENSe:DATA:TELecom:ALASer

Signal - Signal Configuration (OTN) - Modify Tributary Slots/Port

:FETCh:DATA:TELecom:OTN:BITRate?

Description	This query returns the nominal bit rate value.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > OTU > Signal > Modify Tributary Slots/Port > Nominal Bit Rate
Syntax	:FETCh:DATA:TELecom:OTN:BITRate?
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the nominal bit rate value
Example(s)	FETC:DATA:TEL:OTN:BITRate?
See Also	FETCh:DATA:TELecom:OTN:SLOTs

:FETCh:DATA:TELecom:OTN:SLOTs?

Description	This query returns the number of tributary slot enabled/selected.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > OTU > Signal > Modify Tributary Slots/Port > Number of Trib Slots
Syntax	:FETCh:DATA:TELecom:OTN:SLOTs?
Response Syntax	<Slots>
Response(s)	**Slots**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Count of No.of Tributory Slots selected.
Example(s)	FETC:DATA:TEL:OTN:SLOTs?
See Also	FETCh:DATA:TELecom:OTN:BITRate

:SOURce:DATA:TELecom:OTN:FSTRucture:ENABle

Description	This command enables/disables the fixed structure.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > OTU > Signal > Modify Tributary Slots/Port > Fixed Structure
Syntax	:SOURce:DATA:TELecom:OTN:FSTRucture:ENABle <wsp><OduType>, <Status>
Parameter(s)	**OduType**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Selects the ODU type value.
	Status:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Slots>
Example(s)	SOUR:DATA:TEL:OTN:FSTR:ENAB ODU3,ON
See Also	SOURce:DATA:TELecom:OTN:PORT

:SOURce:DATA:TELecom:OTN:FSTRucture:ENABle?

Description	This query returns the fixed structure status.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > OTU > Signal > Modify Tributary Slots/Port > Fixed Structure
Syntax	:SOURce:DATA:TELecom:OTN:FSTRucture:ENABle? <wsp><OduType>
Parameter(s)	**OduType**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Selects the ODU type value.
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:FSTR:ENAB? ODU3
See Also	SOURce:DATA:TELecom:OTN:PORT

:SOURce:DATA:TELecom:OTN:PORT

Description	This command sets the tributary port value.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > OTU > Signal > Modify Tributary Slots/Port > Tributary Port
Syntax	:SOURce:DATA:TELecom:OTN:PORT <wsp><OduType>,[<Set>]
Parameter(s)	**OduType**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Selects the ODU type value.
	Set:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the port value.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:OTN:PORT ODU3,3
See Also	SOURce:DATA:TELecom:OTN:FSTRucture:ENABle

:SOURce:DATA:TELecom:OTN:PORT?

Description	This query returns the tributary port value.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > OTU > Signal > Modify Tributary Slots/Port > Tributary Port
Syntax	:SOURce:DATA:TELecom:OTN:PORT? <wsp><OduType>
Parameter(s)	**OduType**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Selects the ODU type value.
Response Syntax	<port>
Response(s)	**port**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the port value.
Example(s)	SOUR:DATA:TEL:OTN:PORT? ODU3
See Also	SOURce:DATA:TELecom:OTN:FSTRucture:ENABle

:SOURce:DATA:TELecom:OTN:POSition

Description	This command selects/un-selects a specific tributary slot.
	At *RST condition, this value is set to 1 (ON).
	Navigation Path: Setup > Test Configurator > OTU > Signal > Modify Tributary Slots/Port > Table of slot selection
Syntax	:SOURce:DATA:TELecom:OTN:POSition <wsp><OduType>, <Slot>, <Set>
Parameter(s)	**OduType**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Selects the ODU type value.
	Slot:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the slot value.
	Set:
	The program data syntax for the third parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the slot status whether selected or not selected.
	ON, enables slot selection.
	OFF, disables slot selection.
Response Syntax	<port>
Example(s)	SOUR:DATA:TEL:OTN:POS ODU2,1, ON
See Also	SOURce:DATA:TELecom:OTN:POSition?
	SOURce:DATA:TELecom:OTN:POSition:RANGe

:SOURce:DATA:TELecom:OTN:POSition:RANGe

Description	This command selects/un-selects a group of tributary slots.
	At *RST condition, this value is set to 1 (ON).
	Navigation Path: Setup > Test Configurator > Signal (OTU) > Modify Tributary Slots/Port
Syntax	:SOURce:DATA:TELecom:OTN:POSition:RANGe <wsp><ODU>, <Slot-From>, <Slot-To>, <Set>
Parameter(s)	**ODU**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Selects the ODU type value.
	Slot-From:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the first slot in the range.
	Slot-To:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the last slot in the range.
	Set:
	The program data syntax for the fourth parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/Disables the slots for the selected range.
	ON: Enables slots
	OFF: Disables slots
Response Syntax	<port>
Example(s)	SOUR:DATA:TEL:OTN:POS:RANG ODU4,1,31,ON
	SOUR:DATA:TEL:OTN:POS:RANG? ODU4
See Also	SOURce:DATA:TELecom:OTN:POSition:RANGe?
	SOURce:DATA:TELecom:OTN:POSition

:SOURce:DATA:TELecom:OTN:POSition:RANGe?

Description	This query returns the status for all slots, for selected ODU type.
	At *RST condition, this value is set to 1 (ON).
	Navigation Path: Setup > Test Configurator > OTU > Signal > Modify Tributary Slots/Port > Table of slot selection
Syntax	:SOURce:DATA:TELecom:OTN:POSition:RANGe? <wsp><OduType>
Parameter(s)	**OduType**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Selects the ODU type value.
Response Syntax	<Slot status>
Response(s)	**Slot status**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns all available slots and their status for specified ODU type.
	1: Selected
	0: Not selected
Example(s)	SOUR:DATA:TEL:OTN:POS:RANG ODU4,1,31,ON
	SOUR:DATA:TEL:OTN:POS:RANG? ODU4
See Also	SOURce:DATA:TELecom:OTN:POSition:RANGe?
	SOURce:DATA:TELecom:OTN:POSition?

:SOURce:DATA:TELecom:OTN:POSition?

Description	This query returns the state of a specific tributary slot.
	At *RST condition, this value is set to 1 (ON).
	Navigation Path: Setup > Test Configurator > OTU > Signal > Modify Tributary Slots/Port > Table of slot selection
Syntax	:SOURce:DATA:TELecom:OTN:POSition? <wsp><OduType>, <Slot>
Parameter(s)	**OduType**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Selects the ODU type value.
	Slot:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the slot value.
Response Syntax	<status>
Response(s)	**status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the slot status, whether it is selected or not.
	1: Selected
	0: Not selected
Example(s)	SOUR:DATA:TEL:OTN:POS? ODU2,1
See Also	SOURce:DATA:TELecom:OTN:POSition
	SOURce:DATA:TELecom:OTN:POSition:RANGe?

Signal - Signal Configuration (OTN) - Config TCM

:SOURce:DATA:TELecom:OTN:ODU[1..n]:CONFig:TCM[1..n]

Description	This command enables/disables TCM.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU > Signal > Config TCM > TCMn
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:CONFig:TCM[1..n] <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the TCM values.
	ON, sets the TCM ON.
	OFF, sets the TCM OFF.
Response Syntax	<List of ODUx Tributary Configuration>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:CONF:TCM1 ON
	SOUR:DATA:TEL:OTN:ODU3:CONF:TCM1?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SCRambler
	SOURce:DATA:TELecom:OTN:OTU[1?n]:SCRambler?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:CONFig:TCM[1..n]?

Description	This query returns the status of TCM.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU > Signal > Config TCM > TCMn
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:CONFig:TCM[1..n]?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the TCM values.
	0, returns the status as OFF.
	1, returns the status as ON.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:CONF:TCM1 ON
	SOUR:DATA:TEL:OTN:ODU3:CONF:TCM1?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:SCRambler
	SOURce:DATA:TELecom:OTN:OTU[1..n]:SCRambler?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:CONFig:TCM[1..n]

Description	This command sets the status of TCM values for OTU1e/2e and OTU3e1/e2 rates.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Signal > Config TCM > TCMn
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:CONFig:TCM[1..n] <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:CONF:TCM1 ON
	SOUR:DATA:TEL:OTN:ODU3:E1:CONF:TCM1?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SCRambler
	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SCRambler?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:CONFig:TCM[1..n]?

Description	This query returns the status of TCM for OTU1e/2e and OTU3e1/e2 rates.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU1e/2e / OTU3e1/e2 > Signal > Config TCM > TCMn
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:CONFig:TCM[1..n]?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the TCM values.
	0, returns the status as OFF.
	1, returns the status as ON.
Example(s)	SOUR:DATA:TEL:OTN:ODU3:E1:CONF:TCM1 OFF
	SOUR:DATA:TEL:OTN:ODU3:E1:CONF:TCM1?
	Returns: 0
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SCRambler
	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SCRambler?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:CONFig:TCM[1..n]

Description	This command sets the status of TCM for OTU1f/2f rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > Signal > Config TCM > TCMn
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:CONFig:TCM[1..n] <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:CONFig:TCM1 ON
	SOUR:DATA:TEL:OTN:ODU1:F:CONFig:TCM1?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SCRambler
	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SCRambler?

:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:CONFig:TCM[1..n]?

Description	This query returns the status of TCM for OTU1f/2f rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OTU1f/2f > Signal > Config TCM > TCMn
Syntax	:SOURce:DATA:TELecom:OTN:ODU[1..n]:F:CONFig:TCM[1..n]?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the TCM values.
	0, returns the status of the TCM values is disabled.
	1, returns the status of the TCM values is enabled.
Example(s)	SOUR:DATA:TEL:OTN:ODU1:F:CONFig:TCM1 OFF
	SOUR:DATA:TEL:OTN:ODU1:F:CONFig:TCM1?
	Returns: 0
See Also	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SCRambler
	SOURce:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:SCRambler?

Modify Frame Structure

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:LAYermode

Description	This command sets the Layer mode for selected service.
	At *RST condition, the value is set to Mixed.
	Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > Modify Frame Structure - Layer Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:LAYermode <wsp><Layer Mode>
Parameter(s)	**Layer Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Layer mode.
	MIXED : Mixed
	LAYER2ONLY : L2 Only
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:ETH:ESAM:CONF:SERV:LAY MIXED

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:LAYermode?

Description	This query returns the Layer mode for selected service.
	At *RST condition, the value is set to Mixed.
	Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > Modify Frame Structure - Layer Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:LAYermode?
Response Syntax	<Layer Mode>
Response(s)	**Layer Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Layer Mode.
	MIXED: Mixed
	LAYER2ONLY : L2 Only
Example(s)	SOUR:DATA:TEL:ETH:ESAM:CONF:SERV:LAY MIXED

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN

Description	This command enables/disables VLAN tags.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > Modify Frame Structure > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN <wsp><Service>, <Direction>, <Set>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Set:
	The program data syntax for the third parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the VLAN.
	ON: Enabled
	OFF: Disabled
Response Syntax	<Layer Mode>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN 1, LTOR,ON
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:RESUlt:SCOTest:BURSt:TEST?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STACked

Description	This command selects the number of staked VLAN tags.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > Modify Frame Structure > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STACked <wsp><Service>, <Direction>, <Stacked>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Stacked:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the VLAN stacked.
Response Syntax	<Layer Mode>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN 1, LTOR,ON
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STAC 1, LTOR,3
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STACked?

Description	This query returns the number of staked VLAN tags.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > Modify Frame Structure > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STACked? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
Response Syntax	<Stacked>
Response(s)	**Stacked**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the VLAN stacked.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN 1, LTOR,ON
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STAC 1, LTOR,3
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN:STAC? 1, LTOR
	Returns: 3
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:SERVices:VLAN?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN?

Description	This query returns the status fo VLAN tags.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Services > MAC/IP/UDP > Modify Frame Structure > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
Response Syntax	<Set>

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN?

Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of Virtual Local Area Network (VLAN) Configuration.
	1, VLAN is enabled.
	0, VLAN is disabled.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN 1, LTOR,ON
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN? 1, LTOR
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STRream: ETHer?

:SOURce:DATA:TELecom:ETHernet:PORT:IPVersion

Description	This command selects the IP version.
	At *RST condition, this value is set to IPv4.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > Modify Frame Structure > Global Option - IP Version
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > Global Option - IP Version
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:IPVersion <wsp><IP Version>
Parameter(s)	**IP Version**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the IP version.
	IPV6
	IPV4
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:PORT:IPV IPV6
	SOUR:DATA:TEL:ETH:PORT:IPV?
	Returns: IPV6
See Also	SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:ADDRess?

:SOURce:DATA:TELecom:ETHernet:PORT:IPVersion?

Description	This query returns the IP version.
	At *RST condition, this value is set to IPv4.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > Modify Frame Structure > Global Option - IP Version
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > Global Option - IP Version
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:IPVersion?
Response Syntax	<IP Version>
Response(s)	**IP Version**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the IP version.
	IPV4 | IPV6
Example(s)	SOUR:DATA:TEL:ETH:PORT:IPV IPV6
	SOUR:DATA:TEL:ETH:PORT:IPV?
	Returns: IPV6
See Also	SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:MODE?

:SOURce:DATA:TELecom:ETHernet:STReam:DATalink

Description	This command sets the framing frame format.
	At *RST condition, this value is set to ETHERNETII.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > Modify Frame Structure > Framing - Frame Format
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > Framing - Frame Format
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DATalink[<wsp><Stream>], <Datalink>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Datalink:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Set the type of datalink.
	ETHERNETII: ETHERNETII
	8023LLCSNAP4: 802.3 SNAP
Response Syntax	<IP Version>
Example(s)	SOUR:DATA:TEL:ETH:STR:DAT 1, ETHERNETII
	SOUR:DATA:TEL:ETH:STR:DAT? 1
	Returns: ETHERNETII
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DATalink?

:SOURce:DATA:TELecom:ETHernet:STRem:DATalink?

Description	This query returns the the framing frame format.
	At *RST condition, this value is set to ETHERNETII.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > Modify Frame Structure > Framing - Frame Format
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > Framing - Frame Format
Syntax	:SOURce:DATA:TELecom:ETHernet:STRem:DATalink?[<wsp><Stream>]
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Datalink>
Response(s)	**Datalink**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the selected datalink type.
	ETHERNETII, ETHERNETII as datalink is selected.
	8023LLCSNAP4,802.3 SNAP as datalink is selected.
Example(s)	SOUR:DATA:TEL:ETH:STR:DAT 1, ETHERNETII
	SOUR:DATA:TEL:ETH:STR:DAT? 1
	Returns: ETHERNETII
See Also	SOURce:DATA:TELecom:ETHernet:STRem:DATalink
	SOURce:DATA:TELecom:ETHernet:STRem:NETWork?

:SOURce:DATA:TELecom:ETHernet:STReam:MPLS

Description	This command enables/disables MPLS labels.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > MPLS - MPLS Label
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:MPLS <wsp><Number>, <Set>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the MPLS selection for selected stream
	ON, Enables MPLS selection for selected stream.
	OFF, Disables MPLS selection for selected stream.
Response Syntax	<Datalink>
Example(s)	SOURce:DATA:TELecom:ETHernet:STReam:MPLS 1, on
	SOURce:DATA:TELecom:ETHernet:STReam:MPLS? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MPLS:HEADers

:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:HEADers

Description	This command set the number of MPLS header.
	At *RST condition, this value is set to 2.
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > MPLS - MPLS Label
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:HEADers <wsp><Number>, <Label Count>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	Label Count:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Label Count.
Response Syntax	<Datalink>
Example(s)	SOUR:DATA:TEL:ETH:STR:MPLS:HEAD 1, 1
	SOUR:DATA:TEL:ETH:STR:MPLS:HEAD? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ELECtrical:STReam:MPLS:LABel

:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:HEADers?

Description	This query returns the number fo MPLS header.
	At *RST condition, this value is set to 2.
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > MPLS - MPLS Label
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:MPLS:HEADers? <wsp><Number>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
Response Syntax	<Label Count (header)>
Response(s)	**Label Count (header)**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the label count (Header).
Example(s)	SOUR:DATA:TEL:ETH:STR:MPLS:HEAD 1, 1
	SOUR:DATA:TEL:ETH:STR:MPLS:HEAD? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MPLS:COSexp?

:SOURce:DATA:TELecom:ETHernet:STReam:MPLS?

Description	This query returns the status of MPLS labels.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > MPLS - MPLS Label
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:MPLS? <wsp><Number>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns MPLS status.
	1, MPLS is enabled.
	0, MPLS is disabled.
Example(s)	SOURce:DATA:TELecom:ETHernet:STReam:MPLS 1, on
	SOURce:DATA:TELecom:ETHernet:STReam:MPLS? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MPLS:HEADers?

:SOURce:DATA:TELecom:ETHernet:STReam:NETWork

Description	This command sets framing network layer.
	At *RST condition, this value is set to IPV4.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > Modify Frame Structure > Framing - Network Layer
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > Framing - Network Layer
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:NETWork[<wsp><Tgen>], <Network>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Network:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of network.
	NONE: None
	IPV4: Internet Protocol version 4
	IPV6: Internet Protocol version 6
	MPLSIPV4: IPV4 (Internet Protocol version 4) when MPLS is enabled
	MPLSIPV6: IPV6 (Internet Protocol version 6) when MPLS is enabled
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:STR:NETW 1, IPV4
	SOUR:DATA:TEL:ETH:STR:NETW?
	Returns: IPV4
See Also	SOURce:DATA:TELecom:ETHernet:STReam:NETWork?
	SOURce:DATA:TELecom:ETHernet:STReam:DATalink

:SOURce:DATA:TELecom:ETHernet:STReam:NETWork?

Description	This query returns the framing network layer.
	At *RST condition, this value is set to IPV4.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > Modify Frame Structure > Framing - Network Layer
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > Framing - Network Layer
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:NETWork?[<wsp><Tgen>]
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Network>
Response(s)	**Network**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the selected network type.
	NONE, No network type is selected.
	IPV4, IPV4 is selected as the network type.
	IPV6, IPV6 is selected as the network type.
	MPLSIPV4, MPLSIPV4 is selected as the network type.
	MPLSIPV6,MPLSIPV6 is selected as the network type.
Example(s)	SOUR:DATA:TEL:ETH:STR:NETW 1, IPV4
	SOUR:DATA:TEL:ETH:STR:NETW? 1
	Returns: IPV4
See Also	SOURce:DATA:TELecom:ETHernet:STReam:NETWork

:SOURce:DATA:TELecom:ETHernet:STReam:TRANsport

Description	This command sets the framing transport layer.
	At *RST condition, this value is set to UDP.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > Modify Frame Structure > Framing - Transport Layer
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > Framing - Transport Layer
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:TRANsport[<wsp><Stream>], <Transport>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Transport:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the transport traffic type.
	NONE, No transport traffic type is selected.
	UDP: UDP (User Data Protocol).
	TCP: TCP.
Response Syntax	<Network>
Example(s)	SOUR:DATA:TEL:ETH:STR:TRAN 1, UDP
	SOUR:DATA:TEL:ETH:STR:TRAN? 1
	Returns: UDP
See Also	SOURce:DATA:TELecom:ETHernet:STReam:TRANsport?

:SOURce:DATA:TELecom:ETHernet:STReam:TRANsport?

Description	This query returns the framing transport layer.
	At *RST condition, this value is set to UDP.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > Modify Frame Structure > Framing - Transport Layer
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > Framing - Transport Layer
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:TRANsport?[<wsp><Stream>]
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Transport>
Response(s)	**Transport**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the selected transport type.
	UDP, transport link as UDP is selected.
	TCP,transport link as TCP is selected.
Example(s)	SOUR:DATA:TEL:ETH:STR:TRAN 1, UDP
	SOUR:DATA:TEL:ETH:STR:TRAN? 1
	Returns: UDP
See Also	SOURce:DATA:TELecom:ETHernet:STReam:NETWork

:SOURce:DATA:TELecom:ETHernet:STReam:VLAN

Description	This command enables/disables VLAN tags.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > Modify Frame Structure > VLAN - VLAN Tag
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:VLAN[<wsp><Number>], <Set>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Set the VLAN for the stream.
	ON, enables the VLAN
	OFF, disables the VLAN.
Response Syntax	<Transport>
Example(s)	SOUR:DATA:TEL:ETH:STR:VLAN 1, ON
	SOUR:DATA:TEL:ETH:STR:VLAN? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:VLAN?

:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:STACked

Description	This command sets the number of stacked VLAN.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > Modify Frame Structure > VLAN - VLAN Tag
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:STACked <wsp><Number>, <Stacked>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	Stacked:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the VLAN stacked.
Response Syntax	<Transport>
Example(s)	SOUR:DATA:TEL:ETH:STR:VLAN 1, ON
	SOUR:DATA:TEL:ETH:STR:VLAN:STAC 1, 3
	SOUR:DATA:TEL:ETH:STR:VLAN:STAC? 1
	Returns: 3
See Also	SOURce:DATA:TELecom:ETHernet:STReam:VLAN
	SOURce:DATA:TELecom:ETHernet:STReam:VLAN:STACked?

:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:STACked?

Description	This query returns the number of stacked VLAN.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > Modify Frame Structure > VLAN - VLAN Tag
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:VLAN:STACked? <wsp><Number>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
Response Syntax	<Stacked>
Response(s)	**Stacked**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the VLAN stacked.
Example(s)	SOUR:DATA:TEL:ETH:STR:VLAN 1, ON
	SOUR:DATA:TEL:ETH:STR:VLAN:STAC 1, 3
	SOUR:DATA:TEL:ETH:STR:VLAN:STAC? 1
	Returns: 3
See Also	SOURce:DATA:TELecom:ETHernet:STReam:VLAN
	SOURce:DATA:TELecom:ETHernet:STReam:VLAN:STACked

:SOURce:DATA:TELecom:ETHernet:STReam:VLAN?

Description	This query returns the status of VLAN tags.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > Modify Frame Structure > VLAN - VLAN Tag
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > Modify Frame Structure > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:VLAN?[<wsp><Number>]
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of VLAN type frames.
	1, VLAN is enabled.
	0, VLAN is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:VLAN 1, ON
	SOUR:DATA:TEL:ETH:STR:VLAN? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:VLAN
	SOURce:DATA:TELecom:ETHernet:STReam:VLAN:STACked

TOS/DS Configuration

:SOURce:DATA:TELecom:ETHernet:IP:DS:CODE

Description	This command sets the DSCP Codepoints value.
	At *RST condition, this value is set to CS0.
	Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Differentiated Services - DSCP Codepoints.
Syntax	:SOURce:DATA:TELecom:ETHernet:IP:DS:CODE <wsp><Direction>, <Code>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	Code:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the code point for the differentiated services.
	AF11, AF12, AF13, AF21, AF22, AF23, AF31, AF32, AF33, AF41, AF42, AF43
	CS0, CS1, CS2,CS3, CS4, CS5, CS6, CS7
	DSCP51
	DSCP54
	EF
	UCODE: User Defined
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:IP:DS:CODE LTOR, CS1
	SOUR:DATA:TEL:ETH:IP:DS:CODE? LTOR
	Returns: CS1
See Also	SOURce:DATA:TELecom:ETHernet:IP:DS
	SOURce:DATA:TELecom:ETHernet:IP:DS:CODE?

:SOURce:DATA:TELecom:ETHernet:IP:DS:CODE?

Description	This query returns the DSCP Codepoints value.
	At *RST condition, this value is set to CS0.
	Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Differentiated Services - DSCP Codepoints
Syntax	:SOURce:DATA:TELecom:ETHernet:IP:DS:CODE? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Code>

:SOURce:DATA:TELecom:ETHernet:IP:DS:CODE?

Response(s)	Code:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Return the DS codepoint value.
	CS0, selects CS0 as the DS code point.
	CS1, selects CS1 as the DS code point.
	CS2, selects CS2 as the DS code point.
	CS3, selects CS3 as the DS code point.
	CS4, selects CS4 as the DS code point.
	CS5, selects CS5 as the DS code point.
	CS6, selects CS6 as the DS code point.
	CS7, selects CS7 as the DS code point.
	AF11, selects AF11 as the DS code point.
	AF12, selects AF12 as the DS code point.
	AF13, selects AF13 as the DS code point.
	AF21, selects AF21 as the DS code point.
	AF22, selects AF22 as the DS code point.
	AF23, selects AF23 as the DS code point.
	AF31, selects AF31 as the DS code point.
	AF32, selects AF32 as the DS code point.
	AF33, selects AF33 as the DS code point.
	AF41, selects AF41as the DS code point.
	AF42, selects AF42 as the DS code point.
	AF43, selects AF43 as the DS code point.
	EF, selects EF as the DS code point.
	DSCP51, selects 51 as the DS code point.
	DSCP54, selects 54 as the DS code point.
	UCODe, selects User Defined as the DS code point.
Example(s)	SOUR:DATA:TEL:ETH:IP:DS:CODE LTOR, CS1
	SOUR:DATA:TEL:ETH:IP:DS:CODE? LTOR
	Returns: CS1
See Also	SOURce:DATA:TELecom:ETHernet:IP:DS
	SOURce:DATA:TELecom:ETHernet:IP:DS:CODE

:SOURce:DATA:TELecom:ETHernet:IP:DS:ECN

Description	This command sets the value of Explicit Congestion Notification (ECN).
	At *RST condition, this value is set to 00 (Not-ECT).
	Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Differentiated Services - ECN
Syntax	:SOURce:DATA:TELecom:ETHernet:IP:DS:ECN <wsp><Direction>, <Ecn>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	Ecn:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the value for ECN (Explicit Congestion Notification).
	NECT: Not ECT (ECN Capable Transport)
	ECT1: ECT-1
	ECT0: ECT-0
	CE: CE (European Conformity)
Response Syntax	<Code>
Example(s)	SOUR:DATA:TEL:ETH:IP:DS:ECN LTOR, NECT
	SOUR:DATA:TEL:ETH:IP:DS:ECN? LTOR
	Returns: NECT
See Also	SOURce:DATA:TELecom:ETHernet:IP:DS
	SOURce:DATA:TELecom:ETHernet:IP:DS:ECN?

:SOURce:DATA:TELecom:ETHernet:IP:DS:ECN?

Description	This query returns the value of the Explicit Congestion Notification (ECN).
	At *RST condition, this value is set to 00 (Not-ECT).
	Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Differentiated Services - ECN
Syntax	:SOURce:DATA:TELecom:ETHernet:IP:DS:ECN? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Ecn>
Response(s)	**Ecn**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the value of Explicit Congestion
	Notification (ECN).
	NECT, indicates Not ECT (ECN Capable Transport) as the ECN value.
	ECT1, indicates ECT-1 as the ECN value.
	ECT0, indicates ECT-0 as the ECN value.
	CE, indicates CE (European Conformity) as the ECN value.
Example(s)	SOUR:DATA:TEL:ETH:IP:DS:ECN LTOR, NECT
	SOUR:DATA:TEL:ETH:IP:DS:ECN? LTOR
	Returns: NECT
See Also	SOURce:DATA:TELecom:ETHernet:IP:DS
	SOURce:DATA:TELecom:ETHernet:IP:DS:ECN

:SOURce:DATA:TELecom:ETHernet:IP:TOS:BIT

Description	This command selects the reserved bit value of Type of Service (TOS).
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Type Of Service - Reserved Bit
Syntax	:SOURce:DATA:TELecom:ETHernet:IP:TOS:BIT <wsp><Direction>, <Bit>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	Bit:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Selects the reserved bit value.
	0
	1
Response Syntax	<Ecn>
Example(s)	SOUR:DATA:TEL:ETH:IP:TOS:BIT LTOR,#B1
	SOUR:DATA:TEL:ETH:IP:TOS:BIT? LTOR
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:IP:TOS:BIT?

:SOURce:DATA:TELecom:ETHernet:IP:TOS:BIT?

Description	This query returns the reserved bit value of the Type of Service (TOS).
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Type Of Service - Reserved Bit
Syntax	:SOURce:DATA:TELecom:ETHernet:IP:TOS:BIT? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Bit>
Response(s)	**Bit**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the reserved bit value.
Example(s)	SOUR:DATA:TEL:ETH:IP:TOS:BIT LTOR,#B1
	SOUR:DATA:TEL:ETH:IP:TOS:BIT? LTOR
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:IP:TOS:BIT

:SOURce:DATA:TELecom:ETHernet:IP:TOS:COST

Description	This command sets the monetary cost level of the Type of Service (TOS).
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Type Of Service - Monetary Cost
Syntax	:SOURce:DATA:TELecom:ETHernet:IP:TOS:COST <wsp><Direction>, <Cost>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	Cost:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the monetary cost level of the Type of Service.
	NORMal: Normal
	TLOW: Low
Response Syntax	<Bit>
Example(s)	SOUR:DATA:TEL:ETH:IP:TOS:COST LTOR, TLOW
	SOUR:DATA:TEL:ETH:IP:TOS:COST? LTOR
	Returns: TLOW
See Also	SOURce:DATA:TELecom:ETHernet:IP:TOS:COST?

:SOURce:DATA:TELecom:ETHernet:IP:TOS:COST?

Description	This query returns the monetary cost level of the Type of Service (TOS).
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Type Of Service - Monetary Cost
Syntax	:SOURce:DATA:TELecom:ETHernet:IP:TOS:COST? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Cost>
Response(s)	**Cost**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the monetary cost level of the Type of Service.
	NORMal, indicates Normal as the monetary cost level.
	TLOW, indicates Low as the monetary cost level.
Example(s)	SOUR:DATA:TEL:ETH:IP:TOS:COST LTOR, TLOW
	SOUR:DATA:TEL:ETH:IP:TOS:COST? LTOR
	Returns: TLOW
See Also	SOURce:DATA:TELecom:ETHernet:IP:TOS:COST

:SOURce:DATA:TELecom:ETHernet:IP:TOS:DELay

Description	This command sets the delay level of the Type of Service (TOS).
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Type Of Service - Delay
Syntax	:SOURce:DATA:TELecom:ETHernet:IP:TOS:DELay <wsp><Direction>, <Delay>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	Delay:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the delay level of the Type of Service.
	NORMal: Normal
	TLOW: Low
Response Syntax	<Cost>
Example(s)	SOUR:DATA:TEL:ETH:IP:TOS:DEL LTOR, TLOW
	SOUR:DATA:TEL:ETH:IP:TOS:DEL? LTOR
	Returns: TLOW
See Also	SOURce:DATA:TELecom:ETHernet:IP:TOS:DELay?

:SOURce:DATA:TELecom:ETHernet:IP:TOS:DELay?

Description	This query returns the delay level of the Type of Service (TOS).
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Type Of Service - Delay
Syntax	:SOURce:DATA:TELecom:ETHernet:IP:TOS:DELay? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Delay>
Response(s)	**Delay**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the delay level of the Type of Service.
	NORMal, indicates Normal as the delay level.
	TLOW, indicates Low as the delay level.
Example(s)	SOUR:DATA:TEL:ETH:IP:TOS:DEL LTOR, TLOW
	SOUR:DATA:TEL:ETH:IP:TOS:DEL? LTOR
	Returns: TLOW
See Also	SOURce:DATA:TELecom:ETHernet:IP:TOS:DELay

:SOURce:DATA:TELecom:ETHernet:IP:TOS:PRECedence

Description	This command sets the precedence of the Type of Service (TOS).
	At *RST condition, this value is set to ROUTine.
	Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Type Of Service - Precedence
Syntax	:SOURce:DATA:TELecom:ETHernet:IP:TOS:PRECedence <wsp><Direction>, <Precedence>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	Precedence:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the precedence of the Type of Service (TOS) for the selected traffic stream.
	ROUTine: Routine.
	PRIority: Priority.
	IMMediate: Immediate.
	FLASh: Flash.
	FOVerride: Flash Override.
	CRITic: Critic.
	ICONtrol: Internet Control.
	NCONtrol: Network Control.
Response Syntax	<Delay>
Example(s)	SOUR:DATA:TEL:ETH:IP:TOS:PREC LTOR, ROUT
	SOUR:DATA:TEL:ETH:IP:TOS:PREC? LTOR
	Returns: ROUTINE
See Also	SOURce:DATA:TELecom:ETHernet:IP:TOS:PRECedence?
	SOURce:DATA:TELecom:ETHernet:IP:TOS:DELay

:SOURce:DATA:TELecom:ETHernet:IP:TOS:PRECedence?

Description	This query returns the precedence of the Type of Service (TOS).
	At *RST condition, this value is set to ROUTine.
	Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Type Of Service - Precedence
Syntax	:SOURce:DATA:TELecom:ETHernet:IP:TOS:PRECedence? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Precedence>
Response(s)	**Precedence**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the precedence of the Type of Service.
	ROUTINE, Routine is selected as the TOS precedence.
	PRIORITY, Priority is selected as precedence.
	IMMEDIATE, Immediate is selected as precedence.
	FLASH, Flash is selected as precedence.
	FOVERRIDE, Flash Override is selected as precedence.
	CRITIC, Critic is selected as precedence.
	ICONTROL, Internet Control is selected as precedence.
	NCONTROL, Network Control is selected as precedence.
Example(s)	SOUR:DATA:TEL:ETH:IP:TOS:PREC LTOR, ROUT
	SOUR:DATA:TEL:ETH:IP:TOS:PREC? LTOR
	Returns: ROUTINE
See Also	SOURce:DATA:TELecom:ETHernet:IP:TOS:PRECedence
	SOURce:DATA:TELecom:ETHernet:IP:TOS:DELay

:SOURce:DATA:TELecom:ETHernet:IP:TOS:RELiability

Description	This command sets the reliability level of the Type of Service (TOS).
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Type Of Service - Reliability
Syntax	:SOURce:DATA:TELecom:ETHernet:IP:TOS:RELiability <wsp><Direction>, <Reliability>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	Reliability:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the reliability level of the Type of Service.
	NORMal: Normal
	HIGH: High
Response Syntax	<Precedence>
Example(s)	SOUR:DATA:TEL:ETH:IP:TOS:REL LTOR, HIGH
	SOUR:DATA:TEL:ETH:IP:TOS:REL? LTOR
	Returns: HIGH
See Also	SOURce:DATA:TELecom:ETHernet:IP:TOS:RELiability?
	SOURce:DATA:TELecom:ETHernet:IP:TOS:PRECedence

:SOURce:DATA:TELecom:ETHernet:IP:TOS:RELiability?

Description	This query returns the reliability level of the Type of Service (TOS).
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Type Of Service - Reliability
Syntax	:SOURce:DATA:TELecom:ETHernet:IP:TOS:RELiability? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Reliability>
Response(s)	**Reliability**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the reliability level of the Type of Service.
	NORMal, indicates the reliability level as Normal.
	HIGH, indicates the reliability level as High.
Example(s)	SOUR:DATA:TEL:ETH:IP:TOS:REL LTOR, HIGH
	SOUR:DATA:TEL:ETH:IP:TOS:REL? LTOR
	Returns: HIGH
See Also	SOURce:DATA:TELecom:ETHernet:IP:TOS:RELiability
	SOURce:DATA:TELecom:ETHernet:IP:TOS:PRECedence

:SOURce:DATA:TELecom:ETHernet:IP:TOS:THRoughput

Description	This command sets the throughput level of the Type of Service (TOS).
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Type Of Service - Throughput
Syntax	:SOURce:DATA:TELecom:ETHernet:IP:TOS:THRoughput <wsp><Direction>, <Throughput>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	Throughput:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the throughput level of the Type of Service.
	NORMal: Normal
	HIGH: High
Response Syntax	<Reliability>
Example(s)	SOUR:DATA:TEL:ETH:IP:TOS:THR LTOR, HIGH
	SOUR:DATA:TEL:ETH:IP:TOS:THR? LTOR
	Returns: HIGH
See Also	SOURce:DATA:TELecom:ETHernet:IP:TOS:THRoughput?
	SOURce:DATA:TELecom:ETHernet:IP:TOS:PRECedence

:SOURce:DATA:TELecom:ETHernet:IP:TOS:THRoughput?

Description	This query returns the throughput level of the Type of Service (TOS).
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > RFC 6349 > TOS/DS Config > Type Of Service - Throughput
Syntax	:SOURce:DATA:TELecom:ETHernet:IP:TOS:THRoughput? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Throughput>
Response(s)	**Throughput**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the throughput level of the Type of Service.
	NORMAL, Normal is selected as the throughput level.
	HIGH, High is selected as the throughput level.
Example(s)	SOUR:DATA:TEL:ETH:IP:TOS:THR LTOR, HIGH
	SOUR:DATA:TEL:ETH:IP:TOS:THR? LTOR
	Returns: HIGH
See Also	SOURce:DATA:TELecom:ETHernet:IP:TOS:THRoughput
	SOURce:DATA:TELecom:ETHernet:IP:TOS:PRECedence

:SOURce:DATA:TELecom:ETHernet:STReam:DS

Description	This command enables/disables the differentiated service status for the selected traffic stream.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > TOS/DS
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > TOS/DS
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DS <wsp><Tgen>,[<Set>]
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enable or disable the DS.
	ON, Enables the DS.
	OFF, Disables the DS.
Response Syntax	<Throughput>
Example(s)	SOUR:DATA:TEL:ETH:STR:DS 1, ON
	SOUR:DATA:TEL:ETH:STR:DS? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DS?

:SOURce:DATA:TELecom:ETHernet:STReam:DS:CODE

Description	This command sets the DSCP Codepoints value.
	At *RST condition, this value is set to CS0.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Differentiated Services - DSCP Codepoints
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Differentiated Services - DSCP Codepoints
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DS:CODE <wsp><Tgen>,[<Code>]
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Code:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the code point for the differentiated services.
	AF11, AF12, AF13, AF21, AF22, AF23, AF31, AF32, AF33, AF41, AF42, AF43
	CS0, CS1, CS2,CS3, CS4, CS5, CS6, CS7
	DSCP51
	DSCP54
	EF
	UCODE: User Defined
Response Syntax	<Throughput>
Example(s)	SOUR:DATA:TEL:ETH:STR:DS 1, ON
	SOUR:DATA:TEL:ETH:STR:DS:CODE 1, CS1
	SOUR:DATA:TEL:ETH:STR:DS:CODE? 1
	Returns: CS1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DS
	SOURce:DATA:TELecom:ETHernet:STReam:DS:CODE?

:SOURce:DATA:TELecom:ETHernet:STReam:DS:CODE?

Description	This query returns the DSCP Codepoints value.
	At *RST condition, this value is set to CS0.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Differentiated Services - DSCP Codepoints
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Differentiated Services - DSCP Codepoints
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DS:CODE? <wsp><Tgen>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Code>

:SOURce:DATA:TELecom:ETHernet:STReam:DS:CODE?

Response(s)	Code:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Return the DS codepoint value.
	CS0, selects CS0 as the DS code point.
	CS1, selects CS1 as the DS code point.
	CS2, selects CS2 as the DS code point.
	CS3, selects CS3 as the DS code point.
	CS4, selects CS4 as the DS code point.
	CS5, selects CS5 as the DS code point.
	CS6, selects CS6 as the DS code point.
	CS7, selects CS7 as the DS code point.
	AF11, selects AF11 as the DS code point.
	AF12, selects AF12 as the DS code point.
	AF13, selects AF13 as the DS code point.
	AF21, selects AF21 as the DS code point.
	AF22, selects AF22 as the DS code point.
	AF23, selects AF23 as the DS code point.
	AF31, selects AF31 as the DS code point.
	AF32, selects AF32 as the DS code point.
	AF33, selects AF33 as the DS code point.
	AF41, selects AF41as the DS code point.
	AF42, selects AF42 as the DS code point.
	AF43, selects AF43 as the DS code point.
	EF, selects EF as the DS code point.
	DSCP51, selects 51 as the DS code point.
	DSCP54, selects 54 as the DS code point.
	UCODe, selects User Defined as the DS code point.
Example(s)	SOUR:DATA:TEL:ETH:STR:DS 1, ON
	SOUR:DATA:TEL:ETH:STR:DS:CODE 1, CS1
	SOUR:DATA:TEL:ETH:STR:DS:CODE? 1
	Returns: CS1

:SOURce:DATA:TELecom:ETHernet:STReam:DS:CODE?

See Also   SOURce:DATA:TELecom:ETHernet:STReam:DS

SOURce:DATA:TELecom:ETHernet:STReam:DS:CODE

:SOURce:DATA:TELecom:ETHernet:STReam:DS:ECN

Description	This command sets the value of Explicit Congestion Notification (ECN).
	At *RST condition, this value is set to 00 (Not-ECT).
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Differentiated Services - ECN
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Differentiated Services - ECN
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DS:ECN <wsp><Tgen>,[<Ecn>]
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Ecn:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the value for ECN (Explicit Congestion Notification).
	NECT: Not ECT (ECN Capable Transport)
	ECT1: ECT-1
	ECT0: ECT-0
	CE: CE (European Conformity)
Response Syntax	<Code>
Example(s)	SOUR:DATA:TEL:ETH:STR:DS 1, ON
	SOUR:DATA:TEL:ETH:STR:DS:ECN 1, NECT
	SOUR:DATA:TEL:ETH:STR:DS:ECN? 1
	Returns: NECT
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DS
	SOURce:DATA:TELecom:ETHernet:STReam:DS:ECN?

:SOURce:DATA:TELecom:ETHernet:STReam:DS:ECN?

Description	This query returns the value of the Explicit Congestion Notification (ECN).
	At *RST condition, this value is set to 00 (Not-ECT).
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Differentiated Services - ECN
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Differentiated Services - ECN
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DS:ECN? <wsp><Tgen>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Ecn>
Response(s)	**Ecn**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the value of Explicit Congestion
	Notification (ECN).
	NECT, indicates Not ECT (ECN Capable Transport) as the ECN value.
	ECT1, indicates ECT-1 as the ECN value.
	ECT0, indicates ECT-0 as the ECN value.
	CE, indicates CE (European Conformity) as the ECN value.
Example(s)	SOUR:DATA:TEL:ETH:STR:DS 1, ON
	SOUR:DATA:TEL:ETH:STR:DS:ECN 1, NECT
	SOUR:DATA:TEL:ETH:STR:DS:ECN? 1
	Returns: NECT
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DS
	SOURce:DATA:TELecom:ETHernet:STReam:DS:ECN

:SOURce:DATA:TELecom:ETHernet:STReam:DS?

Description	This query returns the status of the differentiated service status for the selected traffic stream.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > TOS/DS
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > TOS/DS
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:DS? <wsp><Tgen>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of differentiated service.
	1, Differentiated service is enabled.
	0, Differentiated service is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:DS 1, ON
	SOUR:DATA:TEL:ETH:STR:DS? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DS

:SOURce:DATA:TELecom:ETHernet:STReam:TOS:BIT

Description	This command selects the reserved bit value of Type of Service (TOS).
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Reserved Bit
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Reserved Bit
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:TOS:BIT <wsp><Tgen>, <Bit>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Bit:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Selects the reserved bit value.
	0
	1
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:STR:TOS:BIT 4,#B1
	SOUR:DATA:TEL:ETH:STR:TOS:BIT? 4
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:TOS:BIT?

:SOURce:DATA:TELecom:ETHernet:STReam:TOS:BIT?

Description	This query returns the reserved bit value of the Type of Service (TOS).
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Reserved Bit
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Reserved Bit
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:TOS:BIT? <wsp><Tgen>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Bit>
Response(s)	**Bit**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the reserved bit value.
Example(s)	SOUR:DATA:TEL:ETH:STR:TOS:BIT 4,#B1
	SOUR:DATA:TEL:ETH:STR:TOS:BIT? 4
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:TOS:BIT

:SOURce:DATA:TELecom:ETHernet:STReam:TOS:COST

Description	This command sets the monetary cost level of the Type of Service (TOS).
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Monetary Cost
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Monetary Cost
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:TOS:COST <wsp><Tgen>, <Cost>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Cost:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the monetary cost level of the Type of Service.
	NORMal: Normal
	TLOW: Low
Response Syntax	<Bit>
Example(s)	SOUR:DATA:TEL:ETH:STR:TOS:COST 1, TLOW
	SOUR:DATA:TEL:ETH:STR:TOS:COST? 1
	Returns: TLOW
See Also	SOURce:DATA:TELecom:ETHernet:STReam:TOS:COST?

:SOURce:DATA:TELecom:ETHernet:STReam:TOS:COST?

Description	This query returns the monetary cost level of the Type of Service (TOS).
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Monetary Cost
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Monetary Cost
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:TOS:COST? <wsp><Tgen>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Cost>
Response(s)	**Cost**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the monetary cost level of the Type of Service.
	NORMal, indicates Normal as the monetary cost level.
	TLOW, indicates Low as the monetary cost level.
Example(s)	SOUR:DATA:TEL:ETH:STR:TOS:COST 1, TLOW
	SOUR:DATA:TEL:ETH:STR:TOS:COST? 1
	Returns: TLOW
See Also	SOURce:DATA:TELecom:ETHernet:STReam:TOS:COST

:SOURce:DATA:TELecom:ETHernet:STReam:TOS:DELay

Description	This command sets the delay level of the Type of Service (TOS).
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Delay
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Delay
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:TOS:DELay <wsp><Tgen>, <Delay>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Delay:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the delay level of the Type of Service.
	NORMal: Normal
	TLOW: Low
Response Syntax	<Cost>
Example(s)	SOUR:DATA:TEL:ETH:STR:TOS:DEL 1, TLOW
	SOUR:DATA:TEL:ETH:STR:TOS:DEL? 1
	Returns: TLOW
See Also	SOURce:DATA:TELecom:ETHernet:STReam:TOS:DELay?

:SOURce:DATA:TELecom:ETHernet:STReam:TOS:DELay?

Description	This query returns the delay level of the Type of Service (TOS).
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Delay
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Delay
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:TOS:DELay? <wsp><Tgen>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Delay>
Response(s)	**Delay**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the delay level of the Type of Service.
	NORMal, indicates Normal as the delay level.
	TLOW, indicates Low as the delay level.
Example(s)	SOUR:DATA:TEL:ETH:STR:TOS:DEL 1, TLOW
	SOUR:DATA:TEL:ETH:STR:TOS:DEL? 1
	Returns: TLOW
See Also	SOURce:DATA:TELecom:ETHernet:STReam:TOS:DELay

:SOURce:DATA:TELecom:ETHernet:STReam:TOS:PRECedence

Description	This command sets the precedence of the Type of Service (TOS).
	At *RST condition, this value is set to ROUTine.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Precedence
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Precedence
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:TOS:PRECedence <wsp><Tgen>,[<Precedence>]
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Precedence:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the precedence of the Type of Service (TOS) for the selected traffic stream.
	ROUTine: Routine.
	PRIority: Priority.
	IMMediate: Immediate.
	FLASh: Flash.
	FOVerride: Flash Override.
	CRITic: Critic.
	ICONtrol: Internet Control.
	NCONtrol: Network Control.
Response Syntax	<Delay>
Example(s)	SOUR:DATA:TEL:ETH:STR:TOS:PREC 1, ROUT
	SOUR:DATA:TEL:ETH:STR:TOS:PREC? 1
	Returns: ROUTINE
See Also	SOURce:DATA:TELecom:ETHernet:STReam:TOS:PRECedence?
	SOURce:DATA:TELecom:ETHernet:STReam:TOS:DELay

:SOURce:DATA:TELecom:ETHernet:STReam:TOS:PRECedence ?

Description	This query returns the precedence of the Type of Service (TOS).
	At *RST condition, this value is set to ROUTine.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Precedence
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Precedence
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:TOS:PRECedence? <wsp><Tgen>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Precedence>
Response(s)	**Precedence**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the precedence of the Type of Service.
	ROUTINE, Routine is selected as the TOS precedence.
	PRIORITY, Priority is selected as precedence.
	IMMEDIATE, Immediate is selected as precedence.
	FLASH, Flash is selected as precedence.
	FOVERRIDE, Flash Override is selected as precedence.
	CRITIC, Critic is selected as precedence.
	ICONTROL, Internet Control is selected as precedence.
	NCONTROL, Network Control is selected as precedence.
Example(s)	SOUR:DATA:TEL:ETH:STR:TOS:PREC 1, ROUT
	SOUR:DATA:TEL:ETH:STR:TOS:PREC? 1
	Returns: ROUTINE
See Also	SOURce:DATA:TELecom:ETHernet:STReam:TOS:PRECedence
	SOURce:DATA:TELecom:ETHernet:STReam:TOS:DELay

:SOURce:DATA:TELecom:ETHernet:STReam:TOS:RELiability

Description	This command sets the reliability level of the Type of Service (TOS).
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Reliability
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Reliability
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:TOS:RELiability <wsp><Tgen>, <Reliability>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Reliability:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the reliability level of the Type of Service.
	NORMal: Normal
	HIGH: High
Response Syntax	<Precedence>
Example(s)	SOUR:DATA:TEL:ETH:STR:TOS:REL 1, HIGH
	SOUR:DATA:TEL:ETH:STR:TOS:REL? 1
	Returns: HIGH
See Also	SOURce:DATA:TELecom:ETHernet:STReam:TOS:RELiability?
	SOURce:DATA:TELecom:ETHernet:STReam:TOS:PRECedence

:SOURce:DATA:TELecom:ETHernet:STReam:TOS:RELiability?

Description	This query returns the reliability level of the Type of Service (TOS).
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Reliability
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Reliability
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:TOS:RELiability? <wsp><Tgen>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Reliability>
Response(s)	**Reliability**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the reliability level of the Type of Service.
	NORMal, indicates the reliability level as Normal.
	HIGH, indicates the reliability level as High.
Example(s)	SOUR:DATA:TEL:ETH:STR:TOS:REL 1, HIGH
	SOUR:DATA:TEL:ETH:STR:TOS:REL? 1
	Returns: HIGH
See Also	SOURce:DATA:TELecom:ETHernet:STReam:TOS:RELiability
	SOURce:DATA:TELecom:ETHernet:STReam:TOS:PRECedence

:SOURce:DATA:TELecom:ETHernet:STReam:TOS:THRoughput

Description	This command sets the throughput level of the Type of Service (TOS).
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Throughput
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Throughput
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:TOS:THRoughput <wsp><Tgen>, <Throughput>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Throughput:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the throughput level of the Type of Service.
	NORMal: Normal
	HIGH: High
Response Syntax	<Reliability>
Example(s)	SOUR:DATA:TEL:ETH:STR:TOS:THR 1, HIGH
	SOUR:DATA:TEL:ETH:STR:TOS:THR? 1
	Returns: HIGH
See Also	SOURce:DATA:TELecom:ETHernet:STReam:TOS:THRoughput?
	SOURce:DATA:TELecom:ETHernet:STReam:TOS:PRECedence

:SOURce:DATA:TELecom:ETHernet:STReam:TOS:THRoughput ?

Description	This query returns the throughput level of the Type of Service (TOS).
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Throughput
	Navigation Path: Setup > Test Configurator > Streams/Services > MAC/IP/UDP > IP > TOS/DS Config > Type Of Service - Throughput
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:TOS:THRoughput? <wsp><Tgen>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Throughput>
Response(s)	**Throughput**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the throughput level of the Type of Service.
	NORMAL, Normal is selected as the throughput level.
	HIGH, High is selected as the throughput level.
Example(s)	SOUR:DATA:TEL:ETH:STR:TOS:THR 1, HIGH
	SOUR:DATA:TEL:ETH:STR:TOS:THR? 1
	Returns: HIGH
See Also	SOURce:DATA:TELecom:ETHernet:STReam:TOS:THRoughput
	SOURce:DATA:TELecom:ETHernet:STReam:TOS:PRECedence

Configure Per Frame Size

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:ALL:FRAMe

Description	This command selects/clears the All Frames check box.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Config. Per Frame Size > All Frames
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LATency:ALL:FRAMe <wsp><Test>
Parameter(s)	**Test**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables All Frames.
	ON, enables All Frames.
	OFF, disables All Frames.
Response Syntax	<Validations>
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:ALL:FRAM ON
	SOUR:DATA:TEL:ETH:RFC:LAT:ALL:FRAM?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TTIMe?

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:ALL:FRAMe?

Description	This query returns the status the All Frames check box.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Config. Per Frame Size > All Frames
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LATency:ALL:FRAMe?
Response Syntax	<Get>
Response(s)	**Get**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of 'All Frames'.
	0, returns the status of checkbox as disabled.
	1, returns the status of checkbox as enabled.
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:ALL:FRAM ON
	SOUR:DATA:TEL:ETH:RFC:LAT:ALL:FRAM?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TTIMe

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]

Description	This command selects the maximum rate per frame for the latency subtest.
	At *RST condition, this value is set to 100.0000.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Config. Per Frame Size > Max Rate (per frame)
	NOTE: For MAXRate[1..n], use MAXR1 to MAXR10 corresponding to the frame number.
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n] <wsp><Direction>, <Maxrate>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the direction.
	(For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1)
	TX2RX: TX-to-RX (TX2RX) for single port topology.
	LTORemote: Local-to-Remote direction.
	RTOLocal: Remote-to-Local direction.
	P1TOP2: P1 -TO-P2.
	P2TOP1: P2 -TO-P1.
	BIDirectional: Bidirectional
	Maxrate:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the maximum rate for the Latency test.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]

Response Syntax	\<Get\>
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:MAXR1 TX2RX,10.00
	SOUR:DATA:TEL:ETH:RFC:LAT:MAXR1? TX2RX
	Returns: 10.00
See Also	SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate1?

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1.. n]:SETall

Description	This command sets the maximum rate for all frame sizes.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Config. Per Frame Size > Max Rate (All)
	NOTE: For MAXRate[1..n], use MAXR1 to MAXR10 corresponding to the frame number.
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]:SETall <wsp><Direction>, <Maxrate>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the direction.
	(For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1)
	TX2RX: TX-to-RX (TX2RX) for single port topology.
	LTORemote: Local-to-Remote direction.
	RTOLocal: Remote-to-Local direction.
	P1TOP2: P1 -TO-P2.
	P2TOP1: P2 -TO-P1.
	BIDirectional: Bidirectional
	Maxrate:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the value for all frame sizes. Choices varies according to the selection of unit.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]:SETall

Response Syntax	\<Get\>
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:MAXR:SET TX2RX,50.00
	SOUR:DATA:TEL:ETH:RFC:LAT:MAXR:SET? TX2RX
See Also	SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TAVerage
	SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TAVerage?

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1.. n]:SETall?

Description	This query returns the maximum rate for all frame sizes.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Config. Per Frame Size > Max Rate (All)
	NOTE: For MAXRate[1..n], use MAXR1 to MAXR10 corresponding to the frame number.
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]:SETall? <wsp><Direction>,[<Maxrate>]
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the direction.
	(For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1)
	TX2RX: TX-to-RX (TX2RX) for single port topology.
	LTORemote: Local-to-Remote direction.
	RTOLocal: Remote-to-Local direction.
	P1TOP2: P1 -TO-P2.
	P2TOP1: P2 -TO-P1.
	BIDirectional: Bidirectional
	Maxrate:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the value for all frame sizes. Choices varies according to the selection of unit.
	This parameter is optional. If no token is specified, the current value for all frame sizes is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Maxrate>

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1.. n]:SETall?

Response(s)	**Maxrate**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the value for all frame sizes.
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:MAXR:SETall TX2RX,50.00
	SOUR:DATA:TEL:ETH:RFC:LAT:MAXR:SETall? TX2RX
See Also	SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate1?

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]?

Description	This query returns the maximum rate per frame for the latency subtest.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Config. Per Frame Size > Max Rate (per frame)
	NOTE: For MAXRate[1..n], use MAXR1 to MAXR10 corresponding to the frame number.
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]? <wsp><Direction>,[<Maxrate>]
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the direction.
	(For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1)
	TX2RX: TX-to-RX (TX2RX) for single port topology.
	LTORemote: Local-to-Remote direction.
	RTOLocal: Remote-to-Local direction.
	P1TOP2: P1 -TO-P2.
	P2TOP1: P2 -TO-P1.
	BIDirectional: Bidirectional
	Maxrate:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the maximum rate for the Latency test.
	This parameter is optional. If no token is specified, the current maximum rate for the latency subtest is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Maxrate>

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1.. n]?

Response(s)	**Maxrate**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the maximum rate for the latency test.
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:MAXR1 TX2RX,10.00
	SOUR:DATA:TEL:ETH:RFC:LAT:MAXR1? TX2RX
	Returns: 10.00
See Also	SOURce:DATA:TELecom:ETHernet:RFC:LATency:MAXRate

GFP-F/GFP-T

:SOURce:DATA:TELecom:GFP:CHANnel:CONFig:CID

Description

This command sets the Channel ID.

At *RST condition, this value is 0.

Navigation Path: Setup > Test Configurator > GFP-F/GFP-T > Extension Header - CID

Syntax

:SOURce:DATA:TELecom:GFP:CHANnel:CONFig:CID <wsp><Value>

Parameter(s)

Value:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects Channel Id between 0 to 255.

MAXimum, sets Channed Id to maximum value.

MINimum, sets Channed Id to minimum value.

Response Syntax

<Threshold>

Example(s)

SOUR:DATA:TEL:GFP:CHAN:CONF:CID 230

SOUR:DATA:TEL:GFP:CHAN:CONF:CID?

Returns: 230

See Also

SOURce:DATA:TELecom:GFP:CHANnel:CONFig:TYPE?

:SOURce:DATA:TELecom:GFP:CHANnel:CONFig:CID?

Description	This query returns the Channel ID.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > GFP-F/GFP-T > Extension Header - CID
Syntax	:SOURce:DATA:TELecom:GFP:CHANnel:CONFig:CID?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified the CONFig is 0.
	MAXimum, sets Channed Id to maximum value.
	MINimum, sets Channed Id to minimum value.
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Channel used for reception.
Example(s)	SOUR:DATA:TEL:GFP:CHAN:CONF:CID 230
	SOUR:DATA:TEL:GFP:CHAN:CONF:CID?
	Returns: 230
See Also	SOURce:DATA:TELecom:GFP:CHANnel:CONFig:TYPE

:SOURce:DATA:TELecom:GFP:CHANnel:CONFig:TYPE

Description	This command sets the presence of expected payload FCS for Frames.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > GFP-F/GFP-T > Type Header - CDF pFCS / CMF pFCS
Syntax	:SOURce:DATA:TELecom:GFP:CHANnel:CONFig:TYPE <wsp><Frames>, <Status>
Parameter(s)	**Frames**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Client Frame Type.
	CDFRames
	CMFRames
	Status:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:GFP:CHAN:CONF:TYPE CDFR,ON
	SOUR:DATA:TEL:GFP:CHAN:CONF:TYPE? CDFR
	Returns: 1
See Also	SOURce:DATA:TELecom:GFP:CHANnel:CONFig:CID?

:SOURce:DATA:TELecom:GFP:CHANnel:CONFig:TYPE?

Description	This query returns the presence of expected payload FCS for Frames.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > GFP-F/GFP-T > Type Header - CDF pFCS / CMF pFCS
Syntax	:SOURce:DATA:TELecom:GFP:CHANnel:CONFig:TYPE? <wsp><Frames>
Parameter(s)	**Frames**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Client Frame Type.
	CDFRames
	CMFRames
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the presence of expected payload Gfp for Frames.
	1 -expected payload Gfp for Frames is enabled.
	0 -expected payload Gfp for Frames is disabled.
Example(s)	SOUR:DATA:TEL:GFP:CHAN:CONF:TYPE CDFR,ON
	SOUR:DATA:TEL:GFP:CHAN:CONF:TYPE? CDFR
	Returns: 1
See Also	SOURce:DATA:TELecom:GFP:CHANnel:CONFig:CID

:SOURce:DATA:TELecom:GFP:CONFig:EXI

Description	This command sets the Extension Header Identifier
	At *RST condition, this value is set to Null.
	Navigation Path: Setup > Test Configurator > GFP-F/GFP-T > Type Header - EXI
Syntax	:SOURce:DATA:TELecom:GFP:CONFig:EXI <wsp><Value>
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Extension Header Identifier value.
	NULL
	LINEar
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:GFP:CONF:EXI NULL
	SOUR:DATA:TEL:GFP:CONF:EXI?
	Returns: NULL
See Also	SOURce:DATA:TELecom:GFP:CHANnel:CONFig:TYPE?

:SOURce:DATA:TELecom:GFP:CONFig:EXI?

Description	This query returns the Extension Header Identifier.
	At *RST condition, this value is set to Null.
	Navigation Path: Setup > Test Configurator > GFP-F/GFP-T > Type Header - EXI
Syntax	:SOURce:DATA:TELecom:GFP:CONFig:EXI?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the status of Extension Header Identifier.
	NULL, returns NULL as Extension Header Identifier
	LINEAR, returns LINEAR as Extension Header Identifier
Example(s)	SOUR:DATA:TEL:GFP:CONF:EXI NULL
	SOUR:DATA:TEL:GFP:CONF:EXI?
	Returns: NULL
See Also	SOURce:DATA:TELecom:GFP:CHANnel:CONFig:TYPE

Signal - Signal Configuration (SONET/SDH)

:SENSe:DATA:TELecom:POSition

Description	This command sets the RX mapping position for decoupled test.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - STS/AU - Timeslot
Syntax	:SENSe:DATA:TELecom:POSition <wsp><Positionid>, <Position1>,[<Position2>],[<Position3>],[<Position4>],[<Position5>]
Parameter(s)	**Positionid**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the mapping position.
	HOPPosition: HOP (High Order Path)
	LOPPosition: LOP (Low Order Path)
	Position1:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the mapping position values.
	Position2:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the mapping position 2 value.
	Position3:
	The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the mapping position 3 value.
	Position4:
	The program data syntax for the fifth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the mapping position 4 value.
	Position5:
	The program data syntax for the sixth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the mapping position 5 value.

:SENSe:DATA:TELecom:POSition

Response Syntax	\<TX Last QL message\>
Example(s)	SOUR:DATA:TEL:POS HOPP,1, 1, 1, 3,1
	SOUR:DATA:TEL:POS? HOPP
	Returns: (1, 1, 1, 3,1)
See Also	SENSe:DATA:TELecom:HOP:TYPE

:SENSe:DATA:TELecom:POSition?

Description	This query returns the RX mapping position for decoupled test.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - STS/AU - Timeslot
Syntax	:SENSe:DATA:TELecom:POSition? <wsp><Positionid>
Parameter(s)	**Positionid**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the mapping position.
	HOPPosition: HOP (High Order Path)
	LOPPosition: LOP (Low Order Path)
Response Syntax	<Position>
Response(s)	**Position**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the mapping positions.
Example(s)	SOUR:DATA:TEL:POS HOPP,1, 1, 1, 3,1
	SOUR:DATA:TEL:POS? HOPP
	Returns: (1, 1, 1, 3,1)
See Also	SENSe:DATA:TELecom:HOP:TYPE?

:SENSe:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:TCUNeq: ENABle

Description	This command enables/disables the STS/AU Path TCM UNEQ.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration > STS/AU > TC-UNEQ-P/HPTC-UNEQ
Syntax	:SENSe:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:TCUNeq:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Position>
Example(s)	SENS:DATA:TEL:SDHS:ALAR:HOP:TCM:TCUNeq:ENAB ON
	SENS:DATA:TEL:SDHS:ALAR:HOP:TCM:TCUNeq:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:TCUNeq:ENABle?

:SENSe:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:TCUNeq: ENABle?

Description	This query returns the enable/disable status of STS/AU Path TCM UNEQ.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration > STS/AU > TC-UNEQ-P/HPTC-UNEQ
Syntax	:SENSe:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:TCUNeq:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SENS:DATA:TEL:SDHS:ALAR:HOP:TCM:TCUNeq:ENAB ON
	SENS:DATA:TEL:SDHS:ALAR:HOP:TCM:TCUNeq:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:TCUNeq:ENABle

:SENSe:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:TCUNeq: ENABle

Description	This command enables/disables the VT/TU Path TCM UNEQ.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration > VT/TU > TC-UNEQ-V/LPTC-UNEQ
Syntax	:SENSe:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:TCUNeq:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Status>
Example(s)	SENS:DATA:TEL:SDHS:ALAR:LOP:TCM:TCUNeq:ENAB ON
	SENS:DATA:TEL:SDHS:ALAR:LOP:TCM:TCUNeq:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:TCUNeq:ENABle?

:SENSe:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:TCUNeq: ENABle?

Description	This query returns the enable/disable status of the VT/TU Path TCM UNEQ.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration > VT/TU > TC-UNEQ-V/LPTC-UNEQ
Syntax	:SENSe:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:TCUNeq:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SENS:DATA:TEL:SDHS:ALAR:LOP:TCM:TCUNeq:ENAB ON
	SENS:DATA:TEL:SDHS:ALAR:LOP:TCM:TCUNeq:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:TCUNeq:ENABle

:SENSe:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABle

Description	This command enables/disables the RX TCM for Higher rates.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - STS/AU - TCM
Syntax	:SENSe:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABle <wsp><Status>
Parameter(s)	Status:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Status>
Example(s)	SENS:DATA:TEL:SDHS:HOP:CONF:TCM:ENAB ON
	SENS:DATA:TEL:SDHS:HOP:CONF:TCM:ENAB?
	Returns: 1
See Also	SENSe:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABle?

:SENSe:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABle?

Description	This query returns the status of RX TCM for Higher rates.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - STS/AU - TCM
Syntax	:SENSe:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SENS:DATA:TEL:SDHS:HOP:CONF:TCM:ENAB ON
	SENS:DATA:TEL:SDHS:HOP:CONF:TCM:ENAB?
	Returns: 1
See Also	SENSe:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABle

:SENSe:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABle

Description	This command enables/disables the RX TCM for Lower rates.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - VT/TU - TCM
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABle <wsp><Status>
Parameter(s)	Status:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Status>
Example(s)	SENS:DATA:TEL:SDHS:LOP:CONF:TCM:ENAB ON
	SENS:DATA:TEL:SDHS:LOP:CONF:TCM:ENAB?
	Returns: 1
See Also	SENSe:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABle?

:SENSe:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABle?

Description	This query returns the status of the RX TCM for Lower rates.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - VT/TU - TCM
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SENS:DATA:TEL:SDHS:LOP:CONF:TCM:ENAB ON
	SENS:DATA:TEL:SDHS:LOP:CONF:TCM:ENAB?
	Returns: 1
See Also	SENSe:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABle

:SOURce:DATA:TELecom:BACKground:BULK

Description	This command enables/disables the Bulk Filled Overwrite Enable feature.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > OC-n > Signal > Signal Configuration - STS-1 - Overwrite Fixed Stuff
Syntax	:SOURce:DATA:TELecom:BACKground:BULK <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the Overwrite Fixed Stuff feature.
	ON - Enables Bulk overwrite Fixed Stuff status
	OFF - Disables bulk overwrite Fixed Stuff status
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:BACK:BULK ON
	SOUR:DATA:TEL:BACK:BULK?
	Returns: 1
See Also	SOURce:DATA:TELecom:BACKground:SDHSonet:HOP

:SOURce:DATA:TELecom:BACKground:BULK?

Description	This query returns the status of the Bulk Filled Overwrite Enable feature.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > OC-n > Signal > Signal Configuration - STS-1 - Overwrite Fixed Stuff
Syntax	:SOURce:DATA:TELecom:BACKground:BULK?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the Bulk Filled Overwrite Enable feature.
	1 - Bulk overwrite fixed Stuff Enabled.
	0 - Bulk overwrite fixed Stuff Disabled.
Example(s)	SOUR:DATA:TEL:BACK:BULK ON
	SOUR:DATA:TEL:BACK:BULK?
	Returns: 1
See Also	SOURce:DATA:TELecom:BACKground:SDHSonet:HOP?

:SOURce:DATA:TELecom:BACKground:COMPutation

Description	This command selects of the computation method available for embedded OC-192/STM-64.
	At *RST condition, this value set to M1ONLY
	Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - OC-n/STM-n - REI-L/MS-REI Computation Method
Syntax	:SOURce:DATA:TELecom:BACKground:COMPutation <wsp><COMPutation>
Parameter(s)	**COMPutation**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the payload computation method.
	M1only: M1.
	M0M1: the M1 and M0
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:BACK:COMP M0M1
	SOUR:DATA:TEL:BACK:COMP?
	Returns: M0M1
See Also	SOURce:DATA:TELecom:BACKground:SDHSonet:HOP?

:SOURce:DATA:TELecom:BACKground:COMPutation?

Description	This query returns the computation method available for embedded OC-192/STM-64.
	At *RST condition, this value set to M1ONLY.
	Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - OC-n/STM-n - REI-L/MS-REI Computation Method
Syntax	:SOURce:DATA:TELecom:BACKground:COMPutation?
Response Syntax	<Computation>
Response(s)	**Computation**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the computation method.
	M1ONLY, M1 as computation method is selected.
	M0M1, M1 and M0 as computation method is selected.
Example(s)	SOUR:DATA:TEL:BACK:COMP M0M1
	SOUR:DATA:TEL:BACK:COMP?
	Returns: M0M1
See Also	SOURce:DATA:TELecom:BACKground:SDHSonet:HOP

:SOURce:DATA:TELecom:BACKground:SDHSonet:HOP

Description	This command selects the High Order Path (HOP) background traffic.
	At *RST condition, this value set to EQUIPPED1.
	Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - STS/AU - Background
Syntax	:SOURce:DATA:TELecom:BACKground:SDHSonet:HOP \<wsp>\<Background Traffic>
Parameter(s)	**Background Traffic**:
	The program data syntax for the first parameter is defined as a \<CHARACTER PROGRAM DATA> element.
	Selects the High Order Path (HOP) background traffic.
	AIS: Alarm Indication Signal
	UNEQUIPPED1: Unequipped
	EQUIPPED1: Equipped
Response Syntax	\<Computation>
Example(s)	SOUR:DATA:TEL:BACK:SDHS:HOP EQUIPPED1
	SOUR:DATA:TEL:BACK:SDHS:HOP?
	Returns: EQUIPPED1
See Also	SOURce:DATA:TELecom:BACKground:COMPutation

:SOURce:DATA:TELecom:BACKground:SDHSonet:HOP?

Description	This query returns the High Order Path (HOP) background traffic.
	At *RST condition, this value set to EQUIPPED1.
	Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - STS/AU - Background
Syntax	:SOURce:DATA:TELecom:BACKground:SDHSonet:HOP?
Response Syntax	<Background traffic>
Response(s)	**Background traffic**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the High Order Path (HOP) background traffic.
	AIS, Alarm Indication Signal (AIS) as background traffic is selected.
	UNEQUIPPED1, Unequipped as background traffic is selected.
	EQUIPPED1, Equipped as background traffic is selected.
Example(s)	SOUR:DATA:TEL:BACK:SDHS:HOP EQUIPPED1
	SOUR:DATA:TEL:BACK:SDHS:HOP?
	Returns: EQUIPPED1
See Also	SOURce:DATA:TELecom:BACKground:COMPutation?

:SOURce:DATA:TELecom:BACKground:SDHSonet:LOP

Description	This command selects the Low Order Path (LOP) background traffic.
	At *RST condition, this value set to EQUIPPED1.
	Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - VT/TU - Background
Syntax	:SOURce:DATA:TELecom:BACKground:SDHSonet:LOP <wsp><Background Traffic>
Parameter(s)	**Background Traffic:**
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the LOP (Low Order Path) background traffic.
	AIS: Alarm Indication Signal
	UNEQUIPPED1: Unequipped
	EQUIPPED1: Equipped
Response Syntax	<Background traffic>
Example(s)	SOUR:DATA:TEL:BACK:SDHS:LOP EQUIPPED1
	SOUR:DATA:TEL:BACK:SDHS:LOP?
	Returns: EQUIPPED1
See Also	SOURce:DATA:TELecom:BACKground:COMPutation?

:SOURce:DATA:TELecom:BACKground:SDHSonet:LOP?

Description	This query returns the Low Order Path (LOP) background traffic.
	At *RST condition, this value set to EQUIPPED1.
	Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - VT/TU - Background
Syntax	:SOURce:DATA:TELecom:BACKground:SDHSonet:LOP?
Response Syntax	<Background traffic>
Response(s)	**Background traffic**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the LOP (Low Order Path) background traffic.
	AIS, Alarm Indication Signal (AIS) as background traffic is selected.
	UNEQUIPPED1, Unequipped as background traffic is selected.
	EQUIPPED1, Equipped as background traffic is selected.
Example(s)	SOUR:DATA:TEL:BACK:SDHS:LOP EQUIPPED1
	SOUR:DATA:TEL:BACK:SDHS:LOP?
	Returns: EQUIPPED1
See Also	SOURce:DATA:TELecom:BACKground:COMPutation

:SOURce:DATA:TELecom:POSition

Description

This command sets the TX mapping position.

At *RST condition, this value is device dependent.

Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - STS/AU - Timeslot

For SONET HOP: The STS-1 is defined using the timeslot followed by the two-level [STS-3#,STS-1#] convention.

For SONET LOP: The VT Number is defined using the VTG followed by the VT number.

For SDH HOP: The AU is defined using a 2 to 5 level convention E,D,C,B,A depending on the rate of the STM-n used.

E: the AUG-64 are numbered 1 to 4 (Only used with rate STM-256)

D: the AUG-16 are numbered 1 to 4

C: the AUG-4 are numbered 1 to 4

B: the AUG-1 are numbered 1 to 4

A: the AU-3 are numbered 1 to 3. For AU-3 in STM-0e, A=0.

For SDH LOP: The TU is defined using a 2 or 3 level convention K,L,M depending on the rate of the AU-4 or AU-3 used.

K: the TUG-3 are numbered 1 to 3

L: the TUG-2 are numbered within the TUG-3 0 or from 1 to 7

M: the TU-2, TU-12, TU-11 are numbered within the TUG-2 1, 1 to 3, 1 to 4 respectively

Syntax

:SOURce:DATA:TELecom:POSition <wsp><Positionid>, <Position1>,[<Position2>],[<Position3>],[<Position4>],[<Position5>]

:SOURce:DATA:TELecom:POSition

Parameter(s)

Positionid:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the mapping position.

HOPPosition: HOP (High Order Path)

LOPPosition: LOP (Low Order Path)

Position1:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

For SONET HOP: Sets the Timeslot number. However, the next two parameters are mandatory and will overwrite this value for the corresponding timeslot number.

For SONET LOP: Sets the VTG number.

For SDH HOP : Sets the number for either AUG-16 for STM-64, AUG-4 for STM-16, AUG-1 for STM-4, or AU-3 for STM-1

For SDH LOP: The number for the highest TUG level (2 or 3 level convention).

Position2:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

For SONET HOP: Sets the STS-3 number.

For SONET LOP: Sets the VT number.

For SDH HOP: Sets the number for either AUG-4 for STM-64, AUG-1 for STM-16, or AU-3 for STM-4

For SDH LOP: The number for either the second TUG level (3 level convention) or TU number (2 level convention).

Position3:

The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

For SONET HOP: Sets the STS-1 number.

For SONET LOP: This parameter is not used.

For SDH HOP: Sets the number for either AUG-1 for STM-64, or AU-3 for STM-16

For SDH LOP: The TU number (3 level convention).

:SOURce:DATA:TELecom:POSition

Parameter(s)	**Position4**:
	The program data syntax for the fifth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	For SONET HOP: This parameter is not used.
	For SONET LOP: This parameter is not used.
	For SDH LOP: Sets the number for AU-3 for STM-64
	For SDH LOP: This parameter is not used.
	Position5:
	The program data syntax for the sixth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	This parameter is no longer used.
Response Syntax	<Background traffic>
Example(s)	SOUR:DATA:TEL:POS HOPP, 2, 1, 2
	SOUR:DATA:TEL:POS? HOPP
	Returns: 2:[1,2]
See Also	SOURce:DATA:TELecom:HOP:TYPE

:SOURce:DATA:TELecom:POSition?

Description	This query returns the TX mapping position.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - STS/AU - Timeslot
Syntax	:SOURce:DATA:TELecom:POSition? <wsp><Positionid>
Parameter(s)	**Positionid**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the mapping position.
	HOPPosition: HOP (High Order Path)
	LOPPosition: LOP (Low Order Path)
Response Syntax	<Position>
Response(s)	**Position**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the mapping positions.
Example(s)	SOUR:DATA:TEL:POS HOPP, 2, 1, 2
	SOUR:DATA:TEL:POS? HOPP
	Returns: 2:[1,2]
See Also	SOURce:DATA:TELecom:HOP:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ADVanced:S:BITS:SSMessage

Description	This command selects the Bits 5-8 (Synchronization Status Message)
	At *RST condition, this value is set to QUNKNOWN0000.
	Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - OC-n/STM-n - Synchronization Status Message (S1)
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:S:BITS:SSMessage <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Bits 5-8 (Synchronization Status Message).
	QUNKNOWN0000: Quality Unknown (0000) Bits Synchronization Status Message.
	ST10001: ST1 (0001) Bits Synchronization Status Message.
	RESERVED0010: RESERVED (0010)
	RESERVED0011: Reserved (0011)
	TNC0100: TNC (0100)
	RESERVED0101: Reserved (0101)
	RESERVED0110: Reserved (0110)
	ST20111: ST2 (0111)
	RESERVED1000: Reserved (1000)
	RESERVED1001: Reserved (1001)
	ST31010: ST3 (1010)
	RESERVED1011: Reserved (1011)
	SMC1100: SMC (1100)
	PNO1101: PNO (1101)
	ST3E1110: ST3E (1110)
	DUSYNCH1111: Don't Use for Synchronization (1111)

:SOURce:DATA:TELecom:SDHSonet:ADVanced:S:BITS:SSMessage

Response Syntax	<Position>
Example(s)	SOUR:DATA:TEL:SDHS:ADV:S:BITS:SSM QUNKNOWN0000
	SOUR:DATA:TEL:SDHS:ADV:S:BITS:SSM?
	Returns: QUNKNOWN0000
See Also	SOURce:DATA:TELecom:HOP:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ADVanced:S:BITS:SSMessage?

Description	This query returns Bits 5-8 (Synchronization Status Message).
	At *RST condition, this value is set to QUNKNOWN0000.
	Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - OC-n/STM-n - Synchronization Status Message (S1)
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:S:BITS:SSMessage?
Response Syntax	\<Type\>

:SOURce:DATA:TELecom:SDHSonet:ADVanced:S:BITS:SSMessage?

Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Sets the Bits 5-8 (Synchronization Status Message).
	QUNKNOWN0000 - Quality Unknown (0000) Bits Synchronization Status Message is selected.
	ST10001 - ST1 (0001) Bits Synchronization Status Message is selected.
	RESERVED0001 -RESERVED (0010) Bits Synchronization Status Message is selected.
	RESERVED0011 - Reserved (0011) Bits Synchronization Status Message is selected.
	TNC0100 - TNC (0100) Bits Synchronization Status Message is selected.
	RESERVED0101- Reserved (0101) Bits Synchronization Status Message is selected.
	RESERVED0110- Reserved (0110) Bits Synchronization Status Message is selected.
	ST20111 - ST2 (0111) Bits Synchronization Status Message is selected.
	RESERVED1000 - RESERVED (1000) Bits Synchronization Status Message is selected.
	RESERVED1001- Reserved (1001) Bits Synchronization Status Message is selected.
	ST31010 - ST3 (1010) Bits Synchronization Status Message is selected.
	RESERVED1010 - RESERVED (SEC) (1011) Bits Synchronization Status Message is selected.
	SMC1100 - SMC (1100) Bits Synchronization Status Message is selected.
	ST3E1101 - ST3E (1101) Bits Synchronization Status Message is selected.
	PNO1110 - PNO (1110) Bits Synchronization Status Message is selected.
	DUSYNCH1111- Don't Use for Synchronization (1111) Bits Synchronization Status Message is selected.
Example(s)	SOUR:DATA:TEL:SDHS:ADV:S:BITS:SSM QUNKNOWN0000
	SOUR:DATA:TEL:SDHS:ADV:S:BITS:SSM?
	Returns: QUNKNOWN0000
See Also	SOURce:DATA:TELecom:HOP:TYPE

:SOURce:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABle

Description	This command enables/disables the TX TCM for Higher rates.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - STS/AU - TCM
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:SDHS:HOP:CONF:TCM:ENAB ON
	SOUR:DATA:TEL:SDHS:HOP:CONF:TCM:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABle?

:SOURce:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABle ?

Description	This query returns the status of TX TCM for Higher rates.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - STS/AU - TCM
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABle?
Response Syntax	\<Status\>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA\> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:HOP:CONF:TCM:ENAB ON
	SOUR:DATA:TEL:SDHS:HOP:CONF:TCM:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABle

:SOURce:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABle

Description	This command enables/disables the TX TCM for Lower rates.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - VT/TU - TCM
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABle <wsp><Status>
Parameter(s)	Status:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:SDHS:LOP:CONF:TCM:ENAB ON
	SOUR:DATA:TEL:SDHS:LOP:CONF:TCM:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABle?

:SOURce:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABle ?

Description	This query returns the status of TX TCM for Lower rates.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OC-n/STM-n > Signal > Signal Configuration - VT/TU - TCM
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:CONFig:TCM:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:LOP:CONF:TCM:ENAB ON
	SOUR:DATA:TEL:SDHS:LOP:CONF:TCM:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:CONFig:TCM:ENABle

Traces (SONET/SDH)

:SENSe:DATA:TELecom:SDHSonet:HOP:TCAPident:EXPected

Description	This command sets the TCM Access Point Identifier expected message High Order Path.
	At *RST condition, the configuration is set to a device-dependent value.
	Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - STS/AU Path (N1) - Expected
Syntax	:SENSe:DATA:TELecom:SDHSonet:HOP:TCAPident:EXPected[<wsp><Message>]
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the expected message for 16 or 64 bytes format for Path overhead.
Response Syntax	<Label>
Example(s)	SENSe:DATA:TEL:SDHS:HOP:TCAP:EXPected tcmmessage
	SENSe:DATA:TEL:SDHS:HOP:TCAP:EXPected?
	Returns: tcmmessage
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern?

:SENSe:DATA:TELecom:SDHSonet:HOP:TCAPident:EXPected?

Description	This command sets the TCM Access Point Identifier expected message High Order Path.
	At *RST condition, the configuration is set to a device-dependent value.
	Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - STS/AU Path (N1) - Expected
Syntax	:SENSe:DATA:TELecom:SDHSonet:HOP:TCAPident:EXPected?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the expected TCM Access Point Identifier message for Path Overhead.
Example(s)	SENSe:DATA:TEL:SDHS:HOP:TCAP:EXPected tcmmessage
	SENSe:DATA:TEL:SDHS:HOP:TCAP:EXPected?
	Returns: tcmmessage
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern

:SENSe:DATA:TELecom:SDHSonet:HOP:TCAPident:TCTim

Description	This command enables/disables the TCMIM status for TCM Access Point Identifier High Order Path.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - TC-TIM-P/HPTC-TIM
	Navigation Path: Results > Traces > TCM Access Point Identifier - TC-TIM-P/HPTC-TIM
Syntax	:SENSe:DATA:TELecom:SDHSonet:HOP:TCAPident:TCTim <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the status of Trace Identifier Mismatch (TIM).
	ON, enables the status of Trace Identifier Mismatch (TIM)
	OFF, disables the status of Trace Identifier Mismatch (TIM)
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:SDHS:HOP:TCAP:TCTim ON
	SENS:DATA:TEL:SDHS:HOP:TCAP:TCTim?
See Also	SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM?

:SENSe:DATA:TELecom:SDHSonet:HOP:TCAPident:TCTim?

Description	This query returns the the TCMIM status for TCM Access Point Identifier for High Order Path.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - TC-TIM-P/HPTC-TIM
	Navigation Path: Results > Traces > TCM Access Point Identifier - TC-TIM-P/HPTC-TIM
Syntax	:SENSe:DATA:TELecom:SDHSonet:HOP:TCAPident:TCTim?
Response Syntax	<Set>
Response(s)	Set:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the Trace Identifier Mismatch (TIM).
	1, TCM Access Point Identifier is enabled.
	0, TCM Access Point Identifier is disabled.
Example(s)	SENS:DATA:TEL:SDHS:HOP:TCAP:TCTim ON
	SENS:DATA:TEL:SDHS:HOP:TCAP:TCTim?
See Also	SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM?

:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM

Description	This command enables/disables the Trace Identifier Mismatch (TIM) for the expected message defined for Low Path Overhead.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-V/LP-TIM
	Navigation Path: Result > Traces > Traces - TIM-V/LP-TIM
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:SDHS:LOP:OVER:TIM ON
	SENS:DATA:TEL:SDHS:LOP:OVER:TIM?
	Returns: 1
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM?

:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM:PATTern

Description	This command sets the Trace Identifier Mismatch value in 16 or 64 byte format for Low Path Overhead.
	At *RST condition, this value is set to B16.
	Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-V/LP-TIM - Format
	Navigation Path: Result > Traces > Traces - TIM-V/LP-TIM - Format
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM:PATTern <wsp><Pattern>
Parameter(s)	**Pattern**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the format expected in the J1 trace for Path overhead.
	B16: the 16 bytes format.
	B64: the 64 bytes format.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:SDHS:LOP:OVER:TIM:PATT B16
	SENS:DATA:TEL:SDHS:LOP:OVER:TIM:PATT?
	Returns: B16
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern?

:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM:PATTern:B

Description	This command sets the expected message for 16 OR 64 bytes format for Low Path Overhead.
	At *RST condition, this value is set to EXFO SONET/SDH.
	Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-V/LP-TIM - Expected
	Navigation Path: Result > Traces > Traces - TIM-V/LP-TIM - Expected
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM:PATTern:B <wsp><Pattern>, <Message>
Parameter(s)	**Pattern**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the format expected in the J1 trace for Path overhead.
	B16: the 16 bytes format.
	B64: the 64 bytes format.
	Message:
	The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the expected message for 16 or 64 bytes format for Path overhead.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:SDHS:LOP:OVER:TIM:PATT:B B16, tyghjg
	SENS:DATA:TEL:SDHS:LOP:OVER:TIM:PATT:B? B16
	Returns: tyghjg
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern:B?

:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM:PATTern:B?

Description	This query returns the expected message for 16 or 64 bytes format for Low Path Overhead.
	At *RST condition, this value is set to EXFO SONET/SDH.
	Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-V/LP-TIM - Expected
	Navigation Path: Result > Traces > Traces - TIM-V/LP-TIM - Expected
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM:PATTern:B? <wsp><Pattern>
Parameter(s)	**Pattern**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the format expected in the J1 trace for Path overhead.
	B16: the 16 bytes format.
	B64: the 64 bytes format.
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the expected message for 16 or 64 bytes format for Low Path Overhead
Example(s)	SENS:DATA:TEL:SDHS:LOP:OVER:TIM:PATT:B B16, tyghjg
	SENS:DATA:TEL:SDHS:LOP:OVER:TIM:PATT:B? B16
	Returns: tyghjg
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern:B

:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM:PATTern?

Description	This query returns the format expected for Low Path Overhead.
	At *RST condition, this value is set to B16.
	Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-V/LP-TIM - Format
	Navigation Path: Result > Traces > Traces - TIM-V/LP-TIM - Format
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM:PATTern?
Response Syntax	<Pattern>
Response(s)	**Pattern**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the format expected in the J1 trace for Low Path Overhead
	B16, 16 bytes format for Low Path Overhead is selected.
	B64, 64 bytes format for Low Path Overhead is selected.
Example(s)	SENS:DATA:TEL:SDHS:LOP:OVER:TIM:PATT B16
	SENS:DATA:TEL:SDHS:LOP:OVER:TIM:PATT?
	Returns: B16
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern

:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM?

Description	This query returns the status of Trace Identifier Mismatch (TIM) for the expected message defined for Low Path Overhead.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-V/LP-TIM
	Navigation Path: Result > Traces > Traces - TIM-V/LP-TIM
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of Trace Identifier Mismatch (TIM) for Low Path Overhead.
	1 - Trace Identifier Mismatch (TIM) for Low Path Overhead is enabled.
	0 - Trace Identifier Mismatch (TIM) for Low Path Overhead is disabled.
Example(s)	SENS:DATA:TEL:SDHS:LOP:OVER:TIM ON
	SENS:DATA:TEL:SDHS:LOP:OVER:TIM?
	Returns: 1
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM

:SENSe:DATA:TELecom:SDHSonet:LOP:TCAPident:EXPected

Description	This command sets the TCM Access Point Identifier expected message Low Order Path.
	At *RST condition, the configuration is set to a device-dependent value.
	Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - VT/TU Path (Z6) - Expected
	Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - TU3 Path (N1) - Expected
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:TCAPident:EXPected[<wsp><Message>]
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the expected message for 16 or 64 bytes format for Path overhead.
Response Syntax	<Set>
Example(s)	SENSe:DATA:TEL:SDHS:LOP:TCAP:EXPected tcmmessage
	SENSe:DATA:TEL:SDHS:LOP:TCAP:EXPected?
	Returns: tcmmessage
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern?

:SENSe:DATA:TELecom:SDHSonet:LOP:TCAPident:EXPected?

Description	This command sets the TCM Access Point Identifier expected message Low Order Path.
	At *RST condition, the configuration is set to a device-dependent value.
	Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - VT/TU Path (Z6) - Expected
	Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - TU3 Path (N1) - Expected
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:TCAPident:EXPected?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the expected TCM Access Point Identifier message for Path Overhead.
Example(s)	SENSe:DATA:TEL:SDHS:LOP:TCAP:EXPected tcmmessage
	SENSe:DATA:TEL:SDHS:LOP:TCAP:EXPected?
	Returns: tcmmessage
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern

:SENSe:DATA:TELecom:SDHSonet:LOP:TCAPident:TCTim

Description	This command enables/disables the TCMIM status for TCM Access Point Identifier Low Order Path.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - TC-TIM-V/LPTC-TIM
	Navigation Path: Results > Traces > TCM Access Point Identifier - TC-TIM-V/LPTC-TIM
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:TCAPident:TCTim <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:SDHS:LOP:TCAP:TCTim ON
	SENS:DATA:TEL:SDHS:LOP:TCAP:TCTim?
See Also	SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM?

:SENSe:DATA:TELecom:SDHSonet:LOP:TCAPident:TCTim?

Description	This query returns the TCMIM status for TCM Access Point Identifier for Low Order Path.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - TC-TIM-V/LPTC-TIM
	Navigation Path: Results > Traces > TCM Access Point Identifier - TC-TIM-V/LPTC-TIM
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:TCAPident:TCTim?
Response Syntax	\<Set>
Response(s)	Set:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA> element.
	Returns the status of the TCM Access Point Identifier for Path Overhead.
	ENABLE, status of the TCM Access Point Identifier is enabled.
	DISABLE, tatus of the TCM Access Point Identifier is disabled.
Example(s)	SENS:DATA:TEL:SDHS:LOP:TCAP:TCTim ON
	SENS:DATA:TEL:SDHS:LOP:TCAP:TCTim?
See Also	SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM?

:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM

Description	This command enables/disables the Trace Identifier Mismatch (TIM) for the expected message defined for Path Overhead.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-P/HP-TIM
	Navigation Path: Result > Traces > Traces - TIM-P/HP-TIM
Syntax	:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:SDHS:PATH:OVER:TIM ON
	SENS:DATA:TEL:SDHS:PATH:OVER:TIM?
	Returns: 1
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM?

:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PATTern

Description	This command sets the Trace Identifier Mismatch value of J1 in 16 or 64 byte format for Path Overhead.
	At *RST condition, this value is set to B16.
	Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-P/HP-TIM - Format
	Navigation Path: Result > Traces > Traces - TIM-P/HP-TIM - Format
Syntax	:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PATTern <wsp><Pattern>
Parameter(s)	**Pattern**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the format expected in the J1 trace for Path overhead.
	B16: the 16 bytes format.
	B64: the 64 bytes format.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:SDHS:PATH:OVER:TIM:PATT B16
	SENS:DATA:TEL:SDHS:PATH:OVER:TIM:PATT?
	Returns: B16
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern?

:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PATTern:B

Description	This command sets the expected message for 16 OR 64 bytes format of J1 trace for Path Overhead.
	At *RST condition, this value is set to EXFO SONET/SDH.
	Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-P/HP-TIM - Expected
	Navigation Path: Result > Traces > Traces - TIM-P/HP-TIM - Expected
Syntax	:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PATTern:B <wsp><Pattern>, <Message>
Parameter(s)	**Pattern**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the format expected in the J1 trace for Path overhead.
	B16: the 16 bytes format.
	B64: the 64 bytes format.
	Message:
	The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the expected message for 16 or 64 bytes format for Path overhead.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:SDHS:PATH:OVER:TIM:PATT:B B16,tyghjg
	SENS:DATA:TEL:SDHS:PATH:OVER:TIM:PATT:B? B16
	Returns: tyghjg
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern:B?

:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PATTern:B?

Description	This query returns the expected message for 16 or 64 bytes format of J1 trace for Path Overhead.
	At *RST condition, this value is set to EXFO SONET/SDH.
	Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-P/HP-TIM - Expected
	Navigation Path: Result > Traces > Traces - TIM-P/HP-TIM - Expected
Syntax	:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PATTern:B? <wsp><Pattern>
Parameter(s)	**Pattern**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the format expected in the J1 trace for Path overhead.
	B16: the 16 bytes format.
	B64: the 64 bytes format.
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the expected message for 16 or 64 bytes format for Path Overhead.
Example(s)	SENS:DATA:TEL:SDHS:PATH:OVER:TIM:PATT:B B16, tyghjg
	SENS:DATA:TEL:SDHS:PATH:OVER:TIM:PATT:B? B16
	Returns: tyghjg
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern:B

:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PATTern?

Description	This query returns the format expected in the J1 trace for Path Overhead.
	At *RST condition, this value is set to B16.
	Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-P/HP-TIM - Format
	Navigation Path: Result > Traces > Traces - TIM-P/HP-TIM - Format
Syntax	:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PATTern?
Response Syntax	<Pattern>
Response(s)	**Pattern**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the format expected in the J1 trace for Path Overhead.
	B16, 16 bytes format is selected.
	B64, 64 bytes format is selected.
Example(s)	SENS:DATA:TEL:SDHS:PATH:OVER:TIM:PATT B16
	SENS:DATA:TEL:SDHS:PATH:OVER:TIM:PATT?
	Returns: B16
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern

:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM?

Description	This query returns the status of Trace Identifier Mismatch (TIM) for the expected message defined for Path Overhead.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-P/HP-TIM
	Navigation Path: Result > Traces > Traces - TIM-P/HP-TIM
Syntax	:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM?
Response Syntax	\<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA> element.
	Returns the status of Trace Identifier Mismatch (TIM) for Path Overhead.
	1 - TIM enabled.
	0 - TIM disabled.
Example(s)	SENS:DATA:TEL:SDHS:PATH:OVER:TIM ON
	SENS:DATA:TEL:SDHS:PATH:OVER:TIM?
	Returns: 1
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM

:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM

Description	This command enables/disables the Trace Identifier Mismatch (TIM) for the expected message defined for Section Overhead.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-S/RS-TIM
	Navigation Path: Result > Traces > Traces - TIM-S/RS-TIM
Syntax	:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:SDHS:SECT:OVER:TIM ON
	SENS:DATA:TEL:SDHS:SECT:OVER:TIM?
	Returns: 1
See Also	SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM?

:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern

Description	This command sets the format expected in the J0 trace for Section Overhead.
	At *RST condition, this value is set to B16.
	Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-S/RS-TIM - Format
	Navigation Path: Result > Traces > Traces - TIM-S/RS-TIM - Format
Syntax	:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern \<wsp>\<Pattern>
Parameter(s)	**Pattern**:
	The program data syntax for the first parameter is defined as a \<CHARACTER PROGRAM DATA> element.
	Sets the format expected in the J0 trace for Section overhead.
	B16: the 16 bytes format.
	B64: the 64 bytes format.
Response Syntax	\<Set>
Example(s)	SENS:DATA:TEL:SDHS:SECT:OVER:TIM:PATT B16
	SENS:DATA:TEL:SDHS:SECT:OVER:TIM:PATT?
	Returns: B16
See Also	SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PATTern?

:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern:B

Description	This command sets the expected message for 16 or 64 bytes format of J0 trace for Section Overhead.
	At *RST condition, this value is set to EXFO SONET/SDH.
	Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-S/RS-TIM - Expected
	Navigation Path: Result > Traces > Traces - TIM-S/RS-TIM - Expected
Syntax	:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern:B <wsp><Pattern>, <Message>
Parameter(s)	**Pattern**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the format expected in the J0 trace for Section overhead.
	B16: the 16 bytes format.
	B64: the 64 bytes format.
	Message:
	The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the expected message for 16 or 64 bytes format for Section overhead.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:SDHS:SECT:OVER:TIM:PATT:B B16, tyghjg
	SENS:DATA:TEL:SDHS:SECT:OVER:TIM:PATT:B? B16
	Returns: tyghjg
See Also	SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PATTern:B?

:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern:B?

Description	This query returns the expected message for 16 or 64 bytes format of J0 trace for Section Overhead.
	At *RST condition, this value is set to EXFO SONET/SDH.
	Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-S/RS-TIM - Expected
	Navigation Path: Result > Traces > Traces - TIM-S/RS-TIM - Expected
Syntax	:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern:B? <wsp><Pattern>
Parameter(s)	**Pattern**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the format expected in the J0 trace for Section overhead.
	B16: the 16 bytes format.
	B64: the 64 bytes format.
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the expected message for 16 or 64 bytes format for Section Overhead.
Example(s)	SENS:DATA:TEL:SDHS:SECT:OVER:TIM:PATT:B B16, tyghjg
	SENS:DATA:TEL:SDHS:SECT:OVER:TIM:PATT:B? B16
	Returns: tyghjg
See Also	SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PATTern:B

:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern?

Description	This query returns the format expected in the J0 trace for Section Overhead.
	At *RST condition, this value is set to B16.
	Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-S/RS-TIM - Format
	Navigation Path: Result > Traces > Traces - TIM-S/RS-TIM - Format
Syntax	:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:PATTern?
Response Syntax	<Pattern>
Response(s)	**Pattern**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the format expected in the J0 trace for Section Overhead.
	B16, 16 bytes format is selected.
	B64, 64 bytes format is selected.
Example(s)	SENS:DATA:TEL:SDHS:SECT:OVER:TIM:PATT B16
	SENS:DATA:TEL:SDHS:SECT:OVER:TIM:PATT?
	Returns: B16
See Also	SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:PATTern

:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM?

Description	This query returns the status of Trace Identifier Mismatch (TIM) for the expected message defined for Section Overhead.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Traces > Traces - TIM-S/RS-TIM
	Navigation Path: Result > Traces > Traces - TIM-S/RS-TIM
Syntax	:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM?
Response Syntax	\<Set>
Response(s)	Set:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA> element.
	Returns the status of Trace Identifier Mismatch (TIM) for Section Overhead.
	1- TIM is Enabled
	0 - TIM is Disabled
Example(s)	SENS:DATA:TEL:SDHS:SECT:OVER:TIM ON
	SENS:DATA:TEL:SDHS:SECT:OVER:TIM?
	Returns: 1
See Also	SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM

:SOURce:DATA:TELecom:SDHSonet:HOP:TCAPident:N[1..n]: MESSage

Description	This command sets the TCM Access Point Identifier message High Order Path.
	At *RST condition, the configuration is set to a device-dependent value.
	Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - STS/AU Path (N1) - Generated
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:TCAPident:N[1..n]:MESSage[<wsp><Message>]
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the 16 or 64 byte format for TCM Access Point Identifier message.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SDHS:HOP:TCAP:N1:MESSage tcmmessage
	SOUR:DATA:TEL:SDHS:HOP:TCAP:N1:MESSage?
	Returns: tcmmessage
See Also	SOURce:DATA:TELecom:SDHSonet:OVERhead:J1:PATTern:B16?

:SOURce:DATA:TELecom:SDHSonet:HOP:TCAPident:N[1..n]: MESSage?

Description	This query returns the TCM Access Point Identifier message High Order Path.
	At *RST condition, the configuration is set to a device-dependent value.
	Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - STS/AU Path (N1) - Generated
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:TCAPident:N[1..n]:MESSage?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the 16 or 64 byte format TCM Access Point Identifier message for Path Overhead.
Example(s)	SOUR:DATA:TEL:SDHS:HOP:TCAP:N1:MESSage tcmmessage
	SOUR:DATA:TEL:SDHS:HOP:TCAP:N1:MESSage?
	Returns: tcmmessage
See Also	SOURce:DATA:TELecom:SDHSonet:OVERhead:J1:PATTern:B16

:SOURce:DATA:TELecom:SDHSonet:LOP:OVERhead:J[1..n]:PATTern

Description	This command sets the J1 and J2 trace format for Lower order Path Overhead.
	At *RST condition, this value is set to 1BYTE.
	Navigation Path: Setup > Test Configurator > Traces > Traces - VT/TU Path (J2) - Format
	Navigation Path: Setup > Test Configurator > Traces > Traces - TU3 Path (J1) - Format
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:OVERhead:J[1..n]:PATTern <wsp><Pattern>
Parameter(s)	Pattern:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the format for J2 trace for Low Path overhead.
	1BYTE: the 1 bytes format.
	B16: the 16 bytes format.
	B64: the 64 bytes format.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:SDHS:LOP:OVER:J2:PATT B16
	SOUR:DATA:TEL:SDHS:LOP:OVER:J2:PATT?
	Returns: B16
See Also	SOURce:DATA:TELecom:SDHSonet:SECTion:OVERhead:J[1..n]:PATTern?

:SOURce:DATA:TELecom:SDHSonet:LOP:OVERhead:J[1..n]:PATTern:B

Description	This command sets the J2 and J1 trace value/message to be generated in selected format for Low Path Overhead.
	At *RST condition, this value is set to 01.
	Navigation Path: Setup > Test Configurator > Traces > Traces - VT/TU Path (J2) - Generated
	Navigation Path: Setup > Test Configurator > Traces > Traces - TU3 Path (J1) - Generated
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:OVERhead:J[1..n]:PATTern:B <wsp><Pattern>, <Message>
Parameter(s)	**Pattern**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the format for J2 trace for Path overhead.
	B16: the 16 bytes format.
	B64: the 64 bytes format.
	1BYTE: the 1BYTE byte format.
	Message:
	The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the 16 or 64 byte format for J2 trace.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:SDHS:LOP:OVER:J2:PATT:B B16, RRWEREW
	SOUR:DATA:TEL:SDHS:LOP:OVER:J2:PATT:B? B16
	Returns: RRWEREW
See Also	SOURce:DATA:TELecom:SDHSonet:SECTion:OVERhead:J[1..n]:PATTern:B?

:SOURce:DATA:TELecom:SDHSonet:LOP:OVERhead:J[1..n]:PATTern:B?

Description	This query returns the J2 and J1 trace value/message to be generated in selected format for Low Path Overhead.
	At *RST condition, this value is set to 01.
	Navigation Path: Setup > Test Configurator > Traces > Traces - VT/TU Path (J2) - Generated
	Navigation Path: Setup > Test Configurator > Traces > Traces - TU3 Path (J1) - Generated
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:OVERhead:J[1..n]:PATTern:B? <wsp><Pattern>
Parameter(s)	**Pattern**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the format for J2 trace for Path overhead.
	B16: the 16 bytes format.
	B64: the 64 bytes format.
	1BYTE: the 1BYTE byte format.
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the J2 trace for Low Path Overhead.
Example(s)	SOUR:DATA:TEL:SDHS:LOP:OVER:J2:PATT:B B16, RRWEREW
	SOUR:DATA:TEL:SDHS:LOP:OVER:J2:PATT:B? B16
	Returns: RRWEREW
See Also	SOURce:DATA:TELecom:SDHSonet:SECTion:OVERhead:J[1..n]:PATTern:B

:SOURce:DATA:TELecom:SDHSonet:LOP:OVERhead:J[1..n]:PATTern?

Description	This query returns the J2 and J1 trace format for Lower order Path Overhead.
	At *RST condition, this value is set to 1BYTE.
	Navigation Path: Setup > Test Configurator > Traces > Traces - VT/TU Path (J2) - Format
	Navigation Path: Setup > Test Configurator > Traces > Traces - TU3 Path (J1) - Format
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:OVERhead:J[1..n]:PATTern?
Response Syntax	<Pattern>
Response(s)	**Pattern**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the format for J2 trace for Lower Order Path Overhead.
	B16, 16 bytes format is selected.
	B64, 64 bytes format is selected.
	1BYTE, 1 byte format is selected.
Example(s)	SOUR:DATA:TEL:SDHS:LOP:OVER:J2:PATT B16
	SOUR:DATA:TEL:SDHS:LOP:OVER:J2:PATT?
	Returns: B16
See Also	SOURce:DATA:TELecom:SDHSonet:SECTion:OVERhead:J[1..n]:PATTern

:SOURce:DATA:TELecom:SDHSonet:LOP:TCAPident:N[1..n]:MESSage

Description	This command sets the TCM Access Point Identifier message Low Order Path.
	At *RST condition, the configuration is set to a device-dependent value.
	Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - VT/TU Path (Z6) - Generated
	Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - TU3 Path (N1) - Generated
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:TCAPident:N[1..n]:MESSage[<wsp><Message>]
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the 16 or 64 byte format for TCM Access Point Identifier message.
Response Syntax	<Pattern>
Example(s)	SOUR:DATA:TEL:SDHS:LOP:TCAP:N2:MESSage tcmmessage
	SOUR:DATA:TEL:SDHS:LOP:TCAP:N2:MESSage?
	Returns: tcmmessage
See Also	SOURce:DATA:TELecom:SDHSonet:OVERhead:J1:PATTern:B16?

:SOURce:DATA:TELecom:SDHSonet:LOP:TCAPident:N[1..n]:MESSage?

Description	This query returns the TCM Access Point Identifier message Low Order Path.
	At *RST condition, the configuration is set to a device-dependent value.
	Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - VT/TU Path (Z6) - Generated
	Navigation Path: Setup > Test Configurator > Traces > TCM Access Point Identifier - TU3 Path (N1) - Generated
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:TCAPident:N[1..n]:MESSage?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the 16 or 64 byte format TCM Access Point Identifier message for Path Overhead.
Example(s)	SOUR:DATA:TEL:SDHS:LOP:TCAP:N2:MESSage tcmmessage
	SOUR:DATA:TEL:SDHS:LOP:TCAP:N2:MESSage?
	Returns: tcmmessage
See Also	SOURce:DATA:TELecom:SDHSonet:OVERhead:J1:PATTern:B16

:SOURce:DATA:TELecom:SDHSonet:PATH:OVERhead:J[1..n]:PATTern

Description	This command sets the J1 trace format for Path Overhead
	At *RST condition, this value is set to 1BYTE.
	Navigation Path: Setup > Test Configurator > Traces > Traces - STS/AU Path (J1) - Format
Syntax	:SOURce:DATA:TELecom:SDHSonet:PATH:OVERhead:J[1..n]:PATTern <wsp><Pattern>
Parameter(s)	**Pattern**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the format for J1 trace for Path overhead.
	1BYTE: the 1 bytes format.
	B16: the 16 bytes format.
	B64: the 64 bytes format.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:SDHS:PATH:OVER:J1:PATT B16
	SOUR:DATA:TEL:SDHS:PATH:OVER:J1:PATT?
	Returns: B16
See Also	SOURce:DATA:TELecom:SDHSonet:SECTion:OVERhead:J[1..n]:PATTern?

:SOURce:DATA:TELecom:SDHSonet:PATH:OVERhead:J[1..n]:PATTern:B

Description	This command sets the J1 trace value/message to be generated in selected format for Path Overhead.
	At *RST condition, this value is set to 01.
	Navigation Path: Setup > Test Configurator > Traces > Traces - STS/AU Path (J1) - Generated
Syntax	:SOURce:DATA:TELecom:SDHSonet:PATH:OVERhead:J[1..n]:PATTern:B <wsp><Pattern>, <Message>
Parameter(s)	**Pattern**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the format for J1 trace for Path overhead.
	B16: the 16 bytes format.
	B64: the 64 bytes format.
	1BYTE: the 1BYTE byte format.
	Message:
	The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the 16 or 64 byte format for J1 trace.
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:SDHS:PATH:OVER:J1:PATT:B B16,RRWEREW
	SOUR:DATA:TEL:SDHS:PATH:OVER:J1:PATT:B? B16
	Returns: RRWEREW
See Also	SOURce:DATA:TELecom:SDHSonet:SECTion:OVERhead:J[1..n]:PATTern:B?

:SOURce:DATA:TELecom:SDHSonet:PATH:OVERhead:J[1..n]:PATTern:B?

Description	This query returns the J1 trace value/message to be generated in selected format for Path Overhead.
	At *RST condition, this value is set to 01.
	Navigation Path: Setup > Test Configurator > Traces > Traces - STS/AU Path (J1) - Generated
Syntax	:SOURce:DATA:TELecom:SDHSonet:PATH:OVERhead:J[1..n]:PATTern:B? <wsp><Pattern>
Parameter(s)	**Pattern**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the format for J1 trace for Path overhead.
	B16: the 16 bytes format.
	B64: the 64 bytes format.
	1BYTE: the 1BYTE byte format.
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the J1 trace value/message for Path Overhead.
Example(s)	SOUR:DATA:TEL:SDHS:PATH:OVER:J1:PATT:B B16,RRWEREW
	SOUR:DATA:TEL:SDHS:PATH:OVER:J1:PATT:B? B16
	Returns: RRWEREW
See Also	SOURce:DATA:TELecom:SDHSonet:SECTion:OVERhead:J[1..n]:PATTern:B

:SOURce:DATA:TELecom:SDHSonet:PATH:OVERhead:J[1..n]:PATTern?

Description	This query returns the J1 trace format for Path Overhead.
	At *RST condition, this value is set to 1BYTE.
	Navigation Path: Setup > Test Configurator > Traces > Traces - STS/AU Path (J1) - Format
Syntax	:SOURce:DATA:TELecom:SDHSonet:PATH:OVERhead:J[1..n]:PATTern?
Response Syntax	\<Pattern\>
Response(s)	**Pattern**:
	The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA\> element.
	Returns the format for J1 trace for Path Overhead.
	B16, 16 bytes format is selected.
	B64, 64 bytes format is selected.
	1BYTE, 1 byte format is selected.
Example(s)	SOUR:DATA:TEL:SDHS:PATH:OVER:J1:PATT B16
	SOUR:DATA:TEL:SDHS:PATH:OVER:J1:PATT?
	Returns: B16
See Also	SOURce:DATA:TELecom:SDHSonet:SECTion:OVERhead:J[1..n]:PATTern

:SOURce:DATA:TELecom:SDHSonet:SECTion:OVERhead:J[1..n]:PATTern

Description	This command sets the J0 trace format for Section Overhead.
	At *RST condition, this value is set to 1BYTE.
	Navigation Path: Setup > Test Configurator > Traces > Traces - Section/RS (J0) - Format
Syntax	:SOURce:DATA:TELecom:SDHSonet:SECTion:OVERhead:J[1..n]:PATTern <wsp><Pattern>
Parameter(s)	**Pattern**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the format for J0 trace for Section overhead.
	1BYTE: the 1 bytes format.
	B16: the 16 bytes format.
	B64: the 64 bytes format.
Response Syntax	<Pattern>
Example(s)	SOUR:DATA:TEL:SDHS:SECT:OVER:J100:PATT B16
	SOUR:DATA:TEL:SDHS:SECT:OVER:J100:PATT?
	Returns: B16
See Also	SOURce:DATA:TELecom:SDHSonet:PATH:OVERhead:J1:PATTern?

:SOURce:DATA:TELecom:SDHSonet:SECTion:OVERhead:J[1..n]:PATTern:B

Description	This command sets the J0 trace value/message to be generated in selected format for Section Overhead.
	At *RST condition, this value is set to 01.
	Navigation Path: Setup > Test Configurator > Traces > Traces - Section/RS (J0) - Generated
Syntax	:SOURce:DATA:TELecom:SDHSonet:SECTion:OVERhead:J[1..n]:PATTern:B <wsp><Pattern>, <Message>
Parameter(s)	**Pattern**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the format for J0 trace for Section overhead.
	B16: the 16 bytes format.
	B64: the 64 bytes format.
	1BYTE: the 1 byte format.
	Message:
	The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the 16 or 64 byte format for J0 trace.
Response Syntax	<Pattern>
Example(s)	SOUR:DATA:TEL:SDHS:SECT:OVER:J100:PATT:B B16,RRWEREW
	SOUR:DATA:TEL:SDHS:SECT:OVER:J100:PATT:B? B16
	Returns: RRWEREW
See Also	SOURce:DATA:TELecom:SDHSonet:PATH:OVERhead:J1:PATTern:B?

:SOURce:DATA:TELecom:SDHSonet:SECTion:OVERhead:J[1..n]:PATTern:B?

Description	This query returns the J0 trace value/message to be generated in selected format for Section Overhead.
	At *RST condition, this value is set to 01.
	Navigation Path: Setup > Test Configurator > Traces > Traces - Section/RS (J0) - Generated
Syntax	:SOURce:DATA:TELecom:SDHSonet:SECTion:OVERhead:J[1..n]:PATTern:B? <wsp><Pattern>
Parameter(s)	**Pattern**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the format for J0 trace for Section overhead.
	B16: the 16 bytes format.
	B64: the 64 bytes format.
	1BYTE: the 1 byte format.
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the J0 trace value/message for Section Overhead.
Example(s)	SOUR:DATA:TEL:SDHS:SECT:OVER:J100:PATT:B B16,RRWEREW
	SOUR:DATA:TEL:SDHS:SECT:OVER:J100:PATT:B? B16
	Returns: RRWEREW
See Also	SOURce:DATA:TELecom:SDHSonet:PATH:OVERhead:J1:PATTern:B?

:SOURce:DATA:TELecom:SDHSonet:SECTion:OVERhead:J[1..n]:PATTern?

Description	This query returns the J0 trace format for Section Overhead.
	At *RST condition, this value is set to 1BYTE.
	Navigation Path: Setup > Test Configurator > Traces > Traces - Section/RS (J0) - Format
Syntax	:SOURce:DATA:TELecom:SDHSonet:SECTion:OVERhead:J[1..n]:PATTern?
Response Syntax	<Pattern>
Response(s)	**Pattern**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the format for J0 trace for Section Overhead.
	B16, 16 bytes format is selected.
	B64, 64 bytes format is selected.
	1BYTE, 1 byte format is selected.
Example(s)	SOUR:DATA:TEL:SDHS:SECT:OVER:J100:PATT B16
	SOUR:DATA:TEL:SDHS:SECT:OVER:J100:PATT?
	Returns: B16
See Also	SOURce:DATA:TELecom:SDHSonet:PATH:OVERhead:J1:PATTern

1588 PTP (Client)

:FETCh:DATA:TELecom:PACKetsync:PTP:DELay:MODE?

Description	This query returns the Delay Mode.
	At *RST condition, this value is set to One -way.
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Delay Mode
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:DELay:MODE?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the delay Mode.
	PTPONEWAY, returns one way mode
	PTPTWOWAY, returns two way mode
Example(s)	FETC:DATA:TEL:PACK:PTP:DEL:MODE?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:MODe?

:FETCh:DATA:TELecom:PACKetsync:PTP:FRAMing?

Description	This query returns the Framing.
	At *RST condition, this value is set to UDP/IPv4.
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Framing
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:FRAMing?
Response Syntax	<Framing>
Response(s)	**Framing**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Framing:
	PTPUDPIPV4: UDP/IPv4 is selected as Framing.
	PTPUDPIPV6: UDP/IPv6 is selected as Framing.
	PTPETHERNET: Ethernet is selected as Framing.
Example(s)	FETC:DATA:TEL:PACK:PTP:FRAM?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:NEGotiation:STATus?

:FETCh:DATA:TELecom:PACKetsync:PTP:LEASe:DURation?

Description	This query returns the Lease Duration Parameter.
	At *RST condition, this value is set to 300 seconds.
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Service Duration - Lease Duration(s)
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:LEASe:DURation?
Response Syntax	<Duration>
Response(s)	**Duration**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Lease Duration Parameter.
Example(s)	FETC:DATA:TEL:PACK:PTP:LEAS:DUR?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:IPDV?

:FETCh:DATA:TELecom:PACKetsync:PTP:MECHanism?

Description	This query returns the Mechanism.
	At *RST condition, this value is set to Request-Response Mechanism
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Mechanism
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:MECHanism?
Response Syntax	<Mechanism>
Response(s)	**Mechanism**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the PTP1588 mechanism.
	PTPREQRESP, returns PtpReqResp as a test type.
Example(s)	FETC:DATA:TEL:PACK:PTP:MECH?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:PROFile?

:FETCh:DATA:TELecom:PACKetsync:PTP:MODE?

Description	This query returns the Pkt Mode.
	At *RST condition, this value is set to Unicast.
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Pkt Mode
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:MODE?
Response Syntax	<TransportMode>
Response(s)	**TransportMode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Pkt Mode
	PTPUNICAST, Unicast
	PTPMULTICAST, Multicast
	PTPMIXED, Mixed
Example(s)	FETC:DATA:TEL:PACK:PTP:MODE?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:DELay:MODE?

:FETCh:DATA:TELecom:PACKetsync:PTP:NEGotiation:STATus?

Description	This query returns the Negotiation Status.
	At *RST condition, this value is set to Request Granted/Session Canceled/No Reply/Pending/Inactive
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Negotiation Status
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:NEGotiation:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Negotiation Status.
	NOREPLY, No message is received from the Grand Master following transmission of 3 Signaling requests for a message type.
	REQPENDING, Unicast negotiation has started and no message has been received from the Grand Master.
	REQGRANTED, All the Signaling request types have been granted.
	REQDENIED, The Signaling grant message has not been granted.
	GRANTCANCELLED, The Grand Master has canceled the Unicast session.
	INACTIVE, The Unicast negotiation is not active.
Example(s)	FETC:DATA:TEL:PACK:PTP:NEG:STAT?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:LEASe:DURation?

:FETCh:DATA:TELecom:PACKetsync:PTP:PROFile?

Description	This query returns the PTP Profile.
	At *RST condition, this value is set to ITU G.8265.1.
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Profile
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:PROFile?
Response Syntax	<Profile>
Response(s)	**Profile**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the profile type.
	PTPTG82651,ITUG.8265.1 is selected as profile type.
Example(s)	FETC:DATA:TEL:PACK:PTP:PROF?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:MECHanism?

:FETCh:DATA:TELecom:PACKetsync:PTP:RENewal:INTerval?

Description	This query returns the Renewal Interval Parameter.
	At *RST condition, this value is set to 150 seconds.
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Service Duration - Renewal Interval(s)
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RENewal:INTerval?
Response Syntax	<Interval>
Response(s)	**Interval**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Renewal Interval Parameter
Example(s)	FETC:DATA:TEL:PACK:PTP:REN:INT?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:QL:LAST:RECeived?

:FETCh:DATA:TELecom:PACKetsync:PTP:STATus?

Description	This query returns the PTP Link status.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > 1588 PTP > LINK
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the PTP Link status.
Example(s)	FETC:DATA:TEL:PACK:PTP:STAT?
See Also	FETCh:DATA:TELecom:CPRI:PORT:SSTate?

:SOURce:DATA:TELecom:PACKetsync:PTP:CLOCk:IP

Description	This command sets the Boundary Clock / Grand Master IPv4 address.
	At *RST condition, this value is set to 10.10.0.1
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - BC/GM IP Address
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:CLOCk:IP <wsp><IP Address>
Parameter(s)	**IP Address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the IP address of the Clock
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:PACK:PTP:CLOC:IP 10.10.0.1
	SOUR:DATA:TEL:PACK:PTP:CLOC:IP?
	Returns: 10.10.0.1
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:IPTosds

:SOURce:DATA:TELecom:PACKetsync:PTP:CLOCk:IP?

Description	This query returns the Boundary Clock / Grand Master IPv4 address.
	At *RST condition, this value is set to 10.10.0.1
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - BC/GM IP Address
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:CLOCk:IP?
Response Syntax	<IP Address>
Response(s)	**IP Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the IP address of the Clock.
Example(s)	SOUR:DATA:TEL:PACK:PTP:CLOC:IP 10.10.0.1
	SOUR:DATA:TEL:PACK:PTP:CLOC:IP?
	Returns: 10.10.0.1
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:IPTosds?

:SOURce:DATA:TELecom:PACKetsync:PTP:CLOCk:IPVersion

Description	This command sets the Boundary Clock / Grand Master IPv6 address.
	At *RST condition, this value is set to 2001:0000:0000:0000:0000:0000:0000:0000
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - BC/GM IP Address
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:CLOCk:IPVersion <wsp><IPAddress>
Parameter(s)	**IPAddress**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	IPv6 address to set
Response Syntax	<IP Address>
Example(s)	SOUR:DATA:TEL:PACK:PTP:CLOC:IPV 2000:1000:0001:1190:2333:1999:0000:0001
	SOUR:DATA:TEL:PACK:PTP:CLOC:IPV?
	Returns: 2000:1000:0001:1190:2333:1999:0000:0001

:SOURce:DATA:TELecom:PACKetsync:PTP:CLOCk:IPVersion?

Description	This query returns the Boundary Clock / Grand Master IPv6 address.
	At *RST condition, this value is set to 2001:0000:0000:0000:0000:0000:0000:0000
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - BC/GM IP Address
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:CLOCk:IPVersion?
Response Syntax	<IPAddress>
Response(s)	**IPAddress**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	IPv6 address of the Clock
Example(s)	SOUR:DATA:TEL:PACK:PTP:CLOC:IPV 2000:1000:0001:1190:2333:1999:0000:0001
	SOUR:DATA:TEL:PACK:PTP:CLOC:IPV?
	Returns: 2000:1000:0001:1190:2333:1999:0000:0001

:SOURce:DATA:TELecom:PACKetsync:PTP:CONNect:ENABled

Description	This command initiates the Grand Master Connection process.
	At *RST condition, this value is set Enable OFF.
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Connect
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:CONNect:ENABled <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<IPAddress>
Example(s)	SOUR:DATA:TEL:PACK:PTP:CONN:ENAB 1
	SOUR:DATA:TEL:PACK:PTP:DEL:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:RATE:ANNounce

:SOURce:DATA:TELecom:PACKetsync:PTP:CONNect:ENABled?

Description	This query returns the status of Grand Master Connection process.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Connect
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:CONNect:ENABled?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:PACK:PTP:CONN:ENAB ON
	SOUR:DATA:TEL:PACK:PTP:CONN:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:RATE:ANNounce?

:SOURce:DATA:TELecom:PACKetsync:PTP:DOMain

Description	This command sets the Domain Configurable.
	At *RST condition, this value is set to Telecom Profile Range: 0-255
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Domain
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:DOMain <wsp><Domain>
Parameter(s)	**Domain**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Domain Configurable.
	Range from 0 to 255
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:PACK:PTP:DOM 9
	SOUR:DATA:TEL:PACK:PTP:DOM?
	Returns: 9
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:GMIPaddress

:SOURce:DATA:TELecom:PACKetsync:PTP:DOMain?

Description	This query returns the Domain.
	At *RST condition, this value is Set to Telecom Profile Range: 0-255
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Domain
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:DOMain?[<wsp><Domain>]
Parameter(s)	**Domain**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Returns Domain Configured.
	This parameter is optional. If no token is specified, the Domain Configured value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Domain>
Response(s)	**Domain**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Domain number.
Example(s)	SOUR:DATA:TEL:PACK:PTP:DOM 9
	SOUR:DATA:TEL:PACK:PTP:DOM?
	Returns: 9
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:GMIPaddress?

:SOURce:DATA:TELecom:PACKetsync:PTP:FLABel

Description	This command sets the PTP IPv6 Flow Label value.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Flow Label
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:FLABel <wsp><Flow Label>
Parameter(s)	**Flow Label**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Flow label value to set
Response Syntax	<Domain>
Example(s)	SOUR:DATA:TEL:PACK:PTP:FLAB 108
	SOUR:DATA:TEL:PACK:PTP:FLAB?
	Returns: 108

:SOURce:DATA:TELecom:PACKetsync:PTP:FLABel?

Description	This query returns the PTP IPv6 Flow Label value.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Flow Label
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:FLABel?
Response Syntax	<Flow Label>
Response(s)	**Flow Label**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Flow Label for IPv6 protocol
Example(s)	SOUR:DATA:TEL:PACK:PTP:FLAB 108
	SOUR:DATA:TEL:PACK:PTP:FLAB?
	Returns: 108

:SOURce:DATA:TELecom:PACKetsync:PTP:GMADdress:IPVersion

Description	This command sets the Grand Master IPv6 address. Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - GM IP Address
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMADdress:IPVersion <wsp><IPAddress>
Parameter(s)	**IPAddress**: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. IPv6 address to set
Response Syntax	<Flow Label>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMAD:IPV 2000:1000:0001:1190:2333:1999:0000:0001 SOUR:DATA:TEL:PACK:PTP:GMAD:IPV? Returns: 2000:1000:0001:1190:2333:1999:0000:0001

:SOURce:DATA:TELecom:PACKetsync:PTP:GMADdress:IPVersion?

Description	This query returns the Grand Master IPv6 address.
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - GM IP Address
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMADdress:IPVersion?
Response Syntax	<IPAddress>
Response(s)	**IPAddress**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	IPv6 address of the Grand Master
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMAD:IPV 2000:1000:0001:1190:2333:1999:0000:0001
	SOUR:DATA:TEL:PACK:PTP:GMAD:IPV?
	Returns: 2000:1000:0001:1190:2333:1999:0000:0001

:SOURce:DATA:TELecom:PACKetsync:PTP:GMIPaddress

Description	This command sets the Grand Master IPv4 address.
	At *RST condition, this value is set Set by user
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - GM IP Address
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMIPaddress <wsp><IPAddress>
Parameter(s)	**IPAddress**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the IP address of the Grand Master Clock.
Response Syntax	<IPAddress>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMIP 10.10.0.1
	SOUR:DATA:TEL:PACK:PTP:GMIP?
	Returns: 10.10.0.1
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:IPTosds

:SOURce:DATA:TELecom:PACKetsync:PTP:GMIPaddress?

Description	This query returns the Grand Master IPv4 address.
	At *RST condition, this value is set Set by user.
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - GM IP Address
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMIPaddress?
Response Syntax	<IPAddress>
Response(s)	**IPAddress**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Grand Master IP address.
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMIP 10.10.0.1
	SOUR:DATA:TEL:PACK:PTP:GMIP?
	Returns: 10.10.0.1
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:IPTosds?

:SOURce:DATA:TELecom:PACKetsync:PTP:IPDV:THReshold

Description	The command sets the IPDV Threshold Parameter.
	At *RST condition, this value is set 2 msec.
	Navigation Path: Setup > Test Configurator > 1588 PTP > Alarm Timeout/Threshold - IPDV Threshold
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:IPDV:THReshold <wsp><Threshold>
Parameter(s)	**Threshold**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the IPDV Threshold Parameter which defines the inter packet delay variation threshold used to raise the Unusable message alarm.
Response Syntax	<IPAddress>
Example(s)	SOUR:DATA:TEL:PACK:PTP:IPDV:THR 5.0
	SOUR:DATA:TEL:PACK:PTP:IPDV:THR?
	Returns: 5.0
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:RATE:SYNC

:SOURce:DATA:TELecom:PACKetsync:PTP:IPDV:THReshold?

Description	This query returns the IPDV Threshold Parameter.
	At *RST condition, this value is set to 2 msec.
	Navigation Path: Setup > Test Configurator > 1588 PTP > Alarm Timeout/Threshold - IPDV Threshold
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:IPDV:THReshold?[<wsp><Threshold>]
Parameter(s)	**Threshold**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Returns IPDV Threshold.This parameter is optional. If no token is specified, the IPDV Threshold value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Threshold>
Response(s)	**Threshold**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the IPDV Threshold Parameter shall determine the threshold used to raise an Alarm related to Packet Delay Variation.
Example(s)	SOUR:DATA:TEL:PACK:PTP:IPDV:THR 5.0
	SOUR:DATA:TEL:PACK:PTP:IPDV:THR?
	Returns: 5.0
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:RATE:SYNC?

:SOURce:DATA:TELecom:PACKetsync:PTP:IPTosds

Description	This command sets the PTP TOS/DS Value.
	At *RST condition, this value is set 0x00
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - IP TOS/DS / Traffic Class (TOS/DS)
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:IPTosds <wsp><TOSDOS>
Parameter(s)	**TOSDOS**:
	The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Selects the TOS/DS value.
Response Syntax	<Threshold>
Example(s)	SOUR:DATA:TEL:PACK:PTP:IPT #H1
	SOUR:DATA:TEL:PACK:PTP:IPT?
	Returns: 1
See Also	SOURce:DATA:TELecom:PACKetsync:TEST:TYPE

:SOURce:DATA:TELecom:PACKetsync:PTP:IPTosds?

Description	This query returns the PTP TOS/DS Value.
	At *RST condition, this value is set to 0x00
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - IP TOS/DS
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:IPTosds?
Response Syntax	<IpToSds>
Response(s)	**IpToSds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	returns the PTP IP TOS DS Value
Example(s)	SOUR:DATA:TEL:PACK:PTP:IPT #H1
	SOUR:DATA:TEL:PACK:PTP:IPT?
	Returns: 1
See Also	SOURce:DATA:TELecom:PACKetsync:TEST:TYPE?

:SOURce:DATA:TELecom:PACKetsync:PTP:MMAC

Description	This command sets the G-8275.1 Multicast MAC address.
	At *RST condition, this value is set to 00:00:00:00:00:00.
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Multicast MAC
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:MMAC <wsp><MAC address>
Parameter(s)	**MAC address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the MAC address.
Response Syntax	<IpToSds>
Example(s)	SOUR:DATA:TEL:PACK:PTP:MMAC 01:1B:19:00:00:00
	SOUR:DATA:TEL:PACK:PTP:MMAC?
	Returns: 01:1B:19:00:00:00
See Also	SOURce:DATA:TELecom:PACKetsync:UDMA:ADDRess

:SOURce:DATA:TELecom:PACKetsync:PTP:MMAC?

Description	This query returns the G-8275.1 Multicast MAC address.
	At *RST condition, this value is set to 00:00:00:00:00:00.
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Multicast MAC
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:MMAC?
Response Syntax	<MAC address>
Response(s)	**MAC address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the MAC address.
Example(s)	SOUR:DATA:TEL:PACK:PTP:MMAC 01:1B:19:00:00:00
	SOUR:DATA:TEL:PACK:PTP:MMAC?
	Returns: 01:1B:19:00:00:00
See Also	SOURce:DATA:TELecom:PACKetsync:UDMA:ADDRess?

:SOURce:DATA:TELecom:PACKetsync:PTP:PROFile

Description	This command sets the the PTP Profile.
	At *RST condition, this value is set to ITU G.8265.1.
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Profile
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:PROFile <wsp><Profile>
Parameter(s)	**Profile**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the PTP Profile.
	PTPTG82651: G.8265.1
	PTPTG82751: G.8275.1
	PTPTG82752: G.8275.2
Response Syntax	<MAC address>
Example(s)	SOUR:DATA:TEL:PACK:PTP:PROF PTPTG82751
	SOUR:DATA:TEL:PACK:PTP:PROF?
	Return: PTPTG82751

:SOURce:DATA:TELecom:PACKetsync:PTP:PROFile?

Description	This query returns the PTP Profile.
	At *RST condition, this value is set to ITU G.8265.1.
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Profile
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:PROFile?
Response Syntax	<Profile>
Response(s)	**Profile**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the PTP Profile Telecom G.8265.1/G.8275.1/G.8275.2.
	PTPTG82651: G.8265.1
	PTPTG82751: G.8275.1
	PTPTG82752: G.8275.2
Example(s)	SOUR:DATA:TEL:PACK:PTP:PROF PTPTG82751
	SOUR:DATA:TEL:PACK:PTP:PROF?
	Return: PTPTG82751

:SOURce:DATA:TELecom:PACKetsync:PTP:QL:EXPected

Description   This command configure an Expected Quality Level value.

At *RST condition, this value is set to QL-PRS.

Navigation Path: Setup > Test Configurator > 1588 PTP > Quality Level - Expected QL

Syntax   :SOURce:DATA:TELecom:PACKetsync:PTP:QL:EXPected <wsp><Quality Level>

Parameter(s)   **Quality Level**:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Configure an Expected Quality Level value.

QLPRS: QL-PRS (default) 80 Primary Reference Source Traceable (G.811)

QLSTUUNK: QL-STU/UNK 82 Synchronized

QLPRC: QL-PRC 84 Primary Reference Clock Traceable (G.811)

QLST2: QL-ST2 86 Traceable to Stratum 2 (G.812 Type II)

QLINV3: QL-INV3 88 Quality Level Invalid 3

QLSSUATNC: QL-SSU-A/TNC 90 Type I or V slave clock (G.812)

Traceable to Transit Node Clock (G.812 Type V)

QLINV5: QL-INV5 92 Quality Level Invalid 5

QLINV6: QL-INV6 94 Quality Level Invalid 6

QLSSUB: QL-SSU-B 96 Type VI slave clock (G.812)

QLINV9: QL-INV9 98 Quality Level Invalid 9

QLST3E: QL-ST3E 100 Traceable to Stratum 3E (G.812 Type III)

QLEEC2ST3: QL-EEC2/ST3 102 Ethernet Traceable to Stratum 3 (G.812 Type IV)

QLEEC1SEC: QL-EEC1/SEC 104 Ethernet Synchronous Equipment Clock (G.813 or G.8262, Option 1)

QLSMC: QL-SMC 106 Traceable to SONET Minimum Clock (G.813 or G.8262, Option 2)

QLPROV: QL-PROV 108 Provisionable by the Network Operator (PNO)

QLDNUDUS: QL-DNU/DUS 110 Do Not Use

Do Not Use for Synchronization

QLPRCPRS6: QL-PRC/PRS PRS traceable (Recommendation G.811).

QLSSUAST2: QL-SSU-A/ST2 Traceable to Stratum 2 (Recommendation G.812, Type II).

QLSSUBST3E: QL-SSU-B/ST3E Traceable to Stratum 3E (Recommendation G.812, Type III).

:SOURce:DATA:TELecom:PACKetsync:PTP:QL:EXPected

Response Syntax	\<Profile\>
Example(s)	SOUR:DATA:TEL:PACK:PTP:QL:EXP QLPRS
	SOUR:DATA:TEL:PACK:PTP:QL:EXP?
	Returns: QLPRS
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:VERDict:ENABled?

:SOURce:DATA:TELecom:PACKetsync:PTP:QL:EXPected?

Description	This query returns the Expected Quality Level value.
	At *RST condition, this value is set to QL-PRS.
	Navigation Path: Setup > Test Configurator > 1588 PTP > Quality Level - Expected QL
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:QL:EXPected?
Response Syntax	<Quality Level>

:SOURce:DATA:TELecom:PACKetsync:PTP:QL:EXPected?

Response(s)

Quality Level:

The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.

Returns the Expected Quality Level value.

QL-PRS, returns QL-PRS as Quality Level

QL-STU/UNK, returns QL-STU/UNK as Quality Level

QL-PRC, returns QL-PRC as Quality Level

QL-ST2, returns QL-ST2 as Quality Level

QL-INV3, returns QL-INV3 as Quality Level

QL-SSU-A/TNC 90, returns QL-SSU-A/TNC as Quality Level

QL-INV5, returns QL-INV5 as Quality Level

QL-INV6, returns QL-INV6 as Quality Level

QL-SSU-B, returns QL-SSU-B as Quality Level

QL-INV9, returns QL-INV9 as Quality Level

QL-ST3E, returns QL-ST3E as Quality Level

QL-EEC2/ST3, returns QL-EEC2/ST3 as Quality Level

QL-EEC1/SEC, returns QL-EEC1/SEC as Quality Level

QL-SMC 106, returns QL-SMC 106 as Quality Level

QL-PROV 108, returns QL-PROV 108 as Quality Level

QL-DNU/DUS, returns QL-DNU/DUS as Quality Level

QLPRCPRS6, returns QL-PRC/PRS as Quality Level

QLSSUAST2, returns QL-SSU-A/ST2 as Quality Level

QLSSUBST3E, returns QL-SSU-B/ST3E as Quality Level

Example(s)

SOUR:DATA:TEL:PACK:PTP:QL:EXP QLPRS

SOUR:DATA:TEL:PACK:PTP:QL:EXP?

Returns: QLPRS

See Also

SOURce:DATA:TELecom:PACKetsync:PTP:RATE:DELay:REQuest

:SOURce:DATA:TELecom:PACKetsync:PTP:QL:MISMatch:ENABled

Description	This command enables/disables the QL mismatch monitoring.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > 1588 PTP > Quality Level - QL Mismatch monitoring
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:QL:MISMatch:ENABled <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Quality Level>
Example(s)	SOUR:DATA:TEL:PACK:PTP:QL:MISM:ENAB ON
	SOUR:DATA:TEL:PACK:PTP:QL:MISM:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:RATE:DELay:REQuest

:SOURce:DATA:TELecom:PACKetsync:PTP:QL:MISMatch:ENABled?

Description	This query returns the QL Mismatch Monitoring Enable parameter.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > 1588 PTP > Quality Level - QL Mismatch monitoring
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:QL:MISMatch:ENABled?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:PACK:PTP:QL:MISM:ENAB ON
	SOUR:DATA:TEL:PACK:PTP:QL:MISM:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:RATE:DELay:REQuest?

:SOURce:DATA:TELecom:PACKetsync:PTP:RATE:ANNounce

Description	This command sets the Announce Rate parameter.
	At *RST condition, this value is set 1 message/2s (default).
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Message Rate - Announce
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:RATE:ANNounce <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Announce Rate parameter.
	RATE1PER16SEC: 1 msg/16s
	RATE1PER8SEC: 1 msg/8s
	RATE1PER4SEC: 1 msg/4s
	RATE1PER2SEC: 1 msg/2s
	RATE1PERSEC: 1 msg/s
	RATE2PERSEC: 2 msg/s
	RATE4PERSEC: 4 msg/s
	RATE8PERSEC: 8 msg/s
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:PACK:PTP:RATE:ANN RATE1PER2SEC
	SOUR:DATA:TEL:PACK:PTP:RATE:ANN?
	Returns: RATE1PER2SEC
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:RECeipt:TIMeout

:SOURce:DATA:TELecom:PACKetsync:PTP:RATE:ANNounce?

Description	This query returns the Announce Rate parameter.
	At *RST condition, this value is set to 1 message/2s
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Message Rate - Announce
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:RATE:ANNounce?
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Announce Rate parameter.
	RATE1PER16SEC: 1 msg/16s
	RATE1PER8SEC: 1 msg/8s
	RATE1PER4SEC: 1 msg/4s
	RATE1PER2SEC: 1 msg/2s
	RATE1PERSEC: 1 msg/s
	RATE2PERSEC: 2 msg/s
	RATE4PERSEC: 4 msg/s
	RATE8PERSEC: 8 msg/s
Example(s)	SOUR:DATA:TEL:PACK:PTP:RATE:ANN RATE1PER2SEC
	SOUR:DATA:TEL:PACK:PTP:RATE:ANN?
	Returns: RATE1PER2SEC
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:RECeipt:TIMeout?

:SOURce:DATA:TELecom:PACKetsync:PTP:RATE:DELay:REQuest

Description	This command sets the Delay Request Rate parameter.
	At *RST condition, this value is set 32 message/s.
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Message Rate - Delay-Request
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:RATE:DELay:REQuest <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Delay Request Rate parameter.
	RATE1PER16SEC: 1 msg/16s
	RATE1PER8SEC: 1 msg/8s
	RATE1PER4SEC: 1 msg/4s
	RATE1PER2SEC: 1 msg/2s
	RATE1PERSEC: 1 msg/s
	RATE2PERSEC: 2 msg/s
	RATE4PERSEC: 4 msg/s
	RATE8PERSEC: 8 msg/s
	RATE16PERSEC: 16 msg/s
	RATE32PERSEC: 32 msg/s
	RATE64PERSEC: 64 msg/s
	RATE128PERSEC: 128 msg/s
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:PACK:PTP:RATE:DEL:REQ RATE1PERSEC
	SOUR:DATA:TEL:PACK:PTP:RATE:DEL:REQ?
	Returns: RATE1PERSEC
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:QL:MISMatch:ENABled

:SOURce:DATA:TELecom:PACKetsync:PTP:RATE:DELay:REQuest?

Description	This query returns the Delay Request Rate parameter.
	At *RST condition, this value is set to 32 message/s
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Message Rate - Delay-Request
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:RATE:DELay:REQuest?
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Sync Rate parameter.
	RATE1PER16SEC: 1 msg/16s
	RATE1PER8SEC: 1 msg/8s
	RATE1PER4SEC: 1 msg/4s
	RATE1PER2SEC: 1 msg/2s
	RATE1PERSEC: 1 msg/s
	RATE2PERSEC: 2 msg/s
	RATE4PERSEC: 4 msg/s
	RATE8PERSEC: 8 msg/s
	RATE16PERSEC: 16 msg/s
	RATE32PERSEC: 32 msg/s
	RATE64PERSEC: 64 msg/s
	RATE128PERSEC: 128 msg/s
Example(s)	SOUR:DATA:TEL:PACK:PTP:RATE:DEL:REQ RATE1PERSEC
	SOUR:DATA:TEL:PACK:PTP:RATE:DEL:REQ?
	Returns: RATE1PERSEC
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:QL:MISMatch:ENABled?

:SOURce:DATA:TELecom:PACKetsync:PTP:RATE:SYNC

Description	This command sets the Sync Rate parameter. At *RST condition, this value is set 32 message/s. Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Message Rate - Sync
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:RATE:SYNC <wsp><Rate>
Parameter(s)	**Rate**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Sync Rate parameter. RATE1PER16SEC: 1 msg/16s RATE1PER8SEC: 1 msg/8s RATE1PER4SEC: 1 msg/4s RATE1PER2SEC: 1 msg/2s RATE1PERSEC: 1 msg/s RATE2PERSEC: 2 msg/s RATE4PERSEC: 4 msg/s RATE8PERSEC: 8 msg/s RATE16PERSEC: 16 msg/s RATE32PERSEC: 32 msg/s RATE64PERSEC: 64 msg/s RATE128PERSEC: 128 msg/s
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:PACK:PTP:RATE:SYNC RATE32PERSEC SOUR:DATA:TEL:PACK:PTP:RATE:SYNC? Returns: RATE32PERSEC
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:IPDV:THReshold

:SOURce:DATA:TELecom:PACKetsync:PTP:RATE:SYNC?

Description	This query returns the Sync Rate parameter.
	At *RST condition, this value is set to 32 message/s
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Message Rate - Sync
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:RATE:SYNC?
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Sync Rate parameter.
	RATE1PER16SEC: 1 msg/16s
	RATE1PER8SEC: 1 msg/8s
	RATE1PER4SEC: 1 msg/4s
	RATE1PER2SEC: 1 msg/2s
	RATE1PERSEC: 1 msg/s
	RATE2PERSEC: 2 msg/s
	RATE4PERSEC: 4 msg/s
	RATE8PERSEC: 8 msg/s
	RATE16PERSEC: 16 msg/s
	RATE32PERSEC: 32 msg/s
	RATE64PERSEC: 64 msg/s
	RATE128PERSEC: 128 msg/s
Example(s)	SOUR:DATA:TEL:PACK:PTP:RATE:SYNC RATE32PERSEC
	SOUR:DATA:TEL:PACK:PTP:RATE:SYNC?
	Returns: RATE32PERSEC
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:IPDV:THReshold?

:SOURce:DATA:TELecom:PACKetsync:PTP:RECeipt:TIMeout

Description	This command sets the Receipt Timeout Parameter.
	At *RST condition, this value is set 3.
	Navigation Path: Setup > Test Configurator > 1588 PTP > Alarm Timeout/Threshold - Receipt Timeout
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:RECeipt:TIMeout <wsp><Timeout>
Parameter(s)	**Timeout**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Receipt Timeout.
	MAXimum, sets Receipt Timeout to its Maximum value.
	MINimum, sets Receipt Timeout to its Minimum value.
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:PACK:PTP:REC:TIM 5
	SOUR:DATA:TEL:PACK:PTP:REC:TIM?
	Returns: 5
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:RATE:ANNounce

:SOURce:DATA:TELecom:PACKetsync:PTP:RECeipt:TIMeout?

Description	This query returns the Receipt Timeout Parameter.
	At *RST condition, this value is set to 3.
	Navigation Path: Setup > Test Configurator > 1588 PTP > Alarm Timeout/Threshold - Receipt Timeout
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:RECeipt:TIMeout?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Returns Receipt Timeout.This parameter is optional. If no token is specified, the Receipt time out value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Timeout>
Response(s)	**Timeout**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Receipt Timeout Parameter shall determine the threshold point for raising Alarms related to loss of PTP messages
Example(s)	SOUR:DATA:TEL:PACK:PTP:REC:TIM 5
	SOUR:DATA:TEL:PACK:PTP:REC:TIM?
	Returns: 5
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:RATE:ANNounce?

:SOURce:DATA:TELecom:PACKetsync:PTP:UDMAc:ADDRess

Description	This command sets the G-8275.1 User Defined MAC address.
	At *RST condition, this value is set to 00:00:00:00:00:00.
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Multicast MAC (User Defined address)
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:UDMAc:ADDRess <wsp><MAC address>
Parameter(s)	**MAC address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the MAC address.
Response Syntax	<Timeout>
Example(s)	SOUR:DATA:TEL:PACK:PTP:UDMA:ADDR 01:02:03:04:05:06
	SOUR:DATA:TEL:ETH:NETW:MAC:ADDR?
	Returns: 00:00:00:00:00:00
See Also	SOURce:DATA:TELecom:PACKetsync:MMAC

:SOURce:DATA:TELecom:PACKetsync:PTP:UDMAc:ADDRess?

Description	This query returns the G-8275.1 User Defined MAC address.
	At *RST condition, this value is set to 00:00:00:00:00:00.
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Multicast MAC (User Defined address)
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:UDMAc:ADDRess?
Response Syntax	<MAC address>
Response(s)	**MAC address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the MAC address.
Example(s)	SOUR:DATA:TEL:PACK:PTP:UDMA:ADDR?
	Returns: 00:00:00:00:00:00
See Also	SOURce:DATA:TELecom:PACKetsync:MMAC?

:SOURce:DATA:TELecom:PACKetsync:PTP:UDMAc:STATus

Description	This command enables/disable User Defined MAC Address.
	At *RST condition, this value is set Enable OFF.
	Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Multicast MAC (User Defined enable)
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:UDMAc:STATus \<wsp>\<Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a \<BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	\<MAC address>
Example(s)	SOUR:DATA:TEL:PACK:PTP:UDMA:STAT ON
	SOUR:DATA:TEL:PACK:PTP:DEL:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:PACKetsync:UDMA:ADDRess

:SOURce:DATA:TELecom:PACKetsync:PTP:UDMAc:STATus?

Description	This query returns the status of the User Defined MAC Address. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > 1588 PTP > PTP - Multicast MAC (User Defined enable)
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:UDMAc:STATus?
Response Syntax	\<Set\>
Response(s)	**Set**: The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA\> element. This query returns the status of the User Defined MAC Address. 1, Grand Master Connection process is enabled. 0, Grand Master Connection process is disabled.
Example(s)	SOUR:DATA:TEL:PACK:PTP:UDMA:STAT? SOUR:DATA:TEL:PACK:PTP:CONN:ENAB? Returns: 1
See Also	SOURce:DATA:TELecom:PACKetsync:UDMA:ADDRess?

:SOURce:DATA:TELecom:PACKetsync:PTP:VERDict:ENABled

Description	This command Set the PTP Pass/Fail Verdict.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > 1588 PTP > Pass/Fail Verdict
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:VERDict:ENABled <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:PACK:PTP:VERD:ENAB ON
	SOUR:DATA:TEL:PACK:PTP:VERD:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:RATE:SYNC

:SOURce:DATA:TELecom:PACKetsync:PTP:VERDict:ENABled?

Description	This query returns the Global Pass/Fail Verdict.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > 1588 PTP > Pass/Fail Verdict
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:VERDict:ENABled?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:PACK:PTP:VERD:ENAB ON
	SOUR:DATA:TEL:PACK:PTP:VERD:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:CONNect:ENABled

1588 PTP (GM)

:SOURce:DATA:TELecom:PACKetsync:PTP:CLOCk:TYPE

Description	This command sets the 1588 PTP GM Clock Type.
	At *RST condition this value is set to Two-step.
	Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > PTP - Clock Type.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:CLOCk:TYPE <wsp><ClockType>
Parameter(s)	**ClockType**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Clock Type.
	ONESTEP: One-step
	TWOSTEPS: Two-step
Response Syntax	<Llayer>
Example(s)	SOUR:DATA:TEL:PACK:PTP:CLOC:TYPE TWOSTEPS
	SOUR:DATA:TEL:PACK:PTP:CLOC:TYPE?
	Returns: TWOSTEPS

:SOURce:DATA:TELecom:PACKetsync:PTP:CLOCk:TYPE?

Description	This query returns the 1588 PTP GM Clock Type.
	At *RST condition this value is set to Two-step.
	Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > PTP - Clock Type.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:CLOCk:TYPE?
Response Syntax	<ClockType>
Response(s)	**ClockType**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Clock Type.
Example(s)	SOUR:DATA:TEL:PACK:PTP:CLOC:TYPE TWOSTEPS
	SOUR:DATA:TEL:PACK:PTP:CLOC:TYPE?
	Returns: TWOSTEPS

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CACCuracy

Description	This command sets the 1588 PTP GM Clock Accuracy.
	At *RST condition this value is set to UNKNOWN.
	Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Clock Accuracy.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CACCuracy <wsp><ClockAccuracy>

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CACCuracy

Parameter(s)	**ClockAccuracy**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Clock Accuracy.
	ACCURATEABOVE10000000000NS: Accurate to > 10 s (31)
	ACCURATEWITHIN10000000000NS: Accurate within 10 s (30)
	ACCURATEWITHIN1000000000NS: Accurate within 1 s (2F)
	ACCURATEWITHIN100000000NS: Accurate within 100 ms (2D)
	ACCURATEWITHIN10000000NS: Accurate within 10 ms (2B)
	ACCURATEWITHIN1000000NS: Accurate within 1 ms (29)
	ACCURATEWITHIN100000NS: Accurate within 100 us (27)
	ACCURATEWITHIN10000NS: Accurate within 10 us (25)
	ACCURATEWITHIN1000NS: Accurate within 1 us (23)
	ACCURATEWITHIN100NS: Accurate within 100 ns (21)
	ACCURATEWITHIN250000000NS: Accurate within 250 ms (2E)
	ACCURATEWITHIN25000000NS: Accurate within 25 ms (2C)
	ACCURATEWITHIN2500000NS: Accurate within 2.5 ms (2A)
	ACCURATEWITHIN250000NS: Accurate within 250 us (28)
	ACCURATEWITHIN25000NS: Accurate within 25 us (26)
	ACCURATEWITHIN2500NS: Accurate within 2.5 us (24)
	ACCURATEWITHIN250NS: Accurate within 250 ns (22)
	ACCURATEWITHIN25NS: Accurate within 25 ns (20)
	UNKNOWN: Unknown (FE)
Response Syntax	<ClockType>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:CACC ACCURATEWITHIN100NS
	SOUR:DATA:TEL:PACK:PTP:CLOC:CACC?
	Returns: ACCURATEWITHIN100NS

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CACCuracy?

Description	This query returns the 1588 PTP GM Clock Accuracy.
	At *RST condition this value is set to UNKNOWN.
	Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Clock Accuracy.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CACCuracy?

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CACCuracy?

Response Syntax	<ClockAccuracy>
Response(s)	**ClockAccuracy**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Clock Accuracy.
	ACCURATEABOVE10000000000NS: Accurate to > 10 s (31)
	ACCURATEWITHIN10000000000NS: Accurate within 10 s (30)
	ACCURATEWITHIN1000000000NS: Accurate within 1 s (2F)
	ACCURATEWITHIN100000000NS: Accurate within 100 ms (2D)
	ACCURATEWITHIN10000000NS: Accurate within 10 ms (2B)
	ACCURATEWITHIN1000000NS: Accurate within 1 ms (29)
	ACCURATEWITHIN100000NS: Accurate within 100 us (27)
	ACCURATEWITHIN10000NS: Accurate within 10 us (25)
	ACCURATEWITHIN1000NS: Accurate within 1 us (23)
	ACCURATEWITHIN100NS: Accurate within 100 ns (21)
	ACCURATEWITHIN250000000NS: Accurate within 250 ms (2E)
	ACCURATEWITHIN25000000NS: Accurate within 25 ms (2C)
	ACCURATEWITHIN2500000NS: Accurate within 2.5 ms (2A)
	ACCURATEWITHIN250000NS: Accurate within 250 us (28)
	ACCURATEWITHIN25000NS: Accurate within 25 us (26)
	ACCURATEWITHIN2500NS: Accurate within 2.5 us (24)
	ACCURATEWITHIN250NS: Accurate within 250 ns (22)
	ACCURATEWITHIN25NS: Accurate within 25 ns (20)
	UNKNOWN: Unknown (FE)
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:CACC ACCURATEWITHIN100NS
	SOUR:DATA:TEL:PACK:PTP:CLOC:CACC?
	Returns: ACCURATEWITHIN100NS

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CCCode

Description	This command sets the 1588 PTP GM User Defined Clock Class code.
	At *RST condition this value is set to 248.
	Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Clock Class (User Defined code).
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CCCode <wsp><ClockClassCode>
Parameter(s)	**ClockClassCode**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Clock Class code.
	Range from 0-255.
	DEFault: Default value.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
Response Syntax	<ClockAccuracy>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:CCC 44
	SOUR:DATA:TEL:PACK:PTP:GMCL:CCC?
	Returns 44

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CCCode?

Description	This query returns the 1588 PTP GM User Defined Clock Class code.
	At *RST condition this value is set to 248.
	Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Clock Class (User Defined code).
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CCCode?[<wsp><ClockClassCode>]
Parameter(s)	**ClockClassCode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current Clock Class code value is returned.
	DEFault: Default value.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<ClockClassCode>
Response(s)	**ClockClassCode**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Clock Class code.
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:CCC 44
	SOUR:DATA:TEL:PACK:PTP:GMCL:CCC?
	Returns 44

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CCLass

Description	This command sets the 1588 PTP GM Clock Class. At *RST condition this value is set to QLSECEEC1ST3EEC2248. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Clock Class.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CCLass <wsp><ClockClass>
Parameter(s)	**ClockClass**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Clock Class. QLCODEUSERDEFINED: User Defined QLPRCPRS135: QL-PRC/PRS (135) QLPRCPRS140: QL-PRC/PRS (140) QLPRCPRS6: QL-PRC/PRS (6) QLPRCPRS7: QL-PRC/PRS (7) QLSECEEC1ST3EEC2165: QL-SEC/EEC1/ST3/EEC2 (165) QLSECEEC1ST3EEC2248: QL-SEC/EEC1/ST3/EEC2 (248) QLSECEEC1ST3EEC2255: QL-SEC/EEC1/ST3/EEC2 (255) QLSSUAST2: QL-SSU-A/ST2 (150) QLSSUBST3E: QL-SSU-B/ST3E (160)
Response Syntax	<ClockClassCode>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:CCL QLPRCPRS135 SOUR:DATA:TEL:PACK:PTP:CLOC:CCL? Returns: QLPRCPRS135

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CCLass?

Description	This query returns the 1588 PTP GM Clock Class.
	At *RST condition this value is set to QLSECEEC1ST3EEC2248.
	Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Clock Class.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CCLass?
Response Syntax	<ClockClass>
Response(s)	**ClockClass**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Clock Class.
	QLCODEUSERDEFINED: User Defined
	QLPRCPRS135: QL-PRC/PRS (135)
	QLPRCPRS140: QL-PRC/PRS (140)
	QLPRCPRS6: QL-PRC/PRS (6)
	QLPRCPRS7: QL-PRC/PRS (7)
	QLSECEEC1ST3EEC2165: QL-SEC/EEC1/ST3/EEC2 (165)
	QLSECEEC1ST3EEC2248: QL-SEC/EEC1/ST3/EEC2 (248)
	QLSECEEC1ST3EEC2255: QL-SEC/EEC1/ST3/EEC2 (255)
	QLSSUAST2: QL-SSU-A/ST2 (150)
	QLSSUBST3E: QL-SSU-B/ST3E (160)
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:CCL QLPRCPRS135
	SOUR:DATA:TEL:PACK:PTP:CLOC:CCL?
	Returns: QLPRCPRS135

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CIDentity?

Description	This query returns the 1588 PTP GM Clock Identity.
	At *RST condition this value is set to 0x000000FFFE000111.
	Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Clock Identity.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:CIDentity?
Response Syntax	<ClockIdentity>
Response(s)	**ClockIdentity**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	SOUR:DATA:TEL:PACK:PTP:CLOC:CID?
	Returns: 0x000000FFFE000111

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:FTRaceable

Description	This command enables/disables the Frequency Traceable.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Frequency Traceable.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:FTRaceable <wsp><FrequencyTraceable>
Parameter(s)	**FrequencyTraceable**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/Disables:
	OFF: Disables
	ON: Enables
Response Syntax	<ClockIdentity>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:FTR ON
	SOUR:DATA:TEL:PACK:PTP:GMCL:FTR?
	Returns: 1

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:FTRaceable?

Description	This query returns the Frequency Traceable.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Frequency Traceable.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:FTRaceable?
Response Syntax	\<FrequencyTraceable\>
Response(s)	**FrequencyTraceable**:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA\> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:FTR ON
	SOUR:DATA:TEL:PACK:PTP:GMCL:FTR?
	Returns: 1

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:PONE

Description	This command sets the 1588 PTP GM Clock Priority 1.
	At *RST condition this value is set to 128.
	Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Priority 1.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:PONE <wsp><Priority1>
Parameter(s)	**Priority1**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Priority 1.
	Range from 0-255.
	DEFault: Default value.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
Response Syntax	<FrequencyTraceable>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:PONE 222
	SOUR:DATA:TEL:PACK:PTP:GMCL:PONE?
	Return: 222

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:PONE?

Description	This query returns the 1588 PTP GM Clock Priority 1.
	At *RST condition this value is set to 128.
	Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Priority 1.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:PONE?[<wsp><Priority1>]
Parameter(s)	**Priority1**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current Priority 1 value is returned.
	DEFault: Default value.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Priority1>
Response(s)	**Priority1**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Priorty 1.
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:PONE 222
	SOUR:DATA:TEL:PACK:PTP:GMCL:PONE?
	Return: 222

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:PTWO

Description	This command sets the 1588 PTP GM Clock Priority 2.
	At *RST condition this value is set to 128.
	Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Priority 2.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:PTWO <wsp><Priority2>
Parameter(s)	**Priority2**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Priority 2.
	Range from 0-255.
	DEFault: Default value.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
Response Syntax	<Priority1>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:PTWO 142
	SOUR:DATA:TEL:PACK:PTP:GMCL:PTWO?
	Return: 142

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:PTWO?

Description	This query returns the 1588 PTP GM Clock Priority 2.
	At *RST condition this value is set to 128.
	Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Priority 2.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:PTWO?[<wsp><Priority2>]
Parameter(s)	**Priority2**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current Priority 2 value is returned.
	DEFault: Default value.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Priority2>
Response(s)	**Priority2**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Priorty 2.

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:SREMoved

Description	This command sets the 1588 PTP GM Clock Steps Removed.
	At *RST condition this value is set to 0.
	Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Steps Removed.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:SREMoved <wsp><StepsRemoved>
Parameter(s)	**StepsRemoved**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Steps Removed.
	Range from 0-100.
	DEFault: Default value.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
Response Syntax	<Priority2>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:SREM 5
	SOUR:DATA:TEL:PACK:PTP:GMCL:SREM?
	Return: 5

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:SREMoved?

Description	This query returns the 1588 PTP GM Clock Steps Removed.
	At *RST condition this value is set to 0.
	Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Steps Removed.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:SREMoved?[<wsp><StepsRemoved>]
Parameter(s)	**StepsRemoved**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current Steps Removed value is returned.
	DEFault: Default value.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<StepsRemoved>
Response(s)	**StepsRemoved**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Steps Removed number.
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:SREM 5
	SOUR:DATA:TEL:PACK:PTP:GMCL:SREM?
	Return: 5

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:TIMescale

Description	This command enables/disables the Timescale.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - PTP Timescale.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:TIMescale <wsp><Timescale>
Parameter(s)	**Timescale**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/Disables:
	OFF: Disables
	ON: Enables
Response Syntax	<StepsRemoved>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:TIM ON
	SOUR:DATA:TEL:PACK:PTP:GMCL:TIM?
	Returns: 1

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:TIMescale?

Description	This query returns the Timescale.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - PTP Timescale.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:TIMescale?
Response Syntax	<Timescale>
Response(s)	**Timescale**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:TIM ON
	SOUR:DATA:TEL:PACK:PTP:GMCL:TIM?
	Returns: 1

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:TSOurce

Description	This command sets the 1588 PTP GM Clock Time Source. At *RST condition this value is set to INTERNALOSCILLATOR. Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Time Source.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:TSOurce <wsp><TimeSource>
Parameter(s)	**TimeSource**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the Time Source. ATOMICCLOCK: Atomic Clock (10) GPS: GPS (20) HANDSET: Hand Set (60) INTERNALOSCILLATOR: Internal Oscillator (A0) NTP: NTP (50) OTHER: Other (90) PTP: PTP (40) TERRESTRIALRADIO: Terrestrial Radio (30)
Response Syntax	<Timescale>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:TSRC OTHER SOUR:DATA:TEL:PACK:PTP:GMCL:TSRC? Returns: OTHER

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:TSOurce?

Description	This query returns the 1588 PTP GM Clock Time Source.
	At *RST condition this value is set to INTERNALOSCILLATOR.
	Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Time Source.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:TSOurce?
Response Syntax	<TimeSource>
Response(s)	**TimeSource**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Time Source.
	ATOMICCLOCK: Atomic Clock (10)
	GPS: GPS (20)
	HANDSET: Hand Set (60)
	INTERNALOSCILLATOR: Internal Oscillator (A0)
	NTP: NTP (50)
	OTHER: Other (90)
	PTP: PTP (40)
	TERRESTRIALRADIO: Terrestrial Radio (30)
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:TSRC OTHER
	SOUR:DATA:TEL:PACK:PTP:GMCL:TSRC?
	Returns: OTHER

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:TTRaceable

Description	This command enables/disables the Time Traceable.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Time Traceable.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:TTRaceable <wsp><TimeTraceable>
Parameter(s)	**TimeTraceable**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/Disables:
	OFF: Disables
	ON: Enables
Response Syntax	<TimeSource>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:TTR ON
	SOUR:DATA:TEL:PACK:PTP:GMCL:TTR?
	Returns: 1

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:TTRaceable?

Description	This query returns the Time Traceable.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Time Traceable.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:TTRaceable?
Response Syntax	<TimeTraceable>
Response(s)	**TimeTraceable**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:TTR ON
	SOUR:DATA:TEL:PACK:PTP:GMCL:TTR?
	Returns: 1

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:UTCoffset

Description	This command sets the 1588 PTP GM Clock UTC Offset.
	At *RST condition this value is set to 37.
	Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - UTC Offset.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:UTCoffset <wsp><UTCOffset>
Parameter(s)	**UTCOffset**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the UTC Offset.
	Range from -1000 - 1000.
	DEFault: Default value.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
Response Syntax	<TimeTraceable>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:UTC 22
	SOUR:DATA:TEL:PACK:PTP:GMCL:UTC?
	Return: 22

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:UTCoffset:VALid

Description	This command enables/disables the Current UTC Offset Valid.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Current UTC Offset Valid.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:UTCoffset:VALid <wsp><UTCOffsetValid>
Parameter(s)	**UTCOffsetValid**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/Disables:
	OFF: Disables
	ON: Enables
Response Syntax	<TimeTraceable>
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:UTC:VAL ON
	SOUR:DATA:TEL:PACK:PTP:GMCL:UTC:VAL?
	Returns: 1

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:UTCoffset:VALid?

Description	This query returns the Current UTC Offset Valid.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - Current UTC Offset Valid.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:UTCoffset:VALid?
Response Syntax	<UTCOffsetValid>
Response(s)	**UTCOffsetValid**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:UTC:VAL ON
	SOUR:DATA:TEL:PACK:PTP:GMCL:UTC:VAL?
	Returns: 1

:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:UTCoffset?

Description	This query returns the 1588 PTP GM Clock UTC Offset.
	At *RST condition this value is set to 37.
	Navigation Path: Setup > Test Configurator > 1588 PTP (GM) > Clock Attributes - UTC Offset.
Syntax	:SOURce:DATA:TELecom:PACKetsync:PTP:GMCLock:UTCoffset?[<wsp><UTCOffset>]
Parameter(s)	**UTCOffset**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current UTC Offset value is returned.
	DEFault: Default value.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<UTCOffset>
Response(s)	**UTCOffset**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the UTC Offset number.
Example(s)	SOUR:DATA:TEL:PACK:PTP:GMCL:UTC 22
	SOUR:DATA:TEL:PACK:PTP:GMCL:UTC?
	Return: 22

Grand Master Information

:FETCh:DATA:TELecom:PACKetsync:PTP:CLOCk:ACCuracy?

Description	This query returns Boundary Clock / Grand Master Information Clock Accuracy Desciption and Code.
	Navigation Path: Setup > 1588 PTP > BC/GM Info > Clock Accuracy
	Navigation Path: Results > Summary > BC/GM Info > Clock Accuracy
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:CLOCk:ACCuracy? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Accuracy.
	DESCription
	CODE
Response Syntax	<Accuracy>
Response(s)	**Accuracy**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns Clock Accuracy Desc and Code
Example(s)	FETC:DATA:TEL:PACK:PTP:CLOC:ACC? Desc
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:TOTal:COUNt?

:FETCh:DATA:TELecom:PACKetsync:PTP:CLOCk:CLASs?

Description	This query returns Boundary Clock / Grand Master Information Clock Class Desciption and Code.
	Navigation Path: Setup > 1588 PTP > BC/GM Info > Clock Class
	Navigation Path: Results > Summary > BC/GM Info > Clock Class
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:CLOCk:CLASs? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Clock Class.
	DESCription
	CODE
Response Syntax	<Class>
Response(s)	**Class**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns Clock Class Desc and Code
Example(s)	FETC:DATA:TEL:PACK:PTP:CLOC:CLAS? Desc
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:TOTal:COUNt?

:FETCh:DATA:TELecom:PACKetsync:PTP:CLOCk:IDENtity?

Description	This query returns Boundary Clock / Grand Master Information Clock Identity Code.
	Navigation Path: Setup > 1588 PTP > BC/GM Info > Identity
	Navigation Path: Results > Summary > BC/GM Info > Identity
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:CLOCk:IDENtity? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the identity.
	DESCription
	CODE
Response Syntax	<Identity>
Response(s)	**Identity**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns Identity Desc and Code.
Example(s)	FETC:DATA:TEL:PACK:PTP:CLOC:IDEN? CODE
See Also	FETCH:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:CLOCk:LMISync?

Description	This query returns Boundary Clock / Grand Master Information Log Message Interval for Sync Description and Code.
	Navigation Path: Setup > 1588 PTP > BC/GM Info > Log Message Interval (Sync)
	Navigation Path: Results > Summary > BC/GM Info > Log Message Interval (Sync)
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:CLOCk:LMISync? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Log Message Interval For Sync
	DESCription
	CODE
Response Syntax	<Log Message Interval For Sync>
Response(s)	**Log Message Interval For Sync**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns Log Message Interval For Sync Desc and Code
Example(s)	FETC:DATA:TEL:PACK:PTP:CLOC:LMIS? Desc
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:TOTal:COUNt?

:FETCh:DATA:TELecom:PACKetsync:PTP:CLOCk:LMIannounce ?

Description	This query returns Boundary Clock / Grand Master Information Log Message Interval for Announce Desciption and Code.
	Navigation Path: Setup > 1588 PTP > BC/GM Info > Log Message Interval (Announce)
	Navigation Path: Results > Summary > BC/GM Info > Log Message Interval (Announce)
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:CLOCk:LMIannounce? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Log Message Interval For Announce
	DESCription
	CODE
Response Syntax	<Log Message Interval For Announce>
Response(s)	**Log Message Interval For Announce**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns Log Message Interval For Announce Desc and Code
Example(s)	FETC:DATA:TEL:PACK:PTP:CLOC:LMI? Desc
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:TOTal:COUNt?

:FETCh:DATA:TELecom:PACKetsync:PTP:CLOCk:MODE?

Description	This query returns Boundary Clock / Grand Master Information Clock Mode Description.
	Navigation Path: Setup > 1588 PTP > BC/GM Info > Clock Mode
	Navigation Path: Results > Summary > BC/GM Info > Clock Mode
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:CLOCk:MODE? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Clock mode.
	DESCription
	CODE
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns Mode Desc and Code
Example(s)	FETC:DATA:TEL:PACK:PTP:CLOC:MODE? DESC
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:CLOCk:PIDentity?

Description	This query returns Boundary Clock / Grand Master Information Port Identity Code.
	Navigation Path: Setup > 1588 PTP > BC/GM Info > Port Identity
	Navigation Path: Results > Summary > BC/GM Info > Port Identity
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:CLOCk:PIDentity? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Port identity.
	DESCription
	CODE
Response Syntax	<Port Identity>
Response(s)	**Port Identity**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns Port Identity Desc and Code
Example(s)	FETC:DATA:TEL:PACK:PTP:CLOC:PID? code
See Also	FETCH:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:CLOCk:PRIority:ONE ?

Description	This query returns Boundary Clock / Grand Master Information Priority 1 Code.
	Navigation Path: Setup > 1588 PTP > BC/GM Info > Priority 1
	Navigation Path: Results > Summary > BC/GM Info > Priority 1
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:CLOCk:PRIority:ONE? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Priority 1.
	DESCription
	CODE
Response Syntax	<Priority 1>
Response(s)	**Priority 1**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns Priority 1 Desc and Code
Example(s)	FETC:DATA:TEL:PACK:PTP:CLOC:PRI:ONE? CODE
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:CLOCk:PRIority:TWO?

Description	This query returns Boundary Clock / Grand Master Information Priority 2 Code.
	Navigation Path: Setup > 1588 PTP > BC/GM Info > Priority 2
	Navigation Path: Results > Summary > BC/GM Info > Priority 2
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:CLOCk:PRIority:TWO? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Priority 2.
	DESCription
	CODE
Response Syntax	<Priority 2>
Response(s)	**Priority 2**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns Priority 2 Desc and Code.
Example(s)	FETC:DATA:TEL:PACK:PTP:CLOC:PRI:TWO? CODE
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:CLOCk:SREMoved?

Description	This query returns Boundary Clock / Grand Master Information Steps Removed Code. Navigation Path: Setup > 1588 PTP > BC/GM Info > Steps Removed Navigation Path: Results > Summary > BC/GM Info > Steps Removed
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:CLOCk:SREMoved? <wsp><Type>
Parameter(s)	**Type**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Steps Removed. DESCription CODE
Response Syntax	<Steps Removed>
Response(s)	**Steps Removed**: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Steps Removed Desc and Code.
Example(s)	FETC:DATA:TEL:PACK:PTP:CLOC:SREM? CODE
See Also	FETCH:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:CLOCk:TSOurce?

Description	This query returns Boundary Clock / Grand Master Information Time Source Description and Code.
	Navigation Path: Setup > 1588 PTP > BC/GM Info > Time Source
	Navigation Path: Results > Summary > BC/GM Info > Time Source
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:CLOCk:TSOurce? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Time Source.
	DESCription
	CODE
Response Syntax	<Time Source>
Response(s)	**Time Source**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns Time Source Desc and Code.
Example(s)	FETC:DATA:TEL:PACK:PTP:CLOC:TSO? Code
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:CLOCk:ACCUracy?

Description	This query returns Grand Master Information Clock Accuracy Desciption and Code.
	Navigation Path: Setup > 1588 PTP > GM Info > Clock Accuracy
	Navigation Path: Results > Summary > GM Info > Clock Accuracy
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:CLOCk:ACCUracy? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Grand Master Information Clock Accuracy.
	DESCription
	CODE
Response Syntax	<Accuracy>
Response(s)	**Accuracy**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns Grand Master Information Clock Accuracy Desc and Code
Example(s)	FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:CLOCk:ACCuracy? Desc
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:TOTal:COUNt?

:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:CLOCk:CLASs?

Description	This query returns Grand Master Information Clock Class Desciption and Code.
	Navigation Path: Setup > 1588 PTP > GM Info > Clock Class
	Navigation Path: Results > Summary > GM Info > Clock Class
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:CLOCk:CLASs? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Grand Master Information Clock Class.
	DESCription
	CODE
Response Syntax	<Class>
Response(s)	**Class**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns Grand Master Information Clock Class Desc and Code
Example(s)	FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:CLOCk:CLASs? Desc
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:TOTal:COUNt?

:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:CLOCk:MODE?

Description	This query returns Grand Master Information Clock Mode Description.
	Navigation Path: Setup > 1588 PTP > GM Info > Clock Mode
	Navigation Path: Results > Summary > GM Info > Clock Mode
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:CLOCk:MODE? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Grand Master Information Clock mode.
	DESCription
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns Grand Master Information Clock Mode Desc and Code.
Example(s)	FETC:DATA:TEL:PACK:PTP:GMIN:CLOC:MODE? DESC
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:IDENtity?

Description	This query returns Grand Master Information Identity Code.
	Navigation Path: Setup > 1588 PTP > GM Info > Identity
	Navigation Path: Results > Summary > GM Info > Identity
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:IDENtity? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Grand Master Information Clock identity.
	CODE
Response Syntax	<Identity>
Response(s)	**Identity**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns Grand Master Information Identity Desc and Code.
Example(s)	FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:IDENtity? CODE
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:LMIAnnounce?

Description	This query returns Grand Master Information Log Message Interval for Announce Desciption and Code.
	Navigation Path: Setup > 1588 PTP > GM Info > Log Message Interval (Announce)
	Navigation Path: Results > Summary > GM Info > Log Message Interval (Announce)
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:LMIAnnounce? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Grand Master Information Log Message Interval For Announce .
	DESCription
	CODE
Response Syntax	<Log Message Interval For Announce>
Response(s)	**Log Message Interval For Announce**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns Grand Master Information Log Message Interval For Announce Desc and Code
Example(s)	FETC:DATA:TEL:PACK:PTP:GMIN:LMIA? Desc
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:TOTal:COUNt?

:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:LMISync?

Description	This query returns Grand Master Information Log Message Interval for Sync Description and Code.
	Navigation Path: Setup > 1588 PTP > GM Info > Log Message Interval (Sync)
	Navigation Path: Results > Summary > GM Info > Log Message Interval (Sync)
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:LMISync? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Grand Master Information Log Message Interval For Sync.
	DESCription
	CODE
Response Syntax	<Log Message Interval For Sync>
Response(s)	**Log Message Interval For Sync**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns Grand Master Information Log Message Interval For Sync Desc and Code
Example(s)	FETC:DATA:TEL:PACK:PTP:GMIN:LMIS? Desc
See Also	FETCH:DATA:TELecom:PACKetsync:PTP:RX:TOTal:COUNt?

:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:PIDEntity?

Description	This query returns Grand Master Information Port Identity Code.
	Navigation Path: Setup > 1588 PTP > GM Info > Port Identity
	Navigation Path: Results > Summary > GM Info > Port Identity
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:PIDEntity? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Grand Master Information Clock Port identity.
	CODE
Response Syntax	<Port Identity>
Response(s)	**Port Identity**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns Grand Master Information Port Identity Desc and Code.
Example(s)	FETC:DATA:TEL:PACK:PTP:GMIN:PIDEntity? code
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:PRIOrity:ONE?

Description	This query returns Grand Master Information Priority 1 Code.
	Navigation Path: Setup > 1588 PTP > GM Info > Priority 1
	Navigation Path: Results > Summary > GM Info > Priority 1
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:PRIOrity:ONE? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Grand Master Information Priority 1.
	CODE
Response Syntax	<Priority 1>
Response(s)	**Priority 1**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns Grand Master Information Priority 1 Desc and Code.
Example(s)	FETC:DATA:TEL:PACK:PTP:GMIN:PRIO:ONE? CODE
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:PRIOrity:TWO?

Description	This query returns Grand Master Information Priority 2 Code.
	Navigation Path: Setup > 1588 PTP > GM Info > Priority 2
	Navigation Path: Results > Summary > GM Info > Priority 2
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:PRIOrity:TWO? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Grand Master Information Priority 2.
	CODE
Response Syntax	<Priority 2>
Response(s)	**Priority 2**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns Grand Master Information Priority 2 Desc and Code.
Example(s)	FETC:DATA:TEL:PACK:PTP:GMIN:PRIO:TWO? CODE
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:SREMoved?

Description	This query returns Grand Master Information Steps Removed Code. Navigation Path: Setup > 1588 PTP > GM Info > Step Removed Navigation Path: Results > Summary > GM Info > Step Removed
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:SREMoved? <wsp><Type>
Parameter(s)	**Type**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Grand Master Information Steps Removed. CODE
Response Syntax	<Steps Removed>
Response(s)	**Steps Removed**: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns Grand Master Information Steps Removed Desc and Code.
Example(s)	FETC:DATA:TEL:PACK:PTP:GMIN:SREM? CODE
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:TSOUrce?

Description	This query returns Grand Master Information Time Source Description and Code.
	Navigation Path: Setup > 1588 PTP > GM Info > Time Source
	Navigation Path: Results > Summary > GM Info > Time Source
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:TSOUrce? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Grand Master Information Time Source.
	DESCription
	CODE
Response Syntax	<Time Source>
Response(s)	**Time Source**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns Grand Master Information Time Source Desc and Code.
Example(s)	FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:TSOU? Code
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?

Streams - Profile

:SOURce:DATA:TELecom:ETHernet:ENABled:BANDwidth?

Description	This query returns the total enabled bandwidth value for all the configured traffic streams.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Total TX Rate.
Syntax	:SOURce:DATA:TELecom:ETHernet:ENABled:BANDwidth?
Response Syntax	<Bandwidth>
Response(s)	**Bandwidth**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Return the total enabled bandwidth.
Example(s)	SOUR:DATA:TEL:ETH:ENAB:BAND?
See Also	SOURce:DATA:TELecom:ETHernet:TOTal:BANDwidth?

:SOURce:DATA:TELecom:ETHernet:STReam:ENABled

Description	This command enables/disables the transmission of the selected stream for 'Traffic Gen & Mon' or the selected client for 'FlexE BERT'.
	At *RST condition, this value is set to OFF in Traffic Gen & Mon.
	At *RST condition, this value is set to ON in FlexE BERT.
	Navigation Path: Traffic Gen & Mon > Setup > Test Configurator > Streams > Profile > Stream - Enable
	Navigation Path: Traffic Gen & Mon > Setup > Test Configurator > Streams > Global > Enable stream check box
	Navigation Path: FlexE BERT > Setup > Test Configurator > Clients > BERT > Shaping - Enable TX
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:ENABled <wsp><Stream number or client ID>, <Status>
Parameter(s)	**Stream number or client ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16 (Traffic Gen & Mon) or client ID from 1 to n (FlexE BERT)
	Status:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Bandwidth>
Example(s)	SOUR:DATA:TEL:ETH:STR:ENAB 1, ON
	SOUR:DATA:TEL:ETH:STR:ENAB? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:STATus

:SOURce:DATA:TELecom:ETHernet:STReam:ENABled?

Description	This query returns the transmission status of the selected stream for 'Traffic Gen & Mon' or the selected client for 'FlexE BERT'.
	At *RST condition, this value is set to OFF in Traffic Gen & Mon.
	At *RST condition, this value is set to ON in FlexE BERT.
	Navigation Path: Traffic Gen & Mon > Setup > Test Configurator > Streams > Profile > Stream - Enable
	Navigation Path: Traffic Gen & Mon > Setup > Test Configurator > Streams > Global > Enable stream check box
	Navigation Path: FlexE BERT > Setup > Test Configurator > Clients > BERT > Shaping - Enable TX
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:ENABled? <wsp><Stream number or client ID>
Parameter(s)	**Stream number or client ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16 (Traffic Gen & Mon) or client ID from 1 to n (FlexE BERT)
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:STR:ENAB 1, ON
	SOUR:DATA:TEL:ETH:STR:ENAB? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:STATus?

:SOURce:DATA:TELecom:ETHernet:STReam:FCOunt

Description	This command counts the number of frames transmitted for the selected traffic stream.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Frame Count
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:FCOunt <wsp><Tgen>, <Fcount>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Fcount:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects number of frame counts.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Status>
Example(s)	SOURce:DATA:TELecom:ETHernet:STReam:MODE 1, NFR
	SOUR:DATA:TEL:ETH:STR:FCO 1, 500
	SOUR:DATA:TEL:ETH:STR:FCO? 1
	Returns: 500
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MODE

:SOURce:DATA:TELecom:ETHernet:STReam:FCOunt?

Description	This query returns the number of frames transmitted for the selected traffic stream.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Frame Count
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:FCOunt? <wsp><Tgen>,[<Fcount>]
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Fcount:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current frame count is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Fcount>
Response(s)	**Fcount**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the number of frame counts.
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, NFR
	SOUR:DATA:TEL:ETH:STR:FCO 1, 500
	SOUR:DATA:TEL:ETH:STR:FCO? 1
	Returns: 500
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MODE
	?

:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE

Description	This command sets the frame size.
	At *RST condition, this value is device-dependent.
	Navigation Path: Setup > Test Configurator > Streams/Services > Profile > Profile - Frame Size
	Navigation Path: Setup > Test Configurator > Clients > Profile > Ethernet Frame - Frame Size
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE <wsp><Number>, <Size>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	- 1 to n Client ID for FlexE BERT
	- 1 for other test applications
	Size:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the frame size:
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Fcount>
Example(s)	SOUR:DATA:TEL:ETH:STR:FRAM:SIZE:TYPE 1, FIXED
	SOUR:DATA:TEL:ETH:STR:FRAM:SIZE 1, 500
See Also	SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE:TYPE

:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE:TYPE

Description	This command sets the frame size type.
	At *RST condition, this value is set to Fixed.
	Navigation Path: Setup > Test Configurator > Streams/Services > Profile > Profile - Frame Size
	Navigation Path: Setup > Test Configurator > EtherBert > Ethernet Frame - Frame Size
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE:TYPE <wsp><Number>, <Type>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	- 1 Stream for EtherBert
	Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the frame size type:
	FIXED
	RANDOM
	EMIX (EtherSAM and EtherBert)
	SWEEP (Traffic Gen & Mon)
Response Syntax	<Fcount>
Example(s)	SOUR:DATA:TEL:ETH:STR:FRAM:SIZE:TYPE 1, FIXED
	SOUR:DATA:TEL:ETH:STR:FRAM:SIZE:TYPE? 1
	Returns: FIXED
See Also	SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SWEep:STARt?

:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE:TYPE ?

Description	This query returns the frame size type.
	At *RST condition, this value is set to Fixed.
	Navigation Path: Setup > Test Configurator > Streams/Services > Profile > Profile - Frame Size
	Navigation Path: Setup > Test Configurator > EtherBert > Ethernet Frame - Frame Size
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE:TYPE? <wsp><Number>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	- 1 Stream for EtherBert
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the type frame size:
	FIXED
	RANDOM
	EMIX (EtherSAM and EtherBert)
	SWEEP (Traffic Gen & Mon)
Example(s)	SOUR:DATA:TEL:ETH:STR:FRAM:SIZE:TYPE 1, FIXED
	SOUR:DATA:TEL:ETH:STR:FRAM:SIZE:TYPE? 1
	Returns: FIXED
See Also	SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SWEep:STARt

:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE?

Description	This query returns the frame size.
	At *RST condition, this value is device-dependent.
	Navigation Path: Test Configurator > Streams/Servoces > Profile > Profile - Frame Size
	Navigation Path: Setup > Test Configurator > Clients > BERT > Ethernet Frame - Frame Size
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE? <wsp><Number>,[<Size>]
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Depending on the test application, selects a number as follows:
	- 1 to 16 Streams for Traffic Gen & Mon
	- 1 to 10 Services for EtherSAM
	- 1 to n Client ID for FlexE BERT
	- 1 for other test applications
	Size:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	frame size
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Frame size>
Response(s)	**Frame size**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the frame size.
Example(s)	SOUR:DATA:TEL:ETH:STR:FRAM:SIZE:TYPE 1, FIXED
	SOUR:DATA:TEL:ETH:STR:FRAM:SIZE 1, 500
	SOUR:DATA:TEL:ETH:STR:FRAM:SIZE? 1
	Returns: 500
See Also	SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE:TYPE? 1

:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SWEep:E ND

Description	This command sets the maximum value of the sweep range.
	At *RST condition, this value is set to 1518.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Profile - Sweep > Sweep Range - Max
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SWEep:END <wsp><Stream>, <Sweep Range>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Sweep Range:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the sweep frame end size.
	MAXimum, sets the maximum sweep frame end size.
	MINimum, sets the minimum sweep frame end size.
Response Syntax	<Frame size>
Example(s)	SOUR:DATA:TEL:ETH:STR:FRAM:SWE:END 1,67
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP?

:SOURce:DATA:TELecom:ETHernet:STRream:FRAMe:SWEep:END?

Description	This query returns the maximum value of the sweep range.
	At *RST condition, this value is set to 1518.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Profile - Sweep > Sweep Range - Max
Syntax	:SOURce:DATA:TELecom:ETHernet:STRream:FRAMe:SWEep:END? \<wsp>\<Stream>,[\<Sweep Range>]
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a \<DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Sweep Range:
	The program data syntax for the second parameter is defined as a \<CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current sweep frame end size is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	\<Frame Size Type>
Response(s)	**Frame Size Type**:
	The response data syntax for the first parameter is defined as a \<NR1 NUMERIC RESPONSE DATA> element.
	Returns the sweep frame end size.
Example(s)	SOUR:DATA:TEL:ETH:STR:FRAM:SWE:END 1,67
	SOUR:DATA:TEL:ETH:STR:FRAM:SWE:END? 1
	Returns: 67
See Also	SOURce:DATA:TELecom:ETHernet:STRream:ADDRess:DESTination:IP

:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SWEep:STARt

Description	This command sets the minimum value of the sweep range.
	At *RST condition, this value is set to 64.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Profile - Sweep > Sweep Range - Min
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SWEep:STARt \<wsp\>\<Stream\>, \<Sweep Range\>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a \<DECIMAL NUMERIC PROGRAM DATA\> element.
	Selects the stream from 1 to 16.
	Sweep Range:
	The program data syntax for the second parameter is defined as a \<DECIMAL NUMERIC PROGRAM DATA\> element.
	Sets the sweep frame start size.
	MAXimum, sets the maximum sweep frame start size.
	MINimum, sets the minimum sweep frame start size.
Response Syntax	\<Frame Size Type\>
Example(s)	SOUR:DATA:TEL:ETH:STR:FRAM:SWE:STAR 1,64
See Also	SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE?

:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SWEep:STARt?

Description	This query returns the minimum value of the sweep range.
	At *RST condition, this value is set to 64.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Profile - Sweep > Sweep Range - Min)
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SWEep:STARt? \<wsp>\<Stream>,[\<Sweep Range>]
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a \<DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Sweep Range:
	The program data syntax for the second parameter is defined as a \<CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current sweep frame start size is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	\<Frame Size Type>
Response(s)	**Frame Size Type**:
	The response data syntax for the first parameter is defined as a \<NR1 NUMERIC RESPONSE DATA> element.
	Returns the sweep frame start size.
Example(s)	SOUR:DATA:TEL:ETH:STR:FRAM:SWE:STAR 1,64
	SOUR:DATA:TEL:ETH:STR:FRAM:SWE:STAR? 1
	Returns: 64
See Also	SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:SIZE

:SOURce:DATA:TELecom:ETHernet:STReam:MODE

Description	This command sets the transmitter mode for the selected stream.
	At *RST condition, this value is set to CONTinuous.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - TX Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:MODE <wsp><Tgen>, <Mode>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Mode:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the transmitter mode for the selected stream.
	CONTinuous: transmitter mode as Continuous
	BURSt: Burst
	RAMP: Ramp
	NFRame: Number of Frame
	NBURst: Number of Burst
	NRAMp: Number of Ramp
Response Syntax	<Frame Size Type>
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, BURS
	SOUR:DATA:TEL:ETH:STR:MODE? 1
	Returns: BURST
See Also	SOURce:DATA:TELecom:ETHernet:STReam:CODec:VOICe 2,VG723

:SOURce:DATA:TELecom:ETHernet:STReam:MODE?

Description	This query returns the transmitter mode for the stream.
	At *RST condition, this value is set to CONTinuous.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - TX Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:MODE? <wsp><Tgen>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the transmitter mode for the selected stream.
	CONTinuous, for Continuous.
	BURSt, for Burst.
	RAMP, for Ramp.
	NFRame, for Number of Frame.
	NBURst, for Number of Burst.
	NRAMp, for Number of Ramp.
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, BURS
	SOUR:DATA:TEL:ETH:STR:MODE? 1
	Returns: BURST
See Also	SOURce:DATA:TELecom:ETHernet:STReam:CODec:VIDeo:CHANnels?

:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:RATE

Description	This command sets the TX rate (in percent) of the selected stream for 'Traffic Gen & Mon' or the selected client for 'FlexE BERT'.
	At *RST condition, this value is set to 100.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - TX Rate / Max TX Rate
	Navigation Path: Setup > Test Configurator > Clients > BERT > Shaping - TX Rate / Max TX Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:RATE <wsp><Stream/Client ID>,[<RateInPercent>]
Parameter(s)	**Stream/Client ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16 (Traffic Gen & Mon) or client ID from 1 to n (FlexE BERT)
	RateInPercent:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream or client TX rate, in percent, for the transmitter.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:STR:PROFile:RATE 1, 105
	SOUR:DATA:TEL:ETH:STR:PROFile:RATE? 1
	Returns: 105
See Also	SOURce:DATA:TELecom:ETHernet:STReam:PROFile:RATE:MBPS
	SOURce:DATA:TELecom:ETHernet:STReam:FCOunt

:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:RATE:MBPS

Description	This command sets the TX rate (in Mbit/s) of the selected stream for 'Traffic Gen & Mon' or the selected client for 'FlexE BERT'.
	At *RST condition, this value is set to the maximum rate of the interface or client rate.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - TX Rate / Max TX Rate
	Navigation Path: Setup > Test Configurator > Clients > BERT > Shaping - TX Rate / Max TX Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:RATE:MBPS <wsp><Stream/Client ID>,[<RateInMbps>]
Parameter(s)	**Stream/Client ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16 (Traffic Gen & Mon) or client ID from 1 to n (FlexE BERT)
	RateInMbps:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream or client TX rate, in Mbit/s, for the transmitter.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:STR:PROFile:RATE:MBPS 1, 10000
	SOUR:DATA:TEL:ETH:STR:PROFile:RATE:MBPS? 1
	Returns: 10000
See Also	SOURce:DATA:TELecom:ETHernet:STReam:PROFile:RATE

:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:RATE:MBPS?

Description	This query returns the TX rate (in Mbit/s) of the selected stream for 'Traffic Gen & Mon' or the selected client for 'FlexE BERT'.
	At *RST condition, this value is set to the maximum rate of the interface or client rate.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - TX Rate / Max TX Rate
	Navigation Path: Setup > Test Configurator > Clients > BERT > Shaping - TX Rate / Max TX Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:RATE:MBPS? <wsp><Stream/Client ID>,[<MinOrMaxRate>]
Parameter(s)	**Stream/Client ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16 (Traffic Gen & Mon) or client ID from 1 to n (FlexE BERT)
	MinOrMaxRate:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current profile rate, in Mbit/s, is returned.
	MAXimum: Biggest supported value, in Mbit/s.
	MINimum: Smallest supported value, in Mbit/s.
Response Syntax	<RateInMbps>
Response(s)	**RateInMbps**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the stream or client TX rate, in Mbit/s, for the transmitter.
Example(s)	SOUR:DATA:TEL:ETH:STR:PROFile:RATE:MBPS 1, 10000
	SOUR:DATA:TEL:ETH:STR:PROFile:RATE:MBPS? 1
	Returns: 10000
See Also	SOURce:DATA:TELecom:ETHernet:STReam:PROFile:RATE?

:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:RATE?

Description	This query returns the TX rate (in percent) of the selected stream for 'Traffic Gen & Mon' or the selected client for 'FlexE BERT'.
	At *RST condition, this value is set to 100.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - TX Rate / Max TX Rate
	Navigation Path: Setup > Test Configurator > Clients > BERT > Shaping - TX Rate / Max TX Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:RATE? <wsp><Stream/Client ID>,[<MinOrMaxOrDefaultRate>]
Parameter(s)	**Stream/Client ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16 (Traffic Gen & Mon) or client ID from 1 to n (FlexE BERT)
	MinOrMaxOrDefaultRate:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current profile rate, in percent, is returned.
	MAXimum: Biggest supported value, in percent.
	MINimum: Smallest supported value, in percent.
	DEFault: Default value, in percent
Response Syntax	<RateInPercent>
Response(s)	**RateInPercent**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the stream or client TX rate, in percent, for the transmitter.
Example(s)	SOUR:DATA:TEL:ETH:STR:PROFile:RATE 1, 105
	SOUR:DATA:TEL:ETH:STR:PROFile:RATE? 1
	Returns: 105
See Also	SOURce:DATA:TELecom:ETHernet:STReam:PROFile:RATE:MBPS?
	SOURce:DATA:TELecom:ETHernet:STReam:FCOunt?

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:COUNt

Description	This command sets QoS metrics maximum Frame Loss count value.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Frame Loss Count - Maximum
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:COUNt <wsp><Stream>,[<Value>]
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Value:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the frame loss count value.
	Choices are from 0 to 9999999999
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<RateInPercent>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:COUN 1, 20
	SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:COUN? 1
	Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:VAL 1, 12.00
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:VAL? 1 Returns 12.00

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:COUNt?

Description	This query returns QoS metrics maximum Frame Loss count value.
	At *RST condition, this value is set to 100.0.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Frame Loss Count - Maximum
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:COUNt? <wsp><Stream>,[<Value>]
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Value:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current frame loss count is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the frame loss count value
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:COUN 1, 20
	SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:COUN? 1
	Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:VAL 1, 12.00
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:VAL? 1 Returns 12.00

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:RATE

Description	This command sets QoS metrics maximum Frame Loss rate value.
	At *RST condition, this value is set to 1.0E-02.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Frame Loss Rate - Maximum
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:RATE <wsp><Stream>, <Value>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Value:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the frame loss Rate value
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:RATE 1, 1.0E00
	SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:RATE? 1
	Returns: 1.0E00
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:STATus 1, ON
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:STATus? 1 Returns ON

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:RATE?

Description	This query returns QoS metrics maximum Frame Loss rate value.
	At *RST condition, this value is set to 1.0E-02.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Frame Loss Rate - Maximum
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:RATE? <wsp><Stream>, <Value>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Value:
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the frame loss rate value
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:RATE 1, 1.0E00
	SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:RATE? 1
	Returns: 1.0E00
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:STATus 1, ON
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:STATus? 1 Returns ON

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:STATus

Description	This command enables/disables QoS metrics Frame Loss pass/fail verdict.
	At *RST condition, this value is device dependant.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Pass Fail Verdict - Frame Loss Count/Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:STATus <wsp><Stream>,[<Type>],[<Status>]
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Type:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects frame loss type.
	COUNt Sets the frame loss type to COUN
	RATE Sets the frame loss type to RATE
	Status:
	The program data syntax for the third parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the frame loss status.
	ON,Enables frame loss.
	OFF,Disables frame loss.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:STAT 1, COUN,ON
	SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:STAT? 1, COUN
	Returns: ON
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:VAL 1, 12.00
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:VAL? 1 Returns 12.00

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:STATus?

Description	This query returns status of the QoS metrics Frame Loss pass/fail verdict setting.
	At *RST condition, this value is device dependant.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Pass Fail Verdict - Frame Loss Count/Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:STATus? <wsp><Stream>,[<Type>]
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Type:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects frame loss type.
	COUNt Sets the frame loss type to COUN
	RATE Sets the frame loss type to RATE
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the QOS Metrics frame loss Status.
	1, QOS Metrics frame loss is enabled.
	0, QOS Metrics frame loss is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:STAT 1, COUN,ON
	SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:STAT? 1, COUN
	Returns: ON
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:VAL 1, 12.00
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:VAL? 1 Returns 12.00

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:TYPE

Description	This command sets QoS metrics Frame Loss type.
	At *RST condition, this value is set to count.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics > Global Thresholds Type > Frame Loss
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:TYPE[<wsp><Type>]
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Frameloss Type.
	COUNt
	RATE
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:TYPE COUN
	SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:TYPE?
	Returns: COUN
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:STATus 1, ON
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:STATus? 1 Returns ON

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:TYPE?

Description	This query returns status of the QoS metrics Frame Loss pass/fail verdict setting.
	At *RST condition, this value is set to Count.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics > Global Thresholds Type > FrameLoss
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:TYPE?
Response Syntax	<Frame Loss TYPE>
Response(s)	**Frame Loss TYPE**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the QOSMetrics frame loss TYPE
	COUNt, returns frame loss type as Count.
	RATE, returns frame loss type as RATE.
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:TYPE COUN
	SOUR:DATA:TEL:ETH:STR:QOSM:FLOS:TYPE?
	Returns: COUN
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:STATus 1, ON
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:STATus? 1 Returns ON

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:STATus

Description	This command enables/disables QoS metrics Jitter pass/fail verdict.
	At *RST condition, this value is device dependant.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Pass Fail Verdict - Jitter
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:STATus <wsp><Stream>,[<Status>]
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Status:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets QOS metrics Jitter status.
	ON,Enables the QOSmetrics Jitter.
	OFF,Disables the QOSmetrics Jitter.
Response Syntax	<Frame Loss TYPE>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:JITT:STAT 1, ON
	SOUR:DATA:TEL:ETH:STR:QOSM:JITT:STAT? 1
	Returns: ON
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:TYPE COUNt
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:TYPE? Returns COUNt

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:STATus?

Description	This query returns status of QoS metrics Jitter pass/fail verdict setting.
	At *RST condition, this value is device dependant.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Pass Fail Verdict - Jitter
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:STATus? <wsp><Stream>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the QoS Jitter Status.
	1, QOS metrics Jitter is enabled.
	0, QOS metrics Jitter is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:JITT:STAT 1, ON
	SOUR:DATA:TEL:ETH:STR:QOSM:JITT:STAT? 1
	Returns: ON
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:TYPE COUNt
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:TYPE? Returns COUNt

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:VALue

Description	This command Sets QoS metrics maximum Jitter Value.
	At *RST condition, this value is set to 15.0.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Jitter - Maximum
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:VALue <wsp><Stream>,[<Value>]
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Value:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Jitter value
	Choices are from 0.005 to 8000.0 for 10M rate and
	0.001 to 8000.0 for all other rates.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:JITT:VAL 1, 12.00
	SOUR:DATA:TEL:ETH:STR:QOSM:JITT:VAL? 1
	Returns: 12.00
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:STATus 1, COUNt,ON
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:STATus? 1, COUNt Returns ON

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:VALue?

Description	This query returns QoS metrics maximum Jitter Value.
	At *RST condition, this value is set to 15.0.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Jitter - Maximum
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:JITTer:VALue? <wsp><Stream>,[<Value>]
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Value:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current Jitter is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Jitter value
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:JITT:VAL 1, 12.00
	SOUR:DATA:TEL:ETH:STR:QOSM:JITT:VAL? 1
	Returns: 12.00
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:STATus 1, COUNt,ON
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:STATus? 1, COUNt Returns ON

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:STATus

Description	This command enables/disables QoS metrics Latency pass/fail verdict.
	At *RST condition, this value is device dependant.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Pass Fail Verdict - Latency
	Navigation Path: Setup > Test Configurator > EtherBERT > Latency > Pass/Fail Verdict
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:STATus <wsp><Stream>,[<Status>]
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Status:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	QOS metrics latency status.
	ON, Enables QOSmetrics latency.
	OFF, Disables QOSmetrics latency.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:LAT:STAT 1, ON
	SOUR:DATA:TEL:ETH:STR:QOSM:LAT:STAT? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:STATus 1, COUNt,ON
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:STATus? 1, COUNt Returns ON

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:STATus?

Description	This query returns status of QoS metrics Latency pass/fail verdict setting.
	At *RST condition, this value is device dependant.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Pass Fail Verdict - Latency
	Navigation Path: Setup > Test Configurator > EtherBERT > Latency > Pass/Fail Verdict
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:STATus? <wsp><Stream>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the QoS Latency Status.
	1, QOS metrics latency is enabled.
	0, QOS metrics latency is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:LAT:STAT 1, ON
	SOUR:DATA:TEL:ETH:STR:QOSM:LAT:STAT? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:RATE 1, 1.0E00
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:RATE? 1 Returns 1.0E01

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:VALue

Description	This command Sets QoS metrics maximum Latency value.
	At *RST condition, this value is device dependant.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Latency - Maximum
	Navigation Path: Setup > Test Configurator > EtherBERT > Latency > Threshold
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:VALue <wsp><Stream>,[<Value>]
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Value:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the latency value
	Choices are from 0.005 to 8000.0 for 10M rate and 0.001 to 8000.0 for all other rates.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:LAT:VAL 1, 12.00
	SOUR:DATA:TEL:ETH:STR:QOSM:LAT:VAL? 1
	Returns: 12.00
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:COUNt 1, 20
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:COUNt? 1 Returns 20

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:VALue?

Description	This query returns QoS metrics maximum Latency value.
	At *RST condition, this value is device dependant.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Latency - Maximum
	Navigation Path: Setup > Test Configurator > EtherBERT > Latency > Threshold
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:LATency:VALue? <wsp><Stream>,[<Value>]
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Value:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current latency is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Latency value
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:LAT:VAL 1, 12.00
	SOUR:DATA:TEL:ETH:STR:QOSM:LAT:VAL? 1
	Returns: 12.00
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:COUNt 1, 20
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:FLOSs:COUNt? 1 Returns 21

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:COUNt

Description	This command sets QoS metrics maximum Out-Of-Sequence Count value.
	At *RST condition, this value is set to 100.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Out-Of-Sequence Count - Maximum
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:COUNt <wsp><Stream>,[<Value>]
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Value:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Out-of- Sequence count value
	Choices are from 0 to 9999999999
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:OOS:COUN 1, 20
	SOUR:DATA:TEL:ETH:STR:QOSM:OOS:COUN? 1
	Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:MIN 1, CURR,20
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:MIN? 1, CURR Returns 20

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:COUNt?

Description	This query returns QoS metrics maximum Out-Of-Sequence Count value.
	At *RST condition, this value is set to 100.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Out-Of-Sequence Count - Maximum
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:COUNt? <wsp><Stream>,[<Value>]
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Value:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current Out-of- Sequence count is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Out-of- Sequence count value
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:OOS:COUN 1, 20
	SOUR:DATA:TEL:ETH:STR:QOSM:OOS:COUN? 1
	Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:MIN 1, CURR,20
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:MIN? 1, CURR Returns 20

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:RATE

Description	This command sets QoS metrics maximum Out-Of-Sequence rate value.
	At *RST condition, this value is set to 1.0E-02.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Out-Of-Sequence Rate - Maximum
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:RATE <wsp><Stream>, <Value>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Value:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Out-of- Sequence Rate value
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:OOS:RATE 1, 1.0E00
	SOUR:DATA:TEL:ETH:STR:QOSM:OOS:RATE? 1
	Returns: 1.0E00
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:MAX 1, CURR,20
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:MAX? 1, CURR Returns 20

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:RATE?

Description	This query returns QoS metrics maximum Out-Of-Sequence rate value.
	At *RST condition, this value is set to 1.0E-02.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Out-Of-Sequence Rate - Maximum
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:RATE? <wsp><Stream>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the Out-of- Sequence rate value
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:OOS:RATE 1, 1.0E00
	SOUR:DATA:TEL:ETH:STR:QOSM:OOS:RATE? 1
	Returns: 1.0E00
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:MAX 1, CURR,20
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:MAX? 1, CURR Returns 20

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:STATus

Description	This command enables/disables QoS Metrics Out-of-Sequence pass/fail verdict. At *RST condition, this value is device dependant. Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Pass Fail Verdict - Out-Of-Sequence Count/Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:STATus <wsp><Stream>,[<Type>],[<Status>]
Parameter(s)	**Stream**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. **Type**: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects out of sequence Type. COUNt selects out of sequence type to COUNt. RATE selects out of sequence type to RATE. **Status**: The program data syntax for the third parameter is defined as a <BOOLEAN PROGRAM DATA> element. Sets the QOS Metrics out of sequence status. ON, Enables QOSMetrics out of sequence. OFF, Disables QOSMetrics out of sequence.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:OOS:STAT 1, COUN,ON SOUR:DATA:TEL:ETH:STR:QOSM:OOS:STAT? 1, COUN Returns: ON
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:STATus 1, CURR,ON SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:STATus? 1, CURR Returns ON

:SOURce:DATA:TELecom:ETHernet:STRead:QOSMetrics:OOSequence:STATus?

Description	This query returns status of the QoS Metrics Out-of-Sequence pass/fail verdict setting.
	At *RST condition, this value is device dependant.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Pass Fail Verdict - Out-Of-Sequence Count/Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:STRead:QOSMetrics:OOSequence:STATus? <wsp><Stream>,[<Type>]
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Type:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects out of sequence Type.
	COUNt selects out of sequence type to COUNt.
	RATE selects out of sequence type to RATE.
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the QoS Metrics Out-Of Sequence status.
	1, QoS Metrics Out-Of Sequence is enabled.
	0, QoS Metrics Out-Of Sequence is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:OOS:STAT 1, COUN,ON
	SOUR:DATA:TEL:ETH:STR:QOSM:OOS:STAT? 1, COUN
	Returns: ON
See Also	SOURce:DATA:TELecom:ETHernet:STRead:QOSMetrics:THRoughput:STATus 1, CURR,ON
	SOURce:DATA:TELecom:ETHernet:STRead:QOSMetrics:THRoughput:STATus? 1, CURR Returns ON

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:TYPE

Description	This command sets QoS metrics Out-Of-Sequence type.
	At *RST condition, this value is set to count.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics > Global Thresholds Type > Out-Of-Sequence
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:TYPE[<wsp><Type>]
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Out of Sequence Type.
	COUNt Selects Out of Sequence Type to COUNt.
	RATE Selects Out of Sequence Type to RATE.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:OOS:TYPE COUN
	SOUR:DATA:TEL:ETH:STR:QOSM:OOS:TYPE?
	Returns: COUN
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:TYPE CURR
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:TYPE? Returns CURR

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:TYPE?

Description	This query returns QoS metrics Out-Of-Sequence type.
	At *RST condition, this value is set to count.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics > Global Thresholds Type > Out-Of-Sequence
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:TYPE?
Response Syntax	<TYPE>
Response(s)	**TYPE**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the QoS Metrics Out-Of Sequence Type.
	COUNt, returns Out-Of Sequence type as Count.
	RATE, returns Out-Of Sequence type as RATE.
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:OOS:TYPE COUN
	SOUR:DATA:TEL:ETH:STR:QOSM:OOS:TYPE?
	Returns: COUN
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:TYPE CURR
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:TYPE? Returns CURR

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:MAXimum

Description	This command sets QoS metrics maximum Throughput value.
	At *RST condition, this value is set to 100.0.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Throughput - Maximum
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:MAXimum <wsp><Stream>, <Type>, <Value>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Throughput Type.
	AVG: Average
	CURRent: Current
	Value:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the maximum throughput value
	Choices are from 0.0000 to 107.0000
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<TYPE>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:THR:MAX 1, CURR,20
	SOUR:DATA:TEL:ETH:STR:QOSM:THR:MAX? 1, CURR
	Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:RATE 1, 1.0E00
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:RATE? 1 Returns 1.0E00

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRo ughput:MAXimum?

Description	This query returns QoS metrics maximum Throughput value.
	At *RST condition, this value is set to 100.0.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Throughput - Maximum
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:MAXimum? <wsp><Stream>, <Type>,[<Value>]
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Throughput Type.
	AVG: Average
	CURRent: Current
	Value:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional.
	If no token is specified, the current maximum throughput value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Maximum Throughput Value>

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:MAXimum?

Response(s)	**Maximum Throughput Value**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the maximum throughput value
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:THR:MAX 1, CURR,20
	SOUR:DATA:TEL:ETH:STR:QOSM:THR:MAX? 1, CURR
	Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:RATE 1, 1.0E00
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:RATE? 1 Returns 1.0E00

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:MINimum

Description	This command sets QoS metrics minimum Throughput value.
	At *RST condition, this value is set to 100.0.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Throughput - Minimum
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:MINimum <wsp><Stream>, <Type>, <Value>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Throughput Type.
	AVG: Average
	CURRent: Current
	Value:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the minimum throughput value
	Choices are from 0.0000 to 107.0000
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Maximum Throughput Value>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:THR:MIN 1, CURR,20
	SOUR:DATA:TEL:ETH:STR:QOSM:THR:MIN? 1, CURR
	Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:COUNt 1, 20
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:COUNt? 1 Returns 20

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:MINimum?

Description	This query returns QoS metrics mimimum Throughput value.
	At *RST condition, this value is set to 100.0.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Threshold - Throughput - Minimum
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:MINimum? <wsp><Stream>, <Type>,[<Value>]
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Throughput Type.
	AVG: Average
	CURRent: Current
	Value:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional.
	If no token is specified, the current minimum throughput value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Minimum Throughput Value>

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:MINimum?

Response(s)	**Minimum Throughput Value**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the minimum throughput value
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:THR:MIN 1, CURR,20
	SOUR:DATA:TEL:ETH:STR:QOSM:THR:MIN? 1, CURR
	Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:COUNt 1, 20
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:COUNt? 1 Returns 20

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:STATus

Description	This command enables/disables Throughput pass/fail verdict.
	At *RST condition, this value is device dependant.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Pass Fail Verdict - Throughput
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:STATus <wsp><Stream>,[<Type>],[<Status>]
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Type:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects Throughput Type.
	AVG: Average
	CURRent: Current
	Status:
	The program data syntax for the third parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the QOSmetrics Throughput status ON	OFF.
	ON,Enables the QOSmetrics Throughput.
	OFF,Disables the QOSmetrics Throughput.
Response Syntax	<Minimum Throughput Value>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:THR:STAT 1, CURR,ON
	SOUR:DATA:TEL:ETH:STR:QOSM:THR:STAT? 1, CURR
	Returns: ON
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:STATus 1, COUNt,ON
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:STATus? 1, COUNt Returns ON

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:STATus?

Description	This query returns status of QoS metrics Throughput pass/fail verdict setting.
	At *RST condition, this value is device dependant.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics - Pass Fail Verdict - Throughput
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:STATus? <wsp><Stream>,[<Type>]
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Type:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects Throughput Type.
	AVG: Average
	CURRent: Current
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the QoS Metrics throughput Status.
	1, QoS Metrics throughput is enabled.
	0, QoS Metrics throughput is disabled.
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:THR:STAT 1, CURR,ON
	SOUR:DATA:TEL:ETH:STR:QOSM:THR:STAT? 1, CURR
	Returns: ON
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:STATus 1, COUNt,ON
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:STATus? 1, COUNt
	Returns ON

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:TYPE

Description	This command sets QoS metrics Throughput Type.
	At *RST condition, this value is set to Average Throughput.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics > Global Thresholds Type > Throughput
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:TYPE <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Throughput Type.
	AVERAGE, sets throughput type to AVERAGE
	CURRent, sets throughput type to CURRENT
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:THR:TYPE CURR
	SOUR:DATA:TEL:ETH:STR:QOSM:THR:TYPE?
	Returns: CURR
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:TYPE COUNt
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:TYPE? 1, 1 Returns COUNt

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:TYPE?

Description	This query returns QoS metrics Throughput Type.
	At *RST condition, this value is set to Average Throughput.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics > Global Thresholds Type > Throughput
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:THRoughput:TYPE?
Response Syntax	<TYPE>
Response(s)	**TYPE**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the QoS Metrics throughput TYPE
	AVG, returns throughput type as Average.
	CURRENT, returns Throughput type as Current.
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:THR:TYPE CURR
	SOUR:DATA:TEL:ETH:STR:QOSM:THR:TYPE?
	Returns: CURR
See Also	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:TYPE COUNt
	SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:OOSequence:TYPE? 1, 1 Returns COUNt

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:VERDict

Description	This command enables/disables the QoS Metrics Global Pass/Fail verdict.
	At *RST condition, this value is set to Enabled.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics ‚Äì Global Pass/Fail Verdict.
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:VERDict <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<TYPE>
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:VERD ON

:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:VERDict?

Description	This query returns the enable/disable status of the QoS Metrics Global Pass/Fail Verdict.
	At *RST condition, this value is set to Enabled.
	Navigation Path: Setup > Test Configurator > Streams > Profile > QoS Metrics ‚Äì Global Pass/Fail Verdict.
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:QOSMetrics:VERDict?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status of the Global Pass/Fail Verdict.
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:STR:QOSM:VERD ON
	SOUR:DATA:TEL:ETH:STR:QOSM:VERD?
	Returns: 1

:SOURce:DATA:TELecom:ETHernet:STReam:TRAnsmit:MODE

Description	This command sets the Transmit Mode.
	At *RST condition, this value is set to Continuous.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - TX Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:TRAnsmit:MODE <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the transmit mode for the stream CONFig.
	CONTinuous: Continuous
	NFRame: Number of frames
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:TRAN:MODE CONTINUOUS
	SOUR:DATA:TEL:ETH:STR:TRAN:MODE?
	Returns: CONTINUOUS
See Also	SOURce:DATA:TELecom:ETHernet:STReam:TRANsmit:MODE?

:SOURce:DATA:TELecom:ETHernet:STReam:TRAnsmit:MODE?

Description	This query returns the Transmit Mode.
	At *RST condition, this value is set to Continuous.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - TX Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:TRAnsmit:MODE?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the transmit mode of the stream CONFig.
	CONtinuous, indicates Continuous as the transmit mode.
	NFRame, indicates Number of frames as the transmit mode.
Example(s)	SOUR:DATA:TEL:ETH:STR:TRAN:MODE CONTINUOUS
	SOUR:DATA:TEL:ETH:STR:TRAN:MODE?
	Returns: CONTINUOUS
See Also	SOURce:DATA:TELecom:ETHernet:STReam:TRANsmit:MODE?

:SOURce:DATA:TELecom:ETHernet:STReam:TRAnsmit:NFRame

Description	This command sets the number of frames.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Frame Count
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:TRAnsmit:NFRame <wsp><Size>
Parameter(s)	**Size**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the number of frames.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:STR:TRAN:NFR 100
	SOUR:DATA:TEL:ETH:STR:TRAN:NFR?
	Returns: 100
See Also	SOURce:DATA:TELecom:ETHernet:STReam:TRANsmit:NFRame?

:SOURce:DATA:TELecom:ETHernet:STReam:TRAnsmit:NFRame?

Description	This query returns the number of frames.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Frame Count
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:TRAnsmit:NFRame?
Response Syntax	<Frame>
Response(s)	**Frame**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of frames for each traffic type.
	MAXimum, indicates maximum as number of frames.
	MINimum, indicates minimum as number of frames.
Example(s)	SOUR:DATA:TEL:ETH:STR:TRAN:NFR 100
	SOUR:DATA:TEL:ETH:STR:TRAN:NFR?
	Returns: 100
See Also	SOURce:DATA:TELecom:ETHernet:STReam:TRANsmit:NFRame

:SOURce:DATA:TELecom:ETHernet:TOTal:BANDwidth?

Description	This query returns the total available bandwidth value for all configured traffic streams.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Link Capacity.
Syntax	:SOURce:DATA:TELecom:ETHernet:TOTal:BANDwidth?
Response Syntax	<Bandwidth>
Response(s)	**Bandwidth**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the total available bandwidth.
Example(s)	SOUR:DATA:TEL:ETH:TOT:BAND?
See Also	SOURce:DATA:TELecom:ETHernet:ENABled:BANDwidth?

Streams - Profile (Profile)

:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VIDeo

Description	This command sets the Video Codec for the selected traffic stream/service. At *RST condition, this value is set to SDTVMPEG2. Navigation Path: Setup > Test Configurator > Streams/Services > Profile > Profile - Profile > Video Codec
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VIDeo <wsp><Tgen>, <Profile>
Parameter(s)	**Tgen**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the stream from 1 to 16. **Profile**: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the video codec type for the selected stream. SDTVMPEG2: SDTV (MPEG-2) HDTVMPEG2: HDTV (MPEG-2) HDTVMPEG4: HDTV (MPEG-4)
Response Syntax	<Time>
Example(s)	SOUR:DATA:TEL:ETH:STR:PROF:TYPE 2,VDEO SOUR:DATA:TEL:ETH:STR:COD:VID 2,SDTVMPEG2 SOUR:DATA:TEL:ETH:STR:COD:VID? 2 Returns: SDTVMPEG2
See Also	SOURce:DATA:TELecom:ETHernet:STReam:CODec:VIDeo?

:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VIDeo:CHANnels

Description	This command sets the number of channels for the selected traffic stream/service.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > Streams/Services > Profile > Profile - Profile > Number Of Channels
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VIDeo:CHANnels <wsp><Stream>, <Channels>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
	EtherSAM - Selects the service from 1 to 10.
	Channels:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the number of channels.
	VG711: VG711 jitter packet type
	VG723: VG723 jitter packet type
	VG729: VG729 jitter packet type
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	UDEFined: User Defined jitter packet type
Response Syntax	<Time>
Example(s)	SOUR:DATA:TEL:ETH:STR:PROF:TYPE 2,VIDeo
	SOUR:DATA:TEL:ETH:STR:COD:VID 2,SDTVMPEG2
	SOUR:DATA:TEL:ETH:STR:COD:VID:CHAN 2,20
	SOUR:DATA:TEL:ETH:STR:COD:VID:CHAN? 2
	Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MODE?

:SOURce:DATA:TELecom:ETHernet:STREam:CODec:VIDeo:CHANnels?

Description	This query returns the number of channels for the selected traffic stream/service.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > Streams/Services > Profile > Profile - Profile > Number Of Channels
Syntax	:SOURce:DATA:TELecom:ETHernet:STREam:CODec:VIDeo:CHANnels? <wsp><Stream>,[<MIN/MAX>]
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
	EtherSAM - Selects the service from 1 to 10.
	MIN/MAX:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Channels>
Response(s)	**Channels**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of channels.
Example(s)	SOUR:DATA:TEL:ETH:STR:PROF:TYPE 2,VIDeo
	SOUR:DATA:TEL:ETH:STR:COD:VID 2,SDTVMPEG2
	SOUR:DATA:TEL:ETH:STR:COD:VID:CHAN 2,20
	SOUR:DATA:TEL:ETH:STR:COD:VID:CHAN? 2
	Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:STREam:CODec:VIDeo?

:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VIDeo?

Description	This query returns the Video Codec for the selected traffic stream/service.
	At *RST condition, this value is set to SDTVMPEG2.
	Navigation Path: Setup > Test Configurator > Streams/Services > Profile > Profile - Profile > Video Codec
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VIDeo? <wsp><Tgen>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Codec>
Response(s)	**Codec**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the video codec type for the selected stream.
	SDTVMPEG2, SDTV (MPEG-2) is selected as video codec type.
	HDTVMPEG2, HDTV (MPEG-2) is selected as video codec type.
	HDTVMPEG4, HDTV (MPEG-4) is selected as video codec type.
Example(s)	SOUR:DATA:TEL:ETH:STR:PROF:TYPE 2,VIDeo
	SOUR:DATA:TEL:ETH:STR:COD:VID 2,SDTVMPEG2
	SOUR:DATA:TEL:ETH:STR:COD:VID? 2
	Returns: SDTVMPEG2
See Also	SOURce:DATA:TELecom:ETHernet:STReam:CODec:VIDeo

:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VOICe

Description	This command sets the voice codec for the selected traffic stream/service.
	At *RST condition, this value is set to VG711.
	Navigation Path: Setup > Test Configurator > Streams/Services > Profile > Profile - Profile > Voice Codec
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VOICe \<wsp>\<Tgen>, \<Voice>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a \<DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Voice:
	The program data syntax for the second parameter is defined as a \<CHARACTER PROGRAM DATA> element.
	Sets the voice codec for the selected traffic stream.
	VG711: VG711.
	VG723: VG723.
	VG729: VG729.
Response Syntax	\<Codec>
Example(s)	SOUR:DATA:TEL:ETH:STR:COD:VOIC 2,VG723
	SOUR:DATA:TEL:ETH:STR:COD:VOIC? 2
	Returns: VG723
See Also	SOURce:DATA:TELecom:ETHernet:STReam:PROFile:TYPE

:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VOICe:CALLs

Description	This command sets the number of calls for the selected traffic stream/service.
	At *RST condition, this value is set to 10.
	Navigation Path: Setup > Test Configurator > Streams/Services > Profile > Profile - Profile > Number of Calls
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VOICe:CALLs <wsp><Tgen>, <Calls>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Calls:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the number of calls.
Response Syntax	<Codec>
Example(s)	SOUR:DATA:TEL:ETH:STR:COD:VOIC 2,VG723
	SOUR:DATA:TEL:ETH:STR:COD:VOIC:CALL 2,20
	SOUR:DATA:TEL:ETH:STR:COD:VOIC:CALL? 2
	Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:STReam:CODec:VIDeo:CHANnels

:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VOICe:CALLs?

Description	This query returns the number of calls for the selected traffic stream/service.
	At *RST condition, this value is set to 10.
	Navigation Path: Setup > Test Configurator > Streams/Services > Profile > Profile - Profile > Number of Calls
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VOICe:CALLs? <wsp><Tgen>,[<Value>]
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Value:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
Response Syntax	<Calls>
Response(s)	**Calls**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of calls.
Example(s)	SOUR:DATA:TEL:ETH:STR:COD:VOIC 2,VG723
	SOUR:DATA:TEL:ETH:STR:COD:VOIC:CALL 2,20
	SOUR:DATA:TEL:ETH:STR:COD:VOIC:CALL? 2
	Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:STReam:CODec:VIDeo:CHANnels?

:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VOICe?

Description	This query returns the selected voice codec for the selected traffic stream/service.
	At *RST condition, this value is set to VG711.
	Navigation Path: Setup > Test Configurator > Streams/Services > Profile > Profile - Profile > Voice Codec
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:CODec:VOICe? <wsp><Tgen>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Voice>
Response(s)	**Voice**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the voice codec.
	VG711, VG711 is selected.
	VG723, VG723 is selected.
	VG729, VG729 is selected.
Example(s)	SOUR:DATA:TEL:ETH:STR:COD:VOIC 2,VG723
	SOUR:DATA:TEL:ETH:STR:COD:VOIC? 2
	Returns: VG723
See Also	SOURce:DATA:TELecom:ETHernet:STReam:PROFile:TYPE?

:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:TYPE

Description	This command sets the profile type for the selected traffic stream/service.
	At *RST condition, this value is set to Data.
	Navigation Path: Setup > Test Configurator > Streams/Services > Profile > Profile - Profile > Voice/Video/Data
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:TYPE <wsp><Stream>, <Profile>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Profile:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the profile type.
	VOICe: Voice
	VIDeo: Video
	DATA: Data
Response Syntax	<Voice>
Example(s)	SOUR:DATA:TEL:ETH:STR:PROF:TYPE 2,VOICE
	SOUR:DATA:TEL:ETH:STR:PROF:TYPE? 2
	Returns: VOICE
See Also	SOURce:DATA:TELecom:ETHernet:STReam:CODec:VOICe

:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:TYPE?

Description	This query returns the profile type for the selected traffic stream/service.
	At *RST condition, this value is set to Data.
	Navigation Path: Setup > Test Configurator > Streams/Services > Profile > Profile - Profile > Voice/Video/Data
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:PROFile:TYPE? <wsp><Stream>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Profile>
Response(s)	**Profile**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the profile type.
	VOICe, Voice as profile type is selected.
	VIDeo, Video as profile type is selected.
	DATA, Data as profile type is selected.
Example(s)	SOUR:DATA:TEL:ETH:STR:PROF:TYPE 2,VOIC
	SOUR:DATA:TEL:ETH:STR:PROF:TYPE? 2
	Returns: VOICE
See Also	SOURce:DATA:TELecom:ETHernet:STReam:CODec:VOICe?

Shaping

:SOURce:DATA:TELecom:ETHernet:STReam:BURSt:BANDwidth

Description	This command sets the burst bandwidth for the selected traffic stream.
	At *RST condition, this value is set to 50.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Shaping > Burst Duty Cycle
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BURSt:BANDwidth[<wsp><Tgen>], <Bandwidth>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Bandwidth:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Set the bandwidth in percentage.
	Choices are 1 through 100%.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, BURS
	SOUR:DATA:TEL:ETH:STR:BURS:BAND 1, 100
	SOUR:DATA:TEL:ETH:STR:BURS:BAND? 1
	Returns: 100
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MODE

:SOURce:DATA:TELecom:ETHernet:STReam:BURSt:BANDwidth?

Description	This query returns the burst bandwidth for the selected traffic stream.
	At *RST condition, this value is set to 50.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Shaping > Burst Duty Cycle
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BURSt:BANDwidth?[<wsp><Tgen>],[<Bandwidth>]
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Bandwidth:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current bandwidth is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Bandwidth>
Response(s)	**Bandwidth**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the burst bandwidth from 1 to 100 in percentage.
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, BURS
	SOUR:DATA:TEL:ETH:STR:BURS:BAND 1, 100
	SOUR:DATA:TEL:ETH:STR:BURS:BAND? 1
	Returns: 100
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MODE?

:SOURce:DATA:TELecom:ETHernet:STReam:BURSt:COUNt

Description	This command sets the number of burst count for the selected traffic stream.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Shaping > Burst Count
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BURSt:COUNt <wsp><Tgen>, <Count>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Count:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Set the number of the burst count.
	Choices are 1 through 255.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Bandwidth>
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, BURS
	SOUR:DATA:TEL:ETH:STR:BURS:COUN 1, 50
	SOUR:DATA:TEL:ETH:STR:BURS:COUN? 1
	Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BURSt:BANDwidth

:SOURce:DATA:TELecom:ETHernet:STReam:BURSt:COUNt?

Description	This query returns the number of burst count for the selected traffic stream.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Shaping > Burst Count
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BURSt:COUNt? <wsp><Tgen>,[<Count>]
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Count:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current burst count is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the burst count.
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, BURS
	SOUR:DATA:TEL:ETH:STR:BURS:COUN 1, 50
	SOUR:DATA:TEL:ETH:STR:BURS:COUN? 1
	Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BURSt:BANDwidth?

:SOURce:DATA:TELecom:ETHernet:STReam:BURSt:TIME

Description	This command sets the burst period for the selected traffic stream.
	At *RST condition, this value is set to 1000.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Shaping > Period
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BURSt:TIME <wsp><Tgen>, <Period>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Period:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the burst time.
	Choices are 1 to 8000 milliseconds.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Count>
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, BURS
	SOUR:DATA:TEL:ETH:STR:BURS:TIME 1, 50
	SOUR:DATA:TEL:ETH:STR:BURS:TIME? 1
	Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BURSt:COUNt

:SOURce:DATA:TELecom:ETHernet:STReam:BURSt:TIME?

Description	This query returns the duration of burst for the selected traffic stream.
	At *RST condition, this value is set to 1000.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Shaping > Period
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BURSt:TIME? <wsp><Tgen>,[<Period>]
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Period:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current burst period is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Time>
Response(s)	**Time**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns burst time.
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, BURS
	SOUR:DATA:TEL:ETH:STR:BURS:TIME 1, 50
	SOUR:DATA:TEL:ETH:STR:BURS:TIME? 1
	Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BURSt:COUNt?

:SOURce:DATA:TELecom:ETHernet:STReam:RAMP:COUNt

Description	This command sets the ramp cycle count for the selected traffic stream.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Shaping > Ramp Cycle Count
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:RAMP:COUNt <wsp><Tgen>, <Count>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Count:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the ramp cycle count. Choices are 1 through 225.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Time>
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, RAMP
	SOUR:DATA:TEL:ETH:STR:RAMP:COUN 1, 20
	SOUR:DATA:TEL:ETH:STR:RAMP:COUN? 1
	Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BURSt:COUNt?

:SOURce:DATA:TELecom:ETHernet:STReam:RAMP:COUNt?

Description	This query returns the number of ramp cycle count for the selected traffic stream.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Shaping > Ramp Cycle Count
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:RAMP:COUNt? <wsp><Tgen>,[<Count>]
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Count:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current value is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the ramp count value.
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, RAMP
	SOUR:DATA:TEL:ETH:STR:RAMP:COUN 1, 20
	SOUR:DATA:TEL:ETH:STR:RAMP:COUN? 1
	Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MODE

:SOURce:DATA:TELecom:ETHernet:STReam:RAMP:STEP

Description	This command sets the number of ramp steps for the selected traffic stream.
	At *RST condition, this value is set to 10.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Shaping > Ramp Nb. Of Steps
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:RAMP:STEP <wsp><Tgen>, <Step>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Step:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Set the step for the ramp. Choices are 2 through 100.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Count>
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, RAMP
	SOUR:DATA:TEL:ETH:STR:RAMP:STEP 1, 50
	SOUR:DATA:TEL:ETH:STR:RAMP:STEP? 1
	Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MODE

:SOURce:DATA:TELecom:ETHernet:STReam:RAMP:STEP?

Description	This query returns the number of ramp steps for the selected traffic stream.
	At *RST condition, this value is set to 10.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Shaping > Ramp Nb. Of Steps
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:RAMP:STEP? <wsp><Tgen>,[<Step>]
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Step:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current value is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Step>
Response(s)	**Step**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the ramp step value.
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, RAMP
	SOUR:DATA:TEL:ETH:STR:RAMP:STEP 1, 50
	SOUR:DATA:TEL:ETH:STR:RAMP:STEP? 1
	Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MODE?

:SOURce:DATA:TELecom:ETHernet:STReam:RAMP:TIME

Description	This command sets the ramp step time for the selected traffic stream.
	At *RST condition, this value is set to 1000.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Shaping > Step Time
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:RAMP:TIME <wsp><Tgen>, <Time>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Time:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Set the ramp step time. Choices are 100 through 8000 milliseconds.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Step>
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, RAMP
	SOUR:DATA:TEL:ETH:STR:RAMP:TIME 1, 5
	SOUR:DATA:TEL:ETH:STR:RAMP:TIME? 1
	Returns: 5
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BURSt:TIME

:SOURce:DATA:TELecom:ETHernet:STReam:RAMP:TIME?

Description	This query returns the ramp step time for the selected traffic stream.
	At *RST condition, this value is set to 1000.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Shaping - Shaping > Step Time
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:RAMP:TIME? <wsp><Tgen>,[<Time>]
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Time:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current value is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Time>
Response(s)	**Time**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the ramp step time.
Example(s)	SOUR:DATA:TEL:ETH:STR:MODE 1, RAMP
	SOUR:DATA:TEL:ETH:STR:RAMP:TIME 1, 5
	SOUR:DATA:TEL:ETH:STR:RAMP:TIME? 1
	Returns: 5
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BURSt:TIME?

Streams - Global

:FETCh:DATA:TELecom:ETHernet:STReam:BATCh:COPY:SYNC: PROGress?

Description	This query returns the progress of copy triggered for batch Configuration.
	This is an event so no *RST condition.
	Navigation Path: Traffic Gen & Mon/EtherSAM > Setup > Streams > Global > Addressing > Batch > Apply To
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:BATCh:COPY:SYNC:PROGress?
Response Syntax	<Progress>
Response(s)	**Progress**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the progress of copy.
Example(s)	FETC:DATA:TEL:ETH:STR:BATC:COPY:SYNC:PROG?
See Also	FETCh:DATA:TELecom:GFP:ALARm:FRAMe:CURRent?

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:COPY

Description	This command selects all, unselect all, or invert the stream selection for batch configuration.
	This is an event so no *RST condition.
	Navigation Path: Traffic Gen & Mon/EtherSAM > Setup > Streams > Global > Addressing MAC/IP > Batch > (Un)Select All / Invert
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:COPY <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the streams for copy.
	SELECTALL: Selects all streams
	UNSELECTALL: Deselects all streams
	INVERT: Invert the stream selection
Response Syntax	<Progress>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:COPY SELECTALL
	Selects all the streams for copying
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:COPY:APPLy

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:COPY:APPLy

Description	This command apply trigger copy to all selected stream for batch Configuration.
	This is an event so no *RST condition.
	Navigation Path: Traffic Gen & Mon/EtherSAM > Setup > Streams > Global > Addressing > Batch > Apply To
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:COPY:APPLy
Response Syntax	<Progress>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:COPY:APPL
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:COPY

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:COPY:STReam

Description	This command enable/disable stream(s) for batch Configuration.
	At *RST condition, this value is set to OFF.
	Navigation Path: Traffic Gen & Mon/EtherSAM > Setup > Streams/Services > Global > Addressing > Batch > Stream/Service 1 to 16
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:COPY:STReam <wsp><Stream/Service>, <Set>
Parameter(s)	**Stream/Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Select the stream.
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enable or disable the stream/service.
	ON, enables the stream.
	OFF, disables the stream.
Response Syntax	<Progress>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATCH:COPY:STR 1,ON
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DEFault:GATeway:IP

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:COPY:STReam?

Description	This query returns the enabled streams for batch Configuration.
	At *RST condition, this value is set to OFF.
	Navigation Path: Traffic Gen & Mon/EtherSAM > Setup > Streams > Global > Addressing > Batch > Stream 1 to 16
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:COPY:STReam?
Response Syntax	<result>
Response(s)	**result**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the all selected streams
Example(s)	SOUR:DATA:TEL:ETH:STR:BATCH:COPY:STR 1,ON
	SOUR:DATA:TEL:ETH:STR:BATCH:COPY:STR?
	Returns: Enabled Stream = 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DEFault:GATeway:IP?

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DEFault:GATeway:ENABle

Description	This command enables/disables the Default gateway for batch Configuration.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Source IP address - Set to - Default gateway
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DEFault:GATeway:ENABle<wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<result>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEF:GAT:ENAB ON
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP:ENABle

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DEFault:GATeway:ENABle?

Description	This query returns the status of the Default gateway for batch Configuration.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Source IP address - Set to - Default gateway
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DEFault:GATeway:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEF:GAT:ENAB ON
	SOUR:DATA:TEL:ETH:STR:BATC:DEF:GAT:ENAB?
	Return: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP:ENABle?

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DEFault:GATeway:IP

Description	This command sets the Default gateway IP Address for batch Configuration.
	At *RST condition, this value is set to 0.0.0.0.
	Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Source IP address - Set to - Default gateway
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DEFault:GATeway:IP <wsp><address>
Parameter(s)	**address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the Default gateway IP Address.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEF:GAT:IP 10.10.10.10
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DEFault:GATeway:IP?

Description	This query returns the Default gateway IP Address for batch Configuration.
	At *RST condition, this value is set to 0.0.0.0.
	Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Source IP address - Set to - Default gateway
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DEFault:GATeway:IP?
Response Syntax	<address>
Response(s)	**address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Default gateway IP address.
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEF:GAT:IP 10.10.10.10
	SOUR:DATA:TEL:ETH:STR:BATC:DEF:GAT:IP?
	Returns: 10.10.10.10
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP?

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:IP

Description	This command sets the Destination IP Address for batch Configuration.
	At *RST condition, this value is set to 10.10.0.0.
	Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Destination IP address - IP Address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:IP <wsp><address>
Parameter(s)	**address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the Destination IP Address.
Response Syntax	<address>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEST:IP 10.10.10.10
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:IP:ENABle

Description	This command enables/disables the Destination IP Address group for batch Configuration.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Destination IP address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:IP:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<address>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEST:IP:ENAB ON
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:ENABle

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:IP:ENABle?

Description	This query returns the status of the Destination IP Address group for batch Configuration.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Destination IP address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:IP:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEST:IP:ENAB ON
	SOUR:DATA:TEL:ETH:STR:BATC:DEST:IP:ENAB?
	Return: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:ENABle?

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:IP?

Description	This query returns the Destination IP Address for batch Configuration.
	At *RST condition, this value is set to 10.10.0.0.
	Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Destination IP address - IP Address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:IP?
Response Syntax	<address>
Response(s)	**address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Destination IP address.
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEST:IP 10.10.10.10
	SOUR:DATA:TEL:ETH:STR:BATC:DEST:IP?
	Returns: 10.10.10.10
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP?

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:ADDRess

Description	This command sets the Destination MAC address for batch Configuration.
	At *RST condition, this value is set to 00:00:00:00:00:00.
	Navigation Path: Traffic Gen & Mon/EtherSAM > Setup > Streams > Global > Addressing > Batch > Destination MAC address - MAC address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:ADDRess <wsp><address>
Parameter(s)	**address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the Destination MAC address.
Response Syntax	<address>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEST:MAC:ADDR 00:AA:DD:CC:11:00
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:SUBNet:MASK

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:ADDRess?

Description	This query returns the Destination MAC address for batch Configuration.
	At *RST condition, this value is set to 00:00:00:00:00:00.
	Navigation Path: Traffic Gen & Mon/EtherSAM > Setup > Streams > Global > Addressing > Batch > Destination MAC address - MAC addres
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:ADDRess?
Response Syntax	<address>
Response(s)	**address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Destination MAC address.
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEST:MAC:ADDR 00:AA:DD:CC:11:00
	SOUR:DATA:TEL:ETH:STR:BATC:DEST:MAC:ADDR?
	Returns: 00:AA:DD:CC:11:00
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:SUBNet:MASK?

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:ENABle

Description	This command enables/disables the Destination MAC address group for batch Configuration.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Destination MAC address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<address>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEST:MAC:ENAB ON
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP:ENABle

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:ENABle?

Description	This query returns the status of the Destination MAC address group for batch Configuration.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Destination MAC address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEST:MAC:ENAB ON
	SOUR:DATA:TEL:ETH:STR:BATC:DEST:MAC:ENAB?
	Return: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP:ENABle?

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTinati on:MAC:TYPE

Description	This command sets the Destination MAC address type for batch Configuration.
	At *RST condition, this value is set to Resolve.
	Navigation Path: Traffic Gen & Mon/EtherSAM > Setup > Streams > Global > Addressing > Batch > Destination MAC address - Resolve / Set to
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:TYPE <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Destination MAC address type.
	RESOLVE: Resolve.
	STATICMAC: Static MAC.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEST:MAC:TYPE RESOLVE
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:ADDRess:TYPE

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTinati on:MAC:TYPE?

Description	This query returns the Destination MAC address type for batch Configuration.
	At *RST condition, this value is set to Resolve.
	Navigation Path: Traffic Gen & Mon/EtherSAM > Setup > Streams > Global > Addressing > Batch > Destination MAC address - Resolve / Set to
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:TYPE?
Response Syntax	<set>
Response(s)	**set**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Destination MAC address type.
	RESOLVE, Resolve as Destination MAC address type.
	STATICMAC, Set to as Destination MAC address type.
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:DEST:MAC:TYPE RESOLVE
	SOUR:DATA:TEL:ETH:STR:BATC:DEST:MAC:TYPE?
	Returns: RESOLVE
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:ADDRess:TYPE?

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:ADDRess:TYPE

Description	This command sets the Source IP Address type for batch Configuration.
	At *RST condition, this value is set to Couple with Interface.
	Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Source IP address - Couple with Interface / Automatic IP (DHCP) / Set to
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:ADDRess:TYPE <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Source IP Address type.
	COUPLEWITHINTERFACE: Couple With Interface.
	DHCP: Automatic IP (DHCP).
	STATICIP: Static IP
Response Syntax	<set>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:SOUR:ADDR:TYPE DHCP
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:TYPE

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:ADDRess:TYPE?

Description	This query returns the Source IP Address type for batch Configuration.
	At *RST condition, this value is set to Couple with Interface.
	Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Source IP address - Couple with Interface / Automatic IP (DHCP) / Set to
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:ADDRess:TYPE?
Response Syntax	<set>
Response(s)	**set**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Source IP Address type.
	COUPLEWITHINTERFACE, Couple With Interface as Source IP Address type.
	DHCP, Automatic IP (DHCP) as Source IP Address type.
	STATICIP, Set to as Source IP Address type.
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:SOUR:ADDR:TYPE DHCP
	SOUR:DATA:TEL:ETH:STR:BATC:SOUR:ADDR:TYPE?
	Returns: DHCP
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:MAC:TYPE?

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP

Description	This command sets the Source IP Address for batch Configuration.
	At *RST condition, this value is set to 10.10.0.0.
	Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Source IP address - Set to - IP Address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP <wsp><address>
Parameter(s)	**address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the Source IP Address.
Response Syntax	<set>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:SOUR:IP 10.10.10.10
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:IP

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP :ENABle

Description	This command enables/disables the Source IP Address group for batch Configuration.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Source IP address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<set>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:SOUR:IP:ENAB ON
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:IP:ENABle

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP :ENABle?

Description	This query returns the status of the Source IP Address group for batch Configuration.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Source IP address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:SOUR:IP:ENAB ON
	SOUR:DATA:TEL:ETH:STR:BATC:SOUR:IP:ENAB?
	Return: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:IP:ENABle?

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP?

Description	This query returns the Source IP Address for batch Configuration.
	At *RST condition, this value is set to 10.10.0.0.
	Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Source IP address - Set to - IP Address
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:IP?
Response Syntax	<address>
Response(s)	**address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Source IP address.
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:SOUR:IP 10.10.10.10
	SOUR:DATA:TEL:ETH:STR:BATC:SOUR:IP?
	Returns: 10.10.10.10
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DESTination:IP?

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:SUBNet:MASK

Description	This command sets the Subnet mask Address for batch Configuration.
	At *RST condition, this value is set to 255.255.0.0.
	Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Source IP address - Set to - Subnet mask
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:SUBNet:MASK <wsp><address>
Parameter(s)	**address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the Subnet mask Address.
Response Syntax	<address>
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:SOUR:SUBN:MASK 255.255.255.0
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DEFault:GATeway:IP

:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:SUBNet:MASK?

Description	This query returns the Subnet mask Address for batch Configuration.
	At *RST condition, this value is set to 255.255.0.0.
	Navigation Path: Setup > Test Configurator > Streams > Global > Addressing MAC/IP > Batch > Source IP address - Set to - Subnet mask
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:BATCh:SOURce:SUBNet:MASK?
Response Syntax	<address>
Response(s)	**address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Subnet mask address.
Example(s)	SOUR:DATA:TEL:ETH:STR:BATC:SOUR:SUBN:MASK 255.255.255.0
	SOUR:DATA:TEL:ETH:STR:BATC:SOUR:SUBN:MASK?
	Returns: 255.255.255.0
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:DEFault:GATeway:IP?

:SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:QOSMetrics:ENABle

Description	This command enables/disables the QoS Metrics Tag Insertion.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Streams > Global > Global Options - QoS Metrics Tags Insertion
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:QOSMetrics:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<address>
Example(s)	SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:QOSMetrics:ENABle ON
See Also	SOURce:DATA:TEL:ETH:STR:PROFile:RATE

:SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:QOSMetrics:ENABle?

Description	This query return status of the QoS Metrics Tag Insertion setting.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Streams > Global > Global Options - QoS Metrics Tags Insertion
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:QOSMetrics:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:QOSMetrics:ENABle ON
	SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:QOSMetrics:ENABle?
	Returns: 1
See Also	SOURce:DATA:TEL:ETH:STR:PROFile:RATE?

:SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:RESTore: DEFault

Description	This command restores the stream configuration to default values.
	This is action command so no default values.
	Navigation Path: Setup > Test Configurator > Streams > Global > Restore Default
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:RESTore:DEFault
Response Syntax	<Status>
Example(s)	SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:RESTore:DEFault
See Also	SOURce:DATA:TELecom:OTN:REStore:DEFault
	SOURce:DATA:TELecom:ETHernet:ESAM:RESTore:DEFault
	SOURce:DATA:TELecom:ETHernet:RFC:RESTore:DEFault
	SOURce:DATA:TELecom:RESTore:DEFault

:SOURce:DATA:TELecom:ETHernet:STReam:NAME

Description	This command sets the stream name for selected traffic stream.
	At *RST condition, this value is set to Stream 1 for first stream.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Stream Name
	Navigation Path: Setup > Test Configurator > Streams > Global > Stream Name
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:NAME[<wsp><Tgen>], <Name>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Name:
	The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the name for selected stream.
Response Syntax	<Status>
Example(s)	SOURce:DATA:TELecom:ETHernet:STReam:NAME 1, streamA
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:RATE?

:SOURce:DATA:TELecom:ETHernet:STReam:NAME?

Description	This query returns stream name for the selected traffic stream.
	At *RST condition, this value is set to Stream 1 for first stream.
	Navigation Path: Setup > Test Configurator > Streams > Profile > Stream Name
	Navigation Path: Setup > Test Configurator > Streams > Global > Stream Name
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:NAME?[<wsp><Tgen>]
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Name>
Response(s)	**Name**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the name for selected stream
Example(s)	SOURce:DATA:TELecom:ETHernet:STReam:NAME 1, streamA
	SOURce:DATA:TELecom:ETHernet:STReam:NAME? 1
	Returns: streamA
See Also	SOURce:DATA:TELecom:ETHernet:STReam:PROFile:RATE

Streams - Global (Copy Stream)

:SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:COPYstream

Description	This command copies the stream/service configuration of source stream/service to destination stream/service. There is no *RST value for this command. Navigation Path: Setup > Test Configurator > Streams/Services > Global > Copy Stream/Service > Copy Stream / To the following Streams/Services / Copy
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:COPYstream[<wsp><Source>], <Destination>
Parameter(s)	**Source**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the source stream/service from 1 to 16. **Destination**: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the destination stream/service from 1 to 16.
Response Syntax	<Frame Size>
Example(s)	SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:COPYstream 1, 2
See Also	SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:RESTore:DEFault

SyncE

:FETCh:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:ESMC?

Description	This query returns ESMC link status.
	At *RST condition, this value is set to down.
	Navigation Path: Setup > Test Configurator > SyncE > ESMC Monitoring - ESMC
Syntax	:FETCh:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:ESMC?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns ESMC link status
Example(s)	FETCh:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:ESMC?
See Also	FETCh:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:RECeivedql?

:FETCh:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:RECeivedql?

Description	This query returns Received QL.
	At *RST condition, this value is set to 1 second.
	Navigation Path: Setup > Test Configurator > SyncE > ESMC Monitoring - Received QL
Syntax	:FETCh:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:RECeivedql?
Response Syntax	<Received QL>
Response(s)	**Received QL**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns Received QL.
Example(s)	FETCh:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:RECeivedql?
See Also	FETCh:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:ESMC?

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:GENerated:QLENable

Description	This command enables/disables the Generated QL setting.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > SyncE > ESMC Generation - Generated QL
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:GENerated:QLENable <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Received QL>
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:GEN:GEN:QLEN ON
	SOUR:DATA:TEL:PACK:SYNC:ESMC:GEN:GEN:QLEN?
	Returns: 1
See Also	SOURce:DATA:TELecom:SONet:OH:LINE:OVERwrite:ENABled

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENerati on:GENerated:QLENable?

Description	This query returns the status of the Generated QL setting.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > SyncE > ESMC Generation - Generated QL
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:GENerated:QLENable?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns ESMC QL Enable
	0, Returns ESMC QL Enable
	1, Returns ESMC QL Disables
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:GEN:GEN:QLEN ON
	SOUR:DATA:TEL:PACK:SYNC:ESMC:GEN:GEN:QLEN?
	Returns: 1
See Also	SOURce:DATA:TELecom:SONet:OH:LINE:OVERwrite:ENABled?

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENerati on:GENerated:QLValue

Description	This command set the Generated QL value.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > SyncE > ESMC Generation - Generated QL
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:GENerated:QLValue <wsp><QL Value>
Parameter(s)	**QL Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Quality Level/PTP Clock Class
	QLPRS: QL-PRS (default) 80 Primary Reference Source Traceable (G.811)
	QLSTUUNK: QL-STU/UNK 82 Synchronized
	QLPRC: QL-PRC 84 Primary Reference Clock Traceable (G.811)
	QLST2: QL-ST2 86 Traceable to Stratum 2 (G.812 Type II)
	QLINV3: QL-INV3 88 Quality Level Invalid 3
	QLSSUATNC: QL-SSU-A/TNC 90 Type I or V slave clock (G.812)
	Traceable to Transit Node Clock (G.812 Type V)
	QLINV5: QL-INV5 92 Quality Level Invalid 5
	QLINV6: QL-INV6 94 Quality Level Invalid 6
	QLSSUB: QL-SSU-B 96 Type VI slave clock (G.812)
	QLINV9: QL-INV9 98 Quality Level Invalid 9
	QLST3E: QL-ST3E 100 Traceable to Stratum 3E (G.812 Type III)
	QLEEC2ST3: QL-EEC2/ST3 102 Ethernet
	Traceable to Stratum 3 (G.812 Type IV)
	QLEEC1SEC: QL-EEC1/SEC 104 Ethernet
	Synchronous Equipment Clock (G.813 or G.8262, Option 1)
	QLSMC: QL-SMC 106 Traceable to SONET Minimum Clock (G.813 or G.8262, Option 2)
	QLPROV: QL-PROV 108 Provisionable by the Network Operator (PNO)
	QLDNUDUS: QL-DNU/DUS 110 Do Not Use
	Do Not Use for Synchronization

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:GENerated:QLValue

Response Syntax	\<Status\>
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:GEN:GEN:QLV QLSTUUNK
	SOUR:DATA:TEL:PACK:SYNC:ESMC:GEN:GEN:QLV?
	Returns: QLSTUUNK
See Also	SOURce:DATA:TELecom:OTN:OTL:GLOBal:ALARm:TYPE

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:GENerated:QLValue?

Description	This query returns the Generated QL value.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > SyncE > ESMC Generation - Generated QL
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:GENerated:QLValue?
Response Syntax	<QL Value>
Response(s)	**QL Value**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns ESMC QL Value
	QL-PRS,Returns QL-PRS as Quality Level
	QL-STU/UNK,Returns QL-STU/UNK as Quality Level
	QL-PRC,Returns QL-PRC as Quality Level
	QL-ST2, Returns QL-ST2 as Quality Level
	QL-INV3,Returns QL-INV3 as Quality Level
	QL-SSU-A/TNC 90, Returns QL-SSU-A/TNC as Quality Level
	QL-INV5,ReturnsQL-INV5 as Quality Level
	QL-INV6,Returns QL-INV6 as Quality Level
	QL-SSU-B,Returns QL-SSU-B as Quality Level
	QL-INV9,Returns QL-INV9 as Quality Level
	QL-ST3E,Returns QL-ST3E as Quality Level
	QL-EEC2/ST3, Returns QL-EEC2/ST3 as Quality Level
	QL-EEC1/SEC,Returns QL-EEC1/SEC as Quality Level
	QL-SMC 106,Returns QL-SMC 106 as Quality Level
	QL-PROV 108, Returns QL-PROV 108 as Quality Level
	QL-DNU/DUS, Returns QL-DNU/DUS as Quality Level
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:GEN:GEN:QLV QLSTUUNK
	SOUR:DATA:TEL:PACK:SYNC:ESMC:GEN:GEN:QLV?
	Returns: QLSTUUNK
See Also	SOURce:DATA:TELecom:OTN:OTL:GLOBal:ALARm:TYPE?

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:QLRate

Description	This command set the QL Rate.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > SyncE > ESMC Generation - QL Rate
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:QLRate <wsp><QL Rate>
Parameter(s)	**QL Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Rate of Quality Level/PTP Clock Class
Response Syntax	<QL Value>
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:GEN:QLR 1
	SOUR:DATA:TEL:PACK:SYNC:ESMC:GEN:QLR?
	Returns: 1
See Also	SOURce:DATA:TEL:PACK:SYNC:ESMC:GEN:GEN:QLV

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:QLRate?

Description	This query returns the QL Rate value.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > SyncE > ESMC Generation - QL Rate
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:QLRate?
Response Syntax	<QL Rate>
Response(s)	**QL Rate**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns ESMC QL Rate
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:GEN:QLR 1
	SOUR:DATA:TEL:PACK:SYNC:ESMC:GEN:QLR?
	Returns: 1
See Also	SOURce:DATA:TEL:PACK:SYNC:ESMC:GEN:GEN:QLV?

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:EXPectedql

Description	This command set the Expected QL.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > SyncE > ESMC Monitoring - Expected QL
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:EXPectedql<wsp><Expected QL>
Parameter(s)	**Expected QL**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Quality Level/PTP Clock Class
	QLPRS: QL-PRS (default) 80 Primary Reference Source Traceable (G.811)
	QLSTUUNK: QL-STU/UNK 82 Synchronized
	QLPRC: QL-PRC 84 Primary Reference Clock Traceable (G.811)
	QLST2: QL-ST2 86 Traceable to Stratum 2 (G.812 Type II)
	QLINV3: QL-INV3 88 Quality Level Invalid 3
	QLSSUATNC: QL-SSU-A/TNC 90 Type I or V slave clock (G.812)
	Traceable to Transit Node Clock (G.812 Type V)
	QLINV5: QL-INV5 92 Quality Level Invalid 5
	QLINV6: QL-INV6 94 Quality Level Invalid 6
	QLSSUB: QL-SSU-B 96 Type VI slave clock (G.812)
	QLINV9: QL-INV9 98 Quality Level Invalid 9
	QLST3E: QL-ST3E 100 Traceable to Stratum 3E (G.812 Type III)
	QLEEC2ST3: QL-EEC2/ST3 102 Ethernet
	Traceable to Stratum 3 (G.812 Type IV)
	QLEEC1SEC: QL-EEC1/SEC 104 Ethernet
	Synchronous Equipment Clock (G.813 or G.8262, Option 1)
	QLSMC: QL-SMC 106 Traceable to SONET Minimum Clock (G.813 or G.8262, Option 2)
	QLPROV: QL-PROV 108 Provisionable by the Network Operator (PNO)
	QLDNUDUS: QL-DNU/DUS 110 Do Not Use for Synchronization

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:EXPectedql

Response Syntax	<QL Rate>
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:EXP QLSTUUNK
	SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:EXP?
	Returns: QLSTUUNK
See Also	SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:QLMismatch

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:EXPectedql?

Description	This query returns the Expected QL.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > SyncE > ESMC Monitoring - Expected QL
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:EXPectedql?
Response Syntax	<Expected QL>
Response(s)	**Expected QL**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns Expected QL
	QL-PRS, returns QL-PRS as Quality Level
	QL-STU/UNK, returns QL-STU/UNK as Quality Level
	QL-PRC, returns QL-PRC as Quality Level
	QL-ST2, returns QL-ST2 as Quality Level
	QL-INV3, returns QL-INV3 as Quality Level
	QL-SSU-A/TNC 90, returns QL-SSU-A/TNC as Quality Level
	QL-INV5, returns QL-INV5 as Quality Level
	QL-INV6, returns QL-INV6 as Quality Level
	QL-SSU-B, returns QL-SSU-B as Quality Level
	QL-INV9, returns QL-INV9 as Quality Level
	QL-ST3E, returns QL-ST3E as Quality Level
	QL-EEC2/ST3, returns QL-EEC2/ST3 as Quality Level
	QL-EEC1/SEC, returns QL-EEC1/SEC as Quality Level
	QL-SMC 106, returns QL-SMC 106 as Quality Level
	QL-PROV 108, returns QL-PROV 108 as Quality Level
	QL-DNU/DUS, returns QL-DNU/DUS as Quality Level
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:EXP QLSTUUNK
	SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:EXP?
	Returns: QLSTUUNK
See Also	SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:QLMismatch?

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:PASSfail:VERDict

Description	This command enables/disables the Pass/Fail Verdict.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > SyncE > ESMC Monitoring - Pass/Fail Verdict
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:PASSfail:VERDict <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Expected QL>
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:PASS:VERD ON
	SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:PASS:VERD?
	Returns: 1
See Also	SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:GENerated:QLENable

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:PASSfail:VERDict?

Description	This query returns the status of the Pass/Fail Verdict setting.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > SyncE > ESMC Monitoring - Pass/Fail Verdict
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:PASSfail:VERDict?
Response Syntax	<Verdict Status>
Response(s)	**Verdict Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns Pass/Fail Verdict
	0, Returns Pass/Fail Verdict OFF
	1, Returns Pass/Fail Verdict ON
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:PASS:VERD ON
	SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:PASS:VERD?
	Returns: 1
See Also	SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:GENeration:GENerated:QLENable?

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:QLMismatch

Description	This command enables/disables the QL Mismatch Monitoring.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > SyncE > ESMC Monitoring - QL Mismatch Monitoring
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:QLMismatch <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Verdict Status>
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:QLM ON
See Also	SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:EXPectedql

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:QLMismatch?

Description	This query returns the status of QL Mismatch Monitoring setting.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > SyncE > ESMC Monitoring - QL Mismatch Monitoring
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:QLMismatch?
Response Syntax	<QL Mismatch>
Response(s)	**QL Mismatch**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns QL Mismatch Monitoring
	0, Returns QL Mismatch OFF
	1, Returns QL Mismatch ON
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:QLM ON
	SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:QLM?
	Returns: 1
See Also	SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:EXPectedql?

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:RATE:THReshold

Description	This command enables/disables the ESMC Rate Threshold.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > SyncE > ESMC Monitoring - ESMC Rate threshold
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:RATE:THReshold <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<QL Mismatch>
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:RATE:THR ON
	SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:RATE:THR?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ALARm:THReshold

:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:RATE:THReshold?

Description	This query returns the status of ESMC Rate Threshold setting.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > SyncE > ESMC Monitoring - ESMC Rate threshold
Syntax	:SOURce:DATA:TELecom:PACKetsync:SYNCe:ESMC:MONitoring:RATE:THReshold?
Response Syntax	<Rate Threshold>
Response(s)	**Rate Threshold**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns ESMC Rate Threshold.
	0, returns ESMC Rate Threshold OFF
	1, returns ESMC Rate Threshold ON
Example(s)	SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:RATE:THR ON
	SOUR:DATA:TEL:PACK:SYNC:ESMC:MON:RATE:THR?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ALARm:THReshold?

Services - Profile

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:PROFile:SERVice:ENABle

Description	This command enables/disables the selected service.
	This command is not associated with any *RST condition.
	Navigation Path: Setup > Test Configurator > Services > Profile > Service - Enable
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:PROFile:SERVice:ENABle <wsp><Service>, <Status>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Status:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Bandwidth>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:PROFile:SERVice:ENABle 1, ON
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:TESTs

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:PROFile:SERVice:ENABle?

Description	This query returns the enable/disable status of the selected Service.
	This query is not associated with any *RST condition.
	Navigation Path: Setup > Test Configurator > Services > Profile > Service - Enable
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:PROFile:SERVice:ENABle? <wsp><Service>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:PROFile:SERVice:ENABle 1, ON
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:PROFile:SERVice:ENABle? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:TESTs?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:EMIX:FRAMesize

Description	This command sets the frame sizes for the selected service.
	This command is not associated with *RST condition.
	Navigation Path: Setup > Test Configurator > Services > Profile > Profile - EMIX > EMIX Frame SIzes
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:EMIX:FRAMesize <wsp><Service>, <EMIX frame>, <Size>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	EMIX frame:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the EMIX Frame.
	Size:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the EMIX Frame size.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Status>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:EMIX:FRAMesize 1, 1, 64
See Also	SOURce:DATA:TEL:ETH:STR:FRAM:SIZE?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:F RASize:EMIX:FRAMesize?

Description	This query returns the frame sizes for the selected service.
	This query is not associated with *RST condition.
	Navigation Path: Setup > Test Configurator > Services > Profile > Profile - EMIX > EMIX Frame Sizes
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:EMIX:FRAMesize? <wsp><Service>, <EMIX frame>,[<Size>]
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	EMIX frame:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the EMIX Frame.
	Size:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the EMIX Frame size.
	This parameter is optional. If no token is specified, the current EMIX frame size value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<FrameSize>

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:F RASize:EMIX:FRAMesize?

Response(s)	**FrameSize**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the frame size of emix frames for selected service.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:EMIX:FRAMesize 1, 1, 64
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:EMIX:FRAMesize? 1, 1
	Returns: 64
See Also	SOURce:DATA:TEL:ETH:STR:FRAM:SIZE

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:QUANtity

Description	This command sets the quantity of EMIX frame sizes for selected service.
	At *RST condition, the value is set to 2.
	Navigation Path: Setup > Test Configurator > Services > Profile > Profile - EMIX > Quantity
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:QUANtity <wsp><Service>, <Quantity>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Quantity:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the quantity of frames.
Response Syntax	<FrameSize>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:QUANtity 1, 5
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:EMIX:FRAMesize

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:QUANtity?

Description	This query returns the quantity of EMIX frame sizes for selected service.
	At *RST condition, the value is set to 2.
	Navigation Path: Setup > Test Configurator > Services > Profile > Profile - EMIX > Quantity
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:QUANtity? <wsp><Service>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
Response Syntax	<Quantity>
Response(s)	**Quantity**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the quantity of EMIX frames for selected service.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:QUANtity 1, 5
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:QUANtity? 1
	Returns: 5
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:SERVices:FRASize:EMIX:FRAMesize?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:RESDefault

Description	This command restores the EMIX configuration to default settings for the selected service. This command is not associated with any *RST condition. Navigation Path: Setup > Test Configurator > Services > Profile > Profile - EMIX > Restore Default
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:RESDefault <wsp><Service>
Parameter(s)	**Service**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10.
Response Syntax	<Quantity>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:RESDefault 1
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:QUANtity

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe

Description	This command sets the CBS and EBS burst sizes for selected service.
	At *RST condition, the value is set to 12144.
	Navigation Path: Setup > Test Configurator > Services > Profile > SLA Parameters - Burst Size
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe <wsp><Service>, <Direction>, <Burst Size Type>, <Size>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Burst Size Type:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the type of Burst.
	CBS
	EBS
	Size:
	The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the burst size.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe

Response Syntax	<Quantity>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe 1, LTOR,cbs,2050
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZE:ENABle

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe:ENABle

Description	This command enables/disables the CBS and EBS Burst Size for selected service.
	At *RST condition CBS is enabled and EBS is disabled.
	Navigation Path: Setup > Test Configurator > Services > Profile > SLA Parameters - Burst Size
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe:ENABle <wsp><Service>, <Burst Size Type>, <Status>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Burst Size Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the type of Burst.
	CBS: EBS as the type of Burst.
	Status:
	The program data syntax for the third parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Quantity>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe:ENABle 1, CBS, ON
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe:ENABle? 1, CBS
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:SERVices:SLAParameter:BSIZE

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe:ENABle?

Description	This query returns the enable/disable status of CBS and EBS Burst Size for selected service.
	At *RST condition CBS is enabled and EBS is disabled.
	Navigation Path: Setup > Test Configurator > Services > Profile > SLA Parameters - Burst Size
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe:ENABle? <wsp><Service>, <Burst Size Type>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Burst Size Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the type of Burst.
	CBS
	EBS
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe:ENABle 1, CBS, ON
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe:ENABle? 1, CBS
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZE?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe?

Description	This query returns the CBS and EBS burst sizes for selected service.
	At *RST condition, the value is set to 12144.
	Navigation Path: Setup > Test Configurator > Services > Profile > SLA Parameters - Burst Size
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe? <wsp><Service>, <Direction>, <Burst Size Type>,[<Size>]

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe?

Parameter(s)	**Service**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. **Direction**: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 **Burst Size Type**: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the type of Burst. CBS EBS **Size**: The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element. Sets the burst size. This parameter is optional. If no token is specified, the current burst size value is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value.
Response Syntax	<Size>

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe?

Response(s)	Size:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the burst size for selected burst size type.
	MAXimum, Maximum is selected as the burst size.
	MINimum, Minimum is selected as the burst size.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:BSIZe? 1, LTOR,cbs
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:SERVices:SLAParameter:BSIZE:ENABle? 1, CBS

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:S LAParameter:INFRate

Description	This command sets the CIR and CIR+EIR for the selected service.
	At *RST condition, the rate is 50%* Line Rate for CIR and 75%*Line Rate for CIR+EIR.
	Navigation Path: Setup > Test Configurator > Services > Profile > SLA Parameters - CIR / CIR+EIR
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFRate <wsp><Service>, <Information Rate Type>, <Direction>, <Value>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Information Rate Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the information rate for the selected service.
	CIR: CIR (Mbit/s)
	CIREIR: EIR +CIR (Mbit/s)
	Direction:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Value:
	The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the value of the selected information rate type.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFRate

Response Syntax	\<Size\>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFR 1, CIR,LTOR,50
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:NOBSequence?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFRate:ENABle

Description	This commands enables/disables the CIR and CIR+EIR for the selected service.
	At *RST condition CIR is enabled and CIR+EIR is disabled.
	Navigation Path: Setup > Test Configurator > Services > Profile > SLA Parameters - CIR / CIR+EIR
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFRate:ENABle <wsp><Service>, <Information Rate Type>, <Status>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Information Rate Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the information rate for the selected service.
	CIR: CIR.
	CIREIR: EIR
	Status:
	The program data syntax for the third parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Size>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFR:ENABle 1, Cir,1
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:NOBSequence?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFRate:ENABle?

Description	This query returns the enable/disable status of CIR and CIR+EIR for the selected service.
	At *RST condition CIR is enabled and CIR+EIR is disabled.
	Navigation Path: Setup > Test Configurator > Services > Profile > SLA Parameters - CIR / CIR+EIR
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFRate:ENABle? <wsp><Service>, <Information Rate Type>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Information Rate Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the information rate for the selected service.
	CIR: CIR
	CIREIR: EIR
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFR:ENABle 1, CIR, 1
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFR:ENABle? 1, CIR
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:BURSt:PARameters:BIRFrame

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFRate?

Description	This query returns the CIR and CIR+EIR for the selected service.
	At *RST condition, the rate is 50%* Line Rate for CIR and 75%*Line Rate for CIR+EIR.
	Navigation Path: Setup > Test Configurator > Services > Profile > SLA Parameters - CIR / CIR+EIR
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFRate? <wsp><Service>, <Information Rate Type>, <Direction>,[<Value>]

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFRate?

Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Information Rate Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the information rate for the selected service.
	CIR: CIR (Mbit/s)
	CIREIR: EIR +CIR (Mbit/s)
	Direction:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Value:
	The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the value of the selected information rate.
	This parameter is optional. If no token is specified, the current information rate value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Value>

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFRate?

Response(s)	**Value**: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the configured value for the selected information rate type.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFR 1, CIR, LTOR, 50 SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFR? 1, CIR, LTOR Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:BURSt:PARameters:RDERatio

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:S LAParameter:PERCriteria:ENABle

Description	This command enables/diables performance criteria for the selected service.
	At *RST condition, the value is set to enabled for both direction.
	Navigation Path: Setup > Test Configurator > Services > Profile > SLA Parameters - Performance Criteria
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:ENABle <wsp><Service>, <direction>, <Type>, <Status>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Type:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the performance criteria for the selected service.
	MAXJitter, Max jitter (ms).
	MAXRTLatency, Max Round-Trip latency (ms).
	MAXFLoss, Max frame loss (%).
	Status:
	The program data syntax for the fourth parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:ENABle

Response Syntax	<Value>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:ENABle 1, LTOR,MAXJ,1
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:RDERatio?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:ENABle?

Description	This query returns the enable/disable status of performance criteria for the selected service.
	At *RST condition, the value is set to be enabled for both directions.
	Navigation Path: Setup > Test Configurator > Services > Profile > SLA Parameters - Performance Criteria
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:ENABle? <wsp><Service>, <direction>, <Type>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Type:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the performance criteria for the selected service.
	MAXJitter, Max jitter (ms).
	MAXRTLatency, Max Round-Trip latency (ms).
	MAXFLoss, Max frame loss (%).
Response Syntax	<Status>

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:ENABle?

Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:ENABle 1, LTOR,MAXJ,ON
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:ENABle? 1, LTOR,MAXJ
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:VALue

Description	This command sets performance criteria values for the selected service.
	The *RST condition the values for Jitter to 2.0ms, Latency to 15.0ms and Frame Loss to 0.1%.
	Navigation Path: Setup > Test Configurator > Services > Profile > SLA Parameters - Performance Criteria
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:VALue <wsp><Service>, <direction>, <Type>, <Value>

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:VALue

Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Type:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the performance criteria for the selected service.
	MAXJitter, Max jitter (ms).
	MAXRTLatency, Max Round-Trip latency (ms).
	MAXFLoss, Max frame loss (%).
	Value:
	The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the performance criteria values for the selected service.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:VALue

Response Syntax	\<Status\>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:VALue 1, LTOR,MAXJ,1000
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:SERVices:VLAN?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:S LAParameter:PERCriteria:VALue?
Description	This query returns the performance criteria values for the selected service.
	At *RST condition the values for Jitter to 2.0ms, Latency to 15.0ms & Frame Loss to 0.1%.
	Navigation Path: Setup > Test Configurator > Services > Profile > SLA Parameters - Performance Criteria
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:VALue? <wsp><Service>, <direction>, <Type>,[<DEFault: Default value>]

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:S LAParameter:PERCriteria:VALue?

Parameter(s)	Service:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Type:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the performance criteria for the selected service.
	MAXJitter, Max jitter (ms).
	MAXRTLatency, Max Round-Trip latency (ms).
	MAXFLoss, Max frame loss (%).
	DEFault: Default value:
	The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current performance criteria value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Value>

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:S LAParameter:PERCriteria:VALue?

Response(s)	Value:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the configured performance criteria values for the selected service.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:VALue 1, LTOR,MAXJ,1000
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:VALUe? 1, LTOR,MAXJ
	Returns: 1000
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:VLAN

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:BMRate

Description	This command sets the Burst max rate for selected service. At *RST condition, the value is equal to Line rate. Navigation Path: Setup > Test Configurator > Services > Profile > Test Parameters - Burst Max Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:BMRate <wsp><Service>, <Direction>, <Value>
Parameter(s)	**Service**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. **Direction**: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1 **Value**: The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Burst max rate. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<Value>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:BMRate 1, LTOR,65
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:BURSt:PARameters:NOBSequence

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:BMRate?

Description	This query returns the Burst max rate for selected service.
	At *RST condition, the value is equal to Line rate.
	Navigation Path: Setup > Test Configurator > Services > Profile > Test Parameters - Burst Max Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:BMRate? <wsp><Service>, <Direction>,[<Value>]
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Value:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Burst max rate.
	This parameter is optional. If no token is specified, the current Burst max rate value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Value>

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:BMRate?

Response(s)	**Value**: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the configured Burst max rate value.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:BMRate 1, LTOR,65 SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:BMRate? 1, LTOR Returns: 65
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:NOBSequence?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:ENABle

Description	This command enables/disables Traffic policing. At *RST condition, this value is set to Enabled Navigation Path: Setup > Test Configurator > Services > Profile > Test Parameters - Traffic Policing
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:ENABle <wsp><Service>, <Status>
Parameter(s)	**Service**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. **Status**: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Value>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:ENABle 1, ON
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:SERVices:FRASize:RESDefault

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:ENABle?

Description	This query returns the enable/disable status of Traffic policing.
	At *RST condition, this value is set to Enabled
	Navigation Path: Setup > Test Configurator > Services > Profile > Test Parameters - Traffic Policing
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:ENABle? <wsp><Service>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
Response Syntax	<status>
Response(s)	**status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:ENABle 1, ON
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:ENABle? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria: ENABle

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:VALue

Description	This command sets the Traffic Policing value for the selected service.
	At *RST Condition value is set to 100 (Mbits/s)
	Navigation Path: Setup > Test Configurator > Services > Profile > Test Parameters - Traffic Policing
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:VALue <wsp><Service>, <Direction>, <Traffic Policing Value>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Traffic Policing Value:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets Traffic Policing Value for the selected Service.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:VALue

Response Syntax	<status>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:ENABle 1, 1
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:VALue 1, LTOR,99.0
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:PERCriteria:ENABle?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:VALue?

Description	This command returns the Traffic Policing value for the selected service.
	At *RST Condition value is set to 100 (Mbits/s)
	Navigation Path: Setup > Test Configurator > Services > Profile > Test Parameters - Traffic Policing
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:VALue? <wsp><Service>, <Direction>,[<Traffic Policing Value>]
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Traffic Policing Value:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current Traffic Policing Value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: default value
Response Syntax	<Value>

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:VALue?

Response(s)	Value:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Traffic policing value.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:ENABle 1, 1
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:TRAPolicing:VALue? 1, LTOR
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:TPARameter:BMRate

EtherSAM - Global

:FETCh:DATA:TELecom:ETHernet:ESAM:GLOBal:LATency:ALARm:CURRent?

Description	This query returns LOOPS alarms for One Way Latency Measurement Mode.
	Navigation Path: Test > EtherSAM > Setup > EtherSAM > Global > Global Options
	Navigation Path: Setup > Test Configurator > EtherSAM > Global > Global Options - Latency Measurement Mode - LOOPS-L/LOOPS-R
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:GLOBal:LATency:ALARm:CURRent? <wsp><Latency Measurment Mode>
Parameter(s)	**Latency Measurment Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Loss Of 1PPS Alarm type.
	LOPPSL: Loss Of 1PPS Local.
	LOPPSR: Loss Of 1PPS Remote.
Response Syntax	<Alarm Current State.>
Response(s)	**Alarm Current State.**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns theLoss Of 1PPS Alarm Current State.
Example(s)	FETCh:DATA:TEL:ETH:ESAM:GLOBal:LATency:ALARm:CURRent? LOPPSL
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MAXJitter:VERDict?

:FETCh:DATA:TELecom:ETHernet:ESAM:GLOBal:TDURation:ESTimate?

Description	This query returns the Global test duration estimate.
	Navigation Path: Setup > Test Configurator > EtherSAM > Global > Subtests - Global Test duration estimation
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:GLOBal:TDURation:ESTimate?
Response Syntax	<Duration>
Response(s)	**Duration**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	This query returns the Global test duration estimate
Example(s)	FETC:DATA:TEL:ETH:ESAM:GLOB:TDURation:EST?
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:FLOSs:VERDict?

:FETCh:DATA:TELecom:ETHernet:ESAM:NATDiscovery:LWIPaddress?

Description	This query returns the WAN IP of the local unit.
	At *RST, this value is device dependent.
	Navigation Path: Setup > Test Configurator > EtherSAM > Graphic (WAN IP address)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:NATDiscovery:LWIPaddress?
Response Syntax	<IP Address>
Response(s)	**IP Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Local WAN IP Address
Example(s)	FETC:DATA:TEL:ETH:ESAM:NATD:LWIP?
	Returns the local's WAN IP Address
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:NATDiscovery:LWIPaddress?

:FETCh:DATA:TELecom:ETHernet:ESAM:NATDiscovery:STATus?

Description	This query returns the NAT discovery status.
	At *RST, this value is device dependent.
	Navigation Path: Setup > Test Configurator > EtherSAM > Graphic (NAT discovery status)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:NATDiscovery:STATus?
Response Syntax	<Nat Status>
Response(s)	**Nat Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns NAT discovery status
Example(s)	FETC:DATA:TEL:ETH:ESAM:NATD:STAT?
	Returns the NAT discovery status
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:NATDiscovery:STATus?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:OVERview: SCOTest:TYPE

Description	This command enables/disables Ramp/Burst Service Configuration Test.
	At *RST condition the Ramp is enabled and Burst is disabled.
	Navigation Path: Setup > Test Configurator > EtherSAM > Global > Subtests - Service Configuration Test
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:OVERview:SCOTest:TYPE <wsp><Test>, <Enable>
Parameter(s)	**Test**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of Service CONFig Test.
	BURSTTest: Burst test
	RAMPTEST: Ramp test
	Enable:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the Service CONFig Test.
	ON: Enabled
	OFF: Disabled
Response Syntax	<Nat Status>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:OVERview:SCOTest:TYPE RAMPTest,OFF
See Also	SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFig:OVERview:SERVice:ENAble

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:OVERview: SCOTest:TYPE?

Description	This query returns the enable/disable status of Burst/Ramp Service Configuration Test.
	At *RST condition the Ramp is enabled and Burst is disabled.
	Navigation Path: Setup > Test Configurator > EtherSAM > Global > Subtests - Service Configuration Test
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:OVERview:SCOTest:TYPE? <wsp><Test>
Parameter(s)	**Test**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of Service CONFig Test.
	BURSTTest: Burst test
	RAMPTEST: Ramp test
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the Service Configuration Test.
	1 Service Configuration Ramp/Burst Test Enabled
	0 Service Configuration Ramp/Burst Test Disabled
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:OVERview:SCOTest:TYPE RAMPTest,ON
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:OVERview:SCOTest:TYPE? RAMPTest
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:OVERview:SERVice:ENAble?

:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:LMMode

Description	This command sets the Latency measurement mode.
	At *RST condition, the value is set to Round Trip.
	Navigation Path: Setup > Test Configurator > EtherSAM > Global > Global Options - Latency Measurement Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:LMMode <wsp><Latency Measurement Mode>
Parameter(s)	**Latency Measurement Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Latency measurement mode.
	ONEWay: One Way
	RTLATENCY: Round Trip Latency
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:ESAM:GLOB:LMM RTLATENCY
See Also	SOURce:DATA:TELecom:ETHernet:RFC:GLOBal:LMMode?

:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:LMMode?

Description	This query returns the Latency measurement mode.
	At *RST condition, the value is Round Trip.
	Navigation Path: Setup > Test Configurator > EtherSAM > Global > Global Options - Latency Measurement Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:LMMode?
Response Syntax	<Latency measurement mode>
Response(s)	**Latency measurement mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Latency measurement mode.
	ONEWAY, One way is selected as latency mode.
	RTLATENCY, Round Trip Latency is selected as latency mode.
Example(s)	SOUR:DATA:TEL:ETH:ESAM:GLOB:LMM RTLATENCY
	SOUR:DATA:TEL:ETH:ESAM:GLOB:LMM?
	Returns: RTLATENCY
See Also	SOURce:DATA:TELecom:ETHernet:RFC:GLOBal:LMMode?

:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:PDIRection: CONFig:STATus

Description	This commands eanbles/disables the Per direction configuration.
	At *RST condition value is true.
	Navigation Path: Setup > Test Configurator > EtherSAM > Global > Global Options - Per direction configuration
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:PDIRection:CONFig:STATus<wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the direction configuration status.
	ON,Enables the per direction status.
	OFF, Disables the per direction status.
Response Syntax	<Latency measurement mode>
Example(s)	SOUR:DATA:TEL:ETH:ESAM:GLOB:PDIR:CONF:STAT ON
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:MAXJitter:VERDict?

:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:PDIRection: CONFig:STATus?

Description	This query returns the on/off status of Per direction configuration.
	At *RST condition value is true.
	Navigation Path: Setup > Test Configurator > EtherSAM > Global > Global Options - Per direction configuration
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:PDIRection:CONFig:STATus?
Response Syntax	<Duration>
Response(s)	**Duration**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	This query returns the Global test duration estimate
Example(s)	SOUR:DATA:TEL:ETH:ESAM:GLOB:PDIR:CONF:STAT ON
	SOUR:DATA:TEL:ETH:ESAM:GLOB:PDIR:CONF:STAT?
	Returns: 1
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:RTLatency:VERDict?

:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:SPRTest:DURation

Description	This commands sets the duration for Service Performance Test.
	At *RST condition value is 10 min.
	Navigation Path: Setup > Test Configurator > EtherSAM > Global > Subtests - Service Performance Test - Subtest Duration
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:SPRTest:DURation <wsp><Duration>
Parameter(s)	**Duration**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the service performance test Duration in DD:HH:MM:SS
Response Syntax	<Duration>
Example(s)	SOUR:DATA:TEL:ETH:ESAM:GLOB:SPRTest:DUR 10D:00:10:00
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:RTLatency?

:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:SPRTest:DURation?

Description	This query returns the duration for Service Performance Test.
	At *RST condition value is 10 min.
	Navigation Path: Setup > Test Configurator > EtherSAM > Global > Subtests - Service Performance Test - Subtest Duration
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:SPRTest:DURation?
Response Syntax	<Duration>
Response(s)	**Duration**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	This query returns the Global test duration estimate
Example(s)	SOUR:DATA:TEL:ETH:ESAM:GLOB:SPRTest:DUR 10D:00:10:00
	SOUR:DATA:TEL:ETH:ESAM:GLOB:SPRTest:DUR?
	Returns: 10D:00:10:00
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:ARXRate?

:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:SPRTest:ENABled

Description	This commands enables/disables the Service Performance Test.
	At *RST condition value is ON/OFF.
	Navigation Path: Setup > Test Configurator > EtherSAM > Global > Subtests - Service Performance Test
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:SPRTest:ENABled <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Duration>
Example(s)	SOUR:DATA:TEL:ETH:ESAM:GLOB:SPRT:ENAB ON
	SOUR:DATA:TEL:ETH:ESAM:GLOB:SPRT:ENAB?
	Returns: 1
See Also	SOUR[1..n]:DATA:TEL:ETH:ESAM:GLOB:SPRTest:DUR

:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:SPRTest:ENABled?

Description	This query returns the on/off status of Service Performance Test.
	At *RST condition value is 10 min.
	Navigation Path: Setup > Test Configurator > EtherSAM > Global > Subtests - Service Performance Test
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:SPRTest:ENABled?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:ESAM:GLOB:SPRT:ENAB ON
	SOUR:DATA:TEL:ETH:ESAM:GLOB:SPRT:ENAB?
	Returns: 1
See Also	SOUR[1..n]:DATA:TEL:ETH:ESAM:GLOB:SPRTest:DUR?

:SOURce:DATA:TELecom:ETHernet:ESAM:RESTore:DEFault

Description	This command sets the EtherSAM configuration to default settings. Navigation Path: Setup > Test Configurator > EtherSAM > Global > Restore EtherSAM Defaults
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:RESTore:DEFault
Response Syntax	<Status>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:RESTore:DEFault
See Also	SOURce:DATA:TELecom:OTN:REStore:DEFault SOURce:DATA:TELecom:ETHernet:RFC:RESTore:DEFault SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:RESTore:DEFault SOURce:DATA:TELecom:RESTore:DEFault

EtherSAM - Burst

:FETCh:DATA:TELecom:ETHernet:ESAM:BURSt:CBS:TIME?

Description	This query returns CBS Time for selected service and direction.
	Navigation Path: Setup > Test Configurator > EtherSAM > Burst > CBS Test Time
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:BURSt:CBS:TIME? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction and For Non DTS use LTOR as direction)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2 for dual port topology.
	P2TOP1: P2 -TO-P1 for dual port topology.
Response Syntax	<CBS Time>
Response(s)	**CBS Time**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns CBS Time for mentioned Stream and direction
Example(s)	FETC:DATA:TEL:ETH:ESAM:BURSt:CBS:TIME? 1, LTOR
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:ARXRate?

:FETCh:DATA:TELecom:ETHernet:ESAM:BURSt:EBS:TIME?

Description	This query returns EBS Time for selected service and direction.
	Navigation Path: Setup > Test Configurator > EtherSAM > Burst > EBS Test Time
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:BURSt:EBS:TIME? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction and For Non DTS use LTOR as direction)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2 for dual port topology.
	P2TOP1: P2 -TO-P1 for dual port topology.
Response Syntax	<EBS Time>
Response(s)	**EBS Time**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns EBS Time for mentioned Stream and direction
Example(s)	FETC:DATA:TEL:ETH:ESAM:BURSt:EBS:TIME? 1, LTOR
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:TXRate?

:FETCh:DATA:TELecom:ETHernet:ESAM:BURSt:TBURst:TIME?

Description	This query returns Total Burst Time for selected service and direction
	Navigation Path: Setup > Test Configurator > EtherSAM > Burst > Total Burst Test Time
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:BURSt:TBURst:TIME? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction and For Non DTS use LTOR as direction)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2 for dual port topology.
	P2TOP1: P2 -TO-P1 for dual port topology.
Response Syntax	<Total BURST time>
Response(s)	**Total BURST time**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns Total Burst Time for mentioned Stream and direction
Example(s)	FETC:DATA:TEL:ETH:ESAM:BURSt:TBURst:TIME? 1, LTOR
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:FLOSs?

:FETCh:DATA:TELecom:ETHernet:ESAM:BURSt:TOTal?

Description	This query returns the Total values for CBS/EBS/Total Burst Time for selected service.
	Navigation Path: Setup > Test Configurator > EtherSAM > Burst > Total
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:BURSt:TOTal? <wsp><Direction>, <Type>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type pf burst parameter.
	CBS: CBS
	EBS: EBS
	TBURST: Total Burst a
Response Syntax	<BURST>
Response(s)	**BURST**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Total values for CBS/EBS/Total Burst Time for specified service.
Example(s)	FETC:DATA:TEL:ETH:ESAM:BURSt:TOT? LTOR,CBS
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:MAXJitter?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:BIRFrame

Description	This command sets the Burst/IR frame ratio.
	At *RST condition the value is set to 90.
	Navigation Path: Setup > Test Configurator > EtherSAM > Burst > Parameters - Burst/IR Frame Ratio
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:BIRFrame <wsp><Burst IR frame ratio>
Parameter(s)	**Burst IR frame ratio**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Burst/IR frame ratio.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<BURST>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:BIRFrame 20
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFR:ENABle ?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:BIRFrame?

Description	This query returns the Burst/IR frame ratio.
	At *RST condition the value is set to 90.
	Navigation Path: Setup > Test Configurator > EtherSAM > Burst > Parameters - Burst/IR Frame Ratio
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:BIRFrame?[<wsp><Burst IR frame ratio>]
Parameter(s)	**Burst IR frame ratio**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Burst/IR frame ratio.
	This parameter is optional. If no token is specified, the current Burst/IR frame ratio value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Burst ir Frame ratio>
Response(s)	**Burst ir Frame ratio**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Burst/IR frame ratio.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:BIRFrame 20
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:BIRFrame?
	Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:SERVices:SLAParameter:BSIZE?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:NOBSequence

Description	This command sets the number of Burst sequence.
	At *RST condition the value is set to 2.
	Navigation Path: Setup > Test Configurator > EtherSAM > Burst > Parameters - Number of Burst Sequence
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:NOBSequence <wsp><Number of Burst Sequence>
Parameter(s)	**Number of Burst Sequence**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the number of Burst sequence.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Burst ir Frame ratio>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:NOBSequence 6
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:SERVices:VLAN

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:NOBSequence?

Description	This query returns the number of burst sequence.
	At *RST condition the value is set to 2.
	Navigation Path: Setup > Test Configurator > EtherSAM > Burst > Parameters - Number of Burst Sequence
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:NOBSequence?[<wsp><Number of Burst Sequence>]
Parameter(s)	**Number of Burst Sequence**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the number of Burst sequence.
	This parameter is optional. If no token is specified, the current Burst sequence value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Number of burst Sequence>
Response(s)	**Number of burst Sequence**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of Burst sequence.
	MAXimum, returns the Burst sequence as maximum.
	MINimum, returns the Burst sequence as minimum.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:NOBSequence?
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:FRASize:QUANtity

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:RDERatio

Description	This command sets the refill delay ratio.
	At *RST condition the value is set to 50.
	Navigation Path: Setup > Test Configurator > EtherSAM > Burst > Parameters - Refill Delay Ratio
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:RDERatio <wsp><Refil delay Ratio>
Parameter(s)	**Refil delay Ratio**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the refill delay ratio (%).
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Number of burst Sequence>
Example(s)	SOUR:DATA:TEL:ETH:ESAM:CONF:BURS:PAR:RDER 50
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:SERVices:FRASize:QUANtity?

:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:RDERatio?

Description	This query returns the refill delay ratio.
	At *RST condition the value is set to 50.
	Navigation Path: Setup > Test Configurator > EtherSAM > Burst > Parameters - Refill Delay Ratio
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:RDERatio?[<wsp><Refil delay Ratio>]
Parameter(s)	**Refil delay Ratio**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the refill delay ratio (%).
	This parameter is optional. If no token is specified, the current refill delay ratio value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Refil Delay Ratio>
Response(s)	**Refil Delay Ratio**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the refill delay ratio (%).
	MAXimum, returns the refill delay ratio as maximum.
	MINimum, returns the refill delay ratio as minimum.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:RDERatio 50
	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:BURSt:PARameters:RDERatio?
	Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFig:SERVices:SLAParameter:INFR:ENABle

EtherSAM - Ramp

:FETCh:DATA:TELecom:ETHernet:ESAM:RAMP:DURation?

Description	This query returns the Ramp duration.
	Navigation Path: Setup > Test Configurator > EtherSAM > Ramp > Ramp Duration
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:RAMP:DURation?
Response Syntax	<RAMP DURATION>
Response(s)	**RAMP DURATION**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Ramp Duration
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:RAMP:DURation?
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:RTLatency?

:SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:ADD

Description	This command adds the step value.
	Navigation Path: Setup > Test Configurator > EtherSAM > Ramp > Add Step
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:ADD <wsp><Step Value>
Parameter(s)	**Step Value**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Step value to add
Response Syntax	<RAMP DURATION>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:ADD 10
See Also	SOURce:DATA:TELecom:ETH:ESAM:GLOB:PDIR:CONF:STAT

:SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:DEFault

Description	This command resets steps to default settings.
	Navigation Path: Setup > Test Configurator > EtherSAM > Ramp > Defaults
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:DEFault
Response Syntax	<RAMP DURATION>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:DEFault
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:RESTore:DEFault

:SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:DELete

Description	This command deletes the step value.
	Navigation Path: Setup > Test Configurator > EtherSAM > Ramp > Delete Step
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:DELete <wsp><Step Index>
Parameter(s)	**Step Index**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Index of the step to be deleted
Response Syntax	<RAMP DURATION>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:DELete 2
See Also	SOURce:DATA:TELecom:ETH:ESAM:GLOB:PDIR:CONF:STAT?

:SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:TIME

Description	This command sets the ramp Step Time.
	Navigation Path: Setup > Test Configurator > EtherSAM > Ramp > Step Time
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:TIME <wsp><Ramp Step Time>
Parameter(s)	**Ramp Step Time**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Set Ramp Step Time
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<RAMP DURATION>
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:TIME 7
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:FLOSs?

:SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:TIME?

Description	This query returns the ramp Step Time.
	Navigation Path: Setup > Test Configurator > EtherSAM > Ramp > Step Time
Syntax	:SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:TIME?[<wsp><Ramp Step Time>]
Parameter(s)	**Ramp Step Time**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Returns Ramp Step Time
	This parameter is optional. If no token is specified, the current Ramp Step Time value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<RAMP STEPTIME>
Response(s)	**RAMP STEPTIME**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Ramp Step Time
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:TIME 7
	SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:TIME?
	Returns: 7
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:MAXJitter?

Fibre Channel

:FETCh:DATA:TELecom:FIBer:PORT:DTOPology?

Description	This query returns the discovered topology for storage network.
	At *RST, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Fibre Channel > Login - Discovered Topology
Syntax	:FETCh:DATA:TELecom:FIBer:PORT:DTOPology?
Response Syntax	<Dtopology>
Response(s)	**Dtopology**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the discovered topology for storage network.
	FABRIC, Fabric is retrieved.
	PTPOINT, Point to Point is retrieved.
Example(s)	SOUR:DATA:TEL:FIB:PORT:LOG:STAT ON
	FETCh:DATA:TEL:FIB:PORT:LOG
	FETC:DATA:TEL:FIB:PORT:DTOP?
See Also	FETCh:DATA:TELecom:FIBer:PORT:FLOGin:STATus?

:FETCh:DATA:TELecom:FIBer:PORT:FLOGin:STATus?

Description	This query returns the fabric login status for the storage network.
	At *RST, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Fibre Channel > Login - Fabric Status
Syntax	:FETCh:DATA:TELecom:FIBer:PORT:FLOGin:STATus?
Response Syntax	\<Status\>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA\> element.
	Returns the fabric login status for the storage network.
	LOGGEDIN, Logged-in is retrieved.
	FAILED, Failed is retrieved.
	INPROGRESS, In progress is retrieved.
	LOGGEDOUT, Logged-out is retrieved.
Example(s)	SOUR:DATA:TEL:FIB:PORT:LOG:STAT ON
	FETCh:DATA:TEL:FIB:PORT:LOG
	FETC:DATA:TEL:FIB:PORT:FLOG:STAT?
See Also	FETCh:DATA:TELecom:FIBer:PORT:PLOGin:STATus?

:FETCh:DATA:TELecom:FIBer:PORT:LOGin

Description	This command sends the login request.
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Setup > Test Configurator > Fibre Channel > Login - Login
Syntax	:FETCh:DATA:TELecom:FIBer:PORT:LOGin
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FIB:PORT:LOG:STAT ON
	FETCh:DATA:TEL:FIB:PORT:LOG
See Also	FETCh:DATA:TELecom:FIBer:PORT:FLOGin:STATus?

:FETCh:DATA:TELecom:FIBer:PORT:PLOGin:STATus?

Description	This query returns the port login status for the storage network.
	At *RST, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Fibre Channel > Login - Port Status
Syntax	:FETCh:DATA:TELecom:FIBer:PORT:PLOGin:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the port login status for the storage network.
	LOGGEDIN, Logged-in is retrieved.
	FAILED, Failed is retrieved.
	INPROGRESS, In progress is retrieved.
	LOGGEDOUT, Logged-out is retrieved.
Example(s)	SOUR:DATA:TEL:FIB:PORT:LOG:STAT ON
	FETCh:DATA:TEL:FIB:PORT:LOG
	FETC:DATA:TEL:FIB:PORT:PLOG:STAT?
See Also	FETCh:DATA:TELecom:FIBer:PORT:FLOGin:STATus?

:SOURce:DATA:TELecom:FIBer:PORT:ADVertised:BBCRedit

Description	This command sets the advertised Buffer to Buffer (BB) credit during login.
	At *RST, this value is set to 10.
	Navigation Path: Setup > Test Configurator > Fibre Channel > Login - Advertised BB_Credit
Syntax	:SOURce:DATA:TELecom:FIBer:PORT:ADVertised:BBCRedit <wsp><Bbcredit>
Parameter(s)	**Bbcredit**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the advertised BB credit during login. Choices are 0 through 65535.
	MAXimum: Maximum
	MINimum: Minimum
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FIB:PORT:ADV:BBCR 60
See Also	SOURce:DATA:TELecom:FIBer:PORT:AVAilable:BBCRedit

:SOURce:DATA:TELecom:FIBer:PORT:ADVertised:BBCRedit?

Description	This query returns the advertised Buffer to Buffer (BB) credit during login.
	At *RST, this value is set to 10.
	Navigation Path: Setup > Test Configurator > Fibre Channel > Login - Advertised BB_Credit
Syntax	:SOURce:DATA:TELecom:FIBer:PORT:ADVertised:BBCRedit?[<wsp><BB Credit>]
Parameter(s)	**BB Credit**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If unspecified, the current value will be returned.
	MAXimum: Maximum
	MINimum: Minimum
Response Syntax	<Bbcredit>
Response(s)	**Bbcredit**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the advertised BB credit during login.
Example(s)	SOUR:DATA:TEL:FIB:PORT:ADV:BBCR 60
	SOUR:DATA:TEL:FIB:PORT:ADV:BBCR?
	Returns: 60
See Also	SOURce:DATA:TELecom:FIBer:PORT:AVAilable:BBCRedit?

:SOURce:DATA:TELecom:FIBer:PORT:AVAilable:BBCRedit

Description	This command sets the number of AvailableBB_Credit.
	At *RST, this value is set to 10.
	Navigation Path: Setup > Test Configurator > Fibre Channel > Buffer to Buffer Flow Control - Available BB_Credit
Syntax	:SOURce:DATA:TELecom:FIBer:PORT:AVAilable:BBCRedit <wsp><BB Credit>
Parameter(s)	**BB Credit**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the number of available BB credit. Choices are 0 through 65535.
	MAXimum: Maximum allowed value.
	MINimum: Minimum allowed value.
Response Syntax	<Bbcredit>
Example(s)	SOUR:DATA:TEL:FIB:PORT:AVA:BBCR 25
See Also	SOURce:DATA:TELecom:FIBer:PORT:ADVertised:BBCRedit

:SOURce:DATA:TELecom:FIBer:PORT:AVAilable:BBCRedit?

Description	This query returns the number of available Available BB_Credit.
	At *RST, this value is set to 10.
	Navigation Path: Setup > Test Configurator > Fibre Channel > Buffer to Buffer Flow Control - Available BB_Credit
Syntax	:SOURce:DATA:TELecom:FIBer:PORT:AVAilable:BBCRedit?[<wsp><BB Credit>]
Parameter(s)	**BB Credit**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If unspecified, the current value is returned.
	MAXimum: Maximum allowed value.
	MINimum: Minimum allowed value.
Response Syntax	<Bbcredit>
Response(s)	**Bbcredit**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of available BB credit.
Example(s)	SOUR:DATA:TEL:FIB:PORT:AVA:BBCR 25
	SOUR:DATA:TEL:FIB:PORT:AVA:BBCR?
	Returns: 25
See Also	SOURce:DATA:TELecom:FIBer:PORT:ADVertised:BBCRedit?

:SOURce:DATA:TELecom:FIBer:PORT:FCONtrol:ENABle

Description	This command enables/disables the buffer to buffer flow control.
	At *RST, this value is set to ON.
	Navigation Path: Setup > Test Configurator > Fibre Channel > Buffer to Buffer Flow Control - Enable
Syntax	:SOURce:DATA:TELecom:FIBer:PORT:FCONtrol:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Bbcredit>
Example(s)	SOUR:DATA:TEL:FIB:PORT:FCON:ENAB ON
See Also	SOURce:DATA:TELecom:FIBer:PORT:LOGin:STATus

:SOURce:DATA:TELecom:FIBer:PORT:FCONtrol:ENABle?

Description	This query returns the on/off status of buffer to buffer flow control.
	At *RST, this value is set to ON.
	Navigation Path: Setup > Test Configurator > Fibre Channel > Buffer to Buffer Flow Control - Enable
Syntax	:SOURce:DATA:TELecom:FIBer:PORT:FCONtrol:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:FIB:PORT:FCON:ENAB ON
	SOUR:DATA:TEL:FIB:PORT:FCON:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:FIBer:PORT:LOGin:STATus?

:SOURce:DATA:TELecom:FIBer:PORT:LOGin:STATus

Description	This command enables/disables login. At *RST, this value is set to OFF. Navigation Path: Setup > Test Configurator > Fibre Channel > Login - Enable
Syntax	:SOURce:DATA:TELecom:FIBer:PORT:LOGin:STATus <wsp><Set>
Parameter(s)	**Set**: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FIB:PORT:LOG:STAT ON
See Also	SOURce:DATA:TELecom:FIBer:PSP

:SOURce:DATA:TELecom:FIBer:PORT:LOGin:STATus?

Description	This query returns the on/off status of login.
	At *RST, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Fibre Channel > Login - Enable
Syntax	:SOURce:DATA:TELecom:FIBer:PORT:LOGin:STATus?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the login status.
Example(s)	SOUR:DATA:TEL:FIB:PORT:LOG:STAT ON
	SOUR:DATA:TEL:FIB:PORT:LOG:STAT?
	Returns: 1
See Also	SOURce:DATA:TELecom:FIBer:PSP?

:SOURce:DATA:TELecom:FIBer:PORT:WDEStination

Description	This command sets the destination World Wide Name (WWN) address.
	At *RST, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Fibre Channel > World Wide Name (WWN) - Destination
Syntax	:SOURce:DATA:TELecom:FIBer:PORT:WDEStination <wsp><Wdestination>
Parameter(s)	**Wdestination**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the destination World Wide Name (WWN) for storage network.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FIB:PORT:WDES AA-00-00-AA-10-00-00-AA
See Also	SOURce:DATA:TELecom:FIBer:PORT:WSOurce

:SOURce:DATA:TELecom:FIBer:PORT:WDEStination?

Description	This query returns the destination World Wide Name (WWN) address.
	At *RST, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Fibre Channel > World Wide Name (WWN) - Destination
Syntax	:SOURce:DATA:TELecom:FIBer:PORT:WDEStination?
Response Syntax	<Wdestination>
Response(s)	**Wdestination**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the destination World Wide Name (WWN) for storage network.
Example(s)	SOUR:DATA:TEL:FIB:PORT:WDES AA-00-00-AA-10-00-00-AA
	SOUR:DATA:TEL:FIB:PORT:WDES?
	Returns: AA-00-00-AA-10-00-00-AA
See Also	SOURce:DATA:TELecom:FIBer:PORT:WSOurce?

:SOURce:DATA:TELecom:FIBer:PORT:WSOurce

Description	This command sets the World Wide Name (WWN) source address.
	At *RST, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Fibre Channel > World Wide Name (WWN) - Source
Syntax	:SOURce:DATA:TELecom:FIBer:PORT:WSOurce <wsp><Wsource>
Parameter(s)	**Wsource**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the source World Wide Name (WWN) for storage network.
Response Syntax	<Wdestination>
Example(s)	SOUR:DATA:TEL:FIB:PORT:WSO AA-00-00-AA-10-00-00-12
See Also	SOURce:DATA:TELecom:FIBer:PORT:WDEStination

:SOURce:DATA:TELecom:FIBer:PORT:WSOurce?

Description	This query returns the World Wide Name (WWN) source address.
	At *RST, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Fibre Channel > World Wide Name (WWN) - Source
Syntax	:SOURce:DATA:TELecom:FIBer:PORT:WSOurce?
Response Syntax	\<Wsource\>
Response(s)	**Wsource**:
	The response data syntax for the first parameter is defined as a \<STRING RESPONSE DATA\> element.
	Returns the source World Wide Name (WWN).
Example(s)	SOUR:DATA:TEL:FIB:PORT:WSO AA-00-00-AA-10-00-00-12
	SOUR:DATA:TEL:FIB:PORT:WSO?
	Returns: AA-00-00-AA-10-00-00-12
See Also	SOURce:DATA:TELecom:FIBer:PORT:WDEStination?

Labels

:SENSe:DATA:TELecom:SDHSonet:HOP:PATH:LABel:EXPected

Description   This command sets the expected STS/AU Path (C2) of High Order Path (HOP).

At *RST condition, the CONFig is set to a device-dependent value.

Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - STS/AU Path (C2) - Expected

Navigation Path: Results > Traces > Labels - STS/AU Path (C2) - Expected

Syntax   :SENSe:DATA:TELecom:SDHSonet:HOP:PATH:LABel:EXPected <wsp><Label>

Parameter(s)   Label:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the expected path signal label.

EQUipped: Equipped non-specific.

FVTMode: Floating VT (Virtual Tributary) mode.

LOCKed: Locked VT (Virtual Tributary) mode.

AMDS3: asynchronous Mapping for DS3.

MDEVelopment: Mapping under Development.

AM140: asynchronous Mapping for 140M (DS4NA).

ATMM: Mapping for ATM.

MDQDb: Mapping for DQDB.

FDDim: asynchronous Mapping for Fiber Distributed Data Interface (FDDI).

MHDLc: Mapping of HDLC (High-Level Data Link Control) over SONET.

SSELf: SDL with self-synchronization scrambler.

MHLaps: Mapping of HDLC (High-Level Data Link Control)/LAPS (Link Access Procedure for SDH).

SSET: Set SDL with use of a set-reset scrambler.

M10ethernet: 10 Gbps ethernet (IEEE 802.3).

GFP: GFP (Generic Framing Procedure).

RHPPp: Reserved [obsolete HDLC (High-Level Data Link Control)/PPP (Point-to-Point Protocol) framed].

TSIGnal: Test signal, ITU-T 0.181 specific mapping.

AMODuk: Async Mapping of ODUK

M10Fc: Mapping 10 Gbits/S FC

:SENSe:DATA:TELecom:SDHSonet:HOP:PATH:LABel:EXPected

Response Syntax	\<Value\>
Example(s)	SENS:DATA:TEL:SDHS:HOP:PATH:LAB:EXP EQUIPPED
	SENS:DATA:TEL:SDHS:HOP:PATH:LAB:EXP?
	Returns: EQUIPPED
See Also	SENSe:DATA:TELecom:SDHSonet:HOP:PUNeq?

:SENSe:DATA:TELecom:SDHSonet:HOP:PATH:LABel:EXPected ?

Description	This query returns the expected STS/AU Path (C2) of High Order Path (HOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - STS/AU Path (C2) - Expected
	Navigation Path: Results > Traces > Labels - STS/AU Path (C2) - Expected
Syntax	:SENSe:DATA:TELecom:SDHSonet:HOP:PATH:LABel:EXPected?
Response Syntax	<Label>

:SENSe:DATA:TELecom:SDHSonet:HOP:PATH:LABel:EXPected?

Response(s)	**Label**: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the expected path signal label. EQUIPPED, Equipped non-specific. FVTMODE, Floating Virtual Tributary (VT) mode. LOCKED, Locked Virtual Tributary (VT) mode. AMDS3, asynchronous Mapping for Digital Signal-level 3 (DS3). MDEVELOPMENT, Mapping under development. AM140, asynchronous Mapping for 140M (DS4NA). ATMM, Mapping for ATM. MDQDB, Mapping for DQDB. FDDIM, asynchronous Mapping for Fiber Distributed Data Interface (FDDI). MHDLC, Mapping of High-Level Data Link Control (HDLC) over SONET. SSELF, SDL with self-synchronization scrambler. MHLAPS, Mapping of High-Level Data Link Control (HDLC)/Link Access Procedure for SDH (LAPS). SSET, Set SDL with use of a set-reset scrambler. M10ETHERNET, 10 Gbps ethernet (IEEE 802.3). GFP, Generic Framing Procedure (GFP). RHPPP, Reserved [obsolete High-Level Data Link Control (HDLC)/Point-to-Point Protocol (PPP) framed]. TSIGNAL, Test signal, ITU-T 0.181 specific mapping. AMODUK, Async Mapping of ODUK M10FC, Mapping 10 Gbits/S FC
Example(s)	SENS:DATA:TEL:SDHS:HOP:PATH:LAB:EXP EQUIPPED SENS:DATA:TEL:SDHS:HOP:PATH:LAB:EXP? Returns: EQUIPPED
See Also	SENSe:DATA:TELecom:SDHSonet:HOP:PUNeq

:SENSe:DATA:TELecom:SDHSonet:HOP:PUNeq

Description	This command enables/disables the PLM-P/UNEQ-P / HP-PLM/HP-UNEQ monitoring.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - PLM-P/UNEQ-P / HP-PLM/HP-UNEQ
	Navigation Path: Results > Labels > Labels - PLM-P/UNEQ-P / HP-PLM/HP-UNEQ
Syntax	:SENSe:DATA:TELecom:SDHSonet:HOP:PUNeq <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the Signal Label Mismatch for the expected message as well as UNEQ-P (Unequipped - Path) monitoring.
	ON: Enabled
	OFF: Disabled
Response Syntax	<Label>
Example(s)	SENS:DATA:TEL:SDHS:HOP:PUN ON
	SENS:DATA:TEL:SDHS:HOP:PUN?
	Returns: 1
See Also	SENSe:DATA:TELecom:SDHSonet:HOP:PATH:LABel:EXPected?

:SENSe:DATA:TELecom:SDHSonet:HOP:PUNeq?

Description	This query returns the on/off status of PLM-P/UNEQ-P / HP-PLM/HP-UNEQ monitoring.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - PLM-P/UNEQ-P / HP-PLM/HP-UNEQ
	Navigation Path: Results > Traces > Labels - PLM-P/UNEQ-P / HP-PLM/HP-UNEQ
Syntax	:SENSe:DATA:TELecom:SDHSonet:HOP:PUNeq?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of Payload Label Mismatch - Path (PLM-P) / Unequipped - Path (UNEQ-P).
	1 - UNEQ-P status is enabled.
	0 - UNEQ-P status is disabled.
Example(s)	SENS:DATA:TEL:SDHS:HOP:PUN ON
	SENS:DATA:TEL:SDHS:HOP:PUN?
	Returns: 1
See Also	SENSe:DATA:TELecom:SDHSonet:HOP:PATH:LABel:EXPected

:SENSe:DATA:TELecom:SDHSonet:LOP:PATH:LABel:EXPected

Description	This command sets the expected VT/TU Path (V5) of Low Order Path (LOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - VT/TU Path (V5) - Expected
	Navigation Path: Results > Traces > Labels - VT/TU Path (V5) - Expected
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:PATH:LABel:EXPected <wsp><Label>
Parameter(s)	**Label**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the path signal label.
	EQUipped: the Equipped non-specific path signal label.
	ASYNchronous: the Asynchronous path signal label.
	BISYnch: the BITS (Bit Synchronous) path signal label.
	BYSYnch: the BYTes (Byte Synchronous) path signal label.
	SIGNal: the extended path Signal.
	TEST: the Test signal, ITU-T 0.181 specific mapping path signal label.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:SDHS:LOP:PATH:LAB:EXP EQU
	SENS:DATA:TEL:SDHS:LOP:PATH:LAB:EXP?
	Returns: EQUIPPED
See Also	SENSe:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel:EXPected?

:SENSe:DATA:TELecom:SDHSonet:LOP:PATH:LABel:EXPected ?

Description	This query returns the expected VT/TU Path (V5) of Low Order Path (LOP).
	At *RST condition, the configuration is set to a device-dependent value.
	Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - VT/TU Path (V5) - Expected
	Navigation Path: Results > Traces > Labels - VT/TU Path (V5) - Expected
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:PATH:LABel:EXPected?
Response Syntax	\<Label\>
Response(s)	**Label**:
	The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA\> element.
	Returns the path signal label.
	UNEQIPPED, Unequipped path signal label is selected.
	EQUIPPED, Equipped non-specific path signal label is selected.
	ASYNCHRONOUS, Asynchronous path signal label is selected.
	BISYNCH, Bit Synchronous path (BITS) signal label is selected.
	BYSYNCH, Byte Synchronous path signal (BYTES) label is selected.
	SIGNAL, Extended path Signal is selected.
	TEST, Test signal, ITU-T 0.181 specific mapping path signal label is selected.
Example(s)	SENS:DATA:TEL:SDHS:LOP:PATH:LAB:EXP EQU
	SENS:DATA:TEL:SDHS:LOP:PATH:LAB:EXP?
	Returns: EQUIPPED
See Also	SENSe:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel:EXPected

:SENSe:DATA:TELecom:SDHSonet:LOP:PUNeq

Description	This command enables/disables PLM-V/UNEQ-V / LP-PLM/LP-UNEQ monitoring.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - PLM-V/UNEQ-V / LP-PLM/LP-UNEQ
	Navigation Path: Results > Labels > Labels - PLM-V/UNEQ-V / LP-PLM/LP-UNEQ
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:PUNeq <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the Signal Label Mismatch for the expected message as well as UNEQ-P (Unequipped - Path) monitoring of Low Order Path (LOP).
	ON: Enabled
	OFF: Disabled
Response Syntax	<Label>
Example(s)	SENS:DATA:TEL:SDHS:LOP:PUN ON
	SENS:DATA:TEL:SDHS:LOP:PUN?
	Returns: 1
See Also	SENSe:DATA:TELecom:SDHSonet:LOP:PUNeq?

:SENSe:DATA:TELecom:SDHSonet:LOP:PUNeq?

Description	This query returns the on/off status of PLM-V/UNEQ-V / LP-PLM/LP-UNEQ monitoring.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - PLM-V/UNEQ-V / LP-PLM/LP-UNEQ
	Navigation Path: Results > Traces > Labels - PLM-V/UNEQ-V / LP-PLM/LP-UNEQ
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:PUNeq?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of Payload Label Mismatch - VT (PLM-V) / Unequipped - VT (UNEQ-V).
Example(s)	SENS:DATA:TEL:SDHS:LOP:PUN ON
	SENS:DATA:TEL:SDHS:LOP:PUN?
	Returns: 1
See Also	SENSe:DATA:TELecom:SDHSonet:LOP:PUNeq

:SENSe:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel:EXPected

Description	This command sets the expected TU Path (C2) of Low Order Path (LOP-TU3).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - TU Path (C2) - Expected
	Navigation Path: Results > Traces > Labels - TU Path (C2) - Expected
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel:EXPected <wsp><Label>
Parameter(s)	**Label**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the path signal label.
	EQUipped: the Equipped non-specific path signal label.
	GFP: the GFP.
	LOCKed: the LOCKED Locked VT Mode/TU Mode signal label.
	AM140: the Async Mapping of 140M in C-4 signal label.
	ATMM: the ATM Mapping Signal label.
	MDEVelopment: the Mapping under development signal label.
	MDQDb: the Mapping for DQDB signal label.
	AMDS3: the Async Mapping for DS3 label.
	M10Fc: the Mapping 10 Gbit/s FC label.
	FDDim: the Async Mapping for FDDI label.
	MHDLc: the Mapping of HDLC label.
	MHLaps: the Mapping of HDLC/LAPS label.
	AMODuk: the Async Mapping of ODUk label.
	REServed: the RESERVED label.
	RHPPp: the RESERVED label.
	SSELf: the SDL self-synch scrambler label.
	SSET: the SDL set-reset scrambler label.
	M10ethernet: the 10 Gbit/s Ethernet (IEEE 802.3) label.
	TSIGNal: the Test Signal, ITU-T 0.181 label.
	FVTMode: the 02 Floating VT Mode label.
	AISTcm: the AIS (TCM) label.

:SENSe:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel:EXPected

Response Syntax	\<Set\>
Example(s)	SENS:DATA:TEL:SDHS:LOPT:PATH:LAB:EXP EQU
	SENS:DATA:TEL:SDHS:LOPT:PATH:LAB:EXP?
	Returns: EQUIPPED
See Also	SENSe:DATA:TELecom:SDHSonet:LOP:PATH:LABel:EXPected?

:SENSe:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel:EXPected?

Description	This query returns the expected TU Path (C2) of Low Order Path (LOP-TU3).
	At *RST condition, the configuration is set to a device-dependent value.
	Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - TU Path (C2) - Expected
	Navigation Path: Results > Traces > Labels - TU Path (C2) - Expected
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel:EXPected?
Response Syntax	<Label>
Response(s)	**Label**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the path signal label.
	UNEQIPPED, Unequipped path signal label is selected.
	EQUIPPED, Equipped non-specific path signal label is selected.
	ASYNCHRONOUS, Asynchronous path signal label is selected.
	BISYNCH, Bit Synchronous path (BITS) signal label is selected.
	BYSYNCH, Byte Synchronous path signal (BYTES) label is selected.
	SIGNAL, Extended path Signal is selected.
	TEST, Test signal, ITU-T 0.181 specific mapping path signal label is selected.
Example(s)	SENS:DATA:TEL:SDHS:LOPT:PATH:LAB:EXP EQU
	SENS:DATA:TEL:SDHS:LOPT:PATH:LAB:EXP?
	Returns: EQUIPPED
See Also	SENSe:DATA:TELecom:SDHSonet:LOP:PATH:LABel:EXPected

:SOURce:DATA:TELecom:SDHSonet:HOP:PATH:LABel

Description	This command sets the generated STS/AU Path (C2) of High Order Path (HOP).
	At *RST condition, the CONFig is set to TSIGnal.
	Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - STS/AU Path (C2) - Generated
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:PATH:LABel <wsp><Label>

:SOURce:DATA:TELecom:SDHSonet:HOP:PATH:LABel

Parameter(s)

Label:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the path signal.

UNEQuipped: unequipped

EQUipped: equipped non-specific

FVTMode: floating VT (Virtual Tributary) Mode

LOCKed: locked VT (Virtual Tributary) Mode

AMDS3: asynchronous mapping for DS3 (Digital Signal-level 3)

MDEVelopment: mapping under development

REServed: reserved

AM140: asynchronous mapping for 140M (DS4NA)

ATMM: mapping for ATM

MDQDb: mapping for DQDB

FDDim: asynchronous mapping for FDDI

MHDLc: mapping of HDLC over SONET

SSELf: SDL with self-synchronization scrambler

MHLaps: mapping of HDLC/LAPS

SSET: set SDL with use of a set-reset scrambler

M10ETHERNET: 10 Gbps ethernet (IEEE 802.3)

GFP: Generic Framing Procedure (GFP)

RHPPp: reserved [Obsolete High-Level Data Link Control (HDLC)/Point-to-Point Protocol (PPP) framed]

S1W: the STS-1 w/1 VTx payload defect; S2W: the STS-1 w/2 VTx payload defect;... up to S28W: the STS-1 w/28 VTx payload defect

TSIGnal: the test signal, ITU-T 0.181 specific mapping.

AISTcm: the STS (Synchronous Transport Signal) SPE (Synchronous Payload Envelope) AIS (Alarm Indication Signal) (TCM)

AMODUK: Async Mapping of ODUK

M10FC: Mapping 10 Gbits/S FC

:SOURce:DATA:TELecom:SDHSonet:HOP:PATH:LABel

Response Syntax	\<Label\>
Example(s)	SOUR:DATA:TEL:SDHS:HOP:PATH:LAB EQUIPPED
	SOUR:DATA:TEL:SDHS:HOP:PATH:LAB?
	Returns: EQUIPPED
See Also	SOURce:DATA:TELecom:SDHSonet:OVERhead:J1:PATTern:B16?

:SOURce:DATA:TELecom:SDHSonet:HOP:PATH:LABel?

Description	This query returns the STS/AU Path (C2) of High Order Path (HOP).
	At *RST condition, the CONFig is set to TSIGnal.
	Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - STS/AU Path (C2) - Generated
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:PATH:LABel?
Response Syntax	<Label>

:SOURce:DATA:TELecom:SDHSonet:HOP:PATH:LABel?

Response(s)

Label:

The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.

Returns the path signal label selected:

UNEQUIPPED, Unequipped.

EQUIPPED, Equipped non-specific.

FVTMODE, Floating Virtual Tributary (VT) Mode.

LOCKED, Locked Virtual Tributary (VT) Mode.

AMDS3, Asynchronous mapping for Digital Signal-level 3 (DS3).

MDEVELOPMENT, Mapping under development.

RESERVED, Reserved.

AM140, Asynchronous mapping for 140M (DS4NA).

ATMM, Mapping for ATM.

MDQDB, Mapping for DQDB.

FDDIM, Asynchronous mapping for Fiber Distributed Data Interface (FDDI).

MHDLC, Mapping of High-Level Data Link Control (HDLC) over SONET.

SSELF, SDL with self-synchronization scrambler.

MHLAPS, Mapping of High-Level Data Link Control (HDLC)/Link Access Procedure for SDH (LAPS).

SSET, Set SDL with use of a set-reset scrambler.

M10ETHERNET, 10 Gbps ethernet (IEEE 802.3).

GFP, Generic Framing Procedure (GFP).

RHPPP, Reserved [Obsolete High-Level Data Link Control (HDLC)/Point-to-Point Protocol (PPP) framed].

S1W, STS-1 w/1 VTx payload defect.; S2W, STS-1 w/2 VTx payload defect; up to S28W, STS-1 w/28 VTx payload defect.

TSIGNAL, Test signal, ITU-T 0.181 specific mapping path signal label.

AISTCM, Synchronous Transport Signal (STS) Synchronous Payload Envelope (SPE) Alarm Indication Signal (AIS) (TCM) path signal label.

AMODUK, Async Mapping of ODUK

M10FC, Mapping 10 Gbits/S FC

Example(s)

SOUR:DATA:TEL:SDHS:HOP:PATH:LAB EQUIPPED

SOUR:DATA:TEL:SDHS:HOP:PATH:LAB?

Returns: EQUIPPED

:SOURce:DATA:TELecom:SDHSonet:HOP:PATH:LABel?

See Also   SOURce:DATA:TELecom:SDHSonet:OVERhead:J1:PATTern:B16

:SOURce:DATA:TELecom:SDHSonet:LOP:PATH:LABel

Description	This command sets generated VT/TU Path (V5) of Low Order Path (LOP).
	At *RST condition, the configuration is set to a device-dependent value.
	Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - VT/TU Path (V5) - Generated
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:PATH:LABel <wsp><Label>
Parameter(s)	**Label**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the path signal label.
	UNEQuipped: the unequipped path signal label.
	EQUipped: the Equipped non-specific path signal label.
	ASYNchronous: the Asynchronous path signal label.
	BISYnch: the BITS (Bit Synchronous) path signal label.
	BYSYnch: the BYTes (Byte Synchronous) path signal label.
	SIGNal: the extended path Signal.
	TEST: the Test signal, ITU-T 0.181 specific mapping path signal label.
	VTAis: the VT SPE AIS (Alarm Indication Signal) (TCM) path signal label.
Response Syntax	<Label>
Example(s)	SOUR:DATA:TEL:SDHS:LOP:PATH:LAB EQU
	SOUR:DATA:TEL:SDHS:LOP:PATH:LAB?
	Returns: EQUIPPED
See Also	SOURce:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel?

:SOURce:DATA:TELecom:SDHSonet:LOP:PATH:LABel?

Description	This query returns the generated VT/TU Path (V5) of Low Order Path (LOP).
	At *RST condition, the configuration is set to a device-dependent value.
	Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - VT/TU Path (V5) - Generated
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:PATH:LABel?
Response Syntax	<Label>
Response(s)	**Label**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the path signal label.
	UNEQUIPPED, Unequipped path signal label is selected.
	EQUIPPED, Equipped non-specific path signal label is selected.
	ASYNCHRONOUS, Asynchronous path signal label is selected.
	BISYNCH, Bit Synchronous path (BITS) signal label is selected.
	BYSYNCH, Byte Synchronous path signal (BYTES) label is selected.
	SIGNAL, Extended path Signal is selected.
	TEST, Test signal, ITU-T 0.181 specific mapping path signal label is selected.
	VTAIS, Virtual Tributary (VT) Synchronous Payload Envelope (SPE) Alarm Indication Signal (AIS)(TCM) is selected.
Example(s)	SOUR:DATA:TEL:SDHS:LOP:PATH:LAB EQU
	SOUR:DATA:TEL:SDHS:LOP:PATH:LAB?
	Returns: EQUIPPED
See Also	SOURce:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel

:SOURce:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel

Description

This command sets the generated TU Path (C2) of Low Order Path (LOP-TU3).

At *RST condition, the configuration is set to a device-dependent value.

Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - TU Path (C2) - Generated

Syntax

:SOURce:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel <wsp><Label>

Parameter(s)

Label:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the path signal label.

UNEQuipped: the unequipped path signal label.

EQUipped: the Equipped non-specific path signal label.

GFP: the GFP.

LOCKED: the LOCKED Locked VT Mode/TU Mode signal label.

AM140: the Async Mapping of 140M in C-4 signal label.

ATMM: the ATM Mapping Signal label.

MDEVELOPMENT: the Mapping under development signal label.

MDQDB: the Mapping for DQDB signal label.

AMDS3: the Async Mapping for DS3 label.

M10FC: the Mapping 10 Gbit/s FC label.

FDDIM: the Async Mapping for FDDI label.

MHDLC: the Mapping of HDLC label.

MHLAPS: the Mapping of HDLC/LAPS label.

AMODUK: the Async Mapping of ODUk label.

RESERVED: the RESERVED label.

RHPPP: the RESERVED label.

SSELF: the SDL self-synch scrambler label.

SSET: the SDL set-reset scrambler label.

M10ETHERNET: the 10 Gbit/s Ethernet (IEEE 802.3) label.

TSIGNAL: the Test Signal, ITU-T 0.181 label.

FVTMODE: the 02 Floating VT Mode label.

AISTCM: the AIS (TCM) label.

:SOURce:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel

Response Syntax	<Label>
Example(s)	SOUR:DATA:TEL:SDHS:LOPT:PATH:LAB EQU
	SOUR:DATA:TEL:SDHS:LOPT:PATH:LAB?
	Returns: EQUIPPED
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:PATH:LABel?

:SOURce:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel?

Description	This query returns the generated TU Path (C2) of Low Order Path (LOP-TU3).
	At *RST condition, the configuration is set to a device-dependent value.
	Navigation Path: Setup > Test Configurator > OC/STM > Labels > Labels - TU Path (C2) - Generated
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel?
Response Syntax	<Label>

:SOURce:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel?

Response(s)	**Label**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the path signal label.
	UNEQuipped, UNEQuipped path signal label is selected.
	EQUipped, EQUipped path signal label is selected.
	GFP, GFPpath signal label is selected.
	LOCKED, LOCKED path signal label is selected.
	AM140, AM140 path signal label is selected.
	ATMM, ATMM path signal label is selected.
	MDEVELOPMENT, MDEVELOPMENT path signal label is selected.
	MDQDB, MDQDB path signal label is selected.
	AMDS3, AMDS3 path signal label is selected.
	M10FC, M10FCpath signal label is selected.
	FDDIM, FDDIM path signal label is selected.
	MHDLC, MHDLC path signal label is selected.
	MHLAPS, MHLAPS path signal label is selected.
	AMODUK, AMODUK path signal label is selected.
	RESERVED, RESERVED path signal label is selected.
	RHPPP, RHPPP path signal label is selected.
	SSELF, SSELFpath signal label is selected.
	SSET, SSET path signal label is selected.
	M10ETHERNET, M10ETHERNET path signal label is selected.
	TSIGNAL, TSIGNAL path signal label is selected.
	FVTMODE, FVTMODE path signal label is selected.
	AISTCM, AISTCM path signal label is selected.
Example(s)	SOUR:DATA:TEL:SDHS:LOPT:PATH:LAB EQU
	SOUR:DATA:TEL:SDHS:LOPT:PATH:LAB?
	Returns: EQUIPPED
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:PATH:LABel

Thresholds (RFC 2544)

:SOURce:DATA:TELecom:ETHernet:REMote:THReshold

Description This command sets the RFC 2544 threshold values.

At *RST condition, this value is set to 100.0.

Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Thresholds

Syntax :SOURce:DATA:TELecom:ETHernet:REMote:THReshold <wsp><Subtest>, <Direction>, <Value>

Parameter(s) **Subtest**:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the subtest:

BTBack: Back-to-Back

FLOSs: Frame Loss

LATency: Latency

THRoughput: Throughput

Direction:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the direction:

TX2RX: TX-to-RX (TX2RX) for single port topology.

LTORemote: Local-to-Remote direction.

RTOLocal: Remote-to-Local direction.

P1TOP2: P1-to-P2 for dual port topology.

P2TOP1: P2-to-P1 for dual port topology.

BIDirectional: Bidirectional

Value:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the threshold value:

MAXimum: Biggest supported value

MINimum: Smallest supported value

DEFault: Default value

:SOURce:DATA:TELecom:ETHernet:REMote:THReshold

Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:ETH:REM:THR THR,LTOR,40
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate?

:SOURce:DATA:TELecom:ETHernet:REMote:THReshold?

Description	This query returns the RFC 2544 threshold values.
	At *RST condition, this value is set to 100.0.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Thresholds
Syntax	:SOURce:DATA:TELecom:ETHernet:REMote:THReshold? <wsp><Subtest>, <Direction>,[<Value>]
Parameter(s)	**Subtest**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the subtest:
	BTBack: Back-to-Back
	FLOSs: Frame Loss
	LATency: Latency
	THRoughput: Throughput
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the direction:
	TX2RX: TX-to-RX (TX2RX) for single port topology.
	LTORemote: Local-to-Remote direction.
	RTOLocal: Remote-to-Local direction.
	P1TOP2: P1-to-P2 for dual port topology.
	P2TOP1: P2-to-P1 for dual port topology.
	BIDirectional: Bidirectional
	Value:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current threshold value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Value>

:SOURce:DATA:TELecom:ETHernet:REMote:THReshold?

Response(s)	Value: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the threshold value.
Example(s)	SOUR:DATA:TEL:ETH:REM:THR THR,LTOR,40 SOUR:DATA:TEL:ETH:REM:THR? THR,LTOR Returns: 40
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate

Network

:FETCh:DATA:TELecom:ETHernet:SLTool:NETWork:DGATeway :IPVersion:ADDRess:STATus?

Description	This query returns the Default Gateway IPv6 address status for Loopback Tool.
	At *RST condition, this value is device dependent.
	Navigation Path: Lpbk Tool > Network > IP - Default Gateway
Syntax	:FETCh:DATA:TELecom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:ADDRess:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Default Gateway IPv6 address status.
	UNDEFINED, Undefined is retrieved.
	CHECKING, Checking is retrieved.
	UNREACHABLE, Unreachable is retrieved.
	REACHABLE, Reachable is retrieved.
Example(s)	FETCh:DATA:TELecom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:ADDRess:STATus?
See Also	FETCh:DATA:TELecom:ETHernet:NETWork:DGATeway:IPV:ADDRess:STATus?

:FETCh:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:ADDRess:STATus?

Description	This query returns the Global IPv6 address status for Loopback Tool.
	At *RST condition, this value is device dependent.
	Navigation Path: Lpbk Tool > Network > IP - Global IPv6 Address
Syntax	:FETCh:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:ADDRess:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Global IPv6 address status.
	TENTATIVE, Tentative is retrieved.
	GENERATING, Generating is retrieved.
	SUCCESSFUL, Successful is retrieved.
	PREFERRED, Preferred is retrieved.
	FAILED, Failed is retrieved.
	CHECKING, Checking is retrieved.
	NDUPLICATE, No Duplication is retrieved.
	DDETECTED, Duplication Detected is retrieved.
	UNDEFINED, Undefined is retrieved.
Example(s)	FETCh:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:ADDRess:STATus?
See Also	FETCh:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:ADDRess:STATus?

:FETCh:DATA:TELecom:ETHernet:SLTool:NETWork:LOCal:IPVersion:ADDRess:STATus?

Description	This query returns the Link-Local IPv6 address status for Loopback Tool.
	At *RST condition, this value is device dependent.
	Navigation Path: Lpbk Tool > Network > IP - Link-Local IPv6 Address
Syntax	:FETCh:DATA:TELecom:ETHernet:SLTool:NETWork:LOCal:IPVersion:ADDRess:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Link-Local IPv6 address status.
	TENTATIVE, Tentative is retrieved.
	GENERATING, Generating is retrieved.
	SUCCESSFUL, Successful is retrieved.
	PREFERRED, Preferred is retrieved.
	FAILED, Failed is retrieved.
	CHECKING, Checking is retrieved.
	NDUPLICATE, No Duplication is retrieved.
	DDETECTED, Duplication Detected is retrieved.
	UNDEFINED, Undefined is retrieved.
Example(s)	FETCh:DATA:TELecom:ETHernet:SLTool:NETWork:LOCal:IPVersion:ADDRess:STATus?
See Also	FETCh:DATA:TELecom:ETHernet:NETWork:LOCal:IPVersion:ADDRess:STATus?

:SOURce:DATA:TELecom:ETHernet:NETWork:DATalink:TYPE

Description	This command sets the Frame Format.
	At *RST condition, this value is set to ETHernet.
	Navigation Path: Setup > Test Configurator > Interface > Network > MAC - Frame Format
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:DATalink:TYPE <wsp><Datalink>
Parameter(s)	**Datalink**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Set the type of datalink.
	ETHERNETII: ETHERNETII
	IEEE8023LLCSNAP: 802.3 SNAP
Response Syntax	<Status>
Example(s)	SOURce:DATA:TELecom:ETHernet:NETWork:DATalink:TYPE ETHERNETII
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DATalink?

:SOURce:DATA:TELecom:ETHernet:NETWork:DATalink:TYPE?

Description	This query returns the Frame Format.
	At *RST condition, this value is set to ETHernet.
	Navigation Path: Setup > Test Configurator > Interface > Network > MAC - Frame Format
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:DATalink:TYPE?
Response Syntax	<Datalink>
Response(s)	**Datalink**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the status of Frame Format
	ETHERNETII, Returns ETHERNETII as datalink.
	IEEE8023LlcSnap,returns 802.3 SNAP as datalink.
Example(s)	SOURce:DATA:TELecom:ETHernet:NETWork:DATalink:TYPE ETHERNETII
	SOURce:DATA:TELecom:ETHernet:NETWork:DATalink:TYPE?
	Returns: ETHERNETII
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DATalink?

:SOURce:DATA:TELecom:ETHernet:NETWork:DEFault:GATeway:ADDRess

Description	This command sets the Default Gateway address. At *RST condition, this value is set to 0.0.0.0. Navigation Path: Setup > Test Configurator > Interface > Network > IP - Default Gateway
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:DEFault:GATeway:ADDRess <wsp><address>
Parameter(s)	**address**: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Sets the Default gateway address.
Response Syntax	<Datalink>
Example(s)	SOUR:DATA:TEL:ETH:NETW:DEF:GAT:ADDR 10.192.5.139 SOUR:DATA:TEL:ETH:NETW:DEF:GAT:ADDR? Returns: 10.192.5.139
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:SUBNet:MASK

:SOURce:DATA:TELecom:ETHernet:NETWork:DEFault:GATeway:ADDRess?

Description	This query returns the Default Gateway address.
	At *RST condition, this value is set to 0.0.0.0.
	Navigation Path: Setup > Test Configurator > Interface > Network > IP - Default Gateway
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:DEFault:GATeway:ADDRess?
Response Syntax	<address>
Response(s)	**address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Default gateway address.
Example(s)	SOUR:DATA:TEL:ETH:NETW:DEF:GAT:ADDR 10.192.5.139
	SOUR:DATA:TEL:ETH:NETW:DEF:GAT:ADDR?
	Returns: 10.192.5.139
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:SUBNet:MASK?

:SOURce:DATA:TELecom:ETHernet:NETWork:DEFault:GATeway:STATus

Description	This command enables/disables Default Gateway.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Interface > Network > IP - Default Gateway
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:DEFault:GATeway:STATus <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the Default gateway status for the smart loopback application.
	ON, enables the Default gateway.
	OFF, disables the Default gateway.
Response Syntax	<address>
Example(s)	SOUR:DATA:TEL:ETH:NETW:DEF:GAT:STAT ON
	SOUR:DATA:TEL:ETH:NETW:DEF:GAT:STAT?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:TRANsparent:MODE:ENABle

:SOURce:DATA:TELecom:ETHernet:NETWork:DEFault:GATeway:STATus?

Description	This query returns the on/off status of Default Gateway.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Interface > Network > IP - Default Gateway
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:DEFault:GATeway:STATus?
Response Syntax	<set>
Response(s)	**set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the Default Gateway status.
	1, Default gateway is enabled.
	0, Default gateway is disabled.
Example(s)	SOUR:DATA:TEL:ETH:NETW:DEF:GAT:STAT ON
	SOUR:DATA:TEL:ETH:NETW:DEF:GAT:STAT?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:TRANsparent:MODE:ENABle?

:SOURce:DATA:TELecom:ETHernet:NETWork:DHCP:STATus

Description	This command enables/disables the Auomatic IP (DHCP).
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Interface > Network > IP - Automatic IP (DHCP)
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:DHCP:STATus <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the DHCP status for the smart loopback application.
	ON, enables the automatic IP.
	OFF, disables the automatic IP.
Response Syntax	<set>
Example(s)	SOUR:DATA:TEL:ETH:NETW:DHCP:STAT ON
	SOUR:DATA:TEL:ETH:NETW:DHCP:STAT?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:TRANsparent:MODE:ENABle

:SOURce:DATA:TELecom:ETHernet:NETWork:DHCP:STATus?

Description	This query returns the on/off status of Automatic IP (DHCP).
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Interface > Network > IP - Automatic IP (DHCP)
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:DHCP:STATus?
Response Syntax	\<set\>
Response(s)	**set**:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA\> element.
	Returns the loopback mode status.
	1, automatic IP is enabled.
	0, automatic IP is disabled.
Example(s)	SOUR:DATA:TEL:ETH:NETW:DHCP:STAT ON
	SOUR:DATA:TEL:ETH:NETW:DHCP:STAT?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:TRANsparent:MODE:ENABle?

:SOURce:DATA:TELecom:ETHernet:NETWork:FACTory:DEFault

Description	This command enables/disables the use of factory default MAC Address.
	At *RST condition, this value is set to AUToamtic.
	Navigation Path: Setup > Test Configurator > Interface > Network > MAC - Factory Default
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:FACTory:DEFault <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Allows to activate/deactivate the display of a pop-up upon start-up of the module asking to restore the factory settings or not
	ON, activates the display of a pop-up upon start-up of the module asking to restore the factory settings or not
	OFF, deactivates the display of a pop-up upon start-up of the module asking to restore the factory settings or not
Response Syntax	<set>
Example(s)	SOURce:DATA:TELecom:ETHernet:NETWork:FACTory:DEFault ON
	SOURce:DATA:TELecom:ETHernet:NETWork:FACTory:DEFault?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:NETW:GLOB:IPV:MODE

:SOURce:DATA:TELecom:ETHernet:NETWork:FACTory:DEFault?

Description	This query returns the on/off status of Factory Default.
	At *RST condition, this value is set to AUToamtic.
	Navigation Path: Setup > Test Configurator > Interface > Network > MAC - Factory Default
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:FACTory:DEFault?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of Factory Default State
	1, Returns factory default is enable
	0, Returns factory default is disable
Example(s)	SOURce:DATA:TELecom:ETHernet:NETWork:FACTory:DEFault ON
	SOURce:DATA:TELecom:ETHernet:NETWork:FACTory:DEFault?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:NETW:GLOB:IPV:MODE?

:SOURce:DATA:TELecom:ETHernet:NETWork:LOCal:IPVersion: ADDRess

Description	This command sets the Link-Local IPv6 Address.
	At *RST condition, this value is set to FE80:0000:0000:0000:0000:0000:0000:0000.
	Navigation Path: Setup > Test Configurator > Interface > Network > IP - Link-Local IPv6 Address
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:LOCal:IPVersion:ADDRess <wsp><address>
Parameter(s)	**address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the Sets the Local IPv6 Address
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:NETW:IPV IPV6
	SOUR:DATA:TEL:ETH:NETW:LOC:IPV:ADDR FE80:0000:0000:0000:0000:0000:0000:1111
	SOUR:DATA:TEL:ETH:NETW:LOC:IPV:ADDR?
	Returns: FE80:0000:0000:0000:0000:0000:0000:1111
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:SUBNet:MASK?

:SOURce:DATA:TELecom:ETHernet:NETWork:LOCal:IPVersion: ADDRess?

Description	This query returns the Link-Local IPv6 Address.
	At *RST condition, this value is set to FE80:0000:0000:0000:0000:0000:0000:0000.
	Navigation Path: Setup > Test Configurator > Interface > Network > IP - Link-Local IPv6 Address
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:LOCal:IPVersion:ADDRess?
Response Syntax	<address>
Response(s)	**address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Link-Local IPv6 Address.
Example(s)	SOUR:DATA:TEL:ETH:NETW:IPV IPV6
	SOUR:DATA:TEL:ETH:NETW:LOC:IPV:ADDR FE80:0000:0000:0000:0000:0000:0000:1111
	SOUR:DATA:TEL:ETH:NETW:LOC:IPV:ADDR?
	Returns: FE80:0000:0000:0000:0000:0000:0000:1111
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:SUBNet:MASK?

:SOURce:DATA:TELecom:ETHernet:NETWork:MAC:ADDRess

Description	This command sets the MAC address.
	At *RST condition, this value is set to 00:00:00:00:00:00.
	Navigation Path: Setup > Test Configurator > Interface > Network > MAC - MAC Address
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:MAC:ADDRess <wsp><address>
Parameter(s)	**address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the MAC address.
Response Syntax	<address>
Example(s)	SOUR:DATA:TEL:ETH:NETW:MAC:ADDR 00:00:00:00:00:00
	SOUR:DATA:TEL:ETH:NETW:MAC:ADDR?
	Returns: 00:00:00:00:00:00
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:SUBNet:MASK

:SOURce:DATA:TELecom:ETHernet:NETWork:MAC:ADDRess?

Description	This query returns the MAC address.
	At *RST condition, this value is set to 00:00:00:00:00:00.
	Navigation Path: Setup > Test Configurator > Interface > Network > MAC - MAC Address
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:MAC:ADDRess?
Response Syntax	<address>
Response(s)	**address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the MAC address.
Example(s)	SOUR:DATA:TEL:ETH:NETW:MAC:ADDR 00:00:00:00:00:00
	SOUR:DATA:TEL:ETH:NETW:MAC:ADDR?
	Returns: 00:00:00:00:00:00
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:SUBNet:MASK?

:SOURce:DATA:TELecom:ETHernet:NETWork:SUBNet:MASK

Description	This command sets the subnet mask.
	At *RST condition, this value is set to 255:255:000:000.
	Navigation Path: Setup > Test Configurator > Interface > Network > IP - Subnet Mask
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:SUBNet:MASK <wsp><address>
Parameter(s)	**address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the subnet mask value.
Response Syntax	<address>
Example(s)	SOUR:DATA:TEL:ETH:NETW:SUBN:MASK 255.255.000.000
	SOUR:DATA:TEL:ETH:NETW:SUBN:MASK?
	Returns: 255.255.000.000
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID

:SOURce:DATA:TELecom:ETHernet:NETWork:SUBNet:MASK?

Description	This query returns the subnet mask value.
	At *RST condition, this value is set to 255:255:000:000.
	Navigation Path: Setup > Test Configurator > Interface > Network > IP - Subnet Mask
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:SUBNet:MASK?
Response Syntax	<address>
Response(s)	**address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the subnet mask value.
Example(s)	SOUR:DATA:TEL:ETH:NETW:SUBN:MASK 255.255.000.000
	SOUR:DATA:TEL:ETH:NETW:SUBN:MASK?
	Returns: 255.255.000.000
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID?

:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN

Description	This command enables/disables VLAN Tag.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Interface > Network > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Set the VLAN for the stream.
	ON, enables the VLAN.
	OFF, disables the VLAN.
Response Syntax	<address>
Example(s)	SOUR:DATA:TEL:ETH:NETW:VLAN ON
	SOUR:DATA:TEL:ETH:NETW:VLAN?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:STACked

:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID

Description	This command sets the VLAN ID.
	At *RST condition, this value is set to 2.
	Navigation Path: Setup > Test Configurator > Interface > Network > VLAN - VLAN ID
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID <wsp><Stacked>, <VLAN ID>
Parameter(s)	**Stacked**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Select the Virtual Local Area Network (VLAN) stacked.
	The value for stacked is set to 1 only.
	VLAN ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Virtual Local Area Network (VLAN) ID.
	Choices are 0 to 4095.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<address>
Example(s)	SOUR:DATA:TEL:ETH:NETW:VLAN:ID 1, 1
	SOUR:DATA:TEL:ETH:NETW:VLAN:ID? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:PRIority

:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID:ELIGiblebit

Description	This command enables/disables the VLAN Drop Eligible. At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Interface > Network > VLAN - Drop Eligible
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID:ELIGiblebit <wsp><Stacked>, <Set>
Parameter(s)	**Stacked**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. enables/disables the Virtual Local Area Network (VLAN) ID stacked. **Set**: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. enables/disables the eligible bit for the specific VLAN (Virtual Local Area Network) ID (Identification). ON, enables the eligible bit. OFF, disables the eligible bit.
Response Syntax	<address>
Example(s)	SOUR:DATA:TEL:ETH:NETW:VLAN:ID:ELIG 1, ON SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID:ELIGiblebit? 1 Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:TYPE

:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID:ELIGibl ebit?

Description	This query returns the on/off status of VLAN Drop Eligible.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Interface > Network > VLAN - Drop Eligible
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID:ELIGiblebit? <wsp><Stacked>
Parameter(s)	**Stacked**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	enables/disables the Virtual Local Area Network (VLAN) ID stacked.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of Virtual Local Area Network (VLAN) ID eligible bit.
	1, eligible bit is enabled.
	0, eligible bit is disabled.
Example(s)	SOUR:DATA:TEL:ETH:NETW:VLAN:ID:ELIG 1, ON
	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID:ELIGiblebit? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:TYPE?

:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID?

Description	This query returns the VLAN ID.
	At *RST condition, this value is set to 2.
	Navigation Path: Setup > Test Configurator > Interface > Network > VLAN - VLAN ID
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID? <wsp><Stacked>,[<VLAN ID>]
Parameter(s)	**Stacked**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Select the Virtual Local Area Network (VLAN) stacked.
	The value for stacked is set to 1 only.
	VLAN ID:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Virtual Local Area Network (VLAN) ID.
	This parameter is optional. If no token is specified, the current VLAN ID is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Vlanid>
Response(s)	**Vlanid**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Virtual Local Area Network (VLAN) ID.
Example(s)	SOUR:DATA:TEL:ETH:NETW:VLAN:ID 1, 1
	SOUR:DATA:TEL:ETH:NETW:VLAN:ID? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:PRIority?

:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:PRIority

Description	This command sets the VLAN Priority.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > Interface > Network > VLAN - Priority
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:PRIority <wsp><Stacked>, <VLAN Priority>
Parameter(s)	**Stacked**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Select the Virtual Local Area Network (VLAN) stacked.
	The value for stacked is set to 1 only.
	VLAN Priority:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Virtual Local Area Network (VLAN) priority. Choices are 0 to 7.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Vlanid>
Example(s)	SOUR:DATA:TEL:ETH:NETW:VLAN:PRI 1, 1
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID

:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:PRIority?

Description	This query returns the VLAN Priority.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > Interface > Network > VLAN - Priority
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:PRIority? <wsp><Stacked>,[<VLAN Priority>]
Parameter(s)	**Stacked**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Select the Virtual Local Area Network (VLAN) stacked.
	The value for stacked is set to 1 only.
	VLAN Priority:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current VLAN priority is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Priority>
Response(s)	**Priority**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Virtual Local Area Network (VLAN) user priority.
Example(s)	SOUR:DATA:TEL:ETH:NETW:VLAN:PRI 1, 1
	SOUR:DATA:TEL:ETH:NETW:VLAN:PRI? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID?

:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:STACked

Description	This command sets the number of stacked VLANs.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > Interface > Network > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:STACked <wsp><Stacked>
Parameter(s)	**Stacked**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the VLAN stacked.
Response Syntax	<Priority>
Example(s)	SOUR:DATA:TEL:ETH:NETW:VLAN:STACked 2
	SOUR:DATA:TEL:ETH:NETW:VLAN:STACked?
	Returns: 2
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN

:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:STACked?

Description	This query returns the number of stacked VLANs.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > Interface > Network > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:STACked?
Response Syntax	<Stacked>
Response(s)	**Stacked**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the VLAN stacked.
Example(s)	SOUR:DATA:TEL:ETH:NETW:VLAN:STACked 2
	SOUR:DATA:TEL:ETH:NETW:VLAN:STACked?
	Returns: 2
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN?

:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:TYPE

Description	This command selects the VLAN Type.
	At *RST condition, this value is set to V8100.
	Navigation Path: Setup > Test Configurator > Interface > Network > VLAN - Type
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:TYPE <wsp><Stacked>, <Vtype>
Parameter(s)	**Stacked**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the VLAN stacked.
	Vtype:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the VLAN type.
	V8100: VLAN type 8100.
	V88A8: VLAN type 88A8.
	V9100: VLAN type 9100.
	V9200: VLAN type 9200.
	V9300: VLAN type 9300.
Response Syntax	<Stacked>
Example(s)	SOUR:DATA:TEL:ETH:NETW:VLAN:TYPE 1, V8100
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID:ELIGiblebit

:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:TYPE?

Description	This query returns the VLAN Type.
	At *RST condition, this value is set to V8100.
	Navigation Path: Setup > Test Configurator > Interface > Network > VLAN - Type
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:TYPE? <wsp><Stacked>
Parameter(s)	**Stacked**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the VLAN stacked.
Response Syntax	<Vtype>
Response(s)	**Vtype**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the type of the VLAN.
	V8100, the VLAN type 8100 is selected.
	V88A8, the VLAN type 88A8 is selected.
	V9100, the VLAN type 9100 is selected.
	V9200, the VLAN type 9200 is selected.
	V9300, the VLAN type 9300 is selected.
Example(s)	SOUR:DATA:TEL:ETH:NETW:VLAN:TYPE 1, V8100
	SOUR:DATA:TEL:ETH:NETW:VLAN:TYPE? 1
	Returns: V8100
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID:ELIGiblebit?

:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN?

Description	This query returns the on/off status of VLAN Tag.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Interface > Network > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:VLAN?
Response Syntax	\<Set\>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA\> element.
	Returns the status of VLAN type frames.
	1, VLAN is enabled.
	0, VLAN is disabled.
Example(s)	SOUR:DATA:TEL:ETH:NETW:VLAN ON
	SOUR:DATA:TEL:ETH:NETW:VLAN?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:STACked?

:SOURce:DATA:TELecom:ETHernet:PORT:ADDRess:IP

Description	This command sets the port IPv4 address.
	At *RST condition, this value is set to 10.10.0.0.
	Navigation Path: Setup > Test Configurator > Interface > Network > IP - IP Address
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:ADDRess:IP <wsp><Address>
Parameter(s)	**Address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the IP address in form of string.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:PORT:ADDR:IP 10.1.1.1
	SOUR:DATA:TEL:ETH:PORT:ADDR:IP?
	Returns: 10.1.1.1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP
	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP?

:SOURce:DATA:TELecom:ETHernet:PORT:ADDRess:IP?

Description	This query returns the port IPv4 address.
	At *RST condition, this value is set to 10.10.0.0.
	Navigation Path: Setup > Test Configurator > Interface > Network > IP - IP Address
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:ADDRess:IP?
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the IP address in the form of string.
Example(s)	SOUR:DATA:TEL:ETH:PORT:ADDR:IP 10.1.1.1
	SOUR:DATA:TEL:ETH:PORT:ADDR:IP?
	Returns: 10.1.1.1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP
	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DATalink: TYPE

Description	This command sets the Frame Format for Loopback Tool.
	At *RST condition, this value is set to ETHernet.
	Navigation Path: Lpbk Tool > Network > MAC - Frame format
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DATalink:TYPE <wsp><Datalink>
Parameter(s)	**Datalink**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Set the type of datalink.
	ETHERNETII: EthernetII
	IEEE8023LLCSNAP: 802.3 SNAP
Response Syntax	<Address>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DATalink:TYPE ETHERNETII
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DATalink?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DATalink: TYPE?

Description	This returns the frame format selected for Loopback Tool.
	At *RST condition, this value is set to ETHernet.
	Navigation Path: Lpbk Tool > Network > MAC - Frame format
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DATalink:TYPE?
Response Syntax	<Datalink>
Response(s)	**Datalink**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the status of Frame Format
	ETHERNETII, Ethernet II is set as datalink.
	IEEE8023LlcSnap,802.3 SNAP is set as datalink.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DATalink:TYPE ETHERNETII
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DATalink:TYPE?
	Returns: ETHERNETII
See Also	SOURce:DATA:TELecom:ETHernet:STReam:DATalink?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DEFault: GATeway:ADDRess

Description	This command sets the default gateway address for Loopback Tool.
	At *RST condition, this value is set to 0.0.0.0.
	Navigation Path: Lpbk Tool > Network > IP - Default Gateway
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DEFault:GATeway:ADDRess <wsp><address>
Parameter(s)	**address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the Default gateway address.
Response Syntax	<Datalink>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DEFault:GATeway:ADDRess 10.192.5.139
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:DEFault:GATeway:ADDRess

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DEFault: GATeway:ADDRess?

Description	This query returns the default gateway address for Loopback Tool.
	At *RST condition, this value is set to 0.0.0.0.
	Navigation Path: Lpbk Tool > Network > IP - Default Gateway
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DEFault:GATeway:ADDRess?
Response Syntax	<address>
Response(s)	**address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Default gateway address.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DEFault:GATeway:ADDRess 10.192.5.139
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DEFault:GATeway:ADDRess?
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:DEFault:GATeway:ADDRess?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DEFault:GATeway:STATus

Description	This command sets the Default gateway status for Loopback Tool.
	At *RST condition, this value is set to OFF.
	Navigation Path: Lpbk Tool > Network > IP - Default Gateway
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DEFault:GATeway:STATus <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the Default gateway status for the smart loopback application.
	ON, enables the Default gateway.
	OFF, disables the Default gateway.
Response Syntax	<address>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DEFault:GATeway:STATus ON
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:DEFault:GATeway:STATus

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DEFault: GATeway:STATus?

Description	This query returns the Default gateway status for Loopback Tool.
	At *RST condition, this value is set to OFF.
	Navigation Path: Lpbk Tool > Network > IP - Default Gateway
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DEFault:GATeway:STATus?
Response Syntax	<set>
Response(s)	**set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the Default Gateway status.
	1, Default gateway checkbox is enabled.
	0, Default gateway checkbox disabled.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DEFault:GATeway:STATus ON
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DEFault:GATeway:STATus?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:DEFault:GATeway:STATus?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DHCP:STATus

Description	This command sets the DHCP status for Loopback Tool.
	At *RST condition, this value is set to OFF.
	Navigation Path: Lpbk Tool > Network > IP - Automatic IP (DHCP)
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DHCP:STATus <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the DHCP status for the smart loopback application.
	ON, enables the automatic IP.
	OFF, disables the automatic IP.
Response Syntax	<set>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DHCP:STATus ON
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:DHCP:STATus

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DHCP:STATus?

Description	This query returns the DHCP status for Loopback Tool.
	At *RST condition, this value is set to OFF.
	Navigation Path: Lpbk Tool > Network > IP - Automatic IP (DHCP)
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DHCP:STATus?
Response Syntax	\<set\>
Response(s)	**set**:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA\> element.
	Returns the loopback mode status.
	1, automatic IP is enabled.
	0, automatic IP is disabled.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DHCP:STATus ON
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DHCP:STATus?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:DHCP:STATus?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:FACTory: DEFault

Description	This command enables/disables the Factory default for Loopback Tool.
	At *RST condition, this value is set to AUToamtic.
	Navigation Path: Lpbk Tool > Network > MAC - Factory default
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:FACTory:DEFault <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the Factory default.
	ON,Enables Factory default.
	OFF,Disables Factory default.
Response Syntax	<set>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:FACTory:DEFault ON
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:FACTory:DEFault

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:FACTory: DEFault?

Description	This query returns the Factory default state for Loopback Tool.
	At *RST condition, this value is set to AUToamtic.
	Navigation Path: Lpbk Tool > Network > MAC - Factory default
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:FACTory:DEFault?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of Factory Default State
	1,Returns factory default is enable
	0,Returns factory default is disable
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:FACTory:DEFault ON
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:FACTory:DEFault?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:FACTory:DEFault?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:MAC:ADDRess

Description	This command sets the MAC address for Loopback Tool.
	At *RST condition, this value is set to 00:00:00:00:00:00.
	Navigation Path: Lpbk Tool > Network > MAC - MAC Address
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:MAC:ADDRess <wsp><address>
Parameter(s)	**address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the MAC address.
Response Syntax	<Set>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:MAC:ADDRess 00:00:00:00:00:00
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:MAC:ADDRess

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:MAC:ADDRess?

Description	This query returns the MAC address for Loopback Tool.
	At *RST condition, this value is set to 00:00:00:00:00:00.
	Navigation Path: Lpbk Tool > Network > MAC - MAC Address
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:MAC:ADDRess?
Response Syntax	<address>
Response(s)	**address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the MAC address.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:MAC:ADDRess 00:00:00:00:00:00
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:MAC:ADDRess?
	Returns: 00:00:00:00:00:00
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:MAC:ADDRess?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:SUBNet: MASK

Description	This command sets the subnet mask for Loopback Tool.
	At *RST condition, this value is set to 255:255:000:000.
	Navigation Path: Lpbk Tool > Network > IP - Subnet Mask
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:SUBNet:MASK <wsp><address>
Parameter(s)	**address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the subnet mask value.
Response Syntax	<address>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:SUBNet:MASK 255.255.000.000
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:SUBNet:MASK?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:SUBNet:MASK?

Description	This query returns the subnet mask value for Loopback Tool.
	At *RST condition, this value is set to 255:255:000:000.
	Navigation Path: Lpbk Tool > Network > IP - Subnet Mask
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:SUBNet:MASK?
Response Syntax	<address>
Response(s)	**address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the subnet mask value.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:SUBNet:MASK 255.255.000.000
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:SUBNet:MASK?
	Returns: 255.255.000.000
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:SUBNet:MASK?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN

Description	This command enables/disables VLAN type for Loopback Tool.
	At *RST condition, this value is set to OFF.
	Navigation Path: Lpbk Tool > Network > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Set the VLAN for the Smart loopback tool test.
	ON, enables the VLAN.
	OFF, disables the VLAN.
Response Syntax	<address>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN ON
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:ID

Description	This command sets the Virtual Local Area Network (VLAN) Identification (ID) for Loopback Tool.
	At *RST condition, this value is set to 2.
	Navigation Path: Lpbk Tool > Network > VLAN - VLAN ID
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:ID <wsp><Stacked>, <Vlanid>
Parameter(s)	**Stacked**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Select the Virtual Local Area Network (VLAN) stacked.
	The value for stacked is set to 1 only.
	Vlanid:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Virtual Local Area Network (VLAN) ID.
	Choices are 0 to 4095.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<address>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:ID 1,1
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:ID: ELIGiblebit

Description	This command enables/disables the Virtual Local Area Network (VLAN) Identification (ID) eligible bit for Loopback Tool.
	At *RST condition, this value is set to OFF.
	Navigation Path: Lpbk Tool > Network > VLAN - Drop Eligible
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:ID:ELIGiblebit <wsp><Stacked>, <Set>
Parameter(s)	**Stacked**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	enables/disables the Virtual Local Area Network (VLAN) ID stacked.
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the eligible bit for the specific VLAN (Virtual Local Area Network) ID (Identification).
	ON, enables the eligible bit.
	OFF, disables the eligible bit.
Response Syntax	<address>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:ID:ELIGiblebit 1,ON
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID:ELIGiblebit

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:ID: ELIGiblebit?

Description	This query returns the status of Virtual Local Area Network (VLAN) Identification (ID) eligible bit for Loopback Tool.
	At *RST condition, this value is set to OFF.
	Navigation Path: Lpbk Tool > Network > VLAN - Drop Eligible
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:ID:ELIGiblebit? <wsp><Stacked>
Parameter(s)	**Stacked**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	enables/disables the Virtual Local Area Network (VLAN) ID stacked.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of Virtual Local Area Network (VLAN) ID eligible bit.
	1, eligible bit is enabled.
	0, eligible bit is disabled.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:ID:ELIGiblebit 1,ON
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:ID:ELIGiblebit? 1
	Returns: ON
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID:ELIGiblebit?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:ID?

Description	This query returns the Virtual Local Area Network (VLAN) Identification (ID) for Loopback Tool.
	At *RST condition, this value is set to 2.
	Navigation Path: Lpbk Tool > Network > VLAN - VLAN ID
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:ID? <wsp><Stacked>,[<Vlanid>]
Parameter(s)	**Stacked**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Select the Virtual Local Area Network (VLAN) stacked.
	The value for stacked is set to 1 only.
	Vlanid:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Virtual Local Area Network (VLAN) ID.
	This parameter is optional. If no token is specified, the current VLAN ID will be returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Vlanid>
Response(s)	**Vlanid**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Virtual Local Area Network (VLAN) ID.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:ID 1,1
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:ID? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:ID?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:PRIority

Description	This command sets the Virtual Local Area Network (VLAN) user priority for Loopback Tool.
	At *RST condition, this value is set to 0.
	Navigation Path: Lpbk Tool > Network > VLAN - Priority
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:PRIority <wsp><Stacked>, <VlanPriority>
Parameter(s)	**Stacked**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Select the Virtual Local Area Network (VLAN) stacked.
	The value for stacked is set to 1 only.
	VlanPriority:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Virtual Local Area Network (VLAN) priority. Choices are 0 to 7.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Vlanid>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:PRIority 1,1
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:PRIority

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:PRIority?

Description	This query returns the Virtual Local Area Network (VLAN) user priority for Loopback Tool.
	At *RST condition, this value is set to 0.
	Navigation Path: Lpbk Tool > Network > VLAN - Priority
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:PRIority? <wsp><Stacked>,[<VlanPriority>]
Parameter(s)	**Stacked**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Select the Virtual Local Area Network (VLAN) stacked.
	The value for stacked is set to 1 only.
	VlanPriority:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current VLAN priority will be returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Priority>
Response(s)	**Priority**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Virtual Local Area Network (VLAN) user priority.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:PRIority 1,1
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:PRIority? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:PRIority?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:STACked

Description	This command sets the number of stacked VLAN for Loopback Tool.
	At *RST condition, this value is set to 1.
	Navigation Path: Lpbk Tool > Network > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:STACked <wsp><Stacked>
Parameter(s)	**Stacked**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the VLAN stacked.
Response Syntax	<Priority>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:STACked 1
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:STACked

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:STACked?

Description	This query returns the number of stacked VLAN for Loopback Tool.
	At *RST condition, this value is set to 1.
	Navigation Path: Lpbk Tool > Network > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:STACked?
Response Syntax	<Stacked>
Response(s)	**Stacked**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the VLAN stacked.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:STACked 1
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:STACked?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:STACked?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:TYPE

Description	This command selects the Virtual Local Area Network (VLAN) Ethernet type for Loopback Tool.
	At *RST condition, this value is set to V8100.
	Navigation Path: Lpbk Tool > Network > VLAN - Type
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:TYPE <wsp><Stacked>, <Vtype>
Parameter(s)	**Stacked**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the VLAN stacked.
	Vtype:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the VLAN type.
	V8100: VLAN type 8100.
	V88A8: VLAN type 88A8.
	V9100: VLAN type 9100.
	V9200: VLAN type 9200.
	V9300: VLAN type 9300.
Response Syntax	<Stacked>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:TYPE 1,V8100
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:TYPE

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:TYPE?

Description	This query returns the Virtual Local Area Network (VLAN) Ethernet type for Loopback Tool.
	At *RST condition, this value is set to V8100.
	Navigation Path: Lpbk Tool > Network > VLAN - Type
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:TYPE? <wsp><Stacked>
Parameter(s)	**Stacked**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the VLAN stacked.
Response Syntax	<Vtype>
Response(s)	**Vtype**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the type of the VLAN.
	V8100, the VLAN type 8100 is selected.
	V88A8, the VLAN type 88A8 is selected.
	V9100, the VLAN type 9100 is selected.
	V9200, the VLAN type 9200 is selected.
	V9300, the VLAN type 9300 is selected.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:TYPE 1,V8100
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN:TYPE? 1
	Returns: V8100
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN:TYPE?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN?

Description	This query returns the status of VLAN type frames for Loopback Tool.
	At *RST condition, this value is set to OFF.
	Navigation Path: Lpbk Tool > Network > VLAN - VLAN Tag
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of VLAN type frames.
	1, VLAN is enabled.
	0, VLAN is disabled.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN ON
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:VLAN?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:VLAN?

:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:ADDRess:IP

Description	This command sets the port IPv4 address for Loopback Tool.
	At *RST condition, this value is set to 10.10.0.0.
	Navigation Path: Lpbk Tool > Network > IP - IP Address
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:ADDRess:IP <wsp><Address>
Parameter(s)	**Address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the IP address in form of string.
Response Syntax	<Set>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:PORT:ADDRess:IP 125.105.245.145
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP
	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP?

:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:ADDRess:IP?

Description	This query returns the port IPv4 address for Loopback Tool.
	At *RST condition, this value is set to 10.10.0.0.
	Navigation Path: Lpbk Tool > Network > IP - IP Address
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:ADDRess:IP?
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the IP address in the form of string.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:PORT:ADDRess:IP 125.105.245.145
	SOURce:DATA:TELecom:ETHernet:SLTool:PORT:ADDRess:IP?
	Returns: 125.105.245.145
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP
	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP?

:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:IPVersion

Description	This command selects the IP Version for Loopback Tool.
	At *RST condition, this value is set to IPV4.
	Navigation Path: Lpbk Tool > Network > IP - IP Version
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:IPVersion \<wsp>\<IP Version>
Parameter(s)	**IP Version**:
	The program data syntax for the first parameter is defined as a \<CHARACTER PROGRAM DATA> element.
	Selects the IP version for Smart loopback tool test.
	IPV6
	IPV4
Response Syntax	\<Address>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:PORT:IPVersion IPV6
See Also	SOURce:DATA:TELecom:ETHernet:PORT:IPVersion

:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:IPVersion?

Description	This query returns the IP Version for Loopback Tool.
	At *RST condition, this value is set to IPV4.
	Navigation Path: Lpbk Tool > Network > IP - IP Version
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:PORT:IPVersion?
Response Syntax	<IP Version>
Response(s)	**IP Version**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the IP version.
	IPV4,IPv4 is selected as IP Version.
	IPV6,IPv6 is selected as IP Version.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:PORT:IPVersion IPV6
	SOURce:DATA:TELecom:ETHernet:SLTool:PORT:IPVersion?
	Returns: IPV6
See Also	SOURce:DATA:TELecom:ETHernet:PORT:IPVersion?

Signal Auto-Detect

:FETCh:DATA:TELecom:SIGNal:AUTO:DETect:CODE?

Description	This query returns the detected Line Coding.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Singal Auto-Detect > Line Coding
Syntax	:FETCh:DATA:TELecom:SIGNal:AUTO:DETect:CODE?
Response Syntax	<code>
Response(s)	**code**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the value of Line code.
Example(s)	FETC:DATA:TEL:SIGN:AUTO:DET:CODE?
See Also	SENSe:DATA:TELecom:OPTical:RX:POWer:MINimum?

:FETCh:DATA:TELecom:SIGNal:AUTO:DETect:DS[1..n]:FRAMing?

Description	This query returns the detected framing.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Singal Auto-Detect > DS1/DS3 Framing
Syntax	:FETCh:DATA:TELecom:SIGNal:AUTO:DETect:DS[1..n]:FRAMing?
Response Syntax	<Framing>
Response(s)	**Framing**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the value of DS framing.
Example(s)	FETC:DATA:TEL:SIGN:AUTO:DET:DS1:FRAM?
See Also	SENSe:DATA:TELecom:OPTical:TX:POWer?

:FETCh:DATA:TELecom:SIGNal:AUTO:DETect:PATTern?

Description	This query returns the detected Test Pattern.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Singal Auto-Detect > Test Pattern
Syntax	:FETCh:DATA:TELecom:SIGNal:AUTO:DETect:PATTern?
Response Syntax	\<Maximum Amplitude\>
Response(s)	**Maximum Amplitude**:
	The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA\> element.
	Returns the Pattern.
Example(s)	FETC:DATA:TEL:SIGN:AUTO:DET:PATT?
See Also	SENSe:DATA:TELecom:OPTical:RX:POWer:MINimum?

:FETCh:DATA:TELecom:SIGNal:AUTO:DETect:STATe?

Description	This query returns the signal auto-detect status message.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Singal Auto-Detect > Detecting/Successful/Failed
Syntax	:FETCh:DATA:TELecom:SIGNal:AUTO:DETect:STATe?
Response Syntax	<state>
Response(s)	**state**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the signal auto detection state.
Example(s)	FETC:DATA:TEL:SIGN:AUTO:DET:STAT?
See Also	SENSe:DATA:TELecom:OPTical:RX:POWer:MINimum?

:FETCh:DATA:TELecom:SIGNal:AUTO:DETect?

Description	This query returns the status of start signal auto detection.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Singal Auto-Detect
Syntax	:FETCh:DATA:TELecom:SIGNal:AUTO:DETect?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of signal detection
	0, abort signal detection is disabled,
	1, abort signal detection is enabled
Example(s)	FETC:DATA:TEL:SIGN:AUTO:DET?
See Also	SENSe:DATA:TELecom:OPTical:TX:POWer?

:SOURce:DATA:TELecom:SIGNal:AUTO:DETect

Description	This command starts the signal auto detection.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Singal Auto-Detect
Syntax	:SOURce:DATA:TELecom:SIGNal:AUTO:DETect <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SIGN:AUTO:DET ON
See Also	SENSe:DATA:TELecom:OPTical:TX:POWer?

:SOURce:DATA:TELecom:SIGNal:AUTO:DETect:ABORt

Description	This command stops the signal auto detection.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Singal Auto-Detect > Abort
Syntax	:SOURce:DATA:TELecom:SIGNal:AUTO:DETect:ABORt <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SIGN:AUTO:DET:ABOR ON
See Also	SENSe:DATA:TELecom:OPTical:TX:POWer?

:SOURce:DATA:TELecom:SIGNal:AUTO:DETect:ABORt?

Description	This query returns the on/off status of the abort signal auto detection.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Singal Auto-Detect > Abort
Syntax	:SOURce:DATA:TELecom:SIGNal:AUTO:DETect:ABORt?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of abort signal detection
	0, abort signal detection is disabled,
	1, abort signal detection is enabled
Example(s)	SOUR:DATA:TEL:SIGN:AUTO:DET:ABOR ON
	SOUR:DATA:TEL:SIGN:AUTO:DET:ABOR?
	Returns: 1
See Also	SENSe:DATA:TELecom:OPTical:TX:POWer?

:SOURce:DATA:TELecom:SIGNal:AUTO:DETect?

Description	This query returns the status of start signal auto detection.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Singal Auto-Detect
Syntax	:SOURce:DATA:TELecom:SIGNal:AUTO:DETect?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of start signal detection
	0, signal detection is disabled,
	1, signal detection is enabled
Example(s)	SOUR:DATA:TEL:SIGN:AUTO:DET ON
	SOUR:DATA:TEL:SIGN:AUTO:DET?
	Returns: 1
See Also	SENSe:DATA:TELecom:OPTical:TX:POWer?

DS1 Loopback

:FETCh:DATA:TELecom:DS[1..n]:LOOP:DOWN?

Description	This command returns the Loop-Down code used for injection.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > Test Configurator > DS1 > Loopback > Loop-Down
Syntax	:FETCh:DATA:TELecom:DS[1..n]:LOOP:DOWN?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Loopdown values.
Example(s)	FETCh:DATA:TEL:DS1:LOOP:DOWN?
See Also	SOURce:DATA:TELecom:MDIO:READ

:FETCh:DATA:TELecom:DS[1..n]:LOOP:UP?

Description	This command returns the Loop-Up code used for injection.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > Test Configurator > DS1 > Loopback > Loop-Up
Syntax	:FETCh:DATA:TELecom:DS[1..n]:LOOP:UP?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Loopup values.
Example(s)	FETCh:DATA:TEL:DS1:LOOP:UP?
See Also	SOURce:DATA:TELecom:MDIO:WRITe

:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE

Description	This command selects the Loop Code.
	At *RST condition, this value set to CSU.
	Navigation Path: Setup > Test Configurator > DS1 > Loopback > Loop Code
Syntax	:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE <wsp><Loopcode>
Parameter(s)	**Loopcode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Loop Code.
	CSU: CSU (10000/100)
	INBANDLOCODE1: Loop Code 1
	INBANDLOCODE2: Loop Code 2
	INBANDLOCODE3: Loop Code 3
	INBANDLOCODE4: Loop Code 4
	INBANDLOCODE5: Loop Code 5
	INBANDLOCODE6: Loop Code 6
	INBANDLOCODE7: Loop Code 7
	INBANDLOCODE8: Loop Code 8
	INBANDLOCODE9: Loop Code 9
	INBANDLOCODE10: Loop Code 10
	NFAC1: NIU FAC1 (1100/1110)
	NFAC2: NIU FAC2 (11000/11100)
	NFAC3: NIU FAC3 (100000/100)
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:DS1:LOOP:CODE FAC1
See Also	SOURce:DATA:TELecom:BACKground:COMPutation

:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE:INJect

Description	This events injects either a Loop-Up or Loop-Down.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > Test Configurator > DS1 > Loopback > Loop-Up/Loop-Down
Syntax	:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE:INJect <wsp><Loopcode>
Parameter(s)	**Loopcode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Loopcode type
	LOOPUP: LOOPUP
	LOOPDOWN: LOOPDOWN
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:DS1:LOOP:CODE:INJect LOOPUP
See Also	SOURce:DATA:TELecom:MDIO:READ

:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE:NAME

Description	This command selects the Loop Code name.
	At *RST condition, this value set to Loop Code
	Navigation Path: Setup > Test Configurator > DS1 > Loopback > Modify Loop Codes > Name
Syntax	:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE:NAME <wsp><Loopcode>, <Value>
Parameter(s)	**Loopcode**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Loopcode ID
	Range is from 1 To 10.
	Value:
	The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the Loopcode value.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:DS1:LOOP:CODE:NAME 1, AAAAA
	SOUR:DATA:TEL:DS1:LOOP:CODE:NAME? 1
	Returns: AAAA
See Also	SOURce:DATA:TELecom:BACKground:COMPutation

:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE:NAME?

Description	This query returns the Loop Code name.
	At *RST condition, this value set to EQUIPPED1.
	Navigation Path: Setup > Test Configurator > DS1 > Loopback > Modify Loop Codes > Name
Syntax	:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE:NAME? <wsp><Loopcode>
Parameter(s)	**Loopcode**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Loopcode ID
	Range is from 1 To 10.
Response Syntax	<Loopcode>
Response(s)	**Loopcode**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Loopcode values
Example(s)	SOUR:DATA:TEL:DS1:LOOP:CODE:NAME 1, AAAAA
	SOUR:DATA:TEL:DS1:LOOP:CODE:NAME? 1
	Returns: AAAA
See Also	SOURce:DATA:TELecom:BACKground:COMPutation?

:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE?

Description	This query returns the Loop Code.
	At *RST condition, this value set to CSU.
	Navigation Path: Setup > Test Configurator > DS1 > Loopback > Loop Code
Syntax	:SOURce:DATA:TELecom:DS[1..n]:LOOP:CODE?
Response Syntax	<Loopcode>
Response(s)	**Loopcode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Loop Code:
	CSU: CSU (10000/100)
	INBANDLOCODE1: Loop Code 1
	INBANDLOCODE2: Loop Code 2
	INBANDLOCODE3: Loop Code 3
	INBANDLOCODE4: Loop Code 4
	INBANDLOCODE5: Loop Code 5
	INBANDLOCODE6: Loop Code 6
	INBANDLOCODE7: Loop Code 7
	INBANDLOCODE8: Loop Code 8
	INBANDLOCODE9: Loop Code 9
	INBANDLOCODE10: Loop Code 10
	NFAC1: NIU FAC1 (1100/1110)
	NFAC2: NIU FAC2 (11000/11100)
	NFAC3: NIU FAC3 (100000/100)
Example(s)	SOUR:DATA:TEL:DS1:LOOP:CODE FAC1
	SOUR:DATA:TEL:DS1:LOOP:CODE?
	Returns: FAC1
See Also	SOURce:DATA:TELecom:BACKground:COMPutation?

:SOURce:DATA:TELecom:DS[1..n]:LOOP:DOWN

Description	This command sets the Loop-Down code.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > Test Configurator > DS1 > Loopback > Modify Loop Codes > Loop-Down
Syntax	:SOURce:DATA:TELecom:DS[1..n]:LOOP:DOWN <wsp><Loopcode>, <Loop-Down>
Parameter(s)	**Loopcode**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Loopcode Type
	Range for Loopcode is from 1 To 10
	Loop-Down:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Loopdown value.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Loopcode>
Example(s)	SOUR:DATA:TEL:DS1:LOOP:DOWN 1,1100
See Also	SOURce:DATA:TELecom:MDIO:READ

:SOURce:DATA:TELecom:DS[1..n]:LOOP:DOWN?

Description	This command returns the Loop-Down code.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > Test Configurator > DS1 > Loopback > Modify Loop Codes > Loop-Down
Syntax	:SOURce:DATA:TELecom:DS[1..n]:LOOP:DOWN? <wsp><Loopcode>
Parameter(s)	**Loopcode**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Loopcode Type
	Range for Loopcode is from 1 To 10
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Loopdown values.
Example(s)	SOUR:DATA:TEL:DS1:LOOP:DOWN 1,1100
	SOUR:DATA:TEL:DS1:LOOP:DOWN? 1
	Returns: 1100
See Also	SOURce:DATA:TELecom:MDIO:READ

:SOURce:DATA:TELecom:DS[1..n]:LOOP:UP

Description	This command set the Loop-Up code.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > Test Configurator > DS1 > Loopback > Modify Loop Codes > Loop-Up
Syntax	:SOURce:DATA:TELecom:DS[1..n]:LOOP:UP <wsp><Loopcode>, <Loop-Up>
Parameter(s)	**Loopcode**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Loopcode Type
	Range for Loopcode is from 1 To 10
	Loop-Up:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Loopup value.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:DS1:LOOP:UP 1,1100
See Also	SOURce:DATA:TELecom:MDIO:WRITe

:SOURce:DATA:TELecom:DS[1..n]:LOOP:UP?

Description	This query returns the Loop-Up code.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > Test Configurator > DS1 > Loopback > Modify Loop Codes > Loop-Up
Syntax	:SOURce:DATA:TELecom:DS[1..n]:LOOP:UP? <wsp><Loopcode>
Parameter(s)	**Loopcode**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Loopcode Type
	Range for Loopcode is from 1 To 10
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Loopup values.
Example(s)	SOUR:DATA:TEL:DS1:LOOP:UP 1,1100
	SOUR:DATA:TEL:DS1:LOOP:UP? 1
	Returns: 1100
See Also	SOURce:DATA:TELecom:MDIO:WRITe

RFC 2544 - Subtests

:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ACCuracy

Description	This command sets the accuracy measurement for Back-to-Back subtest.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Back-to-Back - Accuracy
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ACCuracy <wsp><Accuracy>
Parameter(s)	**Accuracy**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects accuracy measurement value in frames. Choices are 1 to 50.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:ETH:RFC:BCKT:ACC 10
	SOUR:DATA:TEL:ETH:RFC:BCKT:ACC?
	Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:MTFRames
	SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:MTFRames?

:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ACCuracy?

Description	This query returns the accuracy measurement for Back-to-Back subtest.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Back-to-Back - Accuracy
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ACCuracy?[<wsp><Accuracy>]
Parameter(s)	Accuracy:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current accuracy measurement in frames is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Accuracy>
Response(s)	Accuracy:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the accuracy measurement value.
Example(s)	SOUR:DATA:TEL:ETH:RFC:BCKT:ACC 10
	SOUR:DATA:TEL:ETH:RFC:BCKT:ACC?
	Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:MTFRames
	SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:MTFRames?

:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:AERRors

Description	This command sets the number of acceptable errors for Back-to-Back subtest.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Back-to-Back - Acceptable Errors
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:AERRors <wsp><Errors>
Parameter(s)	Errors:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the number of acceptable errors. Choices are 0 to 10.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Accuracy>
Example(s)	SOUR:DATA:TEL:ETH:RFC:BCKT:AERR 10
	SOUR:DATA:TEL:ETH:RFC:BCKT:AERR?
	Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors
	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors?

:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:AERRors?

Description	This query returns the number of acceptable errors for Back-to-Back subtest.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Back-to-Back - Acceptable Errors
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:AERRors?[<wsp><Errors>]
Parameter(s)	Errors:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current number of acceptable errors for the back-to-back subtest is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Errors>
Response(s)	Errors:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of acceptable errors.
Example(s)	SOUR:DATA:TEL:ETH:RFC:BCKT:AERR 10
	SOUR:DATA:TEL:ETH:RFC:BCKT:AERR?
	Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors
	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors?

:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:MTFRames

Description	This command sets the burst time for Back-to-Back subtest.
	At *RST condition, this value is set to 00:01.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Back-to-Back - Burst Time
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:MTFRames[<wsp><Time>]
Parameter(s)	**Time**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Selects the burst time.
Response Syntax	<Errors>
Example(s)	SOUR:DATA:TEL:ETH:RFC:BCKT:MTFR 00:01
	SOUR:DATA:TEL:ETH:RFC:BCKT:MTFR?
	Returns: 00:01
See Also	SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ACCuracy?
	SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ACCuracy

:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:MTFRames ?

Description	This query returns the burst time for Back-to-Back subtest.
	At *RST condition, this value is set to 00:01.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Back-to-Back - Burst Time
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:MTFRames?
Response Syntax	<Time>
Response(s)	**Time**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the maximum time worth of frames (Burst Time).
Example(s)	SOUR:DATA:TEL:ETH:RFC:BCKT:MTFR 00:01
	SOUR:DATA:TEL:ETH:RFC:BCKT:MTFR?
	Returns: 00:01
See Also	SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ACCuracy?
	SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:ACCuracy

:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:NBURst

Description	This command sets the number of bursts that is generated for Back-to-Back subtest.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Back-to-Back - Bursts
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:NBURst <wsp><Nburst>
Parameter(s)	**Nburst**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the number of bursts that is generated for Back-to-Back subtest.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Time>
Example(s)	SOUR:DATA:TEL:ETH:RFC:BCKT:NBUR 10
	SOUR:DATA:TEL:ETH:RFC:BCKT:NBUR?
	Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:TAVerage

:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:NBURst?

Description	This query returns the number of bursts that is generated for Back-to-Back subtest.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Back-to-Back - Bursts
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:NBURst?[<wsp><Nburst>]
Parameter(s)	**Nburst**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current number of bursts generated is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Burst>
Response(s)	**Burst**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of bursts.
Example(s)	SOUR:DATA:TEL:ETH:RFC:BCKT:NBUR 10
	SOUR:DATA:TEL:ETH:RFC:BCKT:NBUR?
	Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:TAVerage?

:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:TAVerage

Description	This command sets the number of times the Back-to-Back subtest is generated.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Back-to-Back - Trials
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:TAVerage <wsp><Average>
Parameter(s)	**Average**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the number of trials. Choices are 1 to 100.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Burst>
Example(s)	SOUR:DATA:TEL:ETH:RFC:BCKT:TAV 10
	SOUR:DATA:TEL:ETH:RFC:BCKT:TAV?
	Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage
	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage?

:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:TAVerage?

Description	This query returns the number of times the Back-to-Back subtest is generated.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Back-to-Back - Trials
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:TAVerage?[<wsp><Average>]
Parameter(s)	**Average**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current number of times the back-to-back subtest is generated is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Average>
Response(s)	**Average**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of trials.
Example(s)	SOUR:DATA:TEL:ETH:RFC:BCKT:TAV 10
	SOUR:DATA:TEL:ETH:RFC:BCKT:TAV?
	Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage
	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage?

:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:MAXRate

Description	This command sets the maximum rate for Frame Loss subtest.
	At *RST condition, this value is set to 100.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Frame Loss - Max. Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:MAXRate <wsp><Direction>, <Maxrate>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the direction.
	(For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1)
	TX2RX: TX-to-RX (TX2RX) for single port topology.
	LTORemote: Local-to-Remote direction.
	RTOLocal: Remote-to-Local direction.
	P1TOP2: P1 -TO-P2.
	P2TOP1: P2 -TO-P1.
	BIDirectional: Bidirectional
	Maxrate:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the maximum rate for the Frame Loss test.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Average>
Example(s)	SOUR:DATA:TEL:ETH:RFC:FLOS:MAXR TX2RX,10.00
	SOUR:DATA:TEL:ETH:RFC:FLOS:MAXR? TX2RX
	Returns: 10.00
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate
	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate?

:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:MAXRate?

Description	This query returns the maximum rate for Frame Loss subtest.
	At *RST condition, this value is set to 100.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Frame Loss - Max. Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:MAXRate? <wsp><Direction>,[<Maxrate>]
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the direction.
	(For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1)
	TX2RX: TX-to-RX (TX2RX) for single port topology.
	LTORemote: Local-to-Remote direction.
	RTOLocal: Remote-to-Local direction.
	P1TOP2: P1 -TO-P2.
	P2TOP1: P2 -TO-P1.
	BIDirectional: Bidirectional
	Maxrate:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the maximum rate for the Frame Loss test.
	This parameter is optional. If no token is specified, the current maximum rate for the Frame Loss subtest is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Maxrate>

:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:MAXRate?

Response(s)	**Maxrate**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the maximum rate for the Frame Loss test.
Example(s)	SOUR:DATA:TEL:ETH:RFC:FLOS:MAXR TX2RX,10.00
	SOUR:DATA:TEL:ETH:RFC:FLOS:MAXR? TX2RX
	Returns: 10.00
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate
	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate?

:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TAVerage

Description	This command sets the number of times the Frame Loss subtest is generated.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Frame Loss - Trials
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TAVerage <wsp><Average>
Parameter(s)	**Average**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the number of times the Frame Loss test is generated. Choices are 1 to 50.
	MAXimum: Biggest supported number
	MINimum: Smallest supported number
	DEFault: Default value
Response Syntax	<Maxrate>
Example(s)	SOUR:DATA:TEL:ETH:RFC:FLOS:TAV 10
	SOUR:DATA:TEL:ETH:RFC:FLOS:TAV?
	Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:TAVerage
	SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:TAVerage?

:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TAVerage?

Description	This query returns the number of times the Frame Loss subtest is generated.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Frame Loss - Trials
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TAVerage?[<wsp><Average>]
Parameter(s)	**Average**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the number of times the Frame Loss test is generated. Choices are 1 to 50.
	This parameter is optional. If no token is specified, the current number of times the Frame Loss subtest generated is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Average>
Response(s)	**Average**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of times the Frame Loss test is generated.
Example(s)	SOUR:DATA:TEL:ETH:RFC:FLOS:TAV 10
	SOUR:DATA:TEL:ETH:RFC:FLOS:TAV?
	Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:TAVerage
	SOURce:DATA:TELecom:ETHernet:RFC:BCKTobck:TAVerage?

:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TGRanularity

Description	This command sets the granularity for Frame Loss subtest.
	At *RST condition, this value is set to 10.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Frame Loss - Granularity
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TGRanularity <wsp><Granularity>
Parameter(s)	**Granularity**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the test granularity percentage. Choices are 1 to 10.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Average>
Example(s)	SOUR:DATA:TEL:ETH:RFC:FLOS:TGR 10
	SOUR:DATA:TEL:ETH:RFC:FLOS:TGR?
	Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TTIMe?

:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TGRanularity?

Description	This query returns the granularity for Frame Loss subtest.
	At *RST condition, this value is set to 10.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Frame Loss - Granularity
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TGRanularity?[<wsp><Granularity>]
Parameter(s)	**Granularity**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current percentage of Frame Loss subtest granularity is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Granularity>
Response(s)	**Granularity**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the test granularity percentage.
Example(s)	SOUR:DATA:TEL:ETH:RFC:FLOS:TGR 10
	SOUR:DATA:TEL:ETH:RFC:FLOS:TGR?
	Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TTIMe

:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TTIMe

Description	This command sets the trial duration for Frame loss subtest.
	At *RST condition, this value is set to 00:01.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Frame Loss - Trial Duration
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TTIMe <wsp><Time>
Parameter(s)	**Time**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the trial duration for the Frame Loss test.
Response Syntax	<Granularity>
Example(s)	SOUR:DATA:TEL:ETH:RFC:FLOS:TTIM 30:00
	SOUR:DATA:TEL:ETH:RFC:FLOS:TTIM?
	Returns: 30:00
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TTIMe
	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TTIMe?

:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TTIMe?

Description	This query returns the trial duration for the Frame Loss subtest.
	At *RST condition, this value is set to 00:01.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Frame Loss - Trial Duration
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TTIMe?
Response Syntax	<Time>
Response(s)	**Time**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the test trial duration value.
Example(s)	SOUR:DATA:TEL:ETH:RFC:FLOS:TTIM 30:00
	SOUR:DATA:TEL:ETH:RFC:FLOS:TTIM?
	Returns: 30:00
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TTIMe
	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TTIMe?

:SOURce:DATA:TELecom:ETHernet:RFC:GLOBal:LMMode

Description	This command sets the measurement mode for Latency subtest.
	At *RST condition, the value is set to Round Trip.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Latency - Measurement Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:GLOBal:LMMode <wsp><Latency Measurment Mode>
Parameter(s)	**Latency Measurment Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Latency measurement mode.
	ONEWay: One Way.
	RTLATENCY: Round Trip Latency.
Response Syntax	<Time>
Example(s)	SOUR:DATA:TEL:ETH:RFC:GLOB:LMM RTLATENCY
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:LMMode?

:SOURce:DATA:TELecom:ETHernet:RFC:GLOBal:LMMode?

Description	This query returns the measurement mode for Latency subtest.
	At *RST condition, the value is Round Trip.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Latency - Measurement Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:GLOBal:LMMode?
Response Syntax	<Latency measurement mode>
Response(s)	**Latency measurement mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Latency measurement mode.
	ONEWAY, One way is selected as latency mode.
	RTLATENCY,Round Trip Latency is selected as latency mode.
Example(s)	SOUR:DATA:TEL:ETH:RFC:GLOB:LMM RTLATENCY
	SOUR:DATA:TEL:ETH:RFC:GLOB:LMM?
	Returns: RTLATENCY
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:GLOBal:LMMode

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:COPYtest

Description	This command enables/disables the Copy From Throughput test to get values from the throughput test results.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Latency - Copy From Throughput
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LATency:COPYtest <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	ON, enables the copy from the throughput test.
	OFF, disables the copy from the throughput test.
Response Syntax	<Latency measurement mode>
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:COPY ON
	SOUR:DATA:TEL:ETH:RFC:LAT:COPY?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TTIMe
	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TTIMe?

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:COPYtest?

Description	This query returns the on/off status of the Copy From Throughput test setting.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Latency - Copy From Throughput
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LATency:COPYtest?
Response Syntax	<Get>
Response(s)	**Get**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of copy from the throughput test.
	0, returns the status of copy from the throughput test as OFF.
	1, returns the status of copy from the throughput test as ON.
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:COPY ON
	SOUR:DATA:TEL:ETH:RFC:LAT:COPY?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TTIMe
	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TTIMe?

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MARGin

Description	This command sets the maximum rate of each frame size for Latency subtest.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Latency - Margin
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MARGin <wsp><Margin>
Parameter(s)	**Margin**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the maximum rate for each frame size.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
	DEFault: Default value
Response Syntax	<Get>
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:MARG 1
	SOUR:DATA:TEL:ETH:RFC:LAT:MARG?
See Also	SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TAVerage
	SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TAVerage?

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MARGin?

Description	This query returns the maximum rate of each frame size for Latency subtest.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Latency - Margin
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LATency:MARGin?[<wsp><Margin>]
Parameter(s)	**Margin**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the maximum rate for each frame size.
	This parameter is optional. If no token is specified, the current maximum rate for each frame size is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Percenatge>
Response(s)	**Percenatge**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the maximum rate for each frame size.
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:MARG?
See Also	SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TAVerage
	SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TAVerage?

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:TAVerage

Description	This command sets the number of times the Latency subtest is generated.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Latency - Trials
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LATency:TAVerage <wsp><Average>
Parameter(s)	**Average**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the number of times the latency test is generated.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Percenatge>
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:TAV 10
	SOUR:DATA:TEL:ETH:RFC:LAT:TAV?
	Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TAVerage
	SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TAVerage?

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:TAVerage?

Description	This query returns the number of times the Latency subtest is generated.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Latency - Trials
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LATency:TAVerage?[<wsp><Average>]
Parameter(s)	**Average**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the number of times the latency test is generated.
	This parameter is optional. If no token is specified, the current number of times the latency subtest generated is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Average>
Response(s)	**Average**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of times the latency test is generated.
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:TAV 10
	SOUR:DATA:TEL:ETH:RFC:LAT:TAV?
	Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TAVerage
	SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TAVerage?

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:TTIMe

Description	This command sets the trial duration for Latency subtest.
	At *RST condition, this value is set to 00:01.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Latency - Trial Duration
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LATency:TTIMe <wsp><Time>
Parameter(s)	**Time**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the trial duration for the latency test.
Response Syntax	<Average>
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:TTIM 01:00
	SOUR:DATA:TEL:ETH:RFC:LAT:TTIM?
See Also	SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TTIMe?

:SOURce:DATA:TELecom:ETHernet:RFC:LATency:TTIMe?

Description	This query returns the trial duration value for the Latency subtest.
	At *RST condition, this value is set to 00:01.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Latency - Trial Duration
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LATency:TTIMe?
Response Syntax	<Time>
Response(s)	**Time**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the trial duration for the latency test.
Example(s)	SOUR:DATA:TEL:ETH:RFC:LAT:TTIM 01:00
	SOUR:DATA:TEL:ETH:RFC:LAT:TTIM?
See Also	SOURce:DATA:TELecom:ETHernet:RFC:FLOSs:TTIMe

:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:ACCuracy

Description	This command sets the accuracy value for the throughput subtest.
	*RST values are 1.0 for Gbit/s, 1000 for Mbit/s and 1.0 for %.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Throughput - Accuracy
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:ACCuracy <wsp><Accuracy>
Parameter(s)	Accuracy:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the throughput accuracy value.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Time>
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:ACC 10.00
	SOUR:DATA:TEL:ETH:RFC:THR:ACC?
	Returns: 10.00
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate

:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:ACCuracy?

Description	This query returns the accuracy value for the throughput subtest.
	*RST values are 1.0 for Gbit/s, 1000 for Mbit/s and 1.0 for %.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Throughput - Accuracy
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:ACCuracy?[<wsp><Accuracy>]
Parameter(s)	**Accuracy**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current accuracy value for the throughput subtest is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Accuracy>
Response(s)	**Accuracy**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the accuracy measurement value.
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:ACC 10.00
	SOUR:DATA:TEL:ETH:RFC:THR:ACC?
	Returns: 10.00
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate?

:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors

Description	This command sets the number of acceptable errors for the throughput subtest.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Throughput - Acceptable Errors
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors <wsp><Errors>
Parameter(s)	**Errors**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the number of acceptable throughput errors. Choices are 0 to 10.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Accuracy>
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:AERR 10
	SOUR:DATA:TEL:ETH:RFC:THR:AERR?
	Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:ACCuracy

:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors?

Description	This query returns the number of acceptable errors for the throughput subtest.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Throughput - Acceptable Errors
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors?[<wsp><Errors>]
Parameter(s)	**Errors**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current number of acceptable errors for the throughput subtest is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Errors>
Response(s)	**Errors**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of acceptable errors for the throughput subtest.
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:AERR 10
	SOUR:DATA:TEL:ETH:RFC:THR:AERR?
	Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:ACCuracy?

:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate

Description	This command sets the maximum throughput rate for the throughput subtest.
	At *RST condition, this value is set to 100.0.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Throughput - Max. Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate <wsp><Direction>, <Maxrate>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the direction.
	(For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1)
	TX2RX: TX-to-RX (TX2RX) for single port topology.
	LTORemote: Local-to-Remote direction.
	RTOLocal: Remote-to-Local direction.
	P1TOP2: P1 -TO-P2.
	P2TOP1: P2 -TO-P1.
	BIDirectional: Bidirectional
	Maxrate:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects maximum throughput rate.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Errors>
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:MAXR TX2RX,10.00
	SOUR:DATA:TEL:ETH:RFC:THR:MAXR? TX2RX
	Returns: 10.00
See Also	SOURce:DATA:TELecom:ETHernet:RFC:FSIZe

:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate?

Description	This query returns the maximum throughput rate for the throughput subtest.
	At *RST condition, this value is set to 100.0.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Throughput - Max. Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate? <wsp><Direction>,[<Maxrate>]
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the direction.
	(For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1)
	TX2RX: TX-to-RX (TX2RX) for single port topology.
	LTORemote: Local-to-Remote direction.
	RTOLocal: Remote-to-Local direction.
	P1TOP2: P1 -TO-P2.
	P2TOP1: P2 -TO-P1.
	BIDirectional: Bidirectional
	Maxrate:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current throughput rate for the throughput subtest is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Maxrate>

:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate?

Response(s)	**Maxrate**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the maximum throughput rate for the test.
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:MAXR TX2RX,10.00
	SOUR:DATA:TEL:ETH:RFC:THR:MAXR? TX2RX
	Returns: 10.00
See Also	SOURce:DATA:TELecom:ETHernet:RFC:FSIZe?

:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage

Description	This command sets the number of times the throughput subtest is generated.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Throughput - Trials
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage <wsp><Average>
Parameter(s)	**Average**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the number of throughput trials. Choices are 1 to 50.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Maxrate>
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:TAV 10
	SOUR:DATA:TEL:ETH:RFC:THR:TAV?
	Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors

:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage?

Description	This query returns the number of times the throughput subtest is generated.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Throughput - Trials
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage?[<wsp><Average>]
Parameter(s)	**Average**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current number of times the throughput subtest generated is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Average>
Response(s)	**Average**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of times the throughput test is generated.
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:TAV 10
	SOUR:DATA:TEL:ETH:RFC:THR:TAV?
	Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors?

:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TTIMe

Description	This command sets the trial duration for the throughput subtest.
	At *RST condition, this value is set to 00:01.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Throughput - Trial Duration
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TTIMe <wsp><Time>
Parameter(s)	**Time**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the throughput test time value.
Response Syntax	<Average>
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:TTIM 30:00
	SOUR:DATA:TEL:ETH:RFC:THR:TTIM?
	Returns: 30:00
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:VALidations

:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TTIMe?

Description	This query returns the trial duration for the throughput subtest.
	At *RST condition, this value is set to 00:01.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Throughput - Trial Duration
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TTIMe?
Response Syntax	<Time>
Response(s)	**Time**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the trial duration for the test.
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:TTIM 30:00
	SOUR:DATA:TEL:ETH:RFC:THR:TTIM?
	Returns: 30:00
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:VALidations?

:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:VALidations

Description	This command sets the number of times the throughput result should be validated.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Throughput - Validations
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:VALidations <wsp><Validations>
Parameter(s)	**Validations**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the number of throughput validations. Choices are 1 to 50.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Time>
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:VAL 10
	SOUR:DATA:TEL:ETH:RFC:THR:VAL?
	Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage

:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:VALidations?

Description	This query returns the number of times the throughput result should be validated.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > RFC 2544 > Subtests > Throughput - Validations
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:VALidations?[<wsp><Validations>]
Parameter(s)	**Validations**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current number of times the result should be validated is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Validations>
Response(s)	**Validations**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of times the result should be validated.
Example(s)	SOUR:DATA:TEL:ETH:RFC:THR:VAL 10
	SOUR:DATA:TEL:ETH:RFC:THR:VAL?
	Returns: 10
See Also	SOURce:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage?

TCP Throughput

:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:IP:TOSDs

Description	This command sets the Type of Service/Differentiated Services (TOS/DS) value.
	At *RST condition, this value is set to #H00.
	Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Connection Configuration > IP TOS/DS
Syntax	:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:IP:TOSDs <wsp><Tosds>
Parameter(s)	**Tosds**:
	The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Set the TOSDS value from #H00 to #HFF.
Response Syntax	<Frame Size>
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC
	SOUR:DATA:TEL:ETH:TCP:CONN:IP:TOSD #HDD
	SOUR:DATA:TEL:ETH:TCP:CONN:IP:TOSD?
	Returns: 221
See Also	SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:INTSize?

:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:IP:TOSDs ?

Description	This query returns the Type of Service/Differentiated Services (TOS/DS) value.
	At *RST condition, this value is set to #H00.
	Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Connection Configuration > IP TOS/DS
Syntax	:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:IP:TOSDs?
Response Syntax	<TOSDS>
Response(s)	**TOSDS**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the TOSDS value.
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC
	SOUR:DATA:TEL:ETH:TCP:CONN:IP:TOSD #HDD
	SOUR:DATA:TEL:ETH:TCP:CONN:IP:TOSD?
	Returns: 221
See Also	SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:INTSize

:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:LIP

Description	This command set accept connection from IP (TCP Mode - Remote)
	At *RST condition, this value is set to 0.0.0.0.
	Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Connection Configuration > Accept connection From IP
Syntax	:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:LIP <wsp><Adress>
Parameter(s)	**Adress**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Set the Local IP Address.
Response Syntax	<TOSDS>
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE REMOTE
	SOUR:DATA:TEL:ETH:TCP:CONN:LIP 0.0.0.0
	SOUR:DATA:TEL:ETH:TCP:CONN:LIP?
	Returns: 0.0.0.0
See Also	SOURce:DATA:TELecom:ETHernet:TCP:CONNection:PORT?

:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:LIP?

Description	This query returns the accept connection from IP (TCP Mode - Remote)
	At *RST condition, this value is set to 0.0.0.0.
	Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Connection Configuration > Accept connection From IP
Syntax	:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:LIP?
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Local IP Address
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE REMOTE
	SOUR:DATA:TEL:ETH:TCP:CONN:LIP 0.0.0.0
	SOUR:DATA:TEL:ETH:TCP:CONN:LIP?
	Returns: 0.0.0.0
See Also	SOURce:DATA:TELecom:ETHernet:TCP:CONNection:PORT

:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:PORT

Description	This command set the TCP Port
	At *RST condition, this value is set to 50201.
	Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Connection Configuration > TCP Port
Syntax	:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:PORT <wsp><TCP Port>
Parameter(s)	**TCP Port**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Set the TCP Port.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:ETH:TCP:CONN:PORT 26
	SOUR:DATA:TEL:ETH:TCP:CONN:PORT?
	Returns: 26
See Also	SOURce:DATA:TELecom:ETHernet:TCP:CONNection:LIP?

:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:PORT?

Description	This query returns the TCP Port
	At *RST condition, this value is set to 50201.
	Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Connection Configuration > TCP Port
Syntax	:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:PORT?[<wsp><TCP Port>]
Parameter(s)	**TCP Port**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current TCP Port is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<TCP Port>
Response(s)	**TCP Port**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the TCP Port
Example(s)	SOUR:DATA:TEL:ETH:TCP:CONN:PORT 26
	SOUR:DATA:TEL:ETH:TCP:CONN:PORT?
	Returns: 26
See Also	SOURce:DATA:TELecom:ETHernet:TCP:CONNection:LIP

:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:RIP

Description	This command set the Remote IP Address.
	At *RST condition, this value is set to 0.0.0.0.
	Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Connection Configuration > Remote IP Address
Syntax	:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:RIP <wsp><Adress>
Parameter(s)	**Adress**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Set the Remote IP Address.
Response Syntax	<TCP Port>
Example(s)	SOUR:DATA:TEL:ETH:TCP:CONN:RIP 0.0.0.0
	SOUR:DATA:TEL:ETH:TCP:CONN:RIP?
	Returns: 0.0.0.0
See Also	SOURce:DATA:TELecom:ETHernet:TCP:MODE?

:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:RIP?

Description	This query returns the Remote IP Address.
	At *RST condition, this value is set to 0.0.0.0.
	Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Connection Configuration > Remote IP Address
Syntax	:SOURce:DATA:TELecom:ETHernet:TCP:CONNection:RIP?
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Remote IP Address.
Example(s)	SOUR:DATA:TEL:ETH:TCP:CONN:RIP 0.0.0.0
	SOUR:DATA:TEL:ETH:TCP:CONN:RIP?
	Returns: 0.0.0.0
See Also	SOURce:DATA:TELecom:ETHernet:TCP:MODE

:SOURce:DATA:TELecom:ETHernet:TCP:INJection:THReshold

Description	This command sets the Throughput Threshold (%)
	At *RST condition, this value is set to #H00.
	Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Throughput Configuration > Throughput Threshold (%)
Syntax	:SOURce:DATA:TELecom:ETHernet:TCP:INJection:THReshold <wsp><Throughput Threshold>
Parameter(s)	**Throughput Threshold**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Set the Throughput Threshold(%).
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC
	SOUR:DATA:TEL:ETH:TCP:INJ:THR 50
	SOUR:DATA:TEL:ETH:TCP:INJ:THR?
	Returns: 50
See Also	FETCh:DATA:TELecom:ETHernet:TCP:STATistics:EFFiciency?

:SOURce:DATA:TELecom:ETHernet:TCP:INJection:THReshold?

Description	This query returns the Throughput Threshold (%) At *RST condition, this value is set to #H00. Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Throughput Configuration > Throughput Threshold (%)
Syntax	:SOURce:DATA:TELecom:ETHernet:TCP:INJection:THReshold?[<wsp><Throughput Threshold>]
Parameter(s)	**Throughput Threshold**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the currentThroughput Threshold(%) is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Throughput Threshold>
Response(s)	**Throughput Threshold**: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Threshold(%)
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC SOUR:DATA:TEL:ETH:TCP:INJ:THR 50 SOUR:DATA:TEL:ETH:TCP:INJ:THR? Returns: 51
See Also	FETCh:DATA:TELecom:ETHernet:TCP:STAT:THRoughput:MAXimum:VERDict?

:SOURce:DATA:TELecom:ETHernet:TCP:MODE

Description	This command set the TCP Mode.
	At *RST condition, this value is set to Local.
	Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:TCP:MODE <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Set the TCP mode.
	LOCal
	REMote
Response Syntax	<Throughput Threshold>
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC
	SOUR:DATA:TEL:ETH:TCP:MODE?
	Returns: LOCAL
See Also	SOURce:DATA:TELecom:ETHernet:TCP:CONNection:RIP?

:SOURce:DATA:TELecom:ETHernet:TCP:MODE?

Description	This query returns the TCP Mode. At *RST condition, this value is set to Local. Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:TCP:MODE?
Response Syntax	<Mode>
Response(s)	**Mode**: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the TCP Mode. LOCAL | REMOTE
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC SOUR:DATA:TEL:ETH:TCP:MODE? Returns: LOCAL
See Also	SOURce:DATA:TELecom:ETHernet:TCP:CONNection:RIP

:SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:INTSize

Description	This command sets the Initial Window Size.
	At *RST condition, this value is set to #H00.
	Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Throughput Configuration > Initial Window Size (Kbytes)
Syntax	:SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:INTSize <wsp><Initial Window Size>
Parameter(s)	**Initial Window Size**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Set the Initial Window Size in Kbytes.
	Choices are 2 to 65536.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC
	SOUR:DATA:TEL:ETH:TCP:THR:INTS 20
	SOUR:DATA:TEL:ETH:TCP:THR:INTS?
	Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:TCP:CONNection:IP:TOSDs?

:SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:INTSize?

Description	This query returns the Initial Window Size.
	At *RST condition, this value is set to #H00.
	Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Throughput Configuration > Initial Window Size (Kbytes)
Syntax	:SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:INTSize?[<wsp><Initial Window Size>]
Parameter(s)	**Initial Window Size**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Set the Initial Window Size in Kbytes.
	Choices are 2 to 65536.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Size>
Response(s)	**Size**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Initial Window Size (Kbytes).
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC
	SOUR:DATA:TEL:ETH:TCP:THR:INTS 20
	SOUR:DATA:TEL:ETH:TCP:THR:INTS?
	Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:TCP:CONNection:IP:TOSDs?

:SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:MAXSize

Description	This command sets the Maximum Window Size.
	At *RST condition, this value is set to #H00.
	Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Throughput Configuration > Maximum Window Size (Mbytes)
Syntax	:SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:MAXSize <wsp><Maximum Window Size>
Parameter(s)	**Maximum Window Size**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Set the Maximum Window Size in Mbytes.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC
	SOUR:DATA:TEL:ETH:TCP:THR:MAXS 20.20
	SOUR:DATA:TEL:ETH:TCP:THR:MAXS?
	Returns: 20.20
See Also	SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:MINSize?

:SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:MAXSize?

Description	This query returns the Maximum Window Size.
	At *RST condition, this value is set to #H00.
	Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Throughput Configuration > Maximum Window Size (Mbytes)
Syntax	:SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:MAXSize?[<wsp><Maximum Window Size>]
Parameter(s)	**Maximum Window Size**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current Maximum Window Size is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Size>
Response(s)	**Size**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Maximum Window Size(Mbytes).
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC
	SOUR:DATA:TEL:ETH:TCP:THR:MAXS 20.20
	SOUR:DATA:TEL:ETH:TCP:THR:MAXS?
	Returns: 20.20
See Also	SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:MINSize

:SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:MINSize

Description	This command sets the Minimum Window Size.
	At *RST condition, this value is set to #H00.
	Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Throughput Configuration > Minimum Window Size (Kbytes)
Syntax	:SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:MINSize <wsp><Minimum Window Size>
Parameter(s)	**Minimum Window Size**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Set the Minimum Window Size in Kbytes.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC
	SOUR:DATA:TEL:ETH:TCP:THR:MINS 20
	SOUR:DATA:TEL:ETH:TCP:THR:MINS?
	Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:MAXSize?

:SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:MINSize?

Description	This query returns the Minimum Window Size.
	At *RST condition, this value is set to #H00.
	Navigation Path: Setup > Test Configurator > TCP Throughput > TCP Throughput Configuration > Minimum Window Size (Kbytes)
Syntax	:SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:MINSize?[<wsp><Minimum Window Size>]
Parameter(s)	**Minimum Window Size**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current Minimum Window Size value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Size>
Response(s)	**Size**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Minimum Window Size(Kbytes).
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC
	SOUR:DATA:TEL:ETH:TCP:THR:MINS 20
	SOUR:DATA:TEL:ETH:TCP:THR:MINS?
	Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:TCP:THRoughput:MAXSize

:SOURce:DATA:TELecom:RESTore:DEFault

Description	This command restores the values for test to default values for test applications: TCP Throughput, Carrier Ethernet OAM, 1588 PTP, SyncE, CPRI/OBSAI and FlexE BERT.
Syntax	:SOURce:DATA:TELecom:RESTore:DEFault
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:REST:DEF
See Also	SOURce:DATA:TELecom:OTN:REStore:DEFault
	SOURce:DATA:TELecom:ETHernet:ESAM:RESTore:DEFault
	SOURce:DATA:TELecom:ETHernet:RFC:RESTore:DEFault
	SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:RESTore:DEFault

Cable Test

:SOURce:DATA:TELecom:CABLetest:LENGth:THReshold

Description	This command sets the Length Threshold for Cable test.
	At *RST condition, this value is set to 100.0
	Navigation Path: Setup > Test Configurator > Cable Test > Pass/Fail Verdict - Length Threshold (m)
Syntax	:SOURce:DATA:TELecom:CABLetest:LENGth:THReshold <wsp><Threshold>
Parameter(s)	**Threshold**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Length Threshold for Cable test.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:CABL:LENG:THReshold 120
	SOUR:DATA:TEL:CABL:LENG:THReshold?
	Returns: 120
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OPSPec?

:SOURce:DATA:TELecom:CABLetest:LENGth:THReshold?

Description	This query returns the Length Threshold for Cable test.
	At *RST condition, this value is set to 100.0
	Navigation Path: Setup > Test Configurator > Cable Test > Pass/Fail Verdict - Length Threshold (m)
Syntax	:SOURce:DATA:TELecom:CABLetest:LENGth:THReshold?[<wsp><Threshold>]
Parameter(s)	**Threshold**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current no defect time without any defects is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Length>
Response(s)	**Length**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the length threshuld value for Cabletest.
Example(s)	SOUR:DATA:TEL:CABL:LENG:THReshold 120
	SOUR:DATA:TEL:CABL:LENG:THReshold?
	Returns: 120
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:OPSPec

:SOURce:DATA:TELecom:CABLetest:PROPdelay:THReshold

Description	This command sets the Prop. Delay Threshold for Cable test.
	At *RST condition, this value is set to 556 ns
	Navigation Path: Setup > Test Configurator > Cable Test > Pass/Fail Verdict - Prop. Delay Threshold(ns)
Syntax	:SOURce:DATA:TELecom:CABLetest:PROPdelay:THReshold <wsp><Threshold>
Parameter(s)	**Threshold**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Prop. Delay Value for Cable test.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Length>
Example(s)	SOUR:DATA:TEL:CABL:PROP:THR 10
	SOUR:DATA:TEL:CABL:PROP:THR?
	Returns: 10
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE?

:SOURce:DATA:TELecom:CABLetest:PROPdelay:THReshold?

Description	This query returns the Prop. Delay Threshold for Cable test.
	At *RST condition, this value is set to 556 ns
	Navigation Path: Setup > Test Configurator > Cable Test > Pass/Fail Verdict - Prop. Delay Threshold(ns)
Syntax	:SOURce:DATA:TELecom:CABLetest:PROPdelay:THReshold?[<wsp><Threshold>]
Parameter(s)	**Threshold**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current Prop. Delay Threshold is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Delay>
Response(s)	**Delay**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Prop. Delay for Cable test.
	MAXimum is used to retrieve the instruments greatest supported value for Prop. Delay
	MINimum is used to retrieve the instruments smallest supported value for Prop. Delay
Example(s)	SOUR:DATA:TEL:CABL:PROP:THR 10
	SOUR:DATA:TEL:CABL:PROP:THR?
	Returns: 10
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE

:SOURce:DATA:TELecom:CABLetest:REStore:THReshold:DEFault

Description	This command resets the Cable Test to factory default settings.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > Test Configurator > Cable Test > Restore Cable Test Defauts
Syntax	:SOURce:DATA:TELecom:CABLetest:REStore:THReshold:DEFault
Response Syntax	<Delay>
Example(s)	SOUR:DATA:TEL:CABL:RESTore:THReshold:DEFault
See Also	FETCh:DATA:TELecom:SDHS:ADV:APS:K[1..n]:BREQ?

:SOURce:DATA:TELecom:CABLetest:SKEW:THReshold

Description	This command sets the Delay Skew Threshold for Cable test.
	At *RST condition, this value is device dependent
	Navigation Path: Setup > Test Configurator > Cable Test > Pass/Fail Verdict - Delay Skew Threshold (ns)
Syntax	:SOURce:DATA:TELecom:CABLetest:SKEW:THReshold <wsp><Threshold>
Parameter(s)	**Threshold**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Skew Threshold for Cable test.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Delay>
Example(s)	SOUR:DATA:TEL:CABL:SKEW:THR 10
	SOUR:DATA:TEL:CABL:SKEW:THR?
	Returns: 10
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier?

:SOURce:DATA:TELecom:CABLetest:SKEW:THReshold?

Description	This query returns the Delay Skew Threshold for Cable test.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Cable Test > Pass/Fail Verdict - Delay Skew Threshold (ns)
Syntax	:SOURce:DATA:TELecom:CABLetest:SKEW:THReshold?[<wsp><Threshold>]
Parameter(s)	**Threshold**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current Delay Skew Threshold is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Skew>
Response(s)	**Skew**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Skew Threshold value for Cable test.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Example(s)	SOUR:DATA:TEL:CABL:SKEW:THR 10
	SOUR:DATA:TEL:CABL:SKEW:THR?
	Returns: 10
See Also	SOURce:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier

:SOURce:DATA:TELecom:CABLetest:WIRestandard

Description	This command sets the wiring standards for Cable test.
	At *RST condition, this value is set to T568A.
	Navigation Path: Setup > Test Configurator > Cable Test > Global Options - Wiring Standards
Syntax	:SOURce:DATA:TELecom:CABLetest:WIRestandard <wsp><WIREstandard>
Parameter(s)	**WIREstandard**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Wire Standard for the Cable test.
	T568A
	T568B
Response Syntax	<Skew>
Example(s)	SOUR:DATA:TEL:CABL:WIR T568A
	SOUR:DATA:TEL:CABL:WIR?
	Returns: T568A
See Also	SOUR:DATA:TEL:CABL:RESTore:THReshold:DEFault

:SOURce:DATA:TELecom:CABLetest:WIRestandard?

Description	This query returns the wiring standards for Cable test.
	At *RST condition, this value is set to T568A.
	Navigation Path: Setup > Test Configurator > Cable Test > Global Options - Wiring Standards
Syntax	:SOURce:DATA:TELecom:CABLetest:WIRestandard?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Wire Standard for the Cable test.
	T568A, T568A is return as Wire Standard.
	T568B, T568B is return as Wire Standard.
Example(s)	SOUR:DATA:TEL:CABL:WIR T568A
	SOUR:DATA:TEL:CABL:WIR?
	Returns: T568A
See Also	SOURce:DATA:TELecom:OTN:FRAMing?

IPv6 Address Configuration

:FETCh:DATA:TELecom:ETHernet:NETWork:DGATeway:IPVersion:ADDRess:STATus?

Description	This query returns the port Default Gateway IPv6 address status.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > Test Configurator > Interface > Network > Config > Default Gateway
Syntax	:FETCh:DATA:TELecom:ETHernet:NETWork:DGATeway:IPVersion:ADDRess:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Default Gateway IPv6 address status.
	UNDEFINED, Undefined is retrieved.
	CHECKING, Checking is retrieved.
	UNREACHABLE, Unreachable is retrieved.
	REACHABLE, Reachable is retrieved.
Example(s)	FETC:DATA:TEL:ETH:NETW:DGAT:IPV:ADDR:STAT?
See Also	FETCh:DATA:TELecom:ETHernet:PORT:LOCal:IPV:STATus?

:FETCh:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion: ADDRess:STATus?

Description	This query returns the port Global IPv6 address status.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > Test Configurator > Interface > Network > Config > Global IPv6 Address
Syntax	:FETCh:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:ADDRess:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Global IPv6 address status.
	TENTATIVE, Tentative is retrieved.
	GENERATING, Generating is retrieved.
	SUCCESSFUL, Successful is retrieved.
	PREFERRED, Preferred is retrieved.
	FAILED, Failed is retrieved.
	CHECKING, Checking is retrieved.
	NDUPLICATE, No Duplication is retrieved.
	DDETECTED, Duplication Detected is retrieved.
	UNDEFINED, Undefined is retrieved.
Example(s)	FETC:DATA:TEL:ETH:NETW:GLOB:IPV:ADDR:STAT?
See Also	FETCH:DATA:TELecom:ETHernet:PORT:LOCal:IPV:STATus?

:FETCh:DATA:TELecom:ETHernet:NETWork:LOCal:IPVersion:ADDRess:STATus?

Description	This query returns the port Link-Local IPv6 address status.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > Test Configurator > Interface > Network > Config > Link-Local IPv6 Address
Syntax	:FETCh:DATA:TELecom:ETHernet:NETWork:LOCal:IPVersion:ADDRess:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Link-Local IPv6 address status.
	TENTATIVE, Tentative is retrieved.
	GENERATING, Generating is retrieved.
	SUCCESSFUL, Successful is retrieved.
	PREFERRED, Preferred is retrieved.
	FAILED, Failed is retrieved.
	CHECKING, Checking is retrieved.
	NDUPLICATE, No Duplication is retrieved.
	DDETECTED, Duplication Detected is retrieved.
	UNDEFINED, Undefined is retrieved.
Example(s)	FETC:DATA:TEL:ETH:NETW:LOC:IPV:ADDR:STAT?
See Also	FETCh:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:STATus?

:FETCh:DATA:TELecom:ETHernet:STReam:DGATeway:IPVersion:ADDRess:STATus?

Description	This query returns the Default Gateway IPv6 address Status.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Default Gateway - Address
	Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Default Gateway - Address
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DGATeway:IPVersion:ADDRess:STATus? <wsp><Stream>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Default Gateway IPv6 address status.
	UNDEFINED, Undefined is retrieved.
	CHECKING, Checking is retrieved.
	UNREACHABLE, Unreachable is retrieved.
	REACHABLE, Reachable is retrieved.
Example(s)	FETC:DATA:TEL:ETH:STR:DGAT:IPV:ADDR:STAT? 1
See Also	FETCh:DATA:TELecom:ETHernet:PORT:LOCal:IPV:STATus?

:FETCh:DATA:TELecom:ETHernet:STReam:GLOBal:IPVersion: ADDRess:STATus?

Description	This query returns the Global IPv6 address status.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Address
	Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Address
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:GLOBal:IPVersion:ADDRess:STATus? <wsp><Stream>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Global IPv6 address status.
	TENTATIVE, Tentative is retrieved.
	GENERATING, Generating is retrieved.
	SUCCESSFUL, Successful is retrieved.
	PREFERRED, Preferred is retrieved.
	FAILED, Failed is retrieved.
	CHECKING, Checking is retrieved.
	NDUPLICATE, No Duplication is retrieved.
	DDETECTED, Duplication Detected is retrieved.
	UNDEFINED, Undefined is retrieved.
Example(s)	FETC:DATA:TEL:ETH:STR:GLOB:IPV:ADDR:STAT? 1
See Also	FETCH:DATA:TELecom:ETHernet:PORT:LOCal:IPV:STATus?

:FETCh:DATA:TELecom:ETHernet:STReam:LOCal:IPVersion:ADDRess:STATus?

Description	This query returns the Link-Local IPv6 address status.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Link-Local IPv6 Address - Address
	Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Link-Local IPv6 Address - Address
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:LOCal:IPVersion:ADDRess:STATus? <wsp><Stream>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Link-Local IPv6 address status.
	TENTATIVE, Tentative is retrieved.
	GENERATING, Generating is retrieved.
	SUCCESSFUL, Successful is retrieved.
	PREFERRED, Preferred is retrieved.
	FAILED, Failed is retrieved.
	CHECKING, Checking is retrieved.
	NDUPLICATE, No Duplication is retrieved.
	DDETECTED, Duplication Detected is retrieved.
	UNDEFINED, Undefined is retrieved.
Example(s)	FETC:DATA:TEL:ETH:STR:LOC:IPV:ADDR:STAT? 1
See Also	FETCH:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:STATus?

:SOURce:DATA:TELecom:ETHernet:NETWork:DGATeway:IPVersion:ADDRess

Description	This command sets the port Default Gateway IPv6 address.
	At *RST condition, this value is set to FE80:0000:0000:0000:0000:0000:0000:0000.
	Navigation Path: Test > Test Configurator > Interface > Network > Config > Default Gateway - Address
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:DGATeway:IPVersion:ADDRess <wsp><Address>
Parameter(s)	**Address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the Default Gateway IPv6 Address.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:NETW:DGAT:IPV:MODE STATIC
	SOUR:DATA:TEL:ETH:NETW:DGAT:IPV:ADDR FE80:0000:0000:0000:0000:0000:0000:0000
	SOUR:DATA:TEL:ETH:NETW:DGAT:IPV:ADDR?
	Returns: FE80:0000:0000:0000:0000:0000:0000:0000
See Also	SOURce:DATA:TELecom:ETHernet:NETW:DGATeway:IPV:ADDRess
	SOURce:DATA:TELecom:ETHernet:NETW:DGATeway:IPV:MODE

:SOURce:DATA:TELecom:ETHernet:NETWork:DGATeway:IPVersion:ADDRess?

Description	This query returns the port Default Gateway IPv6 address.
	At *RST condition, this value is set to FE80:0000:0000:0000:0000:0000:0000:0000.
	Navigation Path: Test > Test Configurator > Interface > Network > Config > Default Gateway - Address
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:DGATeway:IPVersion:ADDRess?
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Default Gateway IPv6 Address.
Example(s)	SOUR:DATA:TEL:ETH:NETW:DGAT:IPV:MODE STATIC
	SOUR:DATA:TEL:ETH:NETW:DGAT:IPV:ADDR FE80:0000:0000:0000:0000:0000:0000:0000
	SOUR:DATA:TEL:ETH:NETW:DGAT:IPV:ADDR?
	Returns: FE80:0000:0000:0000:0000:0000:0000:0000
See Also	SOURce:DATA:TELecom:ETHernet:NETW:DGATeway:IPV:MODE?

:SOURce:DATA:TELecom:ETHernet:NETWork:DGATeway:IPVersion:MODE

Description	This command selects the port Default Gateway IPv6 Mode.
	At *RST condition, this value is set to AUToamtic.
	Navigation Path: Test > Test Configurator > Interface > Network > Config > Default Gateway - Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:DGATeway:IPVersion:MODE <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Default Gateway IPv6 Address mode.
	AUTomatic: Automatic
	STATic: Static
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:ETH:NETW:DGAT:IPV:MODE AUT
	SOUR:DATA:TEL:ETH:NETW:DGAT:IPV:MODE?
	Returns: AUTOMATIC
See Also	SOURce:DATA:TELecom:ETHernet:NETW:DGATeway:IPV:MODE

:SOURce:DATA:TELecom:ETHernet:NETWork:DGATeway:IPVersion:MODE?

Description	This query returns the port Default Gateway IPv6 Mode.
	At *RST condition, this value is set to AUToamtic.
	Navigation Path: Test > Test Configurator > Interface > Network > Config > Default Gateway - Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:DGATeway:IPVersion:MODE?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Default Gateway IPv6 Address Mode.
	AUTOMATIC, Automatic is selected as default gateway address mode.
	MANUAL, Manual is selected as default gateway address mode.
Example(s)	SOUR:DATA:TEL:ETH:NETW:DGAT:IPV:MODE AUT
	SOUR:DATA:TEL:ETH:NETW:DGAT:IPV:MODE?
	Returns: AUTOMATIC
See Also	SOURce:DATA:TELecom:ETHernet:NETW:DGATeway:IPV:ADDRess?
	SOURce:DATA:TELecom:ETHernet:NETW:DGATeway:IPV:MODE

:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:ADDRess

Description	This command sets the port Global IPv6 Address.
	At *RST condition, this value is set to 2001:0000:0000:0000.0000:0000:0000.1111.
	Navigation Path: Test > Test Configurator > Interface > Network > Config > Global IPv6 Address - Address
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:ADDRess <wsp><address>
Parameter(s)	**address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the Sets the Global IPv6 Address
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:MODE STAT
	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:IIC OFF
	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:ADDR 2001:0000:0000:0000:0000:0000:0000:0000
	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:ADDR?
	Returns: 2001:0000:0000:0000:0000:0000:0000:0000
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:SUBNet:MASK?

:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:ADDRess?

Description	This query returns the port Global IPv6 Address.
	At *RST condition, this value is set to 2001:0000:0000:0000.0000:0000:0000.1111.
	Navigation Path: Test > Test Configurator > Interface > Network > Config > Global IPv6 Address - Address
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:ADDRess?
Response Syntax	<address>
Response(s)	**address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Global IPv6 Address.
Example(s)	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:MODE STAT
	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:IIC OFF
	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:ADDR 2001:0000:0000:0000:0000:0000:0000
	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:ADDR?
	Returns: 2001:0000:0000:0000:0000:0000:0000:0000
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:SUBNet:MASK?

:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:IICoupled

Description	This command enables/disables the port Interface ID Coupled of the Global IPv6 address.
	At *RST condition, this value is set to OFF.
	Navigation Path: Test > Test Configurator > Interface > Network > Config > Global IPv6 Address - Interface ID Coupled
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:IICoupled <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the Interface ID of the Global IPv6 address.
	ON,Enables Interface ID Coupled
	OFF,Disables Interface ID Coupled
Response Syntax	<address>
Example(s)	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:MODE STAT
	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:IIC OFF
	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:IIC?
	Returns: 0
See Also	SOURce:DATA:TELecom:ETHernet:NETW:GLOB:IPV:ADDRess?
	SOURce:DATA:TELecom:ETHernet:NETW:GLOB:IPV:MODE
	SOURce:DATA:TELecom:ETHernet:NETW:GLOB:IPV:IICoupled

:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:IICoupled?

Description	This query returns the status of the port Interface ID Coupled of the Global IPv6 address.
	At *RST condition, this value is set to OFF.
	Navigation Path: Test > Test Configurator > Interface > Network > Config > Global IPv6 Address - Interface ID Coupled
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:IICoupled?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of Interface ID of the Global IPv6 address.
Example(s)	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:MODE STAT
	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:IIC OFF
	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:IIC?
	Returns: 0
See Also	SOURce:DATA:TELecom:ETHernet:NETW:GLOB:IPV:ADDRess
	SOURce:DATA:TELecom:ETHernet:NETW:GLOB:IPV:MODE
	SOURce:DATA:TELecom:ETHernet:NETW:GLOB:IPV:IICoupled

:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:MODE

Description	This command selects the port Global IPv6 Mode.
	At *RST condition, this value is set to NONE.
	Navigation Path: Test > Test Configurator > Interface > Network > Config > Global IPv6 Address - Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:MODE <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Global IPv6 Mode.
	SAUTo,sets mode to stateless Auto
	STATic,Sets mode to static
	NONE, Sets mode to None
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:MODE STAT
	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:MODE?
	Returns: STATIC
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:SUBNet:MASK?

:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:MODE?

Description	This query returns the port Global IPv6 Mode.
	At *RST condition, this value is set to NONE.
	Navigation Path: Test > Test Configurator > Interface > Network > Config > Global IPv6 Address - Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:MODE?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Global IPv6 mode.
	NONE, No Global IPv6 mode is selected.
	STATIC, Static is selected as Global IPv6 mode.
	SAUTo, Stateless Auto. (SAUTo) is selected as Global IPv6 mode.
Example(s)	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:MODE STAT
	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:MODE?
	Returns: STATIC
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:SUBNet:MASK?

:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:PMASk

Description	This command sets the port Global IPv6 Address Prefix Mask.
	At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000.
	Navigation Path: Test > Test Configurator > Interface > Network > Config > Global IPv6 Address - Prefix Mask
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:PMASk <wsp><Address>
Parameter(s)	**Address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the Global IPv6 Address Prefix Mask.
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:MODE STAT
	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:PMAS FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000
	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:PMAS?
	Returns: FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000
See Also	SOURce:DATA:TELecom:ETHernet:NETW:LOCal:IPV:MODE?

:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:PMASk?

Description	This query returns the port Global IPv6 Address Prefix Mask.
	At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000.
	Navigation Path: Test > Test Configurator > Interface > Network > Config > Global IPv6 Address - Prefix Mask
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:PMASk?
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Global IPv6 Address Prefix Mask.
Example(s)	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:MODE STAT
	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:PMAS FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000
	SOUR:DATA:TEL:ETH:NETW:GLOB:IPV:PMAS?
	Returns: FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000
See Also	SOURce:DATA:TELecom:ETHernet:NETW:LOCal:IPV:MODE

:SOURce:DATA:TELecom:ETHernet:NETWork:LOCal:IPVersion: MODE

Description	This command selects the port Link-Local IPv6 Mode.
	At *RST condition, this value is set to STATic.
	Navigation Path: Test > Test Configurator > Interface > Network > Config > Link-Local IPv6 Address - Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:LOCal:IPVersion:MODE <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Local IPv6 Mode.
	SAUTo,sets mode to stateless Auto
	STATic,Sets mode to static
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:ETH:NETW:LOC:IPV:MODE STAT
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:SUBNet:MASK?

:SOURce:DATA:TELecom:ETHernet:NETWork:LOCal:IPVersion: MODE?

Description	This query returns the port Link-Local IPv6 Mode.
	At *RST condition, this value is set to STATic.
	Navigation Path: Test > Test Configurator > Interface > Network > Config > Link-Local IPv6 Address - Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:NETWork:LOCal:IPVersion:MODE?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Link-Local IPv6 mode.
	STATic, Static is selected as Link-Local IPv6 mode.
	SAUTo, Stateless Auto. (SAUTo) is selected as Link-Local IPv6 mode.
Example(s)	SOUR:DATA:TEL:ETH:NETW:LOC:IPV:MODE STAT
	SOUR:DATA:TEL:ETH:NETW:LOC:IPV:MODE?
	Returns: STATic
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:SUBNet:MASK?

:SOURce:DATA:TELecom:ETHernet:PORT:DGATeway:IPVersion:ADDRess

Description	This command sets the IPv6 Default Gateway Address.
	At *RST condition, this value is set to FE80:0000:0000:0000:0000:0000:0000:0000.
	Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Default Gateway - Address
	Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Default Gateway - Address
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:DGATeway:IPVersion:ADDRess <wsp><Stream>, <Address>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
	Address:
	The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the Default Gateway IPv6 Address.
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:PORT:DGAT:IPV:MODE 1, STAT
	SOUR:DATA:TEL:ETH:PORT:DGAT:IPV:ADDR 1, FE80:0000:0000:0000:0000:0000:0000:0000
	SOUR:DATA:TEL:ETH:PORT:DGAT:IPV:ADDR? 1
	Returns: FE80:0000:0000:0000:0000:0000:0000:0000
See Also	SOURce:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:ADDRess
	SOURce:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:MODE

:SOURce:DATA:TELecom:ETHernet:PORT:DGATeway:IPVersion:ADDRess?

Description	This query returns the IPv6 Default Gateway Address.
	At *RST condition, this value is set to FE80:0000:0000:0000:0000:0000:0000:0000.
	Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Default Gateway - Address
	Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Default Gateway - Address
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:DGATeway:IPVersion:ADDRess? <wsp><Stream>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Default Gateway IPv6 Address.
Example(s)	SOUR:DATA:TEL:ETH:PORT:DGAT:IPV:MODE 1, STAT
	SOUR:DATA:TEL:ETH:PORT:DGAT:IPV:ADDR 1, FE80:0000:0000:0000:0000:0000:0000:0000
	SOUR:DATA:TEL:ETH:PORT:DGAT:IPV:ADDR? 1
	Returns: FE80:0000:0000:0000:0000:0000:0000:0000
See Also	SOURce:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:MODE?

:SOURce:DATA:TELecom:ETHernet:PORT:DGATeway:IPVersion:MODE

Description	This command selects the Default Gateway IPv6 Address Mode.
	At *RST condition, this value is set to AUToamtic.
	Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Default Gateway - Mode
	Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Default Gateway - Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:DGATeway:IPVersion:MODE <wsp><Stream>, <Mode>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
	Mode:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Default Gateway IPv6 Address mode.
	AUTomatic: Automatic
	STATic: Static
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:ETH:PORT:DGAT:IPV:MODE 1, AUT
	SOUR:DATA:TEL:ETH:PORT:DGAT:IPV:MODE? 1
	Returns: AUTOMATIC
See Also	SOURce:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:MODE

:SOURce:DATA:TELecom:ETHernet:PORT:DGATeway:IPVersion:MODE?

Description	This query returns the Default Gateway IPv6 Address Mode.
	At *RST condition, this value is set to AUToamtic.
	Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Default Gateway - Mode
	Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Default Gateway - Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:DGATeway:IPVersion:MODE? <wsp><Stream>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Default Gateway IPv6 Address Mode.
	AUTOMATIC, Automatic is selected as default gateway address mode.
	MANUAL, Manual is selected as default gateway address mode.
Example(s)	SOUR:DATA:TEL:ETH:PORT:DGAT:IPV:MODE 1, AUT
	SOUR:DATA:TEL:ETH:PORT:DGAT:IPV:MODE? 1
	Returns: AUTOMATIC
See Also	SOURce:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:ADDRess?
	SOURce:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:MODE

:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:ADDRess

Description	This command sets the Global IPv6 Address.
	At *RST condition, this value is set to 2001:0000:0000:0000.
	Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Address
	Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Address
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:ADDRess <wsp><Stream>, <Address>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
	Address:
	The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the Global IPv6 Address.
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:MODE 1, STAT
	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:IIC 1, OFF
	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:ADDR 1, 2001:0000:0000:0000:0000:0000:0000:0000
	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:ADDR? 1
	Returns: 2001:0000:0000:0000:0000:0000:0000:0000
See Also	SOURce:DATA:TELecom:ETHernet:PORT:IPVersion?

:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:ADDRess?

Description	This query returns the Global IPv6 Address.
	At *RST condition, this value is set to 2001:0000:0000:0000.
	Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Address
	Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Address
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:ADDRess? <wsp><Stream>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Global IPv6 Address.
Example(s)	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:MODE 1, STAT
	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:IIC 1, OFF
	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:ADDR 1, 2001:0000:0000:0000:0000:0000:0000:0000
	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:ADDR? 1
	Returns: 2001:0000:0000:0000:0000:0000:0000:0000
See Also	SOURce:DATA:TELecom:ETHernet:PORT:IPVersion

:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:II Coupled

Description	This command enables/disables the Interface ID Coupled of the Global IPv6 address.
	At *RST condition, this value is set to OFF.
	Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Interface ID Coupled
	Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Interface ID Coupled
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:IICoupled <wsp><Stream>, <Set>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	ON, enables the Interface ID of the Global IPv6 address.
	OFF, disables the Interface ID of the Global IPv6 address.
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:MODE 1, STAT
	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:IIC 1, OFF
	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:IIC? 1
	Returns: 0
See Also	SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:IICoupled

:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:II Coupled?

Description	This query returns the status of Interface ID Coupled of the Global IPv6 address.
	At *RST condition, this value is set to OFF.
	Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Interface ID Coupled
	Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Interface ID Coupled
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:IICoupled? <wsp><Stream>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of Interface ID of the Global IPv6 address.
Example(s)	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:MODE 1, STAT
	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:IIC 1, OFF
	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:IIC? 1
	Returns: 0
See Also	SOURce:DATA:TELecom:ETHernet:PORT:GLOB:IPV:ADDRess
	SOURce:DATA:TELecom:ETHernet:PORT:GLOB:IPV:MODE
	SOURce:DATA:TELecom:ETHernet:PORT:GLOB:IPV:IICoupled

:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:MODE

Description	This command selects the Global IPv6 Mode.
	At *RST condition, this value is set to NONE.
	Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Mode
	Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:MODE <wsp><Stream>, <Mode>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
	Mode:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Global IPv6 mode.
	NONE, None
	STATic: Static
	SAUTo: Stateless Auto.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:MODE 1, STAT
	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:MODE? 1
	Returns: STATIC
See Also	SOURce:DATA:TELecom:ETHernet:PORT:LOCal:IPV:ADDRess?
	SOURce:DATA:TELecom:ETHernet:PORT:LOCal:IPV:MODE

:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:MODE?

Description	This query returns the Global IPv6 Mode.
	At *RST condition, this value is set to NONE.
	Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Mode
	Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:MODE? <wsp><Stream>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Global IPv6 mode.
	NONE, No Global IPv6 mode is selected.
	STATIC, Static is selected as Global IPv6 mode.
	SAUTO, Stateless Auto. (SAUTo) is selected as Global IPv6 mode.
Example(s)	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:MODE 1, STAT
	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:MODE? 1
	Returns: STATIC
See Also	SOURce:DATA:TELecom:ETHernet:PORT:LOCal:IPV:ADDRess
	SOURce:DATA:TELecom:ETHernet:PORT:LOCal:IPV:MODE

:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:PMASk

Description	This command sets the Global IPv6 Address Prefix Mask.
	At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000.
	Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Prefix Mask
	Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Prefix Mask
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:PMASk <wsp><Stream>, <Prefix Mask>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
	Prefix Mask:
	The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the Global IPv6 Address Prefix Mask.
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:MODE 1, STAT
	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:PMAS 1, FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000
	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:PMAS? 1
	Returns: FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000
See Also	SOURce:DATA:TELecom:ETHernet:PORT:LOCal:IPV:MODE?

:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:PMASk?

Description	This query returns the Global IPv6 Address Prefix Mask.
	At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000.
	Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Prefix Mask
	Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Global IPv6 Address - Prefix Mask
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPVersion:PMASk? <wsp><Stream>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Global IPv6 Address Prefix Mask.
Example(s)	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:MODE 1, STAT
	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:PMAS 1, FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000
	SOUR:DATA:TEL:ETH:PORT:GLOB:IPV:PMAS? 1
	Returns: FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000
See Also	SOURce:DATA:TELecom:ETHernet:PORT:LOCal:IPV:MODE

:SOURce:DATA:TELecom:ETHernet:PORT:LOCal:IPVersion:ADDRess

Description	This command sets the Link-Local IPv6 Address.
	At *RST condition, this value is set to FE80:0000:0000:0000:0000:0000:0000:0000.
	Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Link-Local IPv6 Address - Address
	Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Link-Local IPv6 Address - Address
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:LOCal:IPVersion:ADDRess <wsp><Stream>, <Address>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
	Address:
	The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the Link-Local IPv6 Address.
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:ETH:PORT:LOC:IPV:MODE 1, STAT
	SOUR:DATA:TEL:ETH:PORT:LOC:IPV:ADDR 1, FE80:0000:0000:0000:0000:0000:0000:FFFF
	SOUR:DATA:TEL:ETH:PORT:LOC:IPV:ADDR? 1
	Returns: FE80:0000:0000:0000:0000:0000:0000:FFFF
See Also	SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:IICoupled

:SOURce:DATA:TELecom:ETHernet:PORT:LOCal:IPVersion:ADDRess?

Description	This query returns the Link-Local IPv6 Address.
	At *RST condition, this value is set to FE80:0000:0000:0000:0000:0000:0000:0000.
	Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Link-Local IPv6 Address - Address
	Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Link-Local IPv6 Address - Address
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:LOCal:IPVersion:ADDRess? <wsp><Stream>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Link-Local IPv6 Address.
Example(s)	SOUR:DATA:TEL:ETH:PORT:LOC:IPV:MODE 1, STAT
	SOUR:DATA:TEL:ETH:PORT:LOC:IPV:ADDR 1, FE80:0000:0000:0000:0000:0000:0000:FFFF
	SOUR:DATA:TEL:ETH:PORT:LOC:IPV:ADDR? 1
	Returns: FE80:0000:0000:0000:0000:0000:0000:FFFF
See Also	SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:ADDRess

:SOURce:DATA:TELecom:ETHernet:PORT:LOCal:IPVersion:MODE

Description	This command selects the Link-Local IPv6 Mode.
	At *RST condition, this value is set to STATIC.
	Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Link-Local IPv6 Address - Mode
	Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Link-Local IPv6 Address - Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:LOCal:IPVersion:MODE <wsp><Stream>, <Mode>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
	Mode:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Link-Local IPv6 mode.
	STATic: Static
	SAUTo: Stateless Auto.
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:ETH:PORT:LOC:IPV:MODE 1, STAT
	SOUR:DATA:TEL:ETH:PORT:LOC:IPV:MODE? 1
	Returns: STAT
See Also	SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:PMASk?

:SOURce:DATA:TELecom:ETHernet:PORT:LOCal:IPVersion:MODE?

Description	This query returns the Link-Local IPv6 Mode.
	At *RST condition, this value is set to STATIC.
	Navigation Path: Test > Test Configurator > Streams/Services > MAC/IP/UDP > IPv6 > Config > Link-Local IPv6 Address - Mode
	Navigation Path: Test > Test Configurator > MAC/IP/UDP > IPv6 > Config > Link-Local IPv6 Address - Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:PORT:LOCal:IPVersion:MODE? <wsp><Stream>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	EtherSAM - Selects the service from 1 to 10.
	Traffic Gen and Mon - Selects the stream from 1 to 16.
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Link-Local IPv6 mode.
	STATic, Static is selected as Link-Local IPv6 mode.
	SAUTo, Stateless Auto. (SAUTo) is selected as Link-Local IPv6 mode.
Example(s)	SOUR:DATA:TEL:ETH:PORT:LOC:IPV:MODE 1, STAT
	SOUR:DATA:TEL:ETH:PORT:LOC:IPV:MODE? 1
	Returns: STAT
See Also	SOURce:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:PMASk

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:ADDRess

Description	This command sets the Default Gateway IPv6 Address for Loopback Tool test.
	At *RST condition, this value is set to FE80:0000:0000:0000:0000:0000:0000:0000.
	Navigation Path: Lpbk Tool > Network > Config > Default Gateway - Address
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:ADDRess <wsp><Address>
Parameter(s)	**Address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the Default Gateway IPv6 Address.
Response Syntax	<Mode>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE STATIC
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:ADDRess FE80:0000:0000:0000:0000:0000:0000:0000
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:DGATeway:IPVersion:ADDRess

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:ADDRess?

Description	This query returns the Default Gateway IPv6 Address for Loopback Tool test.
	At *RST condition, this value is set to FE80:0000:0000:0000:0000:0000:0000:0000.
	Navigation Path: Lpbk Tool > Network > Config > Default Gateway - Address
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:ADDRess?
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Default Gateway IPv6 Address.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE STATIC
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:ADDRess FE80:0000:0000:0000:0000:0000:0000:0000
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:ADDRess?
	Returns: FE80:0000:0000:0000:0000:0000:0000:0000
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:DGATeway:IPVersion:ADDRess?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:MODE

Description	This command selects the Default Gateway IPv6 Address Mode for Loopback Tool test.
	At *RST condition, this value is set to AUToamtic.
	Navigation Path: Lpbk Tool > Network > Config > Default Gateway - Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:MODE <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Default Gateway IPv6 Address mode.
	AUTomatic
	STATic
Response Syntax	<Address>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:MODE AUTOMATIC
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:DGATeway:IPVersion:MODE

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:MODE?

Description	This query returns the Default Gateway IPv6 Address Mode for Loopback Tool test.
	At *RST condition, this value is set to AUToamtic.
	Navigation Path: Lpbk Tool > Network > Config > Default Gateway - Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:MODE?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Default Gateway IPv6 Address Mode.
	AUTOMATIC, Automatic is selected as default gateway address mode.
	MANUAL, Manual is selected as default gateway address mode.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:MODE AUTOMATIC
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:DGATeway:IPVersion:MODE?
	Returns: AUTOMATIC
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:DGATeway:IPVersion:MODE?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:ADDRess

Description	This command sets the Global IPv6 Address for Loopback Tool test.
	At *RST condition, this value is set to 2001:0000:0000:0000:0000:0000:0000.1111.
	Navigation Path: Lpbk Tool > Network > Config > Global IPv6 Address - Address
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:ADDRess <wsp><Address>
Parameter(s)	**Address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the Global IPv6 Address
Response Syntax	<Mode>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:ADDRess 2001:0000:0000:0000:0000:0000:0000:0000
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:ADDRess

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:ADDRess?

Description	This query returns the Global IPv6 Address for Loopback Tool test.
	At *RST condition, this value is set to 2001:0000:0000:0000.
	Navigation Path: Lpbk Tool > Network > Config > Global IPv6 Address - Address
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:ADDRess?
Response Syntax	<address>
Response(s)	**address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Global IPv6 Address.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:ADDRess 2001:0000:0000:0000:0000:0000:0000:0000
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:ADDRess?
	Returns: 2001:0000:0000:0000:0000:0000:0000:0000
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:ADDRess?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:IICoupled

Description	This command enables/disables the Interface ID Coupled of the Global IPv6 address for Loopback Tool test.
	At *RST condition, this value is set to OFF.
	Navigation Path: Lpbk Tool > Network > Config > Global IPv6 Address - Interface ID Coupled
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:IICoupled\<wsp>\<Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a \<BOOLEAN PROGRAM DATA> element.
	enables/disables the Interface ID of the Global IPv6 address.
	ON,Enables Interface ID Coupled
	OFF,Disables Interface ID Coupled
Response Syntax	\<address>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE STATIC
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:IICoupled OFF
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:IICoupled

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:IICoupled?

Description	This query returns the status of Interface ID Coupled of the Global IPv6 address for Loopback Tool test.
	At *RST condition, this value is set to OFF.
	Navigation Path: Lpbk Tool > Network > Config > Global IPv6 Address - Interface ID Coupled
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:IICoupled?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of Interface ID of the Global IPv6 address.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE STATIC
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:IICoupled OFF
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:IICoupled?
	Returns: 0
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:IICoupled?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE

Description	This command selects the Global IPv6 Mode for Loopback Tool test.
	At *RST condition, this value is set to NONE.
	Navigation Path: Lpbk Tool > Network > Config > Global IPv6 Address - Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Global IPv6 Mode.
	SAUTo, sets mode to stateless Auto
	STATic, sets mode to static
	NONE, sets mode to none
Response Syntax	<Set>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE STATIC
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:MODE

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE?

Description	This query returns the Global IPv6 Mode for Loopback Tool test.
	At *RST condition, this value is set to NONE.
	Navigation Path: Lpbk Tool > Network > Config > Global IPv6 Address - Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Global IPv6 mode.
	NONE, No Global IPv6 mode is selected.
	STATIC, Static is selected as Global IPv6 mode.
	SAUTO, Stateless Auto. (SAUTo) is selected as Global IPv6 mode.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE STATIC
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE?
	Returns: STATIC
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:MODE?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:PMASk

Description	This command sets the Global IPv6 Address Prefix Mask for Loopback Tool test.
	At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000.
	Navigation Path: Lpbk Tool > Network > Config > Global IPv6 Address - Prefix Mask
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:PMASk <wsp><Address>
Parameter(s)	**Address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the Global IPv6 Address Prefix Mask.
Response Syntax	<Mode>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE STATIC
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:PMASk FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:PMASk

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:PMASk?

Description	This query returns the Global IPv6 Address Prefix Mask for Loopback Tool test.
	At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000.
	Navigation Path: Lpbk Tool > Network > Config > Global IPv6 Address - Prefix Mask
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:PMASk?
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Global IPv6 Address Prefix Mask.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:MODE STATIC
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:PMASk FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:GLOBal:IPVersion:PMASk?
	Returns: FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:GLOBal:IPVersion:PMASk?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:LOCal:IPVersion:ADDRess

Description	This command sets the Link-Local IPv6 Address for Loopback Tool test.
	At *RST condition, this value is set to FE80:0000:0000:0000:0000:0000:0000:0000.
	Navigation Path: Lpbk Tool > Network > Config > Link-Local IPv6 Address - Address
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:LOCal:IPVersion:ADDRess <wsp><Address>
Parameter(s)	**Address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the Sets the Local IPv6 Address
Response Syntax	<Address>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:PORT:IPVersion IPV6
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:LOCal:IPVersion:ADDRess FE80:0000:0000:0000:0000:0000:0000:1111
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:LOCal:IPVersion:ADDRess

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:LOCal:IPVersion:ADDRess?

Description	This query returns the Link-Local IPv6 Address for Loopback Tool test.
	At *RST condition, this value is set to FE80:0000:0000:0000:0000:0000:0000:0000.
	Navigation Path: Lpbk Tool > Network > Config > Link-Local IPv6 Address - Address
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:LOCal:IPVersion:ADDRess?
Response Syntax	<address>
Response(s)	**address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Link-Local IPv6 Address.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:PORT:IPVersion IPV6
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:LOCal:IPVersion:ADDRess FE80:0000:0000:0000:0000:0000:0000:1111
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:LOCal:IPVersion:ADDRess?
	Returns: FE80:0000:0000:0000:0000:0000:0000:1111
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:LOCal:IPVersion:ADDRess?

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:LOCal:IPVersion:MODE

Description	This command selects the Link-Local IPv6 Mode for Loopback Tool test.
	At *RST condition, this value is set to STATic.
	Navigation Path: Lpbk Tool > Network > Config > Link-Local IPv6 Address - Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:LOCal:IPVersion:MODE <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Local IPv6 Mode.
	SAUTo, sets mode to stateless Auto
	STATic, sets mode to static
Response Syntax	<address>
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:LOCal:IPVersion:MODE SAUTO
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:LOCal:IPVersion:MODE

:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:LOCal:IPVersion:MODE?

Description	This query returns the Link-Local IPv6 Mode for Loopback Tool test.
	At *RST condition, this value is set to STATic.
	Navigation Path: Lpbk Tool > Network > Config > Link-Local IPv6 Address - Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:SLTool:NETWork:LOCal:IPVersion:MODE?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Link-Local IPv6 mode.
	STATic, Static is selected as Link-Local IPv6 mode.
	SAUTo, Stateless Auto. (SAUTo) is selected as Link-Local IPv6 mode.
Example(s)	SOURce:DATA:TELecom:ETHernet:SLTool:NETWORK:LOCal:IPVersion:MODE SAUTO
	SOURce:DATA:TELecom:ETHernet:SLTool:NETWORK:LOCal:IPVersion:MODE?
	Returns: SAUTO
See Also	SOURce:DATA:TELecom:ETHernet:NETWork:LOCal:IPVersion:MODE?

Signal - Signal Configuration (DSn/PDH)

:SENSe:DATA:TELecom:DSNPdh:POSition

Description	This command sets the DSn/PDH mapping position for Through topology.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Channel
Syntax	:SENSe:DATA:TELecom:DSNPdh:POSition <wsp><Positionid>, <Position1>, <Position2>, <Position3>
Parameter(s)	**Positionid**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the mapping position.
	DSEPOSition: DSn/PDH
	Position1:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the mapping postion values.
	Position2:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the mapping position values.
	Position3:
	The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the mapping position values.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:DSNPdh:POS DSEPOSITION,1, 1,0
See Also	SOURce:DATA:TELecom:HOP:TYPE

:SENSe:DATA:TELecom:DSNPdh:POSition?

Description	This query returns the DSn/PDH mapping position for Through topology.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Channel
Syntax	:SENSe:DATA:TELecom:DSNPdh:POSition? <wsp><Positionid>
Parameter(s)	**Positionid**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the mapping position.
	DSEPOSition: DSn/PDH
Response Syntax	<Position>
Response(s)	**Position**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the mapping positions.
Example(s)	SENS:DATA:TEL:DSNPdh:POS DSEPOSITION,1, 1,0
	SENS:DATA:TEL:DSNPdh:POS? DSEPOSITION
	Returns: (1,1,0)
See Also	SOURce:DATA:TELecom:HOP:TYPE?

:SENSe:DATA:TELecom:DS[1..n]:AUTO:FORCe:RELease

Description	This command force release of loopback.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Force Release
Syntax	:SENSe:DATA:TELecom:DS[1..n]:AUTO:FORCe:RELease
Response Syntax	<Position>
Example(s)	SENS:DATA:TEL:DS1:AUTO:FORC:REL
See Also	SOURce:DATA:TELecom:DS[1..n]:PAYLoad:FRAMing

:SENSe:DATA:TELecom:DS[1..n]:AUTO:TYPE

Description	This command sets auto-response Type.
	At *RST condition, this value is set to In-Band.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Type
Syntax	:SENSe:DATA:TELecom:DS[1..n]:AUTO:TYPE <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of Auto-Response mode.
	INband, Sets In-Band auto-response type.
	OUTband, Sets Out-of-band auto-response type.
Response Syntax	<Position>
Example(s)	SENS:DATA:TEL:DS1:AUTO:TYPE IN
See Also	SOURce:DATA:TELecom:DS[1..n]:PAYLoad:FRAMing?

:SENSe:DATA:TELecom:DS[1..n]:AUTO:TYPE?

Description	This query returns the auto-response Type.
	At *RST condition, this value is set to In-Band.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Type
Syntax	:SENSe:DATA:TELecom:DS[1..n]:AUTO:TYPE?
Response Syntax	<TYPE>
Response(s)	**TYPE**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the type of auto-response mode.
	INBAND, In-Band type is selected.
	OUTBAND, Out-of-band type is selected.
Example(s)	SENS:DATA:TEL:DS1:AUTO:TYPE OUT
	SENS:DATA:TEL:DS1:AUTO:TYPE?
	Returns: OUTBAND
See Also	SOURce:DATA:TELecom:DS[1..n]:PAYLoad:FRAMing

:SENSe:DATA:TELecom:DS[1..n]:ENABled

Description	This command enables/disables the activation of Digital Signal-level 0 (DS0)/64K testing for Through topology.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - DS0
Syntax	:SENSe:DATA:TELecom:DS[1..n]:ENABled <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<TYPE>
Example(s)	SENS:DATA:TEL:DS:ENAB ON
See Also	SOURce:DATA:TELecom:DS:ENABled?

:SENSe:DATA:TELecom:DS[1..n]:ENABled?

Description	This query returns the status of Digital Signal-level 0 (DS0)/64K testing for Through topology.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - DS0
Syntax	:SENSe:DATA:TELecom:DS[1..n]:ENABled?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SENS:DATA:TEL:DS:ENAB ON
	SENS:DATA:TEL:DS:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:DS:ENABled

:SENSe:DATA:TELecom:DS[1..n]:LOOP:CODE

Description	This command selects the RX Loop Code for NI/CSU Emulation.
	At *RST condition, this value set to CSU.
	Navigation Path: Setup > Test Configurator > DS1 > Loopback > Loop Code
Syntax	:SENSe:DATA:TELecom:DS[1..n]:LOOP:CODE <wsp><Loopcode>
Parameter(s)	**Loopcode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Loop Code.
	CSU: CSU (10000/100)
	INBANDLOCODE1: Loop Code 1
	INBANDLOCODE2: Loop Code 2
	INBANDLOCODE3: Loop Code 3
	INBANDLOCODE4: Loop Code 4
	INBANDLOCODE5: Loop Code 5
	INBANDLOCODE6: Loop Code 6
	INBANDLOCODE7: Loop Code 7
	INBANDLOCODE8: Loop Code 8
	INBANDLOCODE9: Loop Code 9
	INBANDLOCODE10: Loop Code 10
	NFAC1: NIU FAC1 (1100/1110)
	NFAC2: NIU FAC2 (11000/11100)
	NFAC3: NIU FAC3 (100000/100)
Response Syntax	<Status>
Example(s)	SENS:DATA:TEL:DS:LOOP:CODE NFAC1
See Also	SENSe:DATA:TELecom:DS[1..n]:LOOP:CODE?

:SENSe:DATA:TELecom:DS[1..n]:LOOP:CODE?

Description	This query returns the RX Loop Code for NI/CSU Emulation.
	At *RST condition, this value set to CSU.
	Navigation Path: Setup > Test Configurator > DS1 > Loopback > Loop Code
Syntax	:SENSe:DATA:TELecom:DS[1..n]:LOOP:CODE?
Response Syntax	<Loopcode>
Response(s)	**Loopcode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Loop Code:
	CSU: CSU (10000/100)
	INBANDLOCODE1: Loop Code 1
	INBANDLOCODE2: Loop Code 2
	INBANDLOCODE3: Loop Code 3
	INBANDLOCODE4: Loop Code 4
	INBANDLOCODE5: Loop Code 5
	INBANDLOCODE6: Loop Code 6
	INBANDLOCODE7: Loop Code 7
	INBANDLOCODE8: Loop Code 8
	INBANDLOCODE9: Loop Code 9
	INBANDLOCODE10: Loop Code 10
	NFAC1: NIU FAC1 (1100/1110)
	NFAC2: NIU FAC2 (11000/11100)
	NFAC3: NIU FAC3 (100000/100)
Example(s)	SENS:DATA:TEL:DS:LOOP:CODE NFAC1
	SENS:DATA:TEL:DS:LOOP:CODE?
	Returns: NFAC1

:SENSe:DATA:TELecom:DS[1..n]:MANual:ACTivate

Description	This command enables/disables manual mode.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Activate
Syntax	:SENSe:DATA:TELecom:DS[1..n]:MANual:ACTivate <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the activation of manual mode.
	ON, activated manual mode.
	OFF,deactivated manual mode.
Response Syntax	<Loopcode>
Example(s)	SENS:DATA:TEL:DS1:MAN:ACT ON
See Also	SOURce:DATA:TELecom:PDH:E:ENABled?

:SENSe:DATA:TELecom:DS[1..n]:MANual:ACTivate?

Description	This query returns the on/off status of manual mode.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Activate
Syntax	:SENSe:DATA:TELecom:DS[1..n]:MANual:ACTivate?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of manual mode.
	1, manual mode is activated.
	0, manual mode is deactivated.
Example(s)	SENS:DATA:TEL:DS1:MAN:ACT ON
	SENS:DATA:TEL:DS1:MAN:ACT?
	Returns: 1
See Also	SOURce:DATA:TELecom:PDH:E:ENABled

:SENSe:DATA:TELecom:DS[1..n]:MANual:TYPE

Description	This command sets manual Type.
	At *RST condition, this value is set to Auto-Response.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Type
Syntax	:SENSe:DATA:TELecom:DS[1..n]:MANual:TYPE <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of manual mode.
	NONE, Sets None manual type.
	LINE, Sets Line manual type.
	PAYLOAD, Sets Payload manual type.
Response Syntax	<Set>
Example(s)	SENS:DATA:TEL:DS1:MAN:TYPE LINE
See Also	SOURce:DATA:TELecom:DS[1..n]:PAYLoad:FRAMing?

:SENSe:DATA:TELecom:DS[1..n]:MANual:TYPE?

Description	This query returns the manual Type.
	At *RST condition, this value is set to Auto-Response.
	Navigation Path: Setup > NI/CSU > Test Configurator > Setup > Signal Configuration > Mode (Manual) > TYPE
Syntax	:SENSe:DATA:TELecom:DS[1..n]:MANual:TYPE?
Response Syntax	<TYPE>
Response(s)	**TYPE**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the type of manual mode.
	NONE, None type is selected.
	LINE, Line type is selected.
	PAYLOAD, Payload type is selected.
Example(s)	SENS:DATA:TEL:DS1:MAN:TYPE LINE
	SENS:DATA:TEL:DS1:MAN:TYPE?
	Returns: LINE
See Also	SOURce:DATA:TELecom:DS[1..n]:PAYLoad:FRAMing

:SENSe:DATA:TELecom:DS[1..n]:MODE

Description	This command sets the Mode.
	At *RST condition, this value is set to Auto-Response.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Mode
Syntax	:SENSe:DATA:TELecom:DS[1..n]:MODE <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of mode.
	AUTO, Sets AUTO-RESPONSE mode.
	MANual, Sets MANUAL mode.
Response Syntax	<TYPE>
Example(s)	SENS:DATA:TEL:DS1:MODE AUTO
See Also	SOURce:DATA:TELecom:HOP:TYPE

:SENSe:DATA:TELecom:DS[1..n]:MODE?

Description	This query returns the Mode.
	At *RST condition, this value is set to Auto-Response.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Mode
Syntax	:SENSe:DATA:TELecom:DS[1..n]:MODE?
Response Syntax	<mode>
Response(s)	**mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the value mode selected.
	AUTO, Auto-Response mode is selected.
	MANUAL, Manual mode is selected.
Example(s)	SENS:DATA:TEL:DS1:MODE AUTO
	SENS:DATA:TEL:DS1:MODE?
	Returns: AUTO
See Also	SOURce:DATA:TELecom:HOP:TYPE?

:SENSe:DATA:TELecom:DS[1..n]:PAYLoad:FRAMing

Description	This command selects the framing of Digital Signal-level 1 (DS1)/Digital Signal-level 3 (DS3) for Through topology.
	At *RST condition, this value is set to CBITp.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Framing
Syntax	:SENSe:DATA:TELecom:DS[1..n]:PAYLoad:FRAMing <wsp><Framing>
Parameter(s)	**Framing**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the framing for transmission.
	UNFRAMED1: Unframed for DS1/DS3
	M13: M13 for DS3
	CBITP: Control-Bit (CBIT) for DS3
	SF1: Superframe for DS1
	ESF: Extended Superframe for DS1
	SLC96: SLC96 for DS1
	T1DALY: T1DALY for DS1
Response Syntax	<mode>
Example(s)	SENS:DATA:TEL:DS3:PAYL:FRAM UNF1
See Also	SOURce:DATA:TELecom:DS[1..n]:PAYLoad:FRAMing?

:SENSe:DATA:TELecom:DS[1..n]:PAYLoad:FRAMing?

Description	This query returns the framing of Digital Signal-level 1 (DS1)/Digital Signal-level 3 (DS3) for Through topology.
	At *RST condition, this value is set to CBITp.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Framing
Syntax	:SENSe:DATA:TELecom:DS[1..n]:PAYLoad:FRAMing?
Response Syntax	<Framing>
Response(s)	**Framing**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the framing that is used for transmission.
	UNFRAMED1, Unframed is selected as Digital Signal-level 1 (DS1)/Digital Signal-level 3 (DS3) framing.
	M13, M13 is selected as Digital Signal-level 3 (DS3) framing.
	CBITP, Control-Bit (C-Bit) Parity is selected as Digital Signal-level 3 (DS3) framing.
	SF1, Superframe (FSF) is selected as Digital Signal-level 1 (DS1) framing.
	ESF, Extended Superframe (FESF) is selected as Digital Signal-level 1 (DS1) framing.
	SLC96,SLC96 is selected as Digital Signal-level 1 (DS1) framing.
	T1DALY,T1DALY is selected as Digital Signal-level 1 (DS1) framing.
Example(s)	SENS:DATA:TEL:DS3:PAYL:FRAM UNF1
	SENS:DATA:TEL:DS3:PAYL:FRAM?
	Returns: UNFRAMED1
See Also	SOURce:DATA:TELecom:DS[1..n]:PAYLoad:FRAMing

:SENSe:DATA:TELecom:PDH:E[1..n]:ENABled

Description	This command enables/disables the activation of European standard for digital transmission-level 0 (E0)/64K testing for Through topology.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - E0
Syntax	:SENSe:DATA:TELecom:PDH:E[1..n]:ENABled <wsp><Status>
Parameter(s)	Status:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Framing>
Example(s)	SENS:DATA:TEL:PDH:E:ENAB ON
See Also	SOURce:DATA:TELecom:PDH:E:ENABled?

:SENSe:DATA:TELecom:PDH:E[1..n]:ENABled?

Description	This query returns the status of European standard for digital transmission-level 0 (E0)/64K testing for Through topology.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - E0
Syntax	:SENSe:DATA:TELecom:PDH:E[1..n]:ENABled?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SENS:DATA:TEL:PDH:E:ENAB ON
	SENS:DATA:TEL:PDH:E:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:PDH:E:ENABled

:SENSe:DATA:TELecom:PDH:E[1..n]:FRAMing

Description	This command sets the E1/E2/E3/E4 framing for Through topology.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Framing
Syntax	:SENSe:DATA:TELecom:PDH:E[1..n]:FRAMing \<wsp>\<Framing>
Parameter(s)	**Framing**:
	The program data syntax for the first parameter is defined as a \<CHARACTER PROGRAM DATA> element.
	Sets the frame coding that is used for transmission.
	UNFRAMED1: Unframed for E1/E2/E3/E4
	PCM301: PCM30 (Pulse Code Modulation) for E1/E2/E3/E4
	PCM30C41: PCM30 (Pulse Code Modulation)CRC4 (Cyclic Redundancy Check) for E1/E2/E3/E4
	PCM311: PCM31 (Pulse Code Modulation) for E1/E2/E3/E4
	PCM31C41: PCM31 (Pulse Code Modulation) CRC4 (Cyclic Redundancy Check) for E1/E2/E3/E4
	FRAMED: Framed for E2/E3/E4
Response Syntax	\<Status>
Example(s)	SENS:DATA:TEL:PDH:E1:FRAM UNF1
See Also	SOURce:DATA:TELecom:PDH:E[1..n]:FRAMing?

:SENSe:DATA:TELecom:PDH:E[1..n]:FRAMing?

Description	This query returns the E1/E2/E3/E4 framing for Through topology.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Framing
Syntax	:SENSe:DATA:TELecom:PDH:E[1..n]:FRAMing?
Response Syntax	<Framing>
Response(s)	**Framing**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the frame coding that is used for transmission.
	UNFRAMED1, Unframed is selected as E1/E2/E3/E4 framing.
	PCM301, Pulse Code Modulation (PCM30) is selected as E1/E2/E3/E4 framing.
	PCM30C41, Pulse Code Modulation (PCM30) Cyclic Redundancy Check (CRC4) is selected as E1/E2/E3/E4 framing.
	PCM311, PCM31 is selected as E1/E2/E3/E4 framing.
	PCM31C41, Pulse Code Modulation (PCM31) Cyclic Redundancy Check (CRC4) is selected as E1/E2/E3/E4 framing.
	FRAMED, Framed is selected as E2/E3/E4 framing.
Example(s)	SENS:DATA:TEL:PDH:E1:FRAM UNF1
	SENS:DATA:TEL:PDH:E1:FRAM?
	Returns: UNFRAMED1
See Also	SOURce:DATA:TELecom:PDH:E[1..n]:FRAMing

:SOURce:DATA:TELecom:DSNPdh:BACKground

Description	This command selects the background traffic.
	At *RST condition, this value set to EQUIPPED1.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Background
Syntax	:SOURce:DATA:TELecom:DSNPdh:BACKground <wsp><Background Traffic>
Parameter(s)	**Background Traffic**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the background traffic for SignaL CONFig.
	AIS: Alarm Indication Signal
	ALLZeros: ALLZeros
Response Syntax	<Framing>
Example(s)	SOUR:DATA:TEL:DSNPdh:BACKground AIS
See Also	SOURce:DATA:TELecom:BACKground:COMPutation

:SOURce:DATA:TELecom:DSNPdh:BACKground?

Description	This query returns the background traffic.
	At *RST condition, this value set to EQUIPPED1.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Background
Syntax	:SOURce:DATA:TELecom:DSNPdh:BACKground?
Response Syntax	<Background traffic>
Response(s)	**Background traffic**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the background traffic for Singal CONFig.
	AIS, Alarm Indication Signal (AIS) as background traffic is selected.
	ALLZeros, ALLZeros as background traffic is selected.
Example(s)	SOUR:DATA:TEL:DSNPdh:BACKground AIS
	SOUR:DATA:TEL:DSNPdh:BACKground?
	Returns: AIS
See Also	SOURce:DATA:TEL:BACKground:COMPutation?

:SOURce:DATA:TELecom:DSNPdh:POSition

Description	This command sets the DSn/PDH mapping position.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Channel
Syntax	:SOURce:DATA:TELecom:DSNPdh:POSition <wsp><Positionid>, <Position1>, <Position2>, <Position3>
Parameter(s)	**Positionid**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the mapping position.
	DSEPOSition: DSn/PDH
	Position1:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the mapping position values.
	Position2:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the mapping position values.
	Position3:
	The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the mapping position values.
Response Syntax	<Background traffic>
Example(s)	SOUR:DATA:TEL:DSNP:POS DSEPOSITION,1,1,0
See Also	SOURce:DATA:TELecom:HOP:TYPE

:SOURce:DATA:TELecom:DSNPdh:POSition?

Description	This query returns the DSn/PDH mapping position.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Channel
Syntax	:SOURce:DATA:TELecom:DSNPdh:POSition? <wsp><Positionid>
Parameter(s)	**Positionid**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the mapping position.
	DSEPOSition: DSn/PDH
Response Syntax	<Position>
Response(s)	**Position**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the mapping positions.
Example(s)	SOUR:DATA:TEL:DSNP:POS DSEPOSITION,1,1,0
	SOUR:DATA:TEL:DSNP:POS? DSEPOSITION
	Returns: (1,1,0)
See Also	SOURce:DATA:TELecom:HOP:TYPE?

:SOURce:DATA:TELecom:DS[1..n]:ENABled

Description	This command enables/disables the activation of Digital Signal-level 0 (DS0)/64K testing.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - DS0
Syntax	:SOURce:DATA:TELecom:DS[1..n]:ENABled <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Position>
Example(s)	SOUR:DATA:TEL:DS:ENAB ON
See Also	SOURce:DATA:TELecom:DS:ENABled?

:SOURce:DATA:TELecom:DS[1..n]:ENABled?

Description	This query returns the status of Digital Signal-level 0 (DS0)/64K testing.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - DS0
Syntax	:SOURce:DATA:TELecom:DS[1..n]:ENABled?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:DS:ENAB ON
	SOUR:DATA:TEL:DS:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:DS:ENABled

:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:FRAMing

Description	This command selects the framing of Digital Signal-level 1 (DS1)/Digital Signal-level 3 (DS3).
	At *RST condition, this value is set to CBITp.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Framing
Syntax	:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:FRAMing <wsp><Framing>
Parameter(s)	**Framing**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the framing for transmission.
	CBITP: Control-Bit (CBIT) for DS3
	ESF: Extended Superframe for DS1
	M13: M13 (DS3)
	SF1: Superframe for DS1
	SLC96: SLC96 for DS1
	T1DALY: T1DALY for DS1
	UNFRAMED1: Unframed for DS1/DS3
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:DS3:PAYL:FRAM UNF1
See Also	SOURce:DATA:TELecom:DS[1..n]:PAYLoad:FRAMing?

:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:FRAMing?

Description	This query returns the framing of Digital Signal-level 1 (DS1)/Digital Signal-level 3 (DS3).
	At *RST condition, this value is set to CBITp.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Framing
Syntax	:SOURce:DATA:TELecom:DS[1..n]:PAYLoad:FRAMing?
Response Syntax	<Framing>
Response(s)	**Framing**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the framing that is used for transmission.
	UNFRAMED1, Unframed is selected as Digital Signal-level 1 (DS1)/Digital Signal-level 3 (DS3) framing.
	M13, M13 is selected as Digital Signal-level 3 (DS3) framing.
	CBITP, Control-Bit (C-Bit) Parity is selected as Digital Signal-level 3 (DS3) framing.
	SF1, Superframe (FSF) is selected as Digital Signal-level 1 (DS1) framing.
	ESF, Extended Superframe (FESF) is selected as Digital Signal-level 1 (DS1) framing.
	SLC96,SLC96 is selected as Digital Signal-level 1 (DS1) framing.
	T1DALY,T1DALY is selected as Digital Signal-level 1 (DS1) framing.
Example(s)	SOUR:DATA:TEL:DS3:PAYL:FRAM UNF1
	SOUR:DATA:TEL:DS3:PAYL:FRAM?
	Returns: UNFRAMED1
See Also	SOURce:DATA:TELecom:DS[1..n]:PAYLoad:FRAMing

:SOURce:DATA:TELecom:DS[1..n]:SIGNaling:ENABle

Description	This command enables/disables the activation of DS1 Tx Signaling.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Tx Signaling
Syntax	:SOURce:DATA:TELecom:DS[1..n]:SIGNaling:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Framing>
Example(s)	SOUR:DATA:TEL:DS1:SIGN:ENAB ON
See Also	SOURce:DATA:TELecom:DS[1..n]:SIGNaling:ENABle

:SOURce:DATA:TELecom:DS[1..n]:SIGNaling:ENABle?

Description	This query returns the status of DS1 Tx Signaling.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration -Tx Signaling
Syntax	:SOURce:DATA:TELecom:DS[1..n]:SIGNaling:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:DS1:SIGN:ENAB ON
	SOUR:DATA:TEL:DS1:SIGN:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:DS[1..n]:SIGNaling:ENABle?

:SOURce:DATA:TELecom:E[1..n]:SIGNaling:ENABle

Description	This command enables/disables the activation of E1 TX Signaling in PDH.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - TX Signaling
Syntax	:SOURce:DATA:TELecom:E[1..n]:SIGNaling:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:E1:SIGN:ENAB ON
See Also	SOURce:DATA:TELecom:DS[1..n]:SIGNaling:ENABle

:SOURce:DATA:TELecom:E[1..n]:SIGNaling:ENABle?

Description	This query returns the status of E1 TX Signaling in PDH.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - TX Signaling
Syntax	:SOURce:DATA:TELecom:E[1..n]:SIGNaling:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:E1:SIGN:ENAB ON
	SOUR:DATA:TEL:E1:SIGN:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:DS[1..n]:SIGNaling:ENABle?

:SOURce:DATA:TELecom:PDH:E[1..n]:ENABled

Description	This command enables/disables the activation of European standard for digital transmission-level 0 (E0)/64K testing.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - E0
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:ENABled <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:PDH:E:ENAB ON
See Also	SOURce:DATA:TELecom:PDH:E:ENABled?

:SOURce:DATA:TELecom:PDH:E[1..n]:ENABled?

Description	This query returns the status of European standard for digital transmission-level 0 (E0)/64K testing.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - E0
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:ENABled?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:PDH:E:ENAB ON
	SOUR:DATA:TEL:PDH:E:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:PDH:E:ENABled

:SOURce:DATA:TELecom:PDH:E[1..n]:FRAMing

Description	This command sets the E1/E2/E3/E4 framing.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Framing
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:FRAMing <wsp><Framing>
Parameter(s)	**Framing**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the frame coding that is used for transmission.
	UNFRAMED1: Unframed for E1/E2/E3/E4
	PCM301: PCM30 (Pulse Code Modulation) for E1/E2/E3/E4
	PCM30C41: PCM30 (Pulse Code Modulation)CRC4 (Cyclic Redundancy Check) for E1/E2/E3/E4
	PCM311: PCM31 (Pulse Code Modulation) for E1/E2/E3/E4
	PCM31C41: PCM31 (Pulse Code Modulation) CRC4 (Cyclic Redundancy Check) for E1/E2/E3/E4
	FRAMED: Framed for E2/E3/E4
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:PDH:E1:FRAM UNF1
See Also	SOURce:DATA:TELecom:PDH:E[1..n]:FRAMing?

:SOURce:DATA:TELecom:PDH:E[1..n]:FRAMing?

Description	This query returns the E1/E2/E3/E4 framing.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > DSn/PDH > Signal Configuration - Framing
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:FRAMing?
Response Syntax	<Framing>
Response(s)	**Framing**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the frame coding that isused for transmission.
	UNFRAMED1, Unframed is selected as E1/E2/E3/E4 framing.
	PCM301, Pulse Code Modulation (PCM30) is selected as E1/E2/E3/E4 framing.
	PCM30C41, Pulse Code Modulation (PCM30) Cyclic Redundancy Check (CRC4) is selected as E1/E2/E3/E4 framing.
	PCM311, PCM31 is selected as E1/E2/E3/E4 framing.
	PCM31C41, Pulse Code Modulation (PCM31) Cyclic Redundancy Check (CRC4) is selected as E1/E2/E3/E4 framing.
	FRAMED, Framed is selected as E2/E3/E4 framing.
Example(s)	SOUR:DATA:TEL:PDH:E1:FRAM UNF1
	SOUR:DATA:TEL:PDH:E1:FRAM?
	Returns: UNFRAMED1
See Also	SOURce:DATA:TELecom:PDH:E[1..n]:FRAMing

S-OAM and MPLS-TP OAM

:SENSe:DATA:TELecom:SOAM:PEER:MEP:QUICk:PING?

Description	This query returns the Quick ping status.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Peer MEP Parameters - OAM Quick Ping
Syntax	:SENSe:DATA:TELecom:SOAM:PEER:MEP:QUICk:PING?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Quick ping status.
	INPROGRESS: Quick ping is in-progress
	SUCCESSFUL,: Quick ping completed successfully
	FAILED: Quick ping failed
Example(s)	SOUR:DATA:TEL:SOAM:PEER:MEP:QUICk:PING
	SENS:DATA:TEL:SOAM:PEER:MEP:QUICk:PING?
	Returns: INPROGRESS
See Also	SOURce:DATA:TELecom:SOAM:PEER:MEP:QUICk:PING
	SOURce:DATA:TELecom:SOAM:FUNC:FRAMe:PERiod?

:SOURce:DATA:TELecom:SOAM:CCHeck:ADDRess:TYPE

Description	This command sets the Continuity Check Address Type.
	At *RST condition, this value is set to MULTICAST.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Continuity Check - Address Type
Syntax	:SOURce:DATA:TELecom:SOAM:CCHeck:ADDRess:TYPE[<wsp><Type>]
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Select the Address type.
	UNIcast
	MULTicast
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:SOAM:CCHeck:ADDRess:TYPE UNICAST
	SOUR:DATA:TEL:SOAM:CCHeck:ADDRess:TYPE?
	Returns: UNICAST
See Also	SOURce:DATA:TELecom:SOAM:FUNC:TX:ENABle?

:SOURce:DATA:TELecom:SOAM:CCHeck:ADDRess:TYPE?

Description	This query returns the Continuity Check Address Type.
	At *RST condition, this value is set to MULTICAST.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Continuity Check - Address Type
Syntax	:SOURce:DATA:TELecom:SOAM:CCHeck:ADDRess:TYPE?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Address type.
	UNICAST, UNICAST is selected as Address type
	MULTICAST, MULTICAST is selected as Address type
Example(s)	SOUR:DATA:TEL:SOAM:CCHeck:ADDRess:TYPE UNICAST
	SOUR:DATA:TEL:SOAM:CCHeck:ADDRess:TYPE?
	Returns: UNICAST
See Also	SOURce:DATA:TELecom:SOAM:FUNC:TX:ENABle

:SOURce:DATA:TELecom:SOAM:CCHeck:DROP:ELIGible

Description	This command enables/disables Drop Eligible.
	At *RST condition, this value is device dependent.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Continuity Check - Drop Eligible
Syntax	:SOURce:DATA:TELecom:SOAM:CCHeck:DROP:ELIGible <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the status of Drop Eligible.
	YES
	NO
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:SOAM:CCHeck:DROP:ELIGible NO
	SOUR:DATA:TEL:SOAM:CCHeck:DROP:ELIGible?
	Returns: NO
See Also	FETCh:DATA:TELecom:SOAM:TRAF:TX:TOTal?

:SOURce:DATA:TELecom:SOAM:CCHeck:DROP:ELIGible?

Description	This query returns the on/off status of Drop Eligible.
	At *RST condition, this value is set to NO.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Continuity Check - Drop Eligible
Syntax	:SOURce:DATA:TELecom:SOAM:CCHeck:DROP:ELIGible?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the status of Drop Eligible.
	YES,YES is selected as status of Drop Eligible.
	NO,NO is selected as status of Drop Eligible.
Example(s)	SOUR:DATA:TEL:SOAM:CCHeck:DROP:ELIGible NO
	SOUR:DATA:TEL:SOAM:CCHeck:DROP:ELIGible?
	Returns: NO
See Also	SOURce:DATA:TELecom:SOAM:FUNC:FRAMe:SIZE

:SOURce:DATA:TELecom:SOAM:CCHeck:FUNCtion:ENABle

Description	This command enables/disables CC Function.
	At *RST condition, this value is set to ON.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Continuity Check - CC Function
Syntax	:SOURce:DATA:TELecom:SOAM:CCHeck:FUNCtion:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SOAM:CCHeck:FUNCtion:ENABle ON
	SOUR:DATA:TEL:SOAM:CCHeck:FUNCtion:ENABle?
	Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:FUNC:CONT:ENABle?

:SOURce:DATA:TELecom:SOAM:CCHeck:FUNCtion:ENABle?

Description	This query returns the on/off status of CC Function.
	At *RST condition, this value is ON.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Continuity Check - CC Function
Syntax	:SOURce:DATA:TELecom:SOAM:CCHeck:FUNCtion:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:SOAM:CCHeck:FUNCtion:ENABle ON
	SOUR:DATA:TEL:SOAM:CCHeck:FUNCtion:ENABle?
	Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:FUNC:CONT:ENABle

:SOURce:DATA:TELecom:SOAM:CCHeck:PERiod

Description	This command sets the transmission period of the CCM frame.
	At *RST condition, this value is set to 100 ms.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Continuity Check - Period
Syntax	:SOURce:DATA:TELecom:SOAM:CCHeck:PERiod[<wsp><Period>]
Parameter(s)	**Period**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Select the Period.
	P333MS: 3.33 MilliSeconds
	P10MS: 10 MilliSeconds
	P100MS: 100 MilliSeconds
	P1S: 1 Second
	P10S: 10 Seconds
	P1MIN: 1 Minute
	P10MIN: 10 Minutes
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:SOAM:CCHeck:PERiod P10MS
	SOUR:DATA:TEL:SOAM:CCHeck:PERiod?
	Returns: P10MS
See Also	SOURce:DATA:TELecom:SOAM:FUNC:TX:RATE?

:SOURce:DATA:TELecom:SOAM:CCHeck:PERiod?

Description	This query returns the transmission period of the CCM frame.
	At *RST condition, this value is 100 ms.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Continuity Check - Period
Syntax	:SOURce:DATA:TELecom:SOAM:CCHeck:PERiod?
Response Syntax	<Period>
Response(s)	**Period**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Period.
	P333MS, 3.33 MilliSeconds is selected as period
	P10MS, 10 MilliSeconds is selected as period
	P100MS,100 MilliSeconds is selected as period
	P1S, 1 Second is selected as period
	P10S, 10 Seconds is selected as period
	P1MIN, 1 Minute is selected as period
	P10MIN, 10 Minutes is selected as period
Example(s)	SOUR:DATA:TEL:SOAM:CCH:PER P10MS
	SOUR:DATA:TEL:SOAM:CCH:PER?
	Returns: P10MS
See Also	SOURce:DATA:TELecom:SOAM:FUNC:TX:RATE?

:SOURce:DATA:TELecom:SOAM:CCHeck:PRIority

Description	This command sets the Continuity Check Priority.
	At *RST condition, this value is device dependent.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Continuity Check - Priority
Syntax	:SOURce:DATA:TELecom:SOAM:CCHeck:PRIority <wsp><value>
Parameter(s)	**value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the priority.
	0: the priority 0
	1: the priority 1
	2: the priority 2
	3: the priority 3
	4: the priority 4
	5: the priority 5
	6: the priority 6
	7: the priority 7
Response Syntax	<Period>
Example(s)	SOUR:DATA:TEL:SOAM:CCHeck:PRIority 2
	SOUR:DATA:TEL:SOAM:CCHeck:PRIority?
	Returns: 2
See Also	FETCh:DATA:TELecom:SOAM:TRAF:TX:COUNt?

:SOURce:DATA:TELecom:SOAM:CCHeck:PRIority?

Description	This query returns level of priority.
	At *RST condition, this value is set to 7.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Continuity Check - Priority
Syntax	:SOURce:DATA:TELecom:SOAM:CCHeck:PRIority?
Response Syntax	\<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a \<NR1 NUMERIC RESPONSE DATA> element.
	Returns the priority:
	0, 1, 2, 3, 4, 5, 6, or 7
Example(s)	SOUR:DATA:TEL:SOAM:CCHeck:PRIority 2
	SOUR:DATA:TEL:SOAM:CCHeck:PRIority?
	Returns: 2
See Also	SOURce:DATA:TELecom:SOAM:FUNC:FRAMe:SIZE?

:SOURce:DATA:TELecom:SOAM:FUNCtion:ADDRess:TYPE

Description	This command sets the Address Type parameter shall determine the Destination Address Type of the LBM frame.
	At *RST condition, this value is set to Unicast.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Address Type
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:ADDRess:TYPE[<wsp><Type>]
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Select the Address type.
	UNIcast: the UNICAST type
	MULTicast: the MULTICAST type
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:ADDRess:TYPE MULTICAST
	SOUR:DATA:TEL:SOAM:FUNC:ADDRess:TYPE?
	Returns: MULTICAST
See Also	SOURce:DATA:TELecom:SOAM:LOC:DOMain:ID?

:SOURce:DATA:TELecom:SOAM:FUNCtion:ADDRess:TYPE?

Description	This query returns the Address Type parameter shall determine the Destination Address Type of the LBM frame.
	At *RST condition, this value is set to Unicast.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Address Type
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:ADDRess:TYPE?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Address type.
	UNICAST, UNICAST as selected Address type
	MULTICAST, MULTICAST as selected Address type
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:ADDRess:TYPE MULTICAST
	SOUR:DATA:TEL:SOAM:FUNC:ADDRess:TYPE?
	Returns: MULTICAST
See Also	SOURce:DATA:TELecom:SOAM:LOC:DOMain:ID

:SOURce:DATA:TELecom:SOAM:FUNCtion:CONTinuous:ENABle

Description	This command sets the status of Continuous parameter.
	At *RST condition, this value is set to ON.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Continuous
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:CONTinuous:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:CONT:ENABle ON
	SOUR:DATA:TEL:SOAM:FUNC:CONT:ENABle?
	Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:PEER:MEP:ID?

:SOURce:DATA:TELecom:SOAM:FUNCtion:CONTinuous:ENABle?

Description	This query returns the status of Continuous parameter as Enabled/Disabled.
	At *RST condition, this value is ON.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Continuous
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:CONTinuous:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:CONT:ENABle ON
	SOUR:DATA:TEL:SOAM:FUNC:CONT:ENABle?
	Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:PEER:MEP:ID

:SOURce:DATA:TELecom:SOAM:FUNCtion:DROP:ELIGible

Description	This command enables/disable Drop Eligible.
	At *RST condition, this value is device dependent.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Drop Eligible
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:DROP:ELIGible <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the status of Drop Eligible.
	YES
	NO
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:DROP:ELIGible YES
	SOUR:DATA:TEL:SOAM:FUNC:DROP:ELIGible?
	Returns: YES
See Also	FETCh:DATA:TELecom:SOAM:TRAF:TX:TOTal?

:SOURce:DATA:TELecom:SOAM:FUNCtion:DROP:ELIGible?

Description	This query returns the status of Drop Eligible.
	At *RST condition, this value is set to NO.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Drop Eligible
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:DROP:ELIGible?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the status of Drop Eligible.
	YES,YES is selected as status of Drop Eligible.
	NO,NO is selected as status of Drop Eligible.
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:DROP:ELIGible YES
	SOUR:DATA:TEL:SOAM:FUNC:DROP:ELIGible?
	Returns: YES
See Also	SOURce:DATA:TELecom:SOAM:FUNC:FRAMe:SIZE

:SOURce:DATA:TELecom:SOAM:FUNCtion:FRAMe:COUNt

Description	This command sets the Frame Count parameter shall set in inapplicable state if the Continuous parameter is enabled.
	At *RST condition, this value is device dependent.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Frame Count
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:FRAMe:COUNt[<wsp><value>]
Parameter(s)	**value**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the frame count.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:FRAMe:COUNt 64
	SOUR:DATA:TEL:SOAM:FUNC:FRAMe:COUNt?
	Returns: 64
See Also	SOURce:DATA:TELecom:SOAM:CCHeck:FUNCtion:ENABle?

:SOURce:DATA:TELecom:SOAM:FUNCtion:FRAMe:COUNt?

Description	This query returns the Frame Count parameter.
	At *RST condition, this value is device dependent.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Frame Count
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:FRAMe:COUNt?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the frame count.
	This parameter is optional. If no token is specified, the current frame count value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the frame count.
	MAXimum, Gets the frame count as maximum.
	MINimum, Gets the frame count as minimum.
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:FRAMe:COUNt 64
	SOUR:DATA:TEL:SOAM:FUNC:FRAMe:COUNt?
	Returns: 64
See Also	SOURce:DATA:TELecom:SOAM:CCHeck:FUNCtion:ENABle

:SOURce:DATA:TELecom:SOAM:FUNCtion:FRAMe:SIZE

Description	This command sets the Frame Size parameter shall determine the LBM frame size.
	At *RST condition, this value is set to 64.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Frame Size
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:FRAMe:SIZE[<wsp><value>]
Parameter(s)	**value**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the frame size.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:FRAM:SIZE 68
	SOUR:DATA:TEL:SOAM:FUNC:FRAM:SIZE?
	Returns: 68
See Also	SOURce:DATA:TELecom:SOAM:LOC:MD:LEVel?

:SOURce:DATA:TELecom:SOAM:FUNCtion:FRAMe:SIZE?

Description	This query returns the Frame Size parameter shall determine the LBM frame size.
	At *RST condition, this value is 64.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Frame Size
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:FRAMe:SIZE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the frame size.
	This parameter is optional. If no token is specified, the current frame size value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the TX rate.
	MAXimum, Gets the frame size as maximum.
	MINimum, Gets the frame size as minimum.
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:FRAM:SIZE 68
	SOUR:DATA:TEL:SOAM:FUNC:FRAM:SIZE?
	Returns: 68
See Also	SOURce:DATA:TELecom:SOAM:LOC:MD:LEVel

:SOURce:DATA:TELecom:SOAM:FUNCtion:PAYLoad

Description	This command sets the Payload value.
	At *RST condition, this value is set to CC.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - PayLoad
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:PAYLoad[<wsp><PAYLoad>]
Parameter(s)	**PAYLoad**:
	The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Payload.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:PAYLoad #H00
	SOUR:DATA:TEL:SOAM:FUNC:PAYLoad?
	Returns: 0
See Also	SOURce:DATA:TELecom:SOAM:CCHeck:PERiod?

:SOURce:DATA:TELecom:SOAM:FUNCtion:PAYLoad?

Description	This query returns Payload value.
	At *RST condition, this value is CC.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - PayLoad
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:PAYLoad?
Response Syntax	<Payload>
Response(s)	**Payload**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the payload values in integer format.
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:PAYLoad #H00
	SOUR:DATA:TEL:SOAM:FUNC:PAYLoad?
	Returns: 0
See Also	SOURce:DATA:TELecom:SOAM:CCHeck:PERiod

:SOURce:DATA:TELecom:SOAM:FUNCtion:PERiod?

Description	This query returns the Period parameter.
	At *RST condition, this value is set to 100ms.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Period
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:PERiod?
Response Syntax	<Period>
Response(s)	**Period**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Period.
	P333MS, 3.33 MilliSeconds is selected as period
	P10MS, 10 MilliSeconds is selected as period
	P100MS,100 MilliSeconds is selected as period
	P1S, 1 Second is selected as period
	P10S, 10 Seconds is selected as period
	P1MIN, 1 Minute is selected as period
	P10MIN, 10 Minutes is selected as period
Example(s)	SOUR:DATA:TEL:SOAM:TESt:FUNCtion FRAMEDELAY
	SOUR:DATA:TEL:SOAM:FUNC:PERiod?
See Also	SOURce:DATA:TELecom:SOAM:PEER:MEP:QUICk:PING

:SOURce:DATA:TELecom:SOAM:FUNCtion:PRIority

Description	This command sets the Priority.
	At *RST condition, this value is device dependent.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Priority
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:PRIority <wsp><value>
Parameter(s)	**value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the priority.
	0: the priority 0
	1: the priority 1
	2: the priority 2
	3: the priority 3
	4: the priority 4
	5: the priority 5
	6: the priority 6
	7: the priority 7
Response Syntax	<Period>
Example(s)	SOUR:DATA:TEL:SOAM:FUNCtion:PRIority 2
	SOUR:DATA:TEL:SOAM:FUNCtion:PRIority?
	Returns: 2
See Also	FETCh:DATA:TELecom:SOAM:TRAF:TX:COUNt?

:SOURce:DATA:TELecom:SOAM:FUNCtion:PRIority?

Description	This query returns level of priority.
	At *RST condition, this value is set to 7.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Priority
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:PRIority?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the priority.
	0, 1, 2, 3, 4, 5, 6, or 7.
Example(s)	SOUR:DATA:TEL:SOAM:FUNCtion:PRIority 2
	SOUR:DATA:TEL:SOAM:FUNCtion:PRIority?
	Returns: 2
See Also	SOURce:DATA:TELecom:SOAM:FUNC:FRAMe:SIZE?

:SOURce:DATA:TELecom:SOAM:FUNCtion:RMEPid:ENABle

Description	This command enables/disables Requesting MEP ID TLV.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Requesting MEP ID TLV
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:RMEPid:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:RMEP:ENABle ON
	SOUR:DATA:TEL:SOAM:FUNC:RMEP:ENABle?
	Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:PEER:MEP:ID?

:SOURce:DATA:TELecom:SOAM:FUNCtion:RMEPid:ENABle?

Description	This query returns the on/off status of Requesting MEP ID TLV.
	At *RST condition, this value is ON.
	Navigation Path: Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Requesting MEP ID TLV
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:RMEPid:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:RMEP:ENABle ON
	SOUR:DATA:TEL:SOAM:FUNC:RMEP:ENABle?
	Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:PEER:MEP:ID

:SOURce:DATA:TELecom:SOAM:FUNCtion:TEST:ID

Description	This command sets the Test Pattern parameter shall determine the test pattern used to fill the Test TLV.
	At *RST condition, this value is set to 00 00 00 01.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Test Function (Synthetic Loss) > Test ID
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:TEST:ID[<wsp><Test Id>]
Parameter(s)	**Test Id**:
	The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Test Id.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:TLV:TYPE TESTID
	SOUR:DATA:TEL:SOAM:FUNC:TEST:ID #H00FF00FF
	SOUR:DATA:TEL:SOAM:FUNC:TEST:ID?
	Returns: 16711935
See Also	SOURce:DATA:TELecom:SOAM:FUNC:TX:RATE?

:SOURce:DATA:TELecom:SOAM:FUNCtion:TEST:ID?

Description	This query returns the Pattern parameter shall determine the test pattern used to fill the Test TLV.
	At *RST condition, this value is 1.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Test Function (Synthetic Loss) > Test ID
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:TEST:ID?
Response Syntax	<Test Id>
Response(s)	**Test Id**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Peer MEP Id values in integer format.
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:TLV:TYPE TESTID
	SOUR:DATA:TEL:SOAM:FUNC:TEST:ID #H00FF00FF
	SOUR:DATA:TEL:SOAM:FUNC:TEST:ID?
	Returns: 16711935
See Also	SOURce:DATA:TELecom:SOAM:FUNCtion:TX:RATE

:SOURce:DATA:TELecom:SOAM:FUNCtion:TEST:PATTern

Description	This command sets the Test Pattern parameter shall determine the test pattern used to fill the Test TLV.
	At *RST condition, this value is set to PRBS31.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Test Pattern
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:TEST:PATTern[<wsp><Type>]
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Select the Test Pattern.
	NULLCRC32: NULLCRC32
	NULLPATTERN: NULL
	PRBS31: PRBS31
	PRBS31CRC32: PRBS31CRC32
Response Syntax	<Test Id>
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:TLV:TYPE TEST
	SOUR:DATA:TEL:SOAM:FUNC:TEST:PATTern PRBS31
	SOUR:DATA:TEL:SOAM:FUNC:TEST:PATTern?
	Returns: PRBS31
See Also	SOURce:DATA:TELecom:SOAM:FUNC:ADDRess:TYPE?

:SOURce:DATA:TELecom:SOAM:FUNCtion:TEST:PATTern?

Description	This query returns the Pattern parameter shall determine the test pattern used to fill the Test TLV.
	At *RST condition, this value is PRBS31.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Test Pattern
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:TEST:PATTern?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Test Pattern.
	NULLCRC32, NULLCRC32 is selected as type of Test Pattern.
	NULLPATTERN,NULL is selected as type of Test Pattern.
	PRBS31, PRBS31 is selected as type of Test Pattern.
	PRBS31CRC32,PRBS31CRC32 is selected as type of Test Pattern.
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:TLV:TYPE TEST
	SOUR:DATA:TEL:SOAM:FUNC:TEST:PATTern PRBS31
	SOUR:DATA:TEL:SOAM:FUNC:TEST:PATTern?
	Returns: PRBS31
See Also	SOURce:DATA:TELecom:SOAM:FUNC:ADDRess:TYPE

:SOURce:DATA:TELecom:SOAM:FUNCtion:TLV:TYPE

Description	This command sets the TLV Type parameter shall be configured to Test and shall be set in read-only state.
	At *RST condition, this value is device dependent.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - TLV Type
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:TLV:TYPE[<wsp><Type>]
Parameter(s)	Type:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Select the TLV type.
	DATA
	INVALID
	TEST
	TESTID
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:TLV:TYPE DATA
	SOUR:DATA:TEL:SOAM:FUNC:TLV:TYPE?
	Returns: DATA
See Also	SOURce:DATA:TELecom:SOAM:CCHeck:ADDRess:TYPe?

:SOURce:DATA:TELecom:SOAM:FUNCtion:TLV:TYPE?

Description	This query returns the TLV Type parameter.
	At *RST condition, this value is device dependent.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - TLV Type
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:TLV:TYPE?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the TLV type.
	DATA, DATA is selected as TLV type.
	INVALID,INVALID is selected as TLV type.
	TEST, TEST is selected as TLV type.
	TESTID,TESTID is selected as TLV type.
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:TLV:TYPE DATA
	SOUR:DATA:TEL:SOAM:FUNC:TLV:TYPE?
	Returns: DATA
See Also	SOURce:DATA:TELecom:SOAM:CCHeck:ADDRess:TYPE

:SOURce:DATA:TELecom:SOAM:FUNCtion:TX:ENABle

Description	This command enables/disables TX Enable.
	At *RST condition, this value is set to OFF.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - TX Enable
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:TX:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:TX:ENABle ON
	SOUR:DATA:TEL:SOAM:FUNC:TX:ENABle?
	Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:PEER:MEP:MAC:ADDRess?

:SOURce:DATA:TELecom:SOAM:FUNCtion:TX:ENABle?

Description	This query returns the on/off status of TX Enable.
	At *RST condition, this value is OFF.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - TX Enable
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:TX:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:SOAM:FUNC:TX:ENABle ON
	SOUR:DATA:TEL:SOAM:FUNC:TX:ENABle?
	Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:PEER:MEP:MAC:ADDRess

:SOURce:DATA:TELecom:SOAM:FUNCtion:TX:RATE

Description	This command sets the TX Rate % parameter shall determine the transmission rate of the LBM frame.
	At *RST condition, this value is set to 99.4999.
	Range: 0.001 to 100.000%
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - TX Rate
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:TX:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the TX rate.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:SOAM:TEST:FUNC LOOPBACK
	SOUR:DATA:TEL:SOAM:FUNC:TX:RATE 50
	SOUR:DATA:TEL:SOAM:FUNC:TX:RATE?
	Returns: 50
See Also	SOURce:DATA:TELecom:SOAM:LOC:MA:NAME?

:SOURce:DATA:TELecom:SOAM:FUNCtion:TX:RATE?

Description	This query returns the TX Rate % parameter shall determine the transmission rate of the LBM frame.
	At *RST condition, this value is 99.4999.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - TX Rate
Syntax	:SOURce:DATA:TELecom:SOAM:FUNCtion:TX:RATE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the TX rate.
	This parameter is optional. If no token is specified, the current TX rate value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the TX rate.
	MAXimum, Gets the Tx rate as maximum.
	MINimum, Gets the Tx rate as minimum.
Example(s)	SOUR:DATA:TEL:SOAM:TEST:FUNC LOOPBACK
	SOUR:DATA:TEL:SOAM:FUNC:TX:RATE 50
	SOUR:DATA:TEL:SOAM:FUNC:TX:RATE?
	Returns: 50
See Also	SOURce:DATA:TELecom:SOAM:LOC:MA:NAME

:SOURce:DATA:TELecom:SOAM:IP

Description	This command sets the IPv4 Address.
	At *RST condition, this value is set to 000.000.000.000
	Navigation Path: Setup > Test Configurator > S-OAM / MPLS-TP OAM > Next Hop Router - IP address
Syntax	:SOURce:DATA:TELecom:SOAM:IP <wsp><Address>
Parameter(s)	**Address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Selects the IPv4 address.
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:SOAM:IP 10.192.5.124
See Also	SOURce:DATA:TELecom:SOAM:FUNC:TLV:TYPe

:SOURce:DATA:TELecom:SOAM:IP?

Description	This query returns the IPv4 Address.
	At *RST condition, this value is set to 000.000.000.000
	Navigation Path: Setup > Test Configurator > S-OAM / MPLS-TP OAM > Next Hop Router - IP address
Syntax	:SOURce:DATA:TELecom:SOAM:IP?
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the IPv4 address.
Example(s)	SOUR:DATA:TEL:SOAM:IP 10.192.5.124
	SOUR:DATA:TEL:SOAM:IP?
	Returns: 10.192.5.124
See Also	SOURce:DATA:TELecom:SOAM:FUNC:TLV:TYPe?

:SOURce:DATA:TELecom:SOAM:IPVersion

Description	This command sets the IPv6 Address.
	At *RST condition, this value is set to FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF
	Navigation Path: Setup > Test Configurator > S-OAM / MPLS-TP OAM > Next Hop Router - IP address
Syntax	:SOURce:DATA:TELecom:SOAM:IPVersion <wsp><Address>
Parameter(s)	**Address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Selects the IPv6 address.
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:SOAM:IPV FE80:0000:0000:0000:0200:00FF:FE00:0000
See Also	SOURce:DATA:TELecom:SOAM:FUNC:TLV:TYPe

:SOURce:DATA:TELecom:SOAM:IPVersion?

Description	This query returns the IPv6 Address.
	At *RST condition, this value is set to FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF
	Navigation Path: Setup > Test Configurator > S-OAM / MPLS-TP OAM > Next Hop Router - IP address
Syntax	:SOURce:DATA:TELecom:SOAM:IPVersion?
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the IPv6 address.
Example(s)	SOUR:DATA:TEL:SOAM:IPV FE80:0000:0000:0000:0200:00FF:FE00:0000
	SOUR:DATA:TEL:SOAM:IPV?
	Returns: FE80:0000:0000:0000:0200:00FF:FE00:0000
See Also	SOURce:DATA:TELecom:SOAM:FUNC:TLV:TYPe?

:SOURce:DATA:TELecom:SOAM:LOCal:DOMain:ID

Description	This command sets the Maintenance Domain Id.
	At *RST condition, this value is set to EXFO Domain ID.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Local Parameters - MAID - Domain ID
Syntax	:SOURce:DATA:TELecom:SOAM:LOCal:DOMain:ID[<wsp><Domain Id>]
Parameter(s)	**Domain Id**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Selects the Domain Id value.
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:SOAM:MODE AG8021
	SOUR:DATA:TEL:SOAM:LOC:DOMain:ID EXFO Domain
	SOUR:DATA:TEL:SOAM:LOC:DOMain:ID?
	Returns: EXFO Domain
See Also	SOURce:DATA:TELecom:SOAM:FUNCtion:TEST:ID?

:SOURce:DATA:TELecom:SOAM:LOCal:DOMain:ID?

Description	This query returns the Maintenance Domain Id.
	At *RST condition, this value is EXFO Domain ID.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Local Parameters - MAID - Domain ID
Syntax	:SOURce:DATA:TELecom:SOAM:LOCal:DOMain:ID?
Response Syntax	<Domain Id>
Response(s)	**Domain Id**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Local Domain Id value.
Example(s)	SOUR:DATA:TEL:SOAM:MODE AG8021
	SOUR:DATA:TEL:SOAM:LOC:DOMain:ID EXFO Domain
	SOUR:DATA:TEL:SOAM:LOC:DOMain:ID?
	Returns: EXFO Domain
See Also	SOURce:DATA:TELecom:SOAM:FUNCtion:TEST:ID

:SOURce:DATA:TELecom:SOAM:LOCal:MA:NAME

Description	This command sets the Maintenance Domain Name.
	At *RST condition, this value is set to EXFO MA Name.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Local Parameters - MAID - MA Name
Syntax	:SOURce:DATA:TELecom:SOAM:LOCal:MA:NAME[<wsp><MA Name>]
Parameter(s)	**MA Name**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Selects the MA Name.
Response Syntax	<Domain Id>
Example(s)	SOUR:DATA:TEL:SOAM:MODE AG8021
	SOUR:DATA:TEL:SOAM:LOC:MA:NAME EXFO MA
	SOUR:DATA:TEL:SOAM:LOC:MA:NAME?
	Returns: EXFO MA
See Also	SOURce:DATA:TELecom:SOAM:FUNCtion:TEST:PATTern?

:SOURce:DATA:TELecom:SOAM:LOCal:MA:NAME?

Description	This query returns the Maintenance Domain Name.
	At *RST condition, this value is EXFO MA Name.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Local Parameters - MAID - MA Name
Syntax	:SOURce:DATA:TELecom:SOAM:LOCal:MA:NAME?
Response Syntax	<MA Name>
Response(s)	**MA Name**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Local MA Name.
Example(s)	SOUR:DATA:TEL:SOAM:MODE AG8021
	SOUR:DATA:TEL:SOAM:LOC:MA:NAME EXFO MA
	SOUR:DATA:TEL:SOAM:LOC:MA:NAME?
	Returns: EXFO MA
See Also	SOURce:DATA:TELecom:SOAM:FUNCtion:TEST:PATTern

:SOURce:DATA:TELecom:SOAM:LOCal:MD:LEVel

Description	This command sets the Maintenance domain levels.
	At *RST condition, this value is set to 7.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Local Parameters - MD Level
Syntax	:SOURce:DATA:TELecom:SOAM:LOCal:MD:LEVel[<wsp><MD Level>]
Parameter(s)	**MD Level**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Select the MD Level.
	0: the MD Level 0
	1: the MD Level 1
	2: the MD Level 2
	3: the MD Level 3
	4: the MD Level 4
	5: the MD Level 5
	6: the MD Level 6
	7: the MD Level 7
Response Syntax	<MA Name>
Example(s)	SOUR:DATA:TEL:SOAM:MODE AG8021
	SOUR:DATA:TEL:SOAM:LOC:MD:LEVel 5
	SOUR:DATA:TEL:SOAM:LOC:MD:LEVel?
	Returns: 5
See Also	SOURce:DATA:TELecom:SOAM:FUNC:PAYLoad?

:SOURce:DATA:TELecom:SOAM:LOCal:MD:LEVel?

Description	This query returns the Maintenance domain levels.
	At *RST condition, this value is 7.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Local Parameters - MD Level
Syntax	:SOURce:DATA:TELecom:SOAM:LOCal:MD:LEVel?
Response Syntax	<MD Level>
Response(s)	**MD Level**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the MD Level.
	1, 1 is selected as MD Level
	2, 2 is selected as MD Level
	3, 3 is selected as MD Level
	4, 4 is selected as MD Level
	5, 5 is selected as MD Level
	6, 6 is selected as MD Level
	7,7 is selected as MD Level
Example(s)	SOUR:DATA:TEL:SOAM:MODE AG8021
	SOUR:DATA:TEL:SOAM:LOC:MD:LEVel 5
	SOUR:DATA:TEL:SOAM:LOC:MD:LEVel?
	Returns: 5
See Also	SOURce:DATA:TELecom:SOAM:FUNC:PAYLoad

:SOURce:DATA:TELecom:SOAM:LOCal:MEG:ID

Description	This command sets the MEG ID.
	At *RST condition, this value is set to EXFO MEG ID.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Local Parameters - MEG ID
Syntax	:SOURce:DATA:TELecom:SOAM:LOCal:MEG:ID[<wsp><MEG Id>]
Parameter(s)	**MEG Id**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Selects the MEG Id value.
Response Syntax	<MD Level>
Example(s)	SOUR:DATA:TEL:SOAM:MODE Y1731
	SOUR:DATA:TEL:SOAM:LOCal:MEG:ID EXFO 123
	SOUR:DATA:TEL:SOAM:LOCal:MEG:ID?
	Returns: EXFO 123
See Also	SOURce:DATA:TELecom:SOAM:LOCal:MEP:ID?

:SOURce:DATA:TELecom:SOAM:LOCal:MEG:ID?

Description	This query returns the MEG ID.
	At *RST condition, this value is EXFO MEG ID.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Local Parameters - MEG ID
Syntax	:SOURce:DATA:TELecom:SOAM:LOCal:MEG:ID?
Response Syntax	<MEG Id>
Response(s)	**MEG Id**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Local MEG Id value.
Example(s)	SOUR:DATA:TEL:SOAM:MODE Y1731
	SOUR:DATA:TEL:SOAM:LOCal:MEG:ID EXFO 123
	SOUR:DATA:TEL:SOAM:LOCal:MEG:ID?
	Returns: EXFO 123
See Also	SOURce:DATA:TELecom:SOAM:LOCal:MEP:ID

:SOURce:DATA:TELecom:SOAM:LOCal:MEG:LEVel

Description	This command sets the MEG Level.
	At *RST condition, this value is set to 7.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Local Parameters - MEG Level
Syntax	:SOURce:DATA:TELecom:SOAM:LOCal:MEG:LEVel[<wsp><MEG Level>]
Parameter(s)	**MEG Level**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Select the MEG Level.
	0: the MEG Level 0
	1: the MEG Level 1
	2: the MEG Level 2
	3: the MEG Level 3
	4: the MEG Level 4
	5: the MEG Level 5
	6: the MEG Level 6
	7: the MEG Level 7
Response Syntax	<MEG Id>
Example(s)	SOUR:DATA:TEL:SOAM:MODE Y1731
	SOUR:DATA:TEL:SOAM:LOCal:MEG:LEVel 1
	SOUR:DATA:TEL:SOAM:LOCal:MEG:LEVel?
	Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:TESt:FUNCtion?

:SOURce:DATA:TELecom:SOAM:LOCal:MEG:LEVel?

Description	This query returns the MEG Level.
	At *RST condition, this value is 7.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Local Parameters - MEG Level
Syntax	:SOURce:DATA:TELecom:SOAM:LOCal:MEG:LEVel?
Response Syntax	<MEG Level>
Response(s)	**MEG Level**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the MEG Level.
	0, 0 is Selected as the MEG Level
	1, 1 is Selected as the MEG Level
	2, 2 is Selected as the MEG Level
	3, 3 is Selected as the MEG Level
	4, 4 is Selected as the MEG Level
	5,5 is Selected as the MEG Level
	6, 6 is Selected as the MEG Level
	7, 7 is Selected as the MEG Level
Example(s)	SOUR:DATA:TEL:SOAM:MODE Y1731
	SOUR:DATA:TEL:SOAM:LOCal:MEG:LEVel 1
	SOUR:DATA:TEL:SOAM:LOCal:MEG:LEVel?
	Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:TESt:FUNCtion

:SOURce:DATA:TELecom:SOAM:LOCal:MEP:ID

Description	This command sets the local MEP ID.
	At *RST condition, this value is set to 0x0001.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Local Parameters - MEP ID
Syntax	:SOURce:DATA:TELecom:SOAM:LOCal:MEP:ID[<wsp><MEP Id>]
Parameter(s)	**MEP Id**:
	The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Local MEP ID. The range for the MEP ID is from 0x0001 to 0x1FFF
Response Syntax	<MEG Level>
Example(s)	SOUR:DATA:TEL:SOAM:MODE Y1731
	SOUR:DATA:TEL:SOAM:LOCal:MEP:ID #H15
	SOUR:DATA:TEL:SOAM:LOCal:MEP:ID?
	Returns: 21
See Also	SOURce:DATA:TELecom:SOAM:THReshold?

:SOURce:DATA:TELecom:SOAM:LOCal:MEP:ID?

Description	This query returns the Local MEP ID.
	At *RST condition, this value is 1.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Local Parameters - MEP ID
Syntax	:SOURce:DATA:TELecom:SOAM:LOCal:MEP:ID?
Response Syntax	<MEP Id>
Response(s)	**MEP Id**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Local MEP Id values in integer format.
Example(s)	SOUR:DATA:TEL:SOAM:MODE Y1731
	SOUR:DATA:TEL:SOAM:LOCal:MEP:ID #H15
	SOUR:DATA:TEL:SOAM:LOCal:MEP:ID?
	Returns: 21
See Also	SOURce:DATA:TELecom:SOAM:THReshold

:SOURce:DATA:TELecom:SOAM:MODE

Description	This command sets the OAM mode.
	At *RST condition, this value is set to Y.1731 for S-OAM and G.8113.1 for MPLS-TP OAM.
	Navigation Path: Setup > Test Configurator > S-OAM / MPLS-TP OAM > OAM Mode
Syntax	:SOURce:DATA:TELecom:SOAM:MODE[<wsp><Mode>]
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Select S-OAM mode.
	Y1731: Y.1731
	AG8021: 802.1ag
	MEF: MEF
	G8113: G.8113.1
Response Syntax	<MEP Id>
Example(s)	SOUR:DATA:TEL:SOAM:MODE Y1731
	SOUR:DATA:TEL:SOAM:MODE?
	Returns: Y1731
See Also	SOURce:DATA:TELecom:SOAM:RESPonder:ENABle?

:SOURce:DATA:TELecom:SOAM:MODE?

Description	This query returns the OAM mode.
	At *RST condition, this value is set to Y.1731 for S-OAM and G.8113.1 for MPLS-TP OAM.
	Navigation Path: Setup > Test Configurator > S-OAM / MPLS-TP OAM > OAM Mode
Syntax	:SOURce:DATA:TELecom:SOAM:MODE?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the S-OAM mode.
	Y1731, Y.1731 is selected as type of S-OAM mode
	AG8021, 802.1ag is selected as type of S-OAM mode
	MEF, MEF is selected as type of S-OAM mode
	G8113, G.8113.1 is selected as type of S-OAM mode
Example(s)	SOUR:DATA:TEL:SOAM:MODE Y1731
	SOUR:DATA:TEL:SOAM:MODE?
	Returns: Y1731
See Also	SOURce:DATA:TELecom:SOAM:RESPonder:ENABle

:SOURce:DATA:TELecom:SOAM:MPLStp:ENABle

Description	This command enables/disables Label2/Label1/GAL.
	At *RST condition, this value is ON.
	Setup > Test Configurator > MPLS-TP OAM > MPLS-TP Label Stack - Label2/Label1/GAL
Syntax	:SOURce:DATA:TELecom:SOAM:MPLStp:ENABle \<wsp>\<Type>, \<Status>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a \<CHARACTER PROGRAM DATA> element.
	Selects Label name.
	LABEL2: the Label2
	LABEL1: the Label1
	GAL: the GAL
	Status:
	The program data syntax for the second parameter is defined as a \<BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	\<Mode>
Example(s)	SOUR:DATA:TEL:SOAM:MPLS:ENAB GAL,ON
See Also	SOURce:DATA:TELecom:SOAM:CCHeck:ADDRess:TYPe

:SOURce:DATA:TELecom:SOAM:MPLStp:ENABle?

Description	This query returns the on/off status of Label2/Label1/GAL.
	At *RST condition, this value is ON.
	Setup > Test Configurator > MPLS-TP OAM > MPLS-TP Label Stack - Label2/Label1/GAL
Syntax	:SOURce:DATA:TELecom:SOAM:MPLStp:ENABle? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Label name.
	LABEL2: the Label2
	LABEL1: the Label1
	GAL: the GAL
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:SOAM:MPLS:ENAB GAL,ON
	SOUR:DATA:TEL:SOAM:MPLS:ENAB? GAL
	Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:CCHeck:PERiod?

:SOURce:DATA:TELecom:SOAM:MPLStp:LABel

Description	This command sets the label id value of Label2/Label1/GAL.
	At *RST condition, this value is set to device dependant.
	Setup > Test Configurator > MPLS-TP OAM > MPLS-TP Label Stack - Label2/Label1/GAL - Label
Syntax	:SOURce:DATA:TELecom:SOAM:MPLStp:LABel <wsp><Type>,[<value>]
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Label name.
	LABEL2: the Label2
	LABEL1: the Label1
	GAL: the GAL.
	value:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Label Id of Label2/Label1/GAL.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:SOAM:MPLS:LAB GAL,58
See Also	SOURce:DATA:TELecom:SOAM:CCHeck:PERiod

:SOURce:DATA:TELecom:SOAM:MPLStp:LABel?

Description	This query returns the label id value of Label2/Label1/GAL.
	At *RST condition, this value is set to device dependant.
	Setup > Test Configurator > MPLS-TP OAM > MPLS-TP Label Stack - Label2/Label1/GAL - Label
Syntax	:SOURce:DATA:TELecom:SOAM:MPLStp:LABel? <wsp><Type>,[<Value>]
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Label name.
	LABEL2: the Label2
	LABEL1: the Label1
	GAL: the GAL
	Value:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Label Id of Label2/Label1/GAL.
	This parameter is optional. If no token is specified, the Label Id value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Label Id of Label2/Label1/GAL.
Example(s)	SOUR:DATA:TEL:SOAM:MPLS:LAB GAL,58
	SOUR:DATA:TEL:SOAM:MPLS:LAB? GAL
	Returns: 58
See Also	SOURce:DATA:TELecom:SOAM:FUNC:ADDRess:TYPe?

:SOURce:DATA:TELecom:SOAM:MPLStp:MODE

Description	This command sets the MPLS-TP mode.
	At *RST condition, this value is set to PW.
	Setup > Test Configurator > MPLS-TP OAM > MPLS-TP Label Stack - MPLS-TP Mode
Syntax	:SOURce:DATA:TELecom:SOAM:MPLStp:MODE[<wsp><Type>]
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects MPLS-TP mode
	LSP: LSP.
	PW: PW.
	SECTION: SECTION.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SOAM:MPLS:MODE LSP
See Also	SOURce:DATA:TELecom:SOAM:MODE

:SOURce:DATA:TELecom:SOAM:MPLStp:MODE?

Description	This query returns the MPLS-TP mode.
	At *RST condition, this value is set to PW.
	Setup > Test Configurator > MPLS-TP OAM > MPLS-TP Label Stack - MPLS-TP Mode
Syntax	:SOURce:DATA:TELecom:SOAM:MPLStp:MODE?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the MPLS-TP mode.
	LSP, LSP is selected.
	PW, PW is selected.
	SECTION, SECTION is selected.
Example(s)	SOUR:DATA:TEL:SOAM:MPLS:MODE LSP
	SOUR:DATA:TEL:SOAM:MPLS:MODE?
	Returns: LSP
See Also	SOURce:DATA:TELecom:SOAM:MODE?

:SOURce:DATA:TELecom:SOAM:MPLStp:TC

Description	This command sets the TC value of Label2/Label1/GAL.
	At *RST condition, this value is set to device dependant.
	Setup > Test Configurator > MPLS-TP OAM > MPLS-TP Label Stack - Label2/Label1/GAL - TC
Syntax	:SOURce:DATA:TELecom:SOAM:MPLStp:TC <wsp><Type>,[<value>]
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Label name.
	LABEL2: the Label2
	LABEL1: the Label1
	GAL: the GAL
	value:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the TC of Label2/Label1/GAL.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:SOAM:MPLS:TC GAL,5
See Also	SOURce:DATA:TELecom:SOAM:FUNC:ADDRess:TYPe

:SOURce:DATA:TELecom:SOAM:MPLStp:TC?

Description	This query returns the TC value of Label2/Label1/GAL.
	At *RST condition, this value is set to device dependant.
	Setup > Test Configurator > MPLS-TP OAM > MPLS-TP Label Stack - Label2/Label1/GAL - TC
Syntax	:SOURce:DATA:TELecom:SOAM:MPLStp:TC? <wsp><Type>,[<Value>]
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Label name.
	LABEL2: the Label2
	LABEL1: the Label1
	GAL: the GAL
	Value:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the TC of Label2/Label1/GAL.
	This parameter is optional. If no token is specified, the TC value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the TC of Label2/Label1/GAL.
Example(s)	SOUR:DATA:TEL:SOAM:MPLS:TC GAL,5
	SOUR:DATA:TEL:SOAM:MPLS:TC? GAL
	Returns: 5
See Also	SOURce:DATA:TELecom:SOAM:FUNC:TX:RATE?

:SOURce:DATA:TELecom:SOAM:MPLStp:TTL

Description	This command sets the TTL value of Label2/Label1/GAL.
	At *RST condition, this value is set to device dependant.
	Setup > Test Configurator > MPLS-TP OAM > MPLS-TP Label Stack - Label2/Label1/GAL - TL
Syntax	:SOURce:DATA:TELecom:SOAM:MPLStp:TTL <wsp><Type>,[<value>]
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Label name.
	LABEL2: the Label2
	LABEL1: the Label1
	GAL: the GAL
	value:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the TTL of Label2/Label1/GAL.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SOAM:MPLS:TTL GAL,158
See Also	SOURce:DATA:TELecom:SOAM:FUNCtion:TX:RATE

:SOURce:DATA:TELecom:SOAM:MPLStp:TTL?

Description	This query returns the TTL value of Label2/Label1/GAL.
	At *RST condition, this value is set to device dependant.
	Setup > Test Configurator > MPLS-TP OAM > MPLS-TP Label Stack - Label2/Label1/GAL - TL
Syntax	:SOURce:DATA:TELecom:SOAM:MPLStp:TTL? <wsp><Type>,[<Value>]
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Label name.
	LABEL2: the Label2
	LABEL1: the Label1
	GAL: the GAL
	Value:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the TTL of Label2/Label1/GAL.
	This parameter is optional. If no token is specified, the TTL value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the TTL of Label2/Label1/GAL
Example(s)	SOUR:DATA:TEL:SOAM:MPLS:TTL GAL,158
	SOUR:DATA:TEL:SOAM:MPLS:TTL? GAL
	Returns: 158
See Also	SOURce:DATA:TELecom:SOAM:CCHeck:FUNCtion:ENABle

:SOURce:DATA:TELecom:SOAM:PEER:MEP:ID

Description	This command sets the peer MEP Id.
	At *RST condition, this value is set to 0x0001.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Peer MEP Parameters - MEP ID
Syntax	:SOURce:DATA:TELecom:SOAM:PEER:MEP:ID[<wsp><MEP Id>]
Parameter(s)	**MEP Id**:
	The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Peer MEP ID. The range for the MEP ID is from 0x0001 to 0x1FFF
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SOAM:PEER:MEP:ID #H15
	SOUR:DATA:TEL:SOAM:PEER:MEP:ID?
	Returns: 21
See Also	SOURce:DATA:TELecom:SOAM:FUNC:FRAMe:COUNt?

:SOURce:DATA:TELecom:SOAM:PEER:MEP:ID?

Description	This query returns the peer MEP Id.
	At *RST condition, this value is 1.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Peer MEP Parameters - MEP ID
Syntax	:SOURce:DATA:TELecom:SOAM:PEER:MEP:ID?
Response Syntax	<MEP Id>
Response(s)	**MEP Id**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Peer MEP Id values in integer format.
Example(s)	SOUR:DATA:TEL:SOAM:PEER:MEP:ID #H15
	SOUR:DATA:TEL:SOAM:PEER:MEP:ID?
	Returns: 21
See Also	SOURce:DATA:TELecom:SOAM:FUNC:FRAMe:COUNt

:SOURce:DATA:TELecom:SOAM:PEER:MEP:MAC:ADDRess

Description	This command sets the MAC Address.
	At *RST condition, this value is set to 00:00:00:00:00:00.
	Setup > Test Configurator > S-OAM > Peer MEP Parameters - MAC Address
	Setup > Test Configurator > MPLS-TP OAM > Next Hop Router - MAC Address
Syntax	:SOURce:DATA:TELecom:SOAM:PEER:MEP:MAC:ADDRess[<wsp><Address>]
Parameter(s)	**Address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Selects the Peer MEP MAC address.
Response Syntax	<MEP Id>
Example(s)	SOUR:DATA:TEL:SOAM:PEER:MEP:MAC:ADDRess 00:00:00:FF:FF:CC
	SOUR:DATA:TEL:SOAM:PEER:MEP:MAC:ADDRess?
	Returns: 00:00:00:FF:FF:CC
See Also	SOURce:DATA:TELecom:SOAM:FUNC:TLV:TYPE?

:SOURce:DATA:TELecom:SOAM:PEER:MEP:MAC:ADDRess?

Description	This query returns the MAC Address. At *RST condition, this value is 00:00:00:00:00:00. Setup > Test Configurator > S-OAM > Peer MEP Parameters - MAC Address Setup > Test Configurator > MPLS-TP OAM > Next Hop Router - MAC Address
Syntax	:SOURce:DATA:TELecom:SOAM:PEER:MEP:MAC:ADDRess?
Response Syntax	<Address>
Response(s)	**Address**: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the Peer MEP MAC address.
Example(s)	SOUR:DATA:TEL:SOAM:PEER:MEP:MAC:ADDRess 00:00:00:FF:FF:CC SOUR:DATA:TEL:SOAM:PEER:MEP:MAC:ADDRess? Returns: 00:00:00:FF:FF:CC
See Also	SOURce:DATA:TELecom:SOAM:FUNC:TLV:TYPE

:SOURce:DATA:TELecom:SOAM:PEER:MEP:QUICk:PING

Description	This command starts Quick ping.
	This command is an event and is not associated with an *RST condition.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Peer MEP Parameters - OAM Quick Ping
Syntax	:SOURce:DATA:TELecom:SOAM:PEER:MEP:QUICk:PING
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:SOAM:PEER:MEP:QUICk:PING
	SENS:DATA:TEL:SOAM:PEER:MEP:QUICk:PING?
	Returns: INPROGRESS
See Also	SENSe:DATA:TELecom:SOAM:PEER:MEP:QUICk:PING?
	SOURce:DATA:TELecom:SOAM:FUNC:FRAMe:PERiod?

:SOURce:DATA:TELecom:SOAM:RESPonder:ENABle

Description	This command enables/disables the OAM Responder
	At *RST condition, this value is ON.
	Navigation Path: Setup > Test Configurator > S-OAM / MPLS-TP OAM > S-OAM / MPLS-TP OAM Responder
Syntax	:SOURce:DATA:TELecom:SOAM:RESPonder:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:SOAM:RESPonder:ENABle ON
	SOUR:DATA:TEL:SOAM:RESPonder:ENABle?
	Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:MODE?

:SOURce:DATA:TELecom:SOAM:RESPonder:ENABle?

Description	This query returns the on/off status of the OAM Responder
	At *RST condition, this value is ON.
	Navigation Path: Setup > Test Configurator > S-OAM / MPLS-TP OAM > S-OAM / MPLS-TP OAM Responder
Syntax	:SOURce:DATA:TELecom:SOAM:RESPonder:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:SOAM:RESPonder:ENABle ON
	SOUR:DATA:TEL:SOAM:RESPonder:ENABle?
	Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:MODE

:SOURce:DATA:TELecom:SOAM:RESolve:MAC:ENABle

Description	This command enables/disables Resolve MAC address.
	At *RST condition, this value is OFF.
	Navigation Path: Setup > Test Configurator > S-OAM / MPLS-TP OAM > Next Hop Router - Resolve MAC address
Syntax	:SOURce:DATA:TELecom:SOAM:RESolve:MAC:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:SOAM:RES:MAC:ENAB ON
See Also	SOURce:DATA:TELecom:SOAM:MODE

:SOURce:DATA:TELecom:SOAM:RESolve:MAC:ENABle?

Description	This query returns the on/off status of Resolve MAC address.
	At *RST condition, this value is OFF.
	Navigation Path: Setup > Test Configurator > S-OAM / MPLS-TP OAM > Next Hop Router - Resolve MAC address
Syntax	:SOURce:DATA:TELecom:SOAM:RESolve:MAC:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:SOAM:RES:MAC:ENAB ON
	SOUR:DATA:TEL:SOAM:RES:MAC:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:MODE?

:SOURce:DATA:TELecom:SOAM:TEST:FUNCtion

Description	This command sets the functional requirements for the Test function.
	At *RST condition, this value is set to Loopback.
	Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Function
Syntax	:SOURce:DATA:TELecom:SOAM:TEST:FUNCtion[<wsp><Type>]
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Select Test Function type.
	LOOPBACK
	TEST
	FRAMEDELAY
	FRAMELOSS
	SYNTHETICLOSS
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:SOAM:TESt:FUNCtion FRAMELOSS
	SOUR:DATA:TEL:SOAM:TESt:FUNCtion?
	Returns: FRAMELOSS
See Also	SOURce:DATA:TELecom:SOAM:LOCal:MEG:LEVel?

:SOURce:DATA:TELecom:SOAM:TEST:FUNCtion?

Description	This command sets the functional requirements for the Test function. At *RST condition, this value is set to Loopback. Setup > Test Configurator > S-OAM / MPLS-TP OAM > Test Function - Function
Syntax	:SOURce:DATA:TELecom:SOAM:TEST:FUNCtion?
Response Syntax	<Type>
Response(s)	**Type**: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns Test Function type. LOOPBACK, LOOPBACK is selected as type of Test Function TEST, TEST is selected as type of Test Function FRAMEDELAY, FRAMEDELAY is selected as type of Test Function FRAMELOSS, FRAMELOSS is selected as type of Test Function SYNTHETICLOSS,SYNTHETICLOSS is selected as type of Test Function
Example(s)	SOUR:DATA:TEL:SOAM:TESt:FUNCtion FRAMELOSS SOUR:DATA:TEL:SOAM:TESt:FUNCtion? Returns: FRAMELOSS
See Also	SOURce:DATA:TELecom:SOAM:LOCal:MEG:LEVel

Thresholds (S-OAM)

:SOURce:DATA:TELecom:SOAM:THReshold

Description	This command sets the threshold values
	At *RST condition, the threshold values are 50.0 ms for Frame Dealy, 10.0% for Frame Loss, and 10.0% for Synthetic Loss.
	Navigation Path: Setup > Test Configurator > Setup > S-OAM > S-OAM or MPLS-TP OAM > Thresholds
Syntax	:SOURce:DATA:TELecom:SOAM:THReshold <wsp><Type>, <Value>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Select Threshold type.
	FRAMEDELAY: Frame Delay Threshold
	FRAMELOSS: Frame Loss Threshold
	SYNTHETICLOSS: Synthetic Loss Threshold
	Value:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the threshold value.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<UTCOffset>
Example(s)	SOUR:DATA:TEL:SOAM:THReshold FRAMEDELAY, 20
	SOUR:DATA:TEL:SOAM:THReshold? FRAMEDELAY
	Returns: 20
See Also	SOURce:DATA:TELecom:SOAM:LOCal:MEG:ID?

:SOURce:DATA:TELecom:SOAM:THReshold?

Description	This query returns the threshold values
	At *RST condition, the threshold values are 50.0 ms for Frame Dealy, 10.0% for Frame Loss, and 10.0% for Synthetic Loss.
	Navigation Path: Setup > Test Configurator > Setup > S-OAM > S-OAM or MPLS-TP OAM > Thresholds
Syntax	:SOURce:DATA:TELecom:SOAM:THReshold? \<wsp>\<Type>,[\<Value>]
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a \<CHARACTER PROGRAM DATA> element.
	Select Threshold type.
	FRAMEDELAY: Frame Delay Threshold
	FRAMELOSS: Frame Loss Threshold
	SYNTHETICLOSS: Synthetic Loss Threshold
	Value:
	The program data syntax for the second parameter is defined as a \<CHARACTER PROGRAM DATA> element.
	Returns threshold value.
	This parameter is optional. If no token is specified, the threshold value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	\<value>
Response(s)	**value**:
	The response data syntax for the first parameter is defined as a \<NR2 NUMERIC RESPONSE DATA> element.
	Returns the threshold value.
Example(s)	SOUR:DATA:TEL:SOAM:THReshold FRAMEDELAY, 20
	SOUR:DATA:TEL:SOAM:THReshold? FRAMEDELAY
	Returns: 21
See Also	SOURce:DATA:TELecom:SOAM:LOCal:MEG:ID

RFC 6349

:FETCh:DATA:TELecom:ETHernet:RFC:EWORx:RID?

Description	This query returns the ID (name) of the remote.
	At *RST, this value is device dependent.
	Navigation Path: Setup > Test Configurator > RFC 6349 > Graphic (Remote module ID)
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:EWORx:RID?
Response Syntax	<Remote ID>
Response(s)	**Remote ID**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Remote ID
Example(s)	FETC:DATA:TEL:ETH:RFC:EWOR:RID?
	Returns the remote's ID
See Also	FETCh:DATA:TELecom:ETHernet:RFC:EWORx:RID?

:FETCh:DATA:TELecom:ETHernet:RFC:EWORx:RSTAte?

Description	This query returns the state of the remote.
	At *RST, this value is device dependent.
	Navigation Path: Setup > Test Configurator > RFC 6349 > Graphic (Remote Status)
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:EWORx:RSTAte?
Response Syntax	<State>
Response(s)	**State**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Remote state
Example(s)	FETC:DATA:TEL:ETH:RFC:EWOR:RSTA?
	Returns the remote's state
See Also	FETCh:DATA:TELecom:ETHernet:RFC:EWORx:RSTAte?

:FETCh:DATA:TELecom:ETHernet:RFC:NATDiscovery:LWIPaddress?

Description	This query returns the WAN IP of the local unit.
	At *RST, this value is device dependent.
	Navigation Path: Setup > Test Configurator > RFC 6349 > Graphic (WAN IP address)
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:NATDiscovery:LWIPaddress?
Response Syntax	<IP Address>
Response(s)	**IP Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Local WAN IP Address
Example(s)	FETC:DATA:TEL:ETH:RFC:NATD:LWIP?
	Returns the local's WAN IP Address
See Also	FETCh:DATA:TELecom:ETHernet:RFC:NATDiscovery:RWIPaddress?

:FETCh:DATA:TELecom:ETHernet:RFC:NATDiscovery:STATus?

Description	This query returns the NAT discovery status.
	At *RST, this value is device dependent.
	Navigation Path: Setup > Test Configurator > RFC 6349 > Graphic (NAT discovery status)
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:NATDiscovery:STATus?
Response Syntax	<Nat Status>
Response(s)	**Nat Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns NAT discovery status
Example(s)	FETC:DATA:TEL:ETH:RFC:NATD:STAT?
	Returns the NAT discovery status
See Also	FETCh:DATA:TELecom:ETHernet:RFC:NATDiscovery:STATus?

:SOURce:DATA:TELecom:ETHernet:RFC:ADVanced:BUFFerdelay

Description	This command sets the Buffer Delay Weight.
	At *RST, this value is set to 1.0
	Navigation Path: Setup > Test Configurator > RFC 6349 > Advanced > Buffer Delay Weight
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:ADVanced:BUFFerdelay \<wsp>\<Buffer Delay Weight>
Parameter(s)	**Buffer Delay Weight**:
	The program data syntax for the first parameter is defined as a \<DECIMAL NUMERIC PROGRAM DATA> element.
	Set the Buffer Delay Weight
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
Response Syntax	\<Nat Status>
Example(s)	SOUR:DATA:TEL:ETH:RFC:ADV:BUFF 1.0
	SOUR:DATA:TEL:ETH:RFC:ADV:BUFF?
	Returns: 1.0
See Also	SOURce:DATA:TELecom:ETHernet:RFC:ADVanced:TCPThr

:SOURce:DATA:TELecom:ETHernet:RFC:ADVanced:BUFFerdelay?

Description	This query returns the value of Buffer Delay Weight.
	At *RST, this value is set to 1.0
	Navigation Path: Setup > Test Configurator > RFC 6349 > Advanced > Buffer Delay Weight
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:ADVanced:BUFFerdelay?[<wsp><Buffer Delay Weight>]
Parameter(s)	**Buffer Delay Weight**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token specified, the current Buffer Delay Weight is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Buffer Delay Weight>
Response(s)	**Buffer Delay Weight**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the value of Buffer Delay Weight.
Example(s)	SOUR:DATA:TEL:ETH:RFC:ADV:BUFF 1.0
	SOUR:DATA:TEL:ETH:RFC:ADV:BUFF?
	Returns: 1.0
See Also	SOURce:DATA:TELecom:ETHernet:RFC:ADVanced:TCPThr?

:SOURce:DATA:TELecom:ETHernet:RFC:ADVanced:TCPThr

Description	This command sets the TCP Throughput Weight.
	At *RST, this value is set to 0.0
	Navigation Path: Setup > Test Configurator > RFC 6349 > Advanced > TCP Throughput Weight
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:ADVanced:TCPThr <wsp><TCP Throughput Weight>
Parameter(s)	**TCP Throughput Weight**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Set the TCP Throughput Weight
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Buffer Delay Weight>
Example(s)	SOUR:DATA:TEL:ETH:RFC:ADV:TCPT 1.0
	SOUR:DATA:TEL:ETH:RFC:ADV:TCPT?
	Returns: 1.0
See Also	SOURce:DATA:TELecom:ETHernet:RFC:ADVanced:BUFFerdelay

:SOURce:DATA:TELecom:ETHernet:RFC:ADVanced:TCPThr?

Description	This query returns the value of TCP Throughput Weight.
	At *RST, this value is set to 0.0
	Navigation Path: Setup > Test Configurator > RFC 6349 > Advanced > TCP Throughput Weight
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:ADVanced:TCPThr?[<wsp><TCP Throughput Weight>]
Parameter(s)	**TCP Throughput Weight**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current TCP Throughput Weight is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<TCP Throughput Weight>
Response(s)	**TCP Throughput Weight**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the value of TCP Throughput Weight.
Example(s)	SOUR:DATA:TEL:ETH:RFC:ADV:TCPT 1.0
	SOUR:DATA:TEL:ETH:RFC:ADV:TCPT?
	Returns: 1.0
See Also	SOURce:DATA:TELecom:ETHernet:RFC:ADVanced:BUFFerdelay?

:SOURce:DATA:TELecom:ETHernet:RFC:CIR

Description	This command sets the CIR for RFC 6349 test application.
	At *RST, this value is set to 1.0
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > CIR
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:CIR <wsp><Direction>, <CIR>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	CIR:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the CIR
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<TCP Throughput Weight>
Example(s)	SOUR:DATA:TEL:ETH:RFC:CIR LTOR, 2.2
See Also	SOURce:DATA:TELecom:ETHernet:RFC:TOSDs

:SOURce:DATA:TELecom:ETHernet:RFC:CIR?

Description	This query returns the CIR for RFC 6349 test application.
	At *RST, this value is set to 1.0
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > CIR
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:CIR? <wsp><Direction>,[<CIR>]
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	CIR:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current CIR is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<CIR>
Response(s)	**CIR**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the CIR value.
Example(s)	SOUR:DATA:TEL:ETH:RFC:CIR LTOR, 2.2
	SOUR:DATA:TEL:ETH:RFC:CIR? LTOR
	Returns 2.2
See Also	SOURce:DATA:TELecom:ETHernet:RFC:TOSDs?

:SOURce:DATA:TELecom:ETHernet:RFC:CONNection:MANual

Description	This command sets the manual number of connections.
	At *RST,this value is set to system connection limit.
	Navigation path: Setup>Test Configurator>RFC 6349>Number Of Connections>Manual
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:CONNection:MANual <wsp><Value>
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Set the manual number of connections.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<CIR>
Example(s)	SOUR:DATA:TEL:ETH:RFC:CONN:MAN 5
See Also	SOUR:DATA:TELecom:ETHernet:RFC:CONNection:MANual?

:SOURce:DATA:TELecom:ETHernet:RFC:CONNection:MANual?

Description	This query returns the number of connections configured in manual mode for RFC 6349 test application.
	At *RST this value is set to system connection limit.
	Navigation path:Setup>Test Configurator>RFC6349>Number Of Connections>Manual
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:CONNection:MANual?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current manual value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Manual Number of Connections.
Example(s)	SOUR:DATA:TEL:ETH:RFC:CONN:MAN 5
See Also	SOUR:DATA:TELecom:ETHernet:RFC:CONNection:MANual

:SOURce:DATA:TELecom:ETHernet:RFC:CONNection:MODe

Description	This command selects the number of connections mode for RFC 6349 test application.
	At *RST this value sets to AUTO.
	Navigation path: Setup>Test Configurator>RFC 6349>Number Of Connections>Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:CONNection:MODe <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the number of connections mode.
	AUTO: Auto
	MANUAL: Manual
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:ETH:RFC:CONN:MOD AUTO
See Also	SOURce:DATA:TELecom:ETHernet:RFC:CONNection:MODe?

:SOURce:DATA:TELecom:ETHernet:RFC:CONNection:MODe?

Description	This query returns the number of connections mode for RFC 6349 test application.
	At *RST value sets to AUTO.
	Navigation path: Setup>Test Configurator>RFC 6349>Number Of Connections>Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:CONNection:MODe?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the number of connections mode.
	AUTO: Auto
	MANUAL: Manual
Example(s)	SOUR:DATA:TEL:ETH:RFC:CONN:MOD MANUAL
	SOUR:DATA:TEL:ETH:RFC:CONN:MOD?
	Returns MANUAL
See Also	SOURce:DATA:TELecom:ETHernet:RFC:CONNection:MODe

:SOURce:DATA:TELecom:ETHernet:RFC:DIRection

Description	This command selects the direction for RFC 6349 test application
	At *RST, this value is set to BIDIRECTIONAL.
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Direction
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:DIRection <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the direction
	BIDIRECTIONAL: Bidirectional
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:RFC:DIR LTOR
See Also	SOURce:DATA:TELecom:ETHernet:RFC:TCP:SERPort

:SOURce:DATA:TELecom:ETHernet:RFC:DIRection?

Description	This query returns the direction for RFC 6349 test application.
	At *RST, this value is set to BIDIRECTIONAL.
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Direction
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:DIRection?
Response Syntax	<Direction>
Response(s)	**Direction**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the direction
	BIDIRECTIONAL: Bidirectional
	LTOR: Local to Remote
	RTOL: Remote to Local
Example(s)	SOUR:DATA:TEL:ETH:RFC:DIR LTOR
	SOUR:DATA:TEL:ETH:RFC:DIR?
	Returns LTOR
See Also	SOURce:DATA:TELecom:ETHernet:RFC:TCP:SERPort?

:SOURce:DATA:TELecom:ETHernet:RFC:LISTening:PORT

Description	This command sets the Listening TCP port for RFC 6349 iPerf Compatible Server operation mode.
	At *RST, this value is set to 5001.
	Navigation Path: Setup > Test Configurator > RFC 6349 > iPerf Compatible Server > Listening TCP Port
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LISTening:PORT <wsp><Port Number>
Parameter(s)	**Port Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Set the Remote Port Number
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Direction>
Example(s)	SOUR:DATA:TEL:ETH:RFC:LIST:PORT 3456
	SOUR:DATA:TEL:ETH:RFC:LIST:PORT?
	Returns: 3456
See Also	SOURce:DATA:TELecom:ETHernet:RFC:REMOte:PORT

:SOURce:DATA:TELecom:ETHernet:RFC:LISTening:PORT?

Description	This query returns the Listening TCP port for RFC 6349 iPerf Compatible Server operation mode.
	At *RST, this value is set to 5001.
	Navigation Path: Setup > Test Configurator > RFC 6349 > iPerf Compatible Server > Listening TCP Port
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:LISTening:PORT?[<wsp><Port Number>]
Parameter(s)	**Port Number**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current TCP port number is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Port Number>
Response(s)	**Port Number**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Listening TCP port number.
Example(s)	SOUR:DATA:TEL:ETH:RFC:LIST:PORT 3456
	SOUR:DATA:TEL:ETH:RFC:LIST:PORT?
	Returns: 3456
See Also	SOURce:DATA:TELecom:ETHernet:RFC:REMOte:PORT?

:SOURce:DATA:TELecom:ETHernet:RFC:MAX:MTU

Description	This command sets the Max MTU value
	At *RST, this value is set to 1500
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Max MTU
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:MAX:MTU <wsp><Value>
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Max MTU value.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Port Number>
Example(s)	SOUR:DATA:TEL:ETH:RFC:MAX:MTU 1080
See Also	SOURce:DATA:TELecom:ETHernet:RFC:PATH:MTU:DISCovery

:SOURce:DATA:TELecom:ETHernet:RFC:MAX:MTU?

Description	This query returns the Max MTU for RFC 6349 test application.
	At *RST, this value is set to 1500
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Max MTU
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:MAX:MTU?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current MTU value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Max MTU value.
Example(s)	SOUR:DATA:TEL:ETH:RFC:MAX:MTU 1080
	SOUR:DATA:TEL:ETH:RFC:MAX:MTU? Returns 1080
See Also	SOURce:DATA:TELecom:ETHernet:RFC:PATH:MTU:DISCovery?

:SOURce:DATA:TELecom:ETHernet:RFC:MAXConnections

Description	This command selects the max number of connection allowed for RFC 6349 test application.
	At *RST, this value is set to 16.
	Navigation Path: RFC 6349 > Test Configurator > RFC 6349 > Max Nb of Connection Allowed
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:MAXConnections <wsp><Number>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the max number of connection allowed
	16
	128
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:ETH:RFC:MAXC 16

:SOURce:DATA:TELecom:ETHernet:RFC:MAXConnections?

Description	This query returns the max number of connection allowed for RFC 6349 test application.
	At *RST, this value is set to 16.
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Max Nb of Connection Allowed
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:MAXConnections?
Response Syntax	<Number>
Response(s)	**Number**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the max number of connection allowed
	16
	128
Example(s)	SOUR:DATA:TEL:ETH:RFC:MAXC 16
	SOUR:DATA:TEL:ETH:RFC:MAXC?
	Returns: 16

:SOURce:DATA:TELecom:ETHernet:RFC:MULTiple:CONNections

Description	This command enable disables Multiple connections
	At *RST, this value is set to 1
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Multiple Connections
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:MULTiple:CONNections <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enable/disable the Multiple connections
	ON: Enables the Multiple connections
	OFF: Disables the Multiple connections
Response Syntax	<Number>
Example(s)	SOUR:DATA:TEL:ETH:RFC:MULT:CONN ON
See Also	SOURce:DATA:TELecom:ETHernet:RFC:OPERation:MODe

:SOURce:DATA:TELecom:ETHernet:RFC:MULTiple:CONNections?

Description	This query returns status of Multiple connection
	At *RST, this value is set to 1
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Multiple Connections
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:MULTiple:CONNections?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the Multiple connection status
	1, Multiple connection is enabled.
	0, Multiple connection is disabled.
Example(s)	SOUR:DATA:TEL:ETH:RFC:MULT:CONN ON
	SOUR:DATA:TEL:ETH:RFC:MULT:CONN? Returns 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:OPERation:MODe?

:SOURce:DATA:TELecom:ETHernet:RFC:OPERation:MODe

Description	This command selects the operation mode for RFC 6349 test application.
	At *RST, this value is set to Dual Test Set.
	Navigation Path: RFC 6349 > Test Configurator > RFC 6349 > Operation mode
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:OPERation:MODe <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the operation mode
	RFC6349DTS: RFC 6349 DTS
	IPERFCS: iPerf Compatible Server
	TCPTDTS: TCP Throughput DTS
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:RFC:OPER:MOD RFC6349DTS
See Also	SOURce:DATA:TELecom:ETHernet:RFC:DIRection

:SOURce:DATA:TELecom:ETHernet:RFC:OPERation:MODe?

Description	This query returns the operation mode for RFC 6349 test application.
	At *RST, this value is set to Dual Test Set.
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Operation mode
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:OPERation:MODe?
Response Syntax	\<Mode\>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA\> element.
	Returns the Operation mode
	RFC6349DTS: RFC 6349 DTS
	IPERFCS: iPerf Compatible Server
	TCPTDTS: TCP Throughput DTS
Example(s)	SOUR:DATA:TEL:ETH:RFC:OPER:MOD RFC6349DTS
	SOUR:DATA:TEL:ETH:RFC:OPER:MOD?
	Returns RFC6349DTS
See Also	SOURce:DATA:TELecom:ETHernet:RFC:DIRection?

:SOURce:DATA:TELecom:ETHernet:RFC:PATH:MTU:DISCovery

Description	This command sets the status for Path MTU discovery.
	At *RST, this value is set to ON.
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Path MTU Discovery
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:PATH:MTU:DISCovery \<wsp>\<Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a \<BOOLEAN PROGRAM DATA> element.
	Enable/disable the Path MTU Discovery.
	ON: Enables the Path MTU Discovery.
	OFF: Disables the Path MTU Discovery.
Response Syntax	\<Mode>
Example(s)	SOUR:DATA:TEL:ETH:RFC:PATH:MTU:DISC ON
See Also	SOURce:DATA:TELecom:ETHernet:RFC:MAX:MTU

:SOURce:DATA:TELecom:ETHernet:RFC:PATH:MTU:DISCovery ?

Description	This query returns the status for Path MTU discovery.
	At *RST, this value is set to 0
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Path MTU Discovery
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:PATH:MTU:DISCovery?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the Path MTU Discovery status.
	1, Path MTU Discovery is enabled.
	0, Path MTU Discovery is disabled.
Example(s)	SOUR:DATA:TEL:ETH:RFC:PATH:MTU:DISC ON
	SOUR:DATA:TEL:ETH:RFC:PATH:MTU:DISC? Returns 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:MAX:MTU?

:SOURce:DATA:TELecom:ETHernet:RFC:REMOte:ADDRess:IP

Description	This command set the remote IP for the EXFO | Worx Interop operation mode of RFC 6349 test application.
	At *RST, this value is set to Dual Test Set.
	Navigation Path: Setup > Test Configurator > RFC 6349 > Remote IP Address
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:REMOte:ADDRess:IP <wsp><IP Address>
Parameter(s)	**IP Address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Set the Remote IP Address
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:RFC:REMO:ADDR:IP 1.2.3.4
	SOUR:DATA:TEL:ETH:RFC:ADDR:IP? Return 1.2.3.4
See Also	SOURce:DATA:TELecom:ETHernet:RFC:REMOte:ADDRess:IP

:SOURce:DATA:TELecom:ETHernet:RFC:REMOte:ADDRess:IP?

Description	This query returns the remote IP for the EXFO | Worx Interop operation mode of RFC 6349 test application.
	At *RST, this value is set to Dual Test Set.
	Navigation Path: Setup > Test Configurator > RFC 6349 > Remote IP address
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:REMOte:ADDRess:IP?
Response Syntax	<IP Address>
Response(s)	**IP Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Remote IP Address
	DTS: Dual test set
	IPREF
Example(s)	SOUR:DATA:TEL:ETH:RFC:REMO:ADDR:IP?
	Returns remote's IP address
See Also	SOURce:DATA:TELecom:ETHernet:RFC:REMOte:ADDRess:IP?

:SOURce:DATA:TELecom:ETHernet:RFC:REMOte:PORT

Description	This command set the TCP port number of RFC 6349 test application.
	At *RST, this value is set to 50201.
	Navigation Path: Setup > Test Configurator > RFC 6349 > TCP Port
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:REMOte:PORT <wsp><Port Number>
Parameter(s)	**Port Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Set the Remote Port Number
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<IP Address>
Example(s)	SOUR:DATA:TEL:ETH:RFC:REMO:PORT 56789
	SOUR:DATA:TEL:ETH:RFC:REMO:PORT? Return 56789
See Also	SOURce:DATA:TELecom:ETHernet:RFC:REMOte:PORT

:SOURce:DATA:TELecom:ETHernet:RFC:REMOte:PORT?

Description	This query returns the TCP port number of RFC 6349 test application.
	At *RST, this value is set to 50201.
	Navigation Path: Setup > Test Configurator > RFC 6349 > TCP Port
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:REMOte:PORT?[<wsp><Port Number>]
Parameter(s)	**Port Number**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current TCP port number is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Port Number>
Response(s)	**Port Number**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Remote port number
	DTS: Dual test set
	IPREF
Example(s)	SOUR:DATA:TEL:ETH:RFC:REMO:PORT?
	Returns remote's port number
See Also	SOURce:DATA:TELecom:ETHernet:RFC:REMOte:PORT?

:SOURce:DATA:TELecom:ETHernet:RFC:RESTore:DEFault

Description	This command restore defaults the RFC 6349 values.
	This is a action commands and has no default value.
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Restore RFC 6349 Defaults.
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:RESTore:DEFault
Response Syntax	<Port Number>
Example(s)	SOUR:DATA:TEL:ETH:RFC:REST:DEF
See Also	SOURce:DATA:TELecom:OTN:REStore:DEFault
	SOURce:DATA:TELecom:ETHernet:ESAM:RESTore:DEFault
	SOURce:DATA:TELecom:ETHernet:STReam:GLOBal:RESTore:DEFault
	SOURce:DATA:TELecom:RESTore:DEFault

:SOURce:DATA:TELecom:ETHernet:RFC:TCP:SERPort

Description	This command sets the TCP server port for RFC 6349 test application.
	At *RST, this value is set to 50201.
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > TCP Server port
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:TCP:SERPort <wsp><Direction>, <TCP server port>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	TCP server port:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the TCP server port value
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Port Number>
Example(s)	SOUR:DATA:TEL:ETH:RFC:TCP:SERP 24
See Also	SOURce:DATA:TELecom:ETHernet:RFC:OPERation:MODe

:SOURce:DATA:TELecom:ETHernet:RFC:TCP:SERPort?

Description	This query returns the direction for RFC 6349 test application.
	At *RST, this value is set to 50201
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > TCP Server port
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:TCP:SERPort? <wsp><Direction>,[<Value>]
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	Value:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the port number.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<TCP server port>
Response(s)	**TCP server port**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the TCP server port value.
Example(s)	SOUR:DATA:TEL:ETH:RFC:TCP:SERP 24
	SOUR:DATA:TEL:ETH:RFC:TCP:SERP?
	Returns 24
See Also	SOURce:DATA:TELecom:ETHernet:RFC:OPERation:MODe?

:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:DURation

Description	This command sets the TCP Throughput duration.
	At *RST, this value is set to 00d:00:01:00
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > TCP Throughput > Duration
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:DURation \<wsp>\<Duration>
Parameter(s)	**Duration**:
	The program data syntax for the first parameter is defined as a \<STRING PROGRAM DATA> element.
	Sets the TCP throughput duration.
	Format is 00d:hh:mm:ss
Response Syntax	\<TCP server port>
Example(s)	SOUR:DATA:TEL:ETHernet:RFC:TCP:THR:DUR 00d:00:01:01
See Also	SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:THReshold

:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:DURation?

Description	This query returns the TCP Throughput duration.
	At *RST, this value is set to 00d:00:01:00
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > TCP Throughput > Duration
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:DURation?
Response Syntax	<Duration>
Response(s)	**Duration**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the TCP Throughput duration
Example(s)	SOUR:DATA:TEL:ETHernet:RFC:TCP:THR:DUR 00d:00:01:01
	SOUR:DATA:TEL:ETHernet:RFC:TCP:THR:DUR? Returns 00d:00:01:01
See Also	SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:THReshold?

:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:THReshold

Description	This command sets the TCP Throughput Threshold.
	At *RST, this value is set to 95.0
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > TCP Throughput > Threshold(%)
	Navigation Path: Results > Summary > TCP Throughput > TCP Throughput Threshold
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:THReshold <wsp><Threshold>
Parameter(s)	**Threshold**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the TCP Throughput Threshold.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Duration>
Example(s)	SOUR:DATA:TEL:ETH:RFC:TCP:THR:THR 20.2
See Also	SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:DURation

:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:THReshold?

Description	This query returns the TCP Throughput Threshold.
	At *RST, this value is set to 95.0
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > TCP Throughput > Threshold(%)
	Navigation Path: Results > Summary > TCP Throughput > TCP Throughput Threshold
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:THReshold?[<wsp><Threshold>]
Parameter(s)	**Threshold**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current TCP Throughput Threshold is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Threshold>
Response(s)	**Threshold**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Threshold value.
Example(s)	SOUR:DATA:TEL:ETH:RFC:TCP:THR:THR 20.2
	SOUR:DATA:TEL:ETH:RFC:TCP:THR:THR? Returns 20.2
See Also	SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:DURation?

:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:VERDict

Description	This command enabe disables the TCP Throughput Verdict
	At *RST, this value is set to 1
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > TCP Throughput > Verdict
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:VERDict <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enable/disable the TCP throughput verdict.
	ON: Enables the verdict
	OFF: Disables the verdict
Response Syntax	<Threshold>
Example(s)	SOUR:DATA:TEL:ETH:RFC:TCP:THR:VERD 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:THReshold

:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:VERDict?

Description	This query returns status of the TCP Throughput Verdict
	At *RST, this value is set to 1
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > TCP Throughput > Verdict
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:VERDict?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the verdict status
	1, verdict is enabled.
	0, verdict is disabled.
Example(s)	SOUR:DATA:TEL:ETH:RFC:TCP:THR:VERD 1
	SOUR:DATA:TEL:ETH:RFC:TCP:THR:VERD? Returns 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:THReshold?

:SOURce:DATA:TELecom:ETHernet:RFC:TOSDs

Description	This command sets the TOS/DS for RFC 6349 test application.
	At *RST, this value is set to 0
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > TOS/DS
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:TOSDs <wsp><Direction>, <TOSDS>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	TOSDS:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the TOS/DS value
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:RFC:TOSD LTOR,#H01
See Also	SOURce:DATA:TELecom:ETHernet:RFC:CIR

:SOURce:DATA:TELecom:ETHernet:RFC:TOSDs?

Description	This query returns the TOS/DS for RFC 6349 test application.
	At *RST, this value is set to 0
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > TOS/DS
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:TOSDs? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<TOS/DS>
Response(s)	**TOS/DS**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the TOS/DS value
Example(s)	SOUR:DATA:TEL:ETH:RFC:TOSD LTOR,#H01
	SOUR:DATA:TEL:ETH:RFC:TOSD? LTOR Returns 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:CIR?

:SOURce:DATA:TELecom:ETHernet:RFC:WBFactor

Description	This command sets the Window Boost Factor for RFC 6349 test application. At *RST, this value is set to 1.0 NavigationPath: Setup > RFC 6349 > Test Configurator > RFC 6349 > Window Boost
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:WBFactor <wsp><Direction>, <WBFactor>
Parameter(s)	**Direction**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. LTORemote: Local to Remote RTOLocal: Remote to Local **WBFactor**: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Window Boost Factor MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value
Response Syntax	<TOS/DS>
Example(s)	SOUR:DATA:TEL:ETH:RFC:WBF 1.3
See Also	SOURce:DATA:TELecom:ETHernet:RFC:CIR

:SOURce:DATA:TELecom:ETHernet:RFC:WBFactor:ENABle

Description	This command enables Window Boost Factor
	At *RST, this value is set to OFF
	Navigation Path: Setup > Test Configurator > RFC 6349 > Window Boost - Enable
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:WBFactor:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enable/disable the Window Boost Factor
	ON: Enables
	OFF: Disables
Response Syntax	<TOS/DS>
Example(s)	SOUR:DATA:TEL:ETH:RFC:WBF:ENAB ON
See Also	SOURce:DATA:TELecom:ETHernet:RFC:WINDow:SWEep ON

:SOURce:DATA:TELecom:ETHernet:RFC:WBFactor:ENABle?

Description	This query returns the Window Boost Factor Enable status.
	At *RST, this value is set to OFF
	Navigation Path: Setup > Test Configurator > RFC 6349 > Window Boost - Enable
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:WBFactor:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the Window Boost Factor enable status
	1, Enabled.
	0, Disabled
Example(s)	SOUR:DATA:TEL:ETH:RFC:WBF:ENAB ON
	SOUR:DATA:TEL:ETH:RFC:WBF:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:WINDow:SWEep

:SOURce:DATA:TELecom:ETHernet:RFC:WBFactor?

Description	This query returns the Window Boost Factor for RFC 6349 test application.
	At *RST condition, this value is set to 1.0
	Navigation Path: Setup > Test Configurator > RFC 6349 > Window Boost
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:WBFactor? <wsp><Direction>,[<WBFactor>]
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	WBFactor:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current Window Boost Factor is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<WBFactor>
Response(s)	**WBFactor**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Window Boost Factor value.
Example(s)	SOUR:DATA:TEL:ETH:RFC:WBF 1.3
	SOUR:DATA:TEL:ETH:RFC:WBF?
	Returns: 1.3
See Also	SOURce:DATA:TELecom:ETHernet:RFC:CIR?

:SOURce:DATA:TELecom:ETHernet:RFC:WINDow:SWEep

Description	This command sets the Window sweep status
	At *RST, this value is set to 0
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Window Sweep
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:WINDow:SWEep <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enable/disable the Window sweep
	ON: Enables the Window sweep
	OFF: Disables the Window sweep
Response Syntax	<WBFactor>
Example(s)	SOUR:DATA:TEL:ETH:RFC:WIND:SWE ON
See Also	SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:VERDict

:SOURce:DATA:TELecom:ETHernet:RFC:WINDow:SWEep:DURation

Description	This command sets the Window sweep status.
	At *RST, this value is set to 00:30
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Window Sweep > Duration (per step)
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:WINDow:SWEep:DURation <wsp><Duratoin>
Parameter(s)	**Duratoin**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the Window sweep duration.
	Format is MM:SS
Response Syntax	<WBFactor>
Example(s)	SOUR:DATA:TEL:ETH:RFC:WIND:SWE:DUR 00:30
See Also	SOURce:DATA:TELecom:ETHernet:RFC:WINDow:SWEep

:SOURce:DATA:TELecom:ETHernet:RFC:WINDow:SWEep:DURation?

Description	This query returns the Window sweep status.
	At *RST, this value is set to 00:30
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Window Sweep > Duration (per step)
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:WINDow:SWEep:DURation?
Response Syntax	<Duration>
Response(s)	**Duration**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Window sweep duration
Example(s)	SOUR:DATA:TEL:ETH:RFC:WIND:SWE:DUR 00:30
	SOUR:DATA:TEL:ETH:RFC:WIND:SWE:DUR? Returns 00:30
See Also	SOURce:DATA:TELecom:ETHernet:RFC:WINDow:SWEep?

:SOURce:DATA:TELecom:ETHernet:RFC:WINDow:SWEep?

Description	This query returns the Window sweep status.
	At *RST, this value is set to 0
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Window Sweep
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:WINDow:SWEep?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the Window sweep status
	1, Window sweep is enabled.
	0, Window sweep is disabled.
Example(s)	SOUR:DATA:TEL:ETH:RFC:WIND:SWE ON
	SOUR:DATA:TEL:ETH:RFC:WIND:SWE? Returns 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:VERDict?

:SOURce:DATA:TELecom:ETHernet:RFC:WSIZetarget

Description	This command selects the direction for RFC 6349 test application
	At *RST, this value is set to BIDIRECTIONAL.
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Direction
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:WSIZetarget <wsp><Value>
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Window size target
	WS1M: window size 1MiB
	WS4M: window size 4 MiB
	WS8M: window size 8 MiB
	WS16M: window size 16 MiB
	WS32M: window size 32 MiB
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:RFC:WSIZetarget
See Also	SOURce:DATA:TELecom:ETHernet:RFC:TCP:SERPort

:SOURce:DATA:TELecom:ETHernet:RFC:WSIZetarget?

Description	This query returns the direction for RFC 6349 test application.
	At *RST, this value is set to BIDIRECTIONAL.
	Navigation Path: Setup > RFC 6349 > Test Configurator > RFC 6349 > Direction
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:WSIZetarget?
Response Syntax	<Window Size>
Response(s)	**Window Size**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Window size target
	WS1M: window size 1MiB
	WS4M: window size 4 MiB
	WS8M: window size 8 MiB
	WS16M: window size 16 MiB
	WS32M: window size 32 MiB
Example(s)	SOUR:DATA:TEL:ETH:RFC:WSIZetarget WS4M
	SOUR:DATA:TEL:ETH:RFC:WSIZetarget?
	Returns WindowSize4MiB
See Also	SOURce:DATA:TELecom:ETHernet:RFC:TCP:SERPort?

Link OAM

:FETCh:DATA:TELecom:LOAM:DISCovery:LOCal:STATus?

Description	This query returns the Local OAM Discovery Status.
	At *RST, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Link OAM > OAM Discovery Status > Local
Syntax	:FETCh:DATA:TELecom:LOAM:DISCovery:LOCal:STATus?
Response Syntax	<Local Discovery Status>
Response(s)	**Local Discovery Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Return local Status as Unsatisfied | Stable | Evaluating.
Example(s)	FETC:DATA:TEL:LOAM:DISC:LOC:STAT?
See Also	SOURce:DATA:TELecom:TSCan:SCAN:ENABle?

:FETCh:DATA:TELecom:LOAM:DISCovery:REMote:STATus?

Description	This query returns the Remote OAM Discovery Status.
	At *RST, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Link OAM > OAM Discovery Status > Remote
Syntax	:FETCh:DATA:TELecom:LOAM:DISCovery:REMote:STATus?
Response Syntax	<Remote Discovery Status>
Response(s)	**Remote Discovery Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Return remote Status as Unsatisfied | Stable | Evaluating.
Example(s)	FETC:DATA:TEL:LOAM:DISC:REM:STAT?
See Also	SOURce:DATA:TELecom:TSCan:SCAN:ENABle?

:FETCh:DATA:TELecom:LOAM:LBACk:STATus?

Description	This query returns Local or Remote Loopback status.
	At *RST, this value of Local Loopback Status is Disabled and Remote Loopback Status depends on Remote capability.
	Navigation Path: Setup > Test Configurator > Link OAM > Local And Remote Loopback Status
	Navigation Path: Carrier Ethernet OAM > Modify Structure > OAM Type > Link OAM > Link Oam Summary Page > Local And Remote Loopback Status
Syntax	:FETCh:DATA:TELecom:LOAM:LBACk:STATus? <wsp><Device>
Parameter(s)	**Device**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Get Loopback status Enabled or Disabled.
	LOCal
	REMote
Response Syntax	<Status of Loopback>
Response(s)	**Status of Loopback**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Return Staus as Disabled or Enabled.
Example(s)	FETC:DATA:TEL:LOAM:LBAC:STAT? LOC
See Also	FETCh:DATA:TELecom:TSCan:LINK:RATE?

:SOURce:DATA:TELecom:LOAM:LBACk:LOCal

Description	This command allows configuration of Local Loopback.
	At *RST, this button control is set to Enable.
	Navigation Path: Setup > Test Configurator > Link OAM > Local Loopback Enable Button
	Navigation Path: Carrier Ethernet OAM > Modify Structure > OAM Type > Link OAM > Link Oam Summary Page > Local Loopback Enable Button.
Syntax	:SOURce:DATA:TELecom:LOAM:LBACk:LOCal <wsp><Local Status>
Parameter(s)	**Local Status**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Set Local Loopback Enabled or Disabled.
	ENABle
	DISable
Response Syntax	<Status of Loopback>
Example(s)	SOUR:DATA:TEL:LOAM:LBAC:LOC ENABLE
See Also	SOURce:DATA:TELecom:ETHer:RFC:WIND:SWE:DUR

:SOURce:DATA:TELecom:LOAM:LBACk:REMOte

Description	This command allows configuration of Remote Loopback.
	At *RST, this button control is set to Gridout Enable.
	Navigation Path: Setup > Test Configurator > Link OAM > Remote Loopback Enable Button
	Navigation Path: Carrier Ethernet OAM > Modify Structure > OAM Type > Link OAM > Link Oam Summary Page > Remote Loopback Enable Button.
Syntax	:SOURce:DATA:TELecom:LOAM:LBACk:REMOte <wsp><Remote Status>
Parameter(s)	**Remote Status**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Set Remote Loopback Enabled or Disabled.
	ENABle
	DISable
Response Syntax	<Status of Loopback>
Example(s)	SOUR:DATA:TEL:LOAM:LBAC:REMO ENABLE
See Also	SOURce:DATA:TELecom:ETHer:RFC:WIND:SWE:DUR

:SOURce:DATA:TELecom:LOAM:MODE

Description	This command allows configuration of OAM Mode.
	At *RST, this value is set to Active.
	Navigation Path: Setup > Test Configurator > Link OAM > OAM Mode
Syntax	:SOURce:DATA:TELecom:LOAM:MODE <wsp><OAM Mode>
Parameter(s)	**OAM Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Set OAM Mode to ACTIVE or PASSIVE.
Response Syntax	<Status of Loopback>
Example(s)	SOUR:DATA:TEL:LOAM:MODE PASSIVE
See Also	SOURce:DATA:TELecom:TSCan:LEVel:TYPE

:SOURce:DATA:TELecom:LOAM:MODE?

Description	This query returns the OAM Mode.
	At *RST, this value is set to Active.
	Navigation Path: Setup > Test Configurator > Link OAM > OAM Mode
Syntax	:SOURce:DATA:TELecom:LOAM:MODE?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Return the OAM Mode.
	ACTIVE: Activate Active Mode.
	PASSIVE: Activate Passive Mode.
Example(s)	SOUR:DATA:TEL:LOAM:MODE?
See Also	SOURce:DATA:TELecom:TSCan:LEVel:TYPE?

:SOURce:DATA:TELecom:LOAM:PDU:DESTination:MAC

Description	This command allows configuration of OAM PDU Destination MAC Address.
	At *RST, this value is set to 01:80:C2:00:00:02.
	Navigation Path: Setup > Test Configurator > Link OAM > OAMPDU Destination MAC Address
Syntax	:SOURce:DATA:TELecom:LOAM:PDU:DESTination:MAC <wsp><MAC Address>
Parameter(s)	**MAC Address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Set the MAC Address.
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:LOAM:PDU:DEST:MAC 00:03:01:00:00:04
See Also	SOURce:DATA:TELecom:TSCan:LEVel:TYPE

:SOURce:DATA:TELecom:LOAM:PDU:DESTination:MAC:ENABle

Description	This command allows configuration of Default MAC Button.
	At *RST, this value is set to Check Enable.
	Navigation Path: Setup > Test Configurator > Link OAM > Default
Syntax	:SOURce:DATA:TELecom:LOAM:PDU:DESTination:MAC:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:LOAM:PDU:DEST:MAC:ENABle ON
See Also	SOURce:DATA:TELecom:TSCan:SCAN:ENABle

:SOURce:DATA:TELecom:LOAM:PDU:DESTination:MAC:ENABle?

Description	This query returns the status of Default MAC Button.
	At *RST, this value is set to Enable.
	Navigation Path: Setup > Test Configurator > Link OAM > Default
Syntax	:SOURce:DATA:TELecom:LOAM:PDU:DESTination:MAC:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:LOAM:PDU:DEST:MAC:ENAB?
See Also	SOURce:DATA:TELecom:TSCan:SCAN:ENABle?

:SOURce:DATA:TELecom:LOAM:PDU:DESTination:MAC?

Description	This query returns the OAMPDU Destination MAC Address.
	At *RST, this value is set to 01:80:C2:00:00:02.
	Navigation Path: Setup > Test Configurator > Link OAM > OAMPDU Destination MAC Address
Syntax	:SOURce:DATA:TELecom:LOAM:PDU:DESTination:MAC?
Response Syntax	<MAC Address>
Response(s)	**MAC Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns OAM PDU Dest MAC Address.
Example(s)	SOUR:DATA:TEL:LOAM:PDU:DEST:MAC?
See Also	SOURce:DATA:TELecom:TSCan:LEVel:TYPE?

:SOURce:DATA:TELecom:LOAM:VERDict:ALARm:ENABle

Description	This command allows configuration of Remote Alarms Checkbox.
	At *RST, this value is set to Enable.
	Navigation Path: Setup > Test Configurator > Link OAM > Pass/Fail Verdict > Remote Alarms
Syntax	:SOURce:DATA:TELecom:LOAM:VERDict:ALARm:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<MAC Address>
Example(s)	SOUR:DATA:TEL:LOAM:VERD:ALAR:ENAB OFF
See Also	SOURce:DATA:TELecom:TSCan:SCAN:ENABle

:SOURce:DATA:TELecom:LOAM:VERDict:ALARm:ENABle?

Description	This query returns the status of Remote Alarms checkbox. At *RST, this value is set to Enable. Navigation Path: Setup > Test Configurator > Link OAM > Pass/Fail Verdict > Remote Alarms
Syntax	:SOURce:DATA:TELecom:LOAM:VERDict:ALARm:ENABle?
Response Syntax	<Status>
Response(s)	**Status**: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:LOAM:VERD:ALAR:ENAB?
See Also	SOURce:DATA:TELecom:TSCan:SCAN:ENABle?

:SOURce:DATA:TELecom:LOAM:VERDict:ENABle

Description	This command allows configuration of Pass/Fail Verdict checkbox.
	At *RST, this value is set to Enable.
	Navigation Path: Setup > Test Configurator > Link OAM > Pass/Fail Verdict
Syntax	:SOURce:DATA:TELecom:LOAM:VERDict:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:LOAM:VERD:ENAB 1
See Also	SOURce:DATA:TELecom:TSCan:SCAN:ENABle

:SOURce:DATA:TELecom:LOAM:VERDict:ENABle?

Description	This query returns the Pass/Fail Verdict.
	At *RST, this value is set to Enable.
	Navigation Path: Setup > Test Configurator > Link OAM > Pass/Fail Verdict
Syntax	:SOURce:DATA:TELecom:LOAM:VERDict:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:LOAM:VERD:ENAB?
See Also	SOURce:DATA:TELecom:TSCan:SCAN:ENABle?

:SOURce:DATA:TELecom:LOAM:VERDict:LBACk:ENABle

Description	This command allows configuration of Remote Loopback checkbox. At *RST, this value is set to Enable. Navigation Path: Setup > Test Configurator > Link OAM > Pass/Fail Verdict > Remote Loopback
Syntax	:SOURce:DATA:TELecom:LOAM:VERDict:LBACk:ENABle <wsp><Status>
Parameter(s)	**Status**: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables: ON: Enables OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:LOAM:VERD:LBAC:ENAB ON
See Also	SOURce:DATA:TELecom:TSCan:SCAN:ENABle

:SOURce:DATA:TELecom:LOAM:VERDict:LBACk:ENABle?

Description	This query returns the Remote Loopback status.
	At *RST, this value is set to Enable.
	Navigation Path: Setup > Test Configurator > Link OAM > Pass/Fail Verdict > Remote Loopback
Syntax	:SOURce:DATA:TELecom:LOAM:VERDict:LBACk:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:LOAM:VERD:LBAC:ENAB?
See Also	SOURce:DATA:TELecom:TSCan:SCAN:ENABle?

Modify Trib Slots/Channels (Multi-Channel OTN)

:SOURce:DATA:TELecom:OTN:FRAMing:MIX

Description	This command sets ODUx and Port Id for both direction to the user specified values and reset assignation of TributarySlot.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: OTN BERT Test > Test > Setup > OTU (4 lanes) > ODU Channels> Modify Tributary Slots/Channels
Syntax	:SOURce:DATA:TELecom:OTN:FRAMing:MIX <wsp><OduType>, <List of ODUx, PortId>
Parameter(s)	**OduType**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Selects the Parent ODU type value.
	Example: Type ODU4 when mapping is ODU4/ODU0 and we want to configure ODU0 Tributaries (Slot Id/Port Id)
	List of ODUx, PortId:
	The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
	List of (ODUx, PortId, ...)
Response Syntax	<Page Select>
Example(s)	SOUR:DATA:TEL:OTN:FRAM:MIX ODU4,(ODU0,1,ODU1,2,ODU2,5)SOUR:DATA:TEL:OTN:FRAM:MIX? ODU4
	(ODU0,1,ODU1,2,ODU2,5)
See Also	SOURce:DATA:TELecom:OTN:TRIButaries
	SOURce:DATA:TELecom:OTN:TRIButaries:COUPled
	SOURce:DATA:TELecom:OTN:TRIButaries:COUPled?
	SOURce:DATA:TELecom:OTN:TRIButaries:DEFAult
	SOURce:DATA:TELecom:OTN:TRIButaries:COPY
	SOURce:DATA:TELecom:OTN:TRIButaries?

:SOURce:DATA:TELecom:OTN:FRAMing:MIX?

Description	This command Gets ODUx and Port Id list.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: OTN BERT Test > Test > Setup > OTU (4 lanes) > ODU Channels> Modify Tributary Slots/Channels
Syntax	:SOURce:DATA:TELecom:OTN:FRAMing:MIX? <wsp><OduType>
Parameter(s)	**OduType**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Selects the Parent ODU type value.
	Example: Type ODU4 when mapping is ODU4/ODUk.
Response Syntax	<ODU Type>
Response(s)	**ODU Type**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Return the ODU type of each channel
Example(s)	SOUR:DATA:TEL:OTN:FRAM:MIX ODU4,(ODU0,1,ODU1,2,ODU2,5)SOUR:DATA:TEL:OTN:FRAM:MIX? ODU4
	(ODU0,1,ODU1,2,ODU2,5)
See Also	SOURce:DATA:TELecom:OTN:FRAM:MI
	SOURce:DATA:TELecom:OTN:TRIButaries:COUPled
	SOURce:DATA:TELecom:OTN:TRIButaries:COUPled?
	SOURce:DATA:TELecom:OTN:TRIButaries:DEFAult
	SOURce:DATA:TELecom:OTN:TRIButaries:COPY
	SOURce:DATA:TELecom:OTN:TRIButaries?

:SOURce:DATA:TELecom:OTN:TRIButaries

Description	This command sets ODUx Tributaries configuration (Port Id/ Slot Id Associations) for the given direction to the user specified values
	N.B. Partial list of ODUx Tributary configuration is allowed and will be auto-completed by assigning free increasing tributary slot id to free increasing tributary port id.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: OTN BERT Test > Test > Setup > OTU (4 lanes) > ODU Channels(ODUx) > Modify Tributary Slots/Channels
Syntax	:SOURce:DATA:TELecom:OTN:TRIButaries <wsp><OduType>, <Direction>, <Tributary>
Parameter(s)	**OduType**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Selects the Parent ODU type value.
	Example: Type ODU4 when mapping is ODU4/ODU0 and we want to configure ODU0 Tributaries (Slot Id/Port Id)
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the channel direction to apply the tributaries configuration
	TX: TX valid only when the Coupled Status is OFF, invalid otherwise
	RX: RX valid only when the Coupled Status is OFF, invalid otherwise
	RXANDTX: RXANDTX valid only when the Coupled Status is ON, invalid otherwise
	Tributary:
	The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element.
	List of ODUx Tributary Configuration

:SOURce:DATA:TELecom:OTN:TRIButaries

Response Syntax	<ODU Type>
Example(s)	SOUR:DATA:TEL:OTN:TRIB ODU4,rxandtx,(ODU2,1,(80,79,78,77,76,75,74,73),ODU2,10,(33:34,35,36,37:40)) when SOUR:DATA:TEL:OTN:TRIB:COUP? = 1
	SOUR:DATA:TEL:OTN:TRIB ODU4,rx,(ODU2,1,(80,79,78,77,76,75,74,73),ODU2,10,(33,34,35,36:37,38,39,40)) when SOUR:DATA:TEL:OTN:TRIB:COUP? = 0
	SOUR:DATA:TEL:OTN:TRIB ODU4,tx,(ODU2,1,(80,79,78:73),ODU2,10,(33,34,35,36,37,38,39,40)) when SOUR:DATA:TEL:OTN:TRIB:COUP? = 0
See Also	SOURce:DATA:TELecom:OTN:TRIButaries?
	SOURce:DATA:TELecom:OTN:TRIButaries:COUPled
	SOURce:DATA:TELecom:OTN:TRIButaries:COUPled?
	SOURce:DATA:TELecom:OTN:TRIButaries:DEFAult
	SOURce:DATA:TELecom:OTN:TRIButaries:COPY

:SOURce:DATA:TELecom:OTN:TRIButaries:COPYrx

Description	Copy the received ODUx Tributaries configuration (Port Id/ Slot Id Associations) into the RX ODUx Tributaries configuration (Port Id/ Slot Id Associations)
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: OTN BERT Test > Test > Setup > OTU (4 lanes) > ODU Channels(ODUx) > Modify Tributary Slots/Channels
Syntax	:SOURce:DATA:TELecom:OTN:TRIButaries:COPYrx
Response Syntax	<ODU Type>
Example(s)	SOUR:DATA:TEL:OTN:TRIB:COPY
See Also	SOURce:DATA:TELecom:OTN:TRIButaries?
	SOURce:DATA:TELecom:OTN:TRIButaries:COUPled
	SOURce:DATA:TELecom:OTN:TRIButaries:COUPled?

:SOURce:DATA:TELecom:OTN:TRIButaries:COUPled

Description	This command sets the Coupled Status for the ODUx Tributaries Configuration
	At *RST condition, this value is set to ON.
	Navigation Path: OTN BERT Test > Test > Setup > OTU (4 lanes) > ODU Channels(ODUx) > Modify Tributary Slots/Channels
Syntax	:SOURce:DATA:TELecom:OTN:TRIButaries:COUPled <wsp><Status>,[<Direction>]
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the source to destination direction to copy the tributaries configuration
	TXTORX valid only when the Coupled Status is ON, will copy the TX tributaries configurarion over the RX tributaries configurarion.
	RXTOTX valid only when the Coupled Status is ON, will copy the RX tributaries configurarion over the TX tributaries configurarion.
	Invalid when the Coupled Status is OFF
Response Syntax	<ODU Type>
Example(s)	SOUR:DATA:TEL:OTN:TRIB:COUP ON, TXTORX
	SOUR:DATA:TEL:OTN:TRIB:COUP ON, RXTOTX
	SOUR:DATA:TEL:OTN:TRIB:COUP OFF
See Also	SOURce:DATA:TELecom:OTN:TRIButaries:COUPled?
	SOURce:DATA:TELecom:OTN:TRIButaries
	SOURce:DATA:TELecom:OTN:TRIButaries?
	SOURce:DATA:TELecom:OTN:TRIButaries:DEFAult

:SOURce:DATA:TELecom:OTN:TRIButaries:COUPled?

Description	This query returns the Coupled Status for the ODUx Tributaries Configuration
	At *RST condition, this value is set to ON.
	Navigation Path: OTN BERT Test > Test > Setup > OTU (4 lanes) > ODU Channels(ODUx) > Modify Tributary Slots/Channels
Syntax	:SOURce:DATA:TELecom:OTN:TRIButaries:COUPled?
Response Syntax	<Coupled Status>
Response(s)	**Coupled Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the slot status, whether it is selected or not.
	1, returns the slot value as ON.
	0, returns the slot value as OFF.
Example(s)	SOUR:DATA:TEL:OTN:TRIB:COUP?
See Also	SOURce:DATA:TELecom:OTN:TRIButaries:COUPled
	SOURce:DATA:TELecom:OTN:TRIButaries
	SOURce:DATA:TELecom:OTN:TRIButaries?
	SOURce:DATA:TELecom:OTN:TRIButaries:DEFAult

:SOURce:DATA:TELecom:OTN:TRIButaries:DEFAult

Description	This command sets ODUx Tributaries configuration (Port Id/ Slot Id Associations) for the given direction to the default values
	N.B. Default ODUx Tributary configuration is a group of increasing tributary slot id assigned to increasing tributary port id.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: OTN BERT Test > Test > Setup > OTU (4 lanes) > ODU Channels(ODUx) > Modify Tributary Slots/Channels
Syntax	:SOURce:DATA:TELecom:OTN:TRIButaries:DEFAult <wsp><OduType>, <Direction>
Parameter(s)	**OduType**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Selects the Parent ODU type value.
	Example: Type ODU4 when mapping is ODU4/ODU0 and we want to configure ODU0 Tributaries (Slot Id/Port Id)
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the channel direction to apply the tributaries configuration
	TX: TX valid only when the Coupled Status is OFF, invalid otherwise
	RX: RX valid only when the Coupled Status is OFF, invalid otherwise
	RXANDTX: RXANDTX valid only when the Coupled Status is ON, invalid otherwise
Response Syntax	<Coupled Status>
Example(s)	SOUR:DATA:TEL:OTN:TRIB:DEFA RXANDTX when SOUR:DATA:TEL:OTN:TRIB:COUP? = 1
	SOUR:DATA:TEL:OTN:TRIB:DEFA RX when SOUR:DATA:TEL:OTN:TRIB:COUP? = 0
	SOUR:DATA:TEL:OTN:TRIB:DEFA TXwhen SOUR:DATA:TEL:OTN:TRIB:COUP? = 0
See Also	SOURce:DATA:TELecom:OTN:TRIButaries?
	SOURce:DATA:TELecom:OTN:TRIButaries:COUPled
	SOURce:DATA:TELecom:OTN:TRIButaries:COUPled?

:SOURce:DATA:TELecom:OTN:TRIButaries?

Description	This query returns the complete list of ODUx Tributaries configuration (Port Id/ Slot Id Associations) for the given direction
	At *RST condition, this value is set to device-dependent.
	Navigation Path: OTN BERT Test > Test > Setup > OTU (4 lanes) > ODU Channels(ODUx) > Modify Tributary Slots/Channels
Syntax	:SOURce:DATA:TELecom:OTN:TRIButaries? <wsp><OduType>, <Direction>
Parameter(s)	**OduType**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Selects the Parent ODU type value.
	Example: Type ODU4 when mapping is ODU4/ODU0 and we want to configure ODU0 Tributaries (Slot Id/Port Id)
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the channel direction to apply the tributaries configuration
	TX: TX valid only when the Coupled Status is OFF, invalid otherwise
	RX: RX valid only when the Coupled Status is OFF, invalid otherwise
	RXANDTX: RXANDTX valid only when the Coupled Status is ON, invalid otherwise
Response Syntax	<List of ODUx Tributary Configuration>

:SOURce:DATA:TELecom:OTN:TRIButaries?

Response(s)	**List of ODUx Tributary Configuration**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns all ODUx Tributary configuration for specified parent ODU type.
	Ex: Using multi-channel test application with ODU4/ODU2 mapping and after configuring the tributaries at default the command TRIB? returns (ODU2,1,(1,2,3,4,5,6,7,8),ODU2,2,(9,10,11,12,13,14,15,16),ODU2,3,(17,18,19,20,21,22,23,24),ODU2,4,(25,26,27,28,29,30,31,32),ODU2,5,(33,34,35,36,37,38,39,40),ODU2,6,(41,42,43,44,45,46,47,48),ODU2,7,(49,50,51,52,53,54,55,56),ODU2,8,(57,58,59,60,61,62,63,64),ODU2,9,(65,66,67,68,69,70,71,72),ODU2,10,(73,74,75,76,77,78,79,80))
Example(s)	SOUR:DATA:TEL:OTN:TRIB? ODU4,rxandtx when SOUR:DATA:TEL:OTN:TRIB:COUP? = 1
	SOUR:DATA:TEL:OTN:TRIB? ODU4,tx when SOUR:DATA:TEL:OTN:TRIB:COUP? = 0
	SOUR:DATA:TEL:OTN:TRIB? ODU4,rx when SOUR:DATA:TEL:OTN:TRIB:COUP? = 0
See Also	SOURce:DATA:TELecom:OTN:TRIButaries
	SOURce:DATA:TELecom:OTN:TRIButaries:COUPled
	SOURce:DATA:TELecom:OTN:TRIButaries:COUPled?
	SOURce:DATA:TELecom:OTN:TRIButaries:DEFAult
	SOURce:DATA:TELecom:OTN:TRIButaries:COPY

Optical Device Under Test (iOptics)

:SOURce:DATA:TELecom:IOPTics:ADAPter:QSFP:SFP:ENABle

Description	This command enables/disables Bidirectional transceiver.
	At *RST condition, this value set to OFF.
	Navigation Path: Setup > Test Configurator > Device Under Test > Use with QSFP28 to SFP28 Adapter
Syntax	:SOURce:DATA:TELecom:IOPTics:ADAPter:QSFP:SFP:ENABle <wsp><Value>
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/Disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Type>
Example(s)	SOURCE:DATA:TEL:IOPT:ADAP:QSFP:SFP:ENAB ON
	SOURCE:DATA:TEL:IOPT:ADAP:QSFP:SFP:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:FUNCtion:TX:ENABle

:SOURce:DATA:TELecom:IOPTics:ADAPter:QSFP:SFP:ENABle?

Description	This query returns enables/disables status for Bidirectional transceiver.
	At *RST condition, this value is OFF.
	Navigation Path: Setup > Test Configurator > Device Under Test > Use with QSFP28 to SFP28 Adapter
Syntax	:SOURce:DATA:TELecom:IOPTics:ADAPter:QSFP:SFP:ENABle?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status.
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:IOPT:ADAP:QSFP:SFP:ENAB ON
	SOUR:DATA:TEL:IOPT:ADAP:QSFP:SFP:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:FUNCtion:TX:ENAble

:SOURce:DATA:TELecom:IOPTics:BDIRectional

Description	This command enables/disables Bidirectional transceiver.
	At *RST condition, this value set to OFF.
	Navigation Path: Setup > Test Configurator > Device Under Test > Bidirectional
Syntax	:SOURce:DATA:TELecom:IOPTics:BDIRectional <wsp><Value>
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/Disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Value>
Example(s)	SOURCE:DATA:TEL:IOPT:BDIR ON
	SOURCE:DATA:TEL:IOPT:BDIR?
	Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:FUNCtion:TX:ENAble

:SOURce:DATA:TELecom:IOPTics:BDIRectional?

Description	This query returns enables/disables status for Bidirectional transceiver.
	At *RST condition, this value is OFF.
	Navigation Path: Setup > Test Configurator > Device Under Test > Bidirectional
Syntax	:SOURce:DATA:TELecom:IOPTics:BDIRectional?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status.
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:IOPT:BDIR ON
	SOUR:DATA:TEL:IOPT:BDIR?
	Returns: 1
See Also	SOURce:DATA:TELecom:SOAM:FUNCtion:TX:ENAble

:SOURce:DATA:TELecom:IOPTics:LOOPback:PORT?

Description	This query return the iOptics Loopback Port.
	At *RST condition, this value set to device-dependent.
	Navigation Path: Setup > Test Configurator > Optical Device Under Test.
Syntax	:SOURce:DATA:TELecom:IOPTics:LOOPback:PORT?
Response Syntax	<Loopback Port Id>
Response(s)	**Loopback Port Id**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the iOptics Loopback Port.
Example(s)	SOUR:DATA:TEL:IOPT:LOOP:PORT?
See Also	SOUR:DATA:TEL:ETH:PORT:TRAN?

:SOURce:DATA:TELecom:IOPTics:LTYPe

Description	This command sets the host or media loopback type for iOptics Application.
	At *RST condition, this value is None.
	Navigation Path: Setup > Test Configurator > Optical Device Under Test > Host/Media Loopback
Syntax	:SOURce:DATA:TELecom:IOPTics:LTYPe <wsp><Loopback>
Parameter(s)	**Loopback**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	NONE: No loopback
	HOST_SIDE_INPUT: Host side input loopback
	MEDIA_SIDE_OUTPUT: Media side output loopback
Response Syntax	<Loopback Port Id>
Example(s)	SOUR:DATA:TEL:IOPT:LTYP NONE
See Also	SOURce:DATA:TELecom:IOPTics:RATE

:SOURce:DATA:TELecom:IOPTics:LTYPe?

Description	This query returns the host or media loopback type for iOptics Application.
	At *RST condition, this value is None.
	Navigation Path: Setup > Test Configurator > Optical Device Under Test > Host/Media Loopback
Syntax	:SOURce:DATA:TELecom:IOPTics:LTYPe?
Response Syntax	<Loopback>
Response(s)	**Loopback**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the host or media loopback type
	NONE: No loopback
	HOST_SIDE_INPUT: Host side input loopback
	MEDIA_SIDE_OUTPUT: Media side output loopback
Example(s)	SOUR:DATA:TEL:IOPT:LTYP NONE
	SOUR:DATA:TEL:IOPT:LTYP?
	Returns: NONE
See Also	SOURce:DATA:TELecom:IOPTics:RATE?

:SOURce:DATA:TELecom:IOPTics:RATE

Description	This command configures the interface rate for iOptics Application.
	At *RST condition, this value is device dependant.
	Navigation Path: Setup > Test Configurator > Optical Device Under Test > Rate
Syntax	:SOURce:DATA:TELecom:IOPTics:RATE <wsp><Rate>
Parameter(s)	**Rate:**
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the interface rate.
	100MOPTICAL, 1GEOPTICAL, 10GELAN, 10GEWAN: respectively 100M Optical, 1GE Optical, 10GE LAN, 10GE WAN
	1X, 2X, 4X, 8X, 10X, 16X, 32X: respectively Fibre Channel 1X, 2X, 4X, 8X, 10X, 16X, 32X
	CPRI12G, CPRI24G, CPRI31G, CPRI49G, CPRI61G, CPRI98G, CPRI101G: respectively CPRI 1.2G, 2.4G, 3.1G, 4.9G, 6.1G, 9.8G, 10.1G
	OTU3: OTU3 (4 Lanes) [43.018 Gbit/s]
	OTU4: OTU4 (4 Lanes) [111.81 Gbit/s]
	25GE: 25GE
	40GE: 40GE (4 lanes) [41.25 Gbit/s]
	100GE: 100GE (4 lanes) [103.125 Gbit/s]
	200GE: 200GE (4 lanes) [212.5 Gbit/s]
	OBSAI15G, OBSAI31G, OBSAI61G: respectively OBSAI 1.5G, 3.1G, 6.1G
	OC1, OC3, OC12, OC48, OC192: respectively OC-1, OC-3, OC-12, OC-48, OC-192
	OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F: respectively OTU1, OTU1e, OTU1f, OTU2, OTU2e, OTU2f
	OTU3E1: OTU3e1 (4 Lanes) [44.571 Gbit/s]
	OTU3E2: OTU3e2 (4 Lanes) [44.583 Gbit/s]
	400GE: 400GE (8 lanes) [425 Gbit/s]
Response Syntax	<Loopback>
Example(s)	SOUR:DATA:TEL:IOPT:RATE 1GEOPTICAL
	SOUR:DATA:TEL:IOPT:RATE?
	Returns: 1GEOPTICAL
See Also	SOURce:DATA:TELecom:ITYPe

:SOURce:DATA:TELecom:IOPTics:RATE?

Description	This query returns the interface rate for iOptics Application.
	At *RST condition, this value is device dependant.
	Navigation Path: Setup > Test Configurator > Optical Device Under Test > Rate
Syntax	:SOURce:DATA:TELecom:IOPTics:RATE?
Response Syntax	<Rate>
Response(s)	Rate:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the interface rate.
	100MOPTICAL, 1GEOPTICAL, 10GELAN, 10GEWAN: respectively 100M Optical, 1GE Optical, 10GE LAN, 10GE WAN
	1X, 2X, 4X, 8X, 10X, 16X, 32X: respectively Fibre Channel 1X, 2X, 4X, 8X, 10X, 16X, 32X
	CPRI12G, CPRI24G, CPRI31G, CPRI49G, CPRI61G, CPRI98G, CPRI101G: respectively CPRI 1.2G, 2.4G, 3.1G, 4.9G, 6.1G, 9.8G, 10.1G
	OTU3: OTU3 (4 Lanes) [43.018 Gbit/s]
	OTU4: OTU4 (4 Lanes) [111.81 Gbit/s]
	25GE: 25GE
	40GE: 40GE (4 lanes) [41.25 Gbit/s]
	100GE: 100GE (4 lanes) [103.125 Gbit/s]
	200GE: 200GE (4 lanes) [212.5 Gbit/s]
	OBSAI15G, OBSAI31G, OBSAI61G: respectively OBSAI 1.5G, 3.1G, 6.1G
	OC1, OC3, OC12, OC48, OC192: respectively OC-1, OC-3, OC-12, OC-48, OC-192
	OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F: respectively OTU1, OTU1e, OTU1f, OTU2, OTU2e, OTU2f
	OTU3E1: OTU3e1 (4 Lanes) [44.571 Gbit/s]
	OTU3E2: OTU3e2 (4 Lanes) [44.583 Gbit/s]
	400GE: 400GE (8 lanes) [425 Gbit/s]
Example(s)	SOUR:DATA:TEL:IOPT:RATE 1X
	SOUR:DATA:TEL:IOPT:RATE?
	Returns: 1X
See Also	SOURce:DATA:TELecom:ITYPe?

Test Sequence (iOptics)

:FETCh:DATA:TELecom:IOPTics:POWer:RX:RANGe?

Description	This query returns the RX Power Range for iOptics Application.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Test Sequence > RX Power Range (dBm)
Syntax	:FETCh:DATA:TELecom:IOPTics:POWer:RX:RANGe? <wsp><Range>
Parameter(s)	**Range**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the RX Power Range to return.
	RMAXimum: Selects the Minimum range.
	RMINimum: Selects the Maximum range.
Response Syntax	<Power>
Response(s)	**Power**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Selects the Power Value.
Example(s)	FETC:DATA:TEL:IOPT:POW:RX:RANG? RMAX
See Also	FETCh:DATA:TELecom:CPRI:SUMMary:RX:COUNter?

:FETCh:DATA:TELecom:IOPTics:POWer:TX:RANGe?

Description	This query returns the TX Power Range for iOptics Application.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Test Sequence > TX Power Range (dBm)
Syntax	:FETCh:DATA:TELecom:IOPTics:POWer:TX:RANGe? <wsp><Range>
Parameter(s)	**Range**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the TX Power Range to return.
	RMAXimum: Selects the Minimum range.
	RMINimum: Selects the Maximum range.
Response Syntax	<Power>
Response(s)	**Power**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Selects the Power Value.
Example(s)	FETC:DATA:TEL:IOPT:POW:TX:RANG? RMAX
See Also	FETCH:DATA:TELecom:CPRI:SUMMary:RX:COUNter?

:SOURce:DATA:TELecom:IOPTics:BERT:DURation

Description	This command allows to select the BERT test duration for iOptics Application.
	At *RST condition, this value is set to 1 minutes.
	Navigation Path: Setup > Test Configurator > Test Sequence > BERT Duration
Syntax	:SOURce:DATA:TELecom:IOPTics:BERT:DURation <wsp><TIME>
Parameter(s)	**TIME**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the test duration.
	1M: 1 Minute
	2M: 2 Minutes
	3M: 3 Minutes
	4M: 4 Minutes
	5M: 5 Minutes
	30M: 30 Minutes
Response Syntax	<Power>
Example(s)	SOUR:DATA:TEL:IOPT:BERT:DUR 5M
	SOUR:DATA:TEL:IOPT:BERT:DUR?
	Returns: 5M
See Also	SOURce:DATA:TELecom:TIMer:DURation

:SOURce:DATA:TELecom:IOPTics:BERT:DURation?

Description	This query returns the BERT test duration for iOptics Application.
	At *RST condition, this value is set to 1 minutes.
	Navigation Path: Setup > Test Configurator > Test Sequence > BERT Duration
Syntax	:SOURce:DATA:TELecom:IOPTics:BERT:DURation?
Response Syntax	<TIME>
Response(s)	**TIME**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the BERT duration.
	1M, 1 Minute.
	2M, 2 Minutes.
	3M, 3 Minutes.
	4M, 4 Minutes.
	5M, 5 Minutes.
	30M, 30 Minutes.
Example(s)	SOUR:DATA:TEL:IOPT:BERT:DUR 5M
	SOUR:DATA:TEL:IOPT:BERT:DUR?
	Returns: 5M
See Also	SOURce:DATA:TELecom:TIMer:DURation?

:SOURce:DATA:TELecom:IOPTics:BERT:THReshold?

Description	This query returns the BERT Threshold for iOptics Application.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > Test Configurator > Test Sequence > BERT Threshold
Syntax	:SOURce:DATA:TELecom:IOPTics:BERT:THReshold?
Response Syntax	<Threshold>
Response(s)	**Threshold**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the BERT Threshold.
Example(s)	SOUR:DATA:TEL:IOPT:BERT:THR?
	Returns: 5
See Also	SOURce:DATA:TELecom:CABLetest:LENGth:THReshold?

:SOURce:DATA:TELecom:IOPTics:CPCHeck

Description	This command enables/disables the control pin check status for iOptics application.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > Test Sequence > Control Pin Check
Syntax	:SOURce:DATA:TELecom:IOPTics:CPCHeck <wsp><Control Pin Check>
Parameter(s)	**Control Pin Check**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Threshold>
Example(s)	SOUR:DATA:TEL:IOPT:CPCH ON
	SOUR:DATA:TEL:IOPT:CPCH?
	Returns: 1
See Also	SOURce:DATA:TELecom:IOPTics:CPCHeck?

:SOURce:DATA:TELecom:IOPTics:CPCHeck?

Description	This Query returns the enable/disable control pin check status for iOptics Test.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > Test Sequence > Control Pin Check
Syntax	:SOURce:DATA:TELecom:IOPTics:CPCHeck?
Response Syntax	<Control Pin Check>
Response(s)	**Control Pin Check**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable control pin check status.
	1: Enabled.
	0: Disabled.
Example(s)	SOUR:DATA:TEL:IOPT:CPCH ON
	SOUR:DATA:TEL:IOPT:CPCH?
	Returns: 1
See Also	SOURce:DATA:TELecom:IOPTics:CPCHeck

:SOURce:DATA:TELecom:IOPTics:POWer:THReshold:VERDict

Description	This command enables/disables the power threshold verdict for iOptics application.
	At *RST condition, this value is set to Enabled.
	Navigation Path: Setup > Test Configurator > Test Sequence > Power Threshold (W)
Syntax	:SOURce:DATA:TELecom:IOPTics:POWer:THReshold:VERDict <wsp><Verdict>
Parameter(s)	**Verdict**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Control Pin Check>
Example(s)	SOUR:DATA:TEL:IOPT:POW:THR:VERD ON
	SOUR:DATA:TEL:IOPT:POW:THR:VERD?
	Returns: 1
See Also	SOURce:DATA:TELecom:CPRI:VERDict:ENABle

:SOURce:DATA:TELecom:IOPTics:POWer:THReshold:VERDict?

Description	This Query returns enable/disable verdict status for iOptics Test.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > Test Sequence > Pass/Fail Verdict
Syntax	:SOURce:DATA:TELecom:IOPTics:POWer:THReshold:VERDict?
Response Syntax	<STATUS>
Response(s)	**STATUS**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable verdict status.
	1: Enabled.
	0: Disabled.
Example(s)	SOUR:DATA:TEL:IOPT:POW:THR:VERD ON
	SOUR:DATA:TEL:IOPT:POW:THR:VERD?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:VERDict?

:SOURce:DATA:TELecom:IOPTics:POWer:THReshold?

Description	This query returns the power threshold value for iOptics application.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > Test Configurator > Test Sequence > Power Threshold (W)
Syntax	:SOURce:DATA:TELecom:IOPTics:POWer:THReshold?
Response Syntax	<Threshold>
Response(s)	**Threshold**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns Power Threshold value.
Example(s)	SOUR:DATA:TEL:IOPT:POW:THR?
	Returns: 10
See Also	SOURce:DATA:TELecom:OTN:OTL:THReshold?

:SOURce:DATA:TELecom:IOPTics:SKEW:THReshold?

Description	This query returns the SKEW Threshold for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Setup > Test Configurator > Test Sequence > SKEW Threshold
Syntax	:SOURce:DATA:TELecom:IOPTics:SKEW:THReshold?
Response Syntax	<Threshold>
Response(s)	**Threshold**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the SKEW Threshold.
Example(s)	SOUR:DATA:TEL:IOPT:SKEW:THR?
	Returns: 5
See Also	SOURce:DATA:TELecom:IOPTics:BERT:THReshold?

:SOURce:DATA:TELecom:IOPTics:TEMPerature:THReshold

Description	This command configure the temperature Threshold for iOptics Application.
	At *RST condition, this value is set to 70.
	Navigation Path: Setup > Test Configurator > Test Sequence > Temp. Threshold (C)
Syntax	:SOURce:DATA:TELecom:IOPTics:TEMPerature:THReshold <wsp><Temperature>
Parameter(s)	**Temperature**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Temperature Threshold.
	Choices are 0 to 75
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Threshold>
Example(s)	SOUR:DATA:TEL:IOPT:TEMP:THR 50
	SOUR:DATA:TEL:IOPT:TEMP:THR?
	Returns: 50
See Also	SENSe:DATA:TELecom:PATTern:THReshold:COUNt

:SOURce:DATA:TELecom:IOPTics:TEMPerature:THReshold?

Description	This query returns the Temperature Threshold for iOptics Application.
	At *RST condition, this value is set to 70.
	Navigation Path: Setup > Test Configurator > Test Sequence > Temp. Threshold (C)
Syntax	:SOURce:DATA:TELecom:IOPTics:TEMPerature:THReshold?[<wsp><Temperature>]
Parameter(s)	**Temperature**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current temperature is returned.
	MAXimum: Biggest value
	MINimum: Smallest value
Response Syntax	<Temperature>
Response(s)	**Temperature**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Temperature Threshold.
Example(s)	SOUR:DATA:TEL:IOPT:TEMP:THR?
	Returns: 50
See Also	SENSe:DATA:TELecom:PATTern:THReshold:COUNt?

FlexE Group

:FETCh:DATA:TELecom:FETHernet:GROup:CalendarMISmatch?

Description	This query returns the live status of FlexE Calendar Mismatch. Navigation Path: Setup > Test Configurator > FlexE Group > Calendar Mismatch
Syntax	:FETCh:DATA:TELecom:FETHernet:GROup:CalendarMISmatch?
Response Syntax	<Calendar Mismatch>
Response(s)	**Calendar Mismatch:** The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns FlexE Calendar Mismatch live status.
Example(s)	FETCh:DATA:TEL:FETH:GRO:CMIS?

:FETCh:DATA:TELecom:FETHernet:GROup:STATus?

Description	This query returns the status of FlexE Group
	Navigation Path: Setup > Test Configurator > FlexE Group > FlexE Status
Syntax	:FETCh:DATA:TELecom:FETHernet:GROup:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns FlexE Group Status
Example(s)	FETCh:DATA:TEL:FETH:GRO:STAT?

:SOURce:DATA:TELecom:FETHernet:GROup:CALendar

Description	This command selects the FlexE Calendar.
	At *RST condition, this value is set to CALENDARA.
	Navigation Path: Setup > Test Configurator > FlexE Group > Calendar
Syntax	:SOURce:DATA:TELecom:FETHernet:GROup:CALendar <wsp><Calendar In Use>
Parameter(s)	**Calendar In Use**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the FlexE Calendar
	CALENDARA: Calendar A
	CALENDARB: Calendar B
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:GRO:CAL CALENDARB
	SOUR:DATA:TEL:FETH:GRO:CAL?
	Returns: CALENDARB
See Also	SOURce:DATA:TELecom:FETHernet:GROup:CALendar?

:SOURce:DATA:TELecom:FETHernet:GROup:CALendar:GRANularity

Description	This command selects the FlexE Calendar Granularity. At *RST condition, this value is set to 5G. Navigation Path: Setup > Test Configurator > FlexE Group > Calendar Granularity
Syntax	:SOURce:DATA:TELecom:FETHernet:GROup:CALendar:GRANularity <wsp><Calendar Granularity>
Parameter(s)	**Calendar Granularity**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the FlexE Calendar granularity 5G 25G
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:GRO:CAL:GRAN 5G SOUR:DATA:TEL:FETH:GRO:CAL:GRAN? Returns: 5G
See Also	SOURce:DATA:TELecom:FETHernet:GROup:CALendar

:SOURce:DATA:TELecom:FETHernet:GROup:CALendar:GRANularity?

Description	This query returns the FlexE Calendar Granularity.
	At *RST condition, this value is set to 5G.
	Navigation Path: Setup > Test Configurator > FlexE Group > Calendar Granularity
Syntax	:SOURce:DATA:TELecom:FETHernet:GROup:CALendar:GRANularity?
Response Syntax	\<Calendar Granularity\>
Response(s)	**Calendar Granularity**:
	The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA\> element.
	Returns the FlexE Calendar granularity
	5G
	25G
Example(s)	SOUR:DATA:TEL:FETH:GRO:CAL:GRAN 25G
	SOUR:DATA:TEL:FETH:GRO:CAL:GRAN?
	Returns: 25G
See Also	SOURce:DATA:TELecom:FETHernet:GROup:CALendar?

:SOURce:DATA:TELecom:FETHernet:GROup:CALendar?

Description	This query returns the FlexE Calendar currently in use.
	At *RST condition, this value is set to CALENDARA.
	Navigation Path: Setup > Test Configurator > FlexE Group > Calendar
	Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 1/2/3 C bit
Syntax	:SOURce:DATA:TELecom:FETHernet:GROup:CALendar?
Response Syntax	<Calendar In Use>
Response(s)	**Calendar In Use**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the FlexE Calendar currently in use
	CALENDARA: Calendar A
	CALENDARB: Calendar B
Example(s)	SOUR:DATA:TEL:FETH:GRO:CAL CALENDARB
	SOUR:DATA:TEL:FETH:GRO:CAL?
	Returns: CALENDARB
See Also	SOURce:DATA:TELecom:FETHernet:GROup:CALendar

:SOURce:DATA:TELecom:FETHernet:GROup:NUMBer

Description	This command sets the Group Number associated with the FlexE Group.
Syntax	:SOURce:DATA:TELecom:FETHernet:GROup:NUMBer <wsp><GroupNumber>
Parameter(s)	**GroupNumber**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the group number associated with the FlexE group.
	Value Range: 0 to 1048575
Response Syntax	<Calendar In Use>
Example(s)	SOUR:DATA:TEL:FETH:GRO:NUMB 128
	SOUR:DATA:TEL:FETH:GRO:NUMB ?
	Returns: 128
See Also	SOURce:DATA:TELecom:FETHernet:GROup:NUMBer?

:SOURce:DATA:TELecom:FETHernet:GROup:NUMBer?

Description	This query returns the group number associated with a FlexE group.
Syntax	:SOURce:DATA:TELecom:FETHernet:GROup:NUMBer?
Response Syntax	<GroupNumber>
Response(s)	**GroupNumber**: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the group number associated with the FlexE group.
Example(s)	SOUR:DATA:TEL:FETH:GRO:NUMB 128 SOUR:DATA:TEL:FETH:GRO:NUMB? Returns: 128
See Also	SOURce:DATA:TELecom:FETHernet:GROup:NUMBer

FlexE Calendar

:SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:ACLient
Description	This command adds a new Client of the given size with the given list of FlexE Calendar Slots into the FlexE Calendar Configuration Navigation Path: Setup > Test Configurator > FlexE Group > Modify... > Add Client
Syntax	:SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:ACLient <wsp><Client ID>, <Client Rate>, <FlexE Calendar Occupied Slots>

:SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:ACLient

Parameter(s)	**Client ID**:

Client ID:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Specified Client ID between 1 and 65534

DEFault: Smallest available Client ID

MINimum: Smallest available Client ID

MAXimum: Biggest available Client ID

Client Rate:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the type of FlexE Client Rate

 _5GB: 5Gb Client occupying 1 Calendar Slot

 _10GB: 10Gb Client occupying 2 Calendar Slots

 _25GB: 25Gb Client occupying 5 Calendar Slots

 _40GB: 40Gb Client occupying 8 Calendar Slots

 _50GB: 50Gb Client occupying 10 Calendar Slots

_100GB: 100Gb Client occupying 20 Calendar Slots

_150GB: 150Gb Client occupying 30 Calendar Slots

_200GB: 200Gb Client occupying 40 Calendar Slots

_250GB: 250Gb Client occupying 50 Calendar Slots

_300GB: 300Gb Client occupying 60 Calendar Slots

_350GB: 350Gb Client occupying 70 Calendar Slots

_400GB: 400Gb Client occupying 80 Calendar Slots

FlexE Calendar Occupied Slots:

The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element.

String containing a coma separated list of FlexE Calendar Zero Based Slot Index between open/close parenthesis delimiters

For Granularity 5G

Example: (0,1)

For Granularity 25G the parameters will have 1 slot out of group of 5

Example: (0) selects 0,1,2,3,4 slots

:SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:ACLient

Response Syntax	\<Status\>
Example(s)	SOUR:DATA:TEL:FETH:CLI:CAL:ACL 1,_10GB,(0,1)
	SOUR:DATA:TEL:FETH:CLI:CAL:ACL 2,_100GB,(2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21)
	For 25G granularity
	SOUR:DATA:TEL:FETH:CLI:CAL:ACL 2,_25GB,(10)
	SOUR:DATA:TEL:FETH:CLI:CAL:ACL 3,_100GB,(15,20,25,30)
See Also	SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:CONFig?
	SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:RCLient

:SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:CONFig ?

Description	This query returns the current FlexE Client Calendar Configuration as a string containing a coma separated list of (Client Id, Ethernet Interface, List of Occupied Calendar Slots)
	Navigation Path: Setup > Test Configurator > FlexE Group > Modify...
	Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 3 - Client Calendar
Syntax	:SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:CONFig?
Response Syntax	<FlexE Client Calendar Configuration>
Response(s)	**FlexE Client Calendar Configuration**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the current FlexE Client Calendar Configuration as a string containing a coma separated list of (Client Id, Ethernet Interface, List of Occupied Calendar Slots)
	Ex: Using a single _200Gb default client
	(1,_200Gb,(0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39))
	The numbering of the slot is from 0 to 79, so PHY1 uses 0 to 19, PHY2 uses 20 to 39 and so on.
Example(s)	SOUR:DATA:TEL:FETH:CLI:CAL:CONF?
See Also	SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:DELete
	SOURce:DATA:TELecom:FETHernet:CLI:CALendar:ACLient
	SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:RCLient
	SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:MCID
	SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:MOSLots

:SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:DELete

Description	This command removes all Clients from the FlexE Calendar Configuration
	Navigation Path: Setup > Test Configurator > FlexE Group > Modify...
Syntax	:SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:DELete
Response Syntax	<FlexE Client Calendar Configuration>
Example(s)	SOUR:DATA:TEL:FETH:CLIent:CAL:DEL
See Also	SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:CONFig?

:SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:MCID

Description	This command replaces an existing Client Id by the new given one
	Navigation Path: Setup > Test Configurator > FlexE Group > Modify...
Syntax	:SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:MCID <wsp><Old Client ID>, <New Client ID>
Parameter(s)	**Old Client ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Client ID to be replaced
	New Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Client ID used to replace with
Response Syntax	<FlexE Client Calendar Configuration>
Example(s)	SOUR:DATA:TEL:FETH:CLI:CAL:MCID 1,456
See Also	SOUR:DATA:TEL:FETH:CLI:CAL:CONF?

:SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:MOSLots

Description	This command assigns the given list of FlexE Calendar Occupied Slots to the given Client ID Navigation Path: Setup > Test Configurator > FlexE Group > Modify...
Syntax	:SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:MOSLots <wsp><Client ID>, <FlexE Calendar Occupied Slots>
Parameter(s)	**Client ID**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Client ID to be modified **FlexE Calendar Occupied Slots**: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. String containing a coma separated list of FlexE Calendar Zero Based Slot Index between open/close parenthesis delimiters For Granularity 5G Example: (0,1) For Granularity 25G the parameters will have 1 slot out of group of 5 Example: (0) selects 0,1,2,3,4 slots
Response Syntax	<FlexE Client Calendar Configuration>
Example(s)	SOUR:DATA:TEL:FETH:CLI:CAL:MOSL 1,(5,6,7,8,9) For 25G granularity SOUR:DATA:TEL:FETH:CLI:CAL:MOSL 1,(5)
See Also	SOUR:DATA:TEL:FETH:CLI:CAL:CONF?

:SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:RCLient

Description	This command removes the given Client from the FlexE Calendar Configuration
	Navigation Path: Setup > Test Configurator > FlexE Group > Modify...
Syntax	:SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:RCLient <wsp><Client ID>
Parameter(s)	**Client ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Client ID to be removed
Response Syntax	<FlexE Client Calendar Configuration>
Example(s)	SOUR:DATA:TEL:FETH:CLI:CAL:RCL 123
See Also	SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:CONFig?
	SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:ACLient

TA-xxx (Transceiver System)

:FETCh:DATA:TELecom:SLT:TA:INFO?

Description	This query displays the transceiver system infomation for the loopback tool.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test Control > Lpbk Tool > TA
Syntax	:FETCh:DATA:TELecom:SLT:TA:INFO? <wsp><TaReqInfo>
Parameter(s)	**TaReqInfo**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	ICOUNT: Transceiver system insertion counter
	ID: Transceiver System Id
	SN: Transceiver System serial number
	REV: Transceiver System revision
	BATT: Transceiver System battery level
	OMICOUNT: Optical module insertion counter
	TA_STATE: Transceiver system state
	PORT_ID: Transceiver system port id
Response Syntax	<TaRespInfo>
Response(s)	**TaRespInfo**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the requested transceiver system information
Example(s)	FETC:DATA:TEL:SLT:TA:INFO? SN
See Also	FETCh:DATA:TELecom:TA:INFO?

:FETCh:DATA:TELecom:TA:INFO?

Description	This query displays the transceiver system infomation.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface/Signal > TA/TA4
Syntax	:FETCh:DATA:TELecom:TA:INFO? <wsp><TaReqInfo>
Parameter(s)	**TaReqInfo**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	ICOUNT: Transceiver system insertion counter
	ID: Transceiver System Id
	SN: Transceiver System serial number
	REV: Transceiver System revision
	BATT: Transceiver System battery level
	OMICOUNT: Optical module insertion counter
	TA_STATE: Transceiver system state
	PORT_ID: Transceiver system port id
Response Syntax	<TaRespInfo>
Response(s)	**TaRespInfo**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the requested transceiver system information
Example(s)	FETC:DATA:TEL:TA:INFO? SN
See Also	FETCh:DATA:TELecom:TA:INFO

:FETCh:DATA:TELecom:TA:SYNC:INFO?

Description	This query displays the transceiver system sync information.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > External/Internal/Recovered/Backplane Clock > TA-SYNC
Syntax	:FETCh:DATA:TELecom:TA:SYNC:INFO? <wsp><TaSyncReqInfo>
Parameter(s)	**TaSyncReqInfo**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	ICOUNT: Transceiver system insertion counter
	ID: Transceiver System Id
	SN: Transceiver System serial number
	REV: Transceiver System revision
	TA_STATE: Transceiver system state
	PORT_ID: Transceiver system port id
Response Syntax	<TaSyncRespInfo>
Response(s)	**TaSyncRespInfo**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the requested transceiver system sync information
Example(s)	FETC:DATA:TEL:TA:SYNC:INFO? SN
See Also	FETCh:DATA:TELecom:TA:INFO

FlexO-OTUCn

:FETCh:DATA:TELecom:FOTN:GROup:STATus?

Description	This query returns the status of FlexO group.
	Navigation Path: Setup > Test Configurator > FlexO > FlexO Status
Syntax	:FETCh:DATA:TELecom:FOTN:GROup:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns FlexO group status
Example(s)	FETC:DATA:TEL:FOTN:GRO:STAT?
See Also	FETCh:DATA:TELecom:FOTN:GROup:ALARm:HISTory?
	FETCh:DATA:TELecom:FOTN:GROup:ALARm:SEConds?
	FETCh:DATA:TELecom:FOTN:GROup:ALARm:CURRent?

:SOURce:DATA:TELecom:FOTN:CLIent:CONFig?

Description	This query returns FlexO clients tributary slots assignment as a string. The returned value contains a coma separated list of client Ids, odu types, list of occupied tributary slots in the ODUCn.
	Navigation: Setup > Test Configurator > FlexO - OTUCn > OTUCn
Syntax	:SOURce:DATA:TELecom:FOTN:CLIent:CONFig?
Response Syntax	<FOTN Client Configuration>
Response(s)	**FOTN Client Configuration**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns FlexO clients tributary slots assignment as a string. The returned value contains a coma separated list of client IDs, ODU types, and the list of occupied tributary slots in the ODUCn.
	Ex: Using a single OduFlex occupying all ODUC's
	(1,OduFlex,(0,1,2,3,4,5,6,7,8,9,10,11,12,,Ää13,14,15,16,17,18,19,20,21,22,23,24,25,,Ää26, 27,28,29,30,31,32,33,34,35,36,37,38,,Ää39,40,41,42,43,44,45,46,47,48,49,50,51,,Ää52,53, 54,55,56,57,58,59,60,61,62,63,64,,Ää65,66,67,68,69,70,71,72,73,74,75,76,77,,Ää78,79))
Example(s)	SOUR:DATA:TEL:FOTN:CLI:CONF?
See Also	SOURce:DATA:TELecom:FOTN:CLIent:MCID

:SOURce:DATA:TELecom:FOTN:CLIent:MCID

Description	This command replaces an existing Client ID by the new given one
	Navigation Path: Setup > Test Configurator > FlexO-OTUCn > OTUCn > Edit ID
Syntax	:SOURce:DATA:TELecom:FOTN:CLIent:MCID <wsp><Old Client ID>, <New Client ID>
Parameter(s)	**Old Client ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Client ID to be replaced
	New Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Client ID used to replace with
Response Syntax	<FOTN Client Configuration>
Example(s)	SOUR:DATA:TEL:FOTN:CLI:MCID 1,23
See Also	SOURce:DATA:TELecom:FOTN:CLIent:CONFig?

:SOURce:DATA:TELecom:FOTN:GROup:IDentifier

Description	This command sets the group ID associated with the FlexO Group.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > FlexO-OTUCn > FlexO > FlexO Group ID
Syntax	:SOURce:DATA:TELecom:FOTN:GROup:IDentifier <wsp><GroupID>
Parameter(s)	**GroupID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the group ID associated with the FlexO group.
	Value Range: 0 to 1048575
Response Syntax	<FOTN Client Configuration>
Example(s)	SOUR:DATA:TEL:FOTN:GRO:ID 18
	SOUR:DATA:TEL:FOTN:GRO:ID?
	Returns: 18
See Also	SOURce:DATA:TELecom:FOTN:GROup:IDentifier?

:SOURce:DATA:TELecom:FOTN:GROup:IDentifier?

Description	This query returns the group ID associated with a FlexO group. At *RST condition, this value is set to 1. Navigation Path: Setup > Test Configurator > FlexO-OTUCn > FlexO > FlexO Group ID
Syntax	:SOURce:DATA:TELecom:FOTN:GROup:IDentifier?
Response Syntax	<GroupID>
Response(s)	**GroupID**: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the group ID associated with the FlexO group.
Example(s)	SOUR:DATA:TEL:FOTN:GRO:ID 18 SOUR:DATA:TEL:FOTN:GRO:ID? Returns: 18
See Also	SOURce:DATA:TELecom:FOTN:GROup:IDentifier

Modify Wavelength

:SENSe:DATA:TELecom:OPTical:TUNable:CHANnel:NUMBer?

Description	This query returns the tunable wavelength channel number value.
	At *RST condition, this value is device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > Physical Interface > Modify Wavelength - Channel Number
Syntax	:SENSe:DATA:TELecom:OPTical:TUNable:CHANnel:NUMBer?
Response Syntax	<ChannelNumber>
Response(s)	**ChannelNumber**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the tunable channel number of wavelength.
Example(s)	SENS:DATA:TEL:OPT:TUN:CHAN:NUMB?
See Also	SENSe:DATA:TELecom:OPTical:TUNable:CHANnel:SPACing?

:SENSe:DATA:TELecom:OPTical:TUNable:CHANnel:SPACing?

Description	This query returns the tunable wavelength channel spacing value.
	At *RST condition, this value is device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > Physical Interface > Modify Wavelength - Channel Spacing (GHz)
Syntax	:SENSe:DATA:TELecom:OPTical:TUNable:CHANnel:SPACing?
Response Syntax	<ChannelSpacing>
Response(s)	**ChannelSpacing**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the tunable channel spacing of wavelength.
Example(s)	SENS:DATA:TEL:OPT:TUN:CHAN:SPAC?
See Also	SENSe:DATA:TELecom:OPTical:TUNable:CHANnel:NUMBer?

:SENSe:DATA:TELecom:OPTical:TUNable:FREQuency?

Description	This query returns the tunable frequency value.
	At *RST condition, this value is device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > Physical Interface > Modify Wavelength - Frequency (THz)
Syntax	:SENSe:DATA:TELecom:OPTical:TUNable:FREQuency?
Response Syntax	<Frequency>
Response(s)	**Frequency**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the tunable frequency value.
Example(s)	SENS:DATA:TEL:OPT:TUN:FREQ?
See Also	SENSe:DATA:TELecom:OPTical:PORT:FREQuency?

:SOURce:DATA:TELecom:OPTical:SLTool:TUNable:ITU?

Description	Returns the ITU Grid Value for the current registered wavelength on the device. Add this number to the channel number to get the ITU compliant channel number.
	At *RST condition, this value is device-dependent.
	Navigation Path: Test Control > Lpbk Tool > Interface > Physical Interface > Modify - Channel Number
Syntax	:SOURce:DATA:TELecom:OPTical:SLTool:TUNable:ITU?
Response Syntax	<ITU Grid Value>
Response(s)	**ITU Grid Value**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the ITU Grid Value
Example(s)	SOUR:DATA:TEL:OPT:SLT:TUN:ITU?
See Also	SENSe:DATA:TELecom:OPTical:SLTool:TUNable:CHANnel:NUMBer?

:SOURce:DATA:TELecom:OPTical:TUNable:ITU?

Description	Returns the ITU Grid Value for the current registered wavelength on the device. Add this number to the channel number to get the ITU compliant channel number.
	At *RST condition, this value is device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > Physical Interface > Modify Wavelength - Channel Number
Syntax	:SOURce:DATA:TELecom:OPTical:TUNable:ITU?
Response Syntax	<ITU Grid Value>
Response(s)	**ITU Grid Value**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the ITU Grid Value
Example(s)	SOUR:DATA:TEL:OPT:TUN:ITU?
See Also	SENSe:DATA:TELecom:OPTical:TUNable:CHANnel:NUMBer?

:SOURce:DATA:TELecom:OPTical:TUNable:WAVelength

Description	This command sets the wavelength for tunable tranceivers.
	At *RST condition, this value is device-dependent.
	Navigation Path: Setup > Test Configurator >Interface > Physical Interface >Modify Wavelength - Wavelength (nm)
Syntax	:SOURce:DATA:TELecom:OPTical:TUNable:WAVelength <wsp><Wavelength>
Parameter(s)	**Wavelength**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Modify the tunable wavelength value.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
Response Syntax	<ITU Grid Value>
Example(s)	SOUR:DATA:TEL:OPT:TUN:WAV 1548.38
See Also	SENS:DATA:TEL:SDT:THR 50.0
	SENS:DATA:TEL:SDT:THR? Returns 50.0

:SOURce:DATA:TELecom:OPTical:TUNable:WAVelength?

Description	This query returns the tunable wavelength value.
	At *RST condition, this value is device-dependent..
	Navigation Path: Setup > Test Configurator >Interface > Physical Interface >Modify Wavelength - Wavelength (nm)
Syntax	:SOURce:DATA:TELecom:OPTical:TUNable:WAVelength?[<wsp><Wavelength>]
Parameter(s)	**Wavelength**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional.
	If no token is specified, the current wavelength value is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the tunable wavelength value.
Example(s)	SOUR:DATA:TEL:OPT:TUN:WAV
	SOUR:DATA:TEL:OPT:TUN:WAV?
	Returns 0
See Also	SENS:DATA:TEL:SDT:THR 50.0
	SENS:DATA:TEL:SDT:THR? Returns 50.0

EMIX Pop-Up

:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:EMIX:DEFault

Description	This command restore the EMIX configuration to default settings for selected service/stream.
	This command is not associated with *RST condition.
	Navigation path: Setup > Test Configurator > Services > Profile > Profile-EMIX > Restore Default
	Navigation path: Setup > Test Configurator > EtherBERT > Ethernet Frame-EMIX > Restore Default
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:EMIX:DEFault <wsp><Service>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service/stream number 1 or 10
	Select 1 for EtherBERT
Response Syntax	<Profile>
Example(s)	SOUR:DATA:TEL:ETH:STR:FRAM:EMIX:DEF 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:EMIX:QUANtity

:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:EMIX:QUANtity

Description	This command sets the quantity of EMIX frame sizes for selected service/stream.
	At *RST condition, this value is device-dependent.
	Navigation path: Setup > Test Configurator > Services > Profile > Profile-EMIX > Quantity
	Navigation path: Setup > Test Configurator > EtherBert> Ethernet Frame-EMIX > Quantity
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:EMIX:QUANtity <wsp><Service>, <Quantity>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service/stream number 1 or 10
	Select 1 for EtherBERT
	Quantity:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Set the quantity of frames
Response Syntax	<Profile>
Example(s)	SOUR:DATA:TEL:ETH:STR:FRAM:EMIX:QUAN 1, 5
See Also	SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:EMIX:SIZE

:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:EMIX:QUANtity?

Description	This query returns the quantity of EMIX frame sizes for selected service/stream.
	At *RST condition, this value is device-dependent.
	Navigation path: Setup > Test Configurator > Services > Profile > Profile-EMIX > Quantity
	Navigation path: Setup > Test Configurator > EtherBERT> Ethernet Frame-EMIX > Quantity
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:EMIX:QUANtity? <wsp><Service>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service/stream number 1 or 10
	Select 1 for EtherBERT
Response Syntax	<Quantity>
Response(s)	**Quantity**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Quantity of EMIX frames for selected service.
Example(s)	SOUR:DATA:TEL:ETH:STR:FRAM:EMIX:QUAN 1, 5
	SOUR:DATA:TEL:ETH:STR:FRAM:EMIX:QUAN? 1
	Returns 5
See Also	SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:EMIX:SIZE?

:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:EMIX:SIZE

Description	This command sets the frame size for selected service/stream.
	At *RST condition, this value is device-dependent.
	Navigation path: Setup > Test Configurator > Services > Profile > Profile-EMIX > EMIX Frame Sizes
	Navigation path: Setup > Test Configurator > EtherBERT > Ethernet Frame-EMIX > EMIX Frame Sizes
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:EMIX:SIZE <wsp><Service>, <EMIX frame>, <Size>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service/stream number 1 or 10.
	Select 1 for EtherBERT.
	EMIX frame:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the EMIX frame.
	Size:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the frame size.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Quantity>
Example(s)	SOUR:DATA:TEL:ETH:STR:FRAM:EMIX:SIZE 1, 1, 64
See Also	SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:EMIX:QUANtity

:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:EMIX:SIZE?

Description	This query returns the frame sizes for selected service/stream.
	This query is not associated with *RST condition.
	Navigation path: Setup > Test Configurator > Services > Profile > Profile-EMIX > EMIX Frame Sizes
	Navigation path: Setup > Test Configurator > EtherBERT> Ethernet Frame-EMIX > EMIX Frame Sizes
Syntax	:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:EMIX:SIZE? <wsp><Service>, <EMIX Frame>,[<Size>]
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service/sream number 1 or 10.
	Select 1 for EtherBERT
	EMIX Frame:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the EMIX Frame.
	Size:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the EMIX Frame size.
	This parameter is optional. If no token is specified, the current EMIX frame size value is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value
Response Syntax	<Frame Size>

:SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:EMIX:SIZE?

Response(s)	**Frame Size**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Return the frame size of EMIX frames for selected services/stream
Example(s)	SOUR:DATA:TEL:ETH:STR:FRAM:EMIX:SIZE 1, 1, 64
	SOUR:DATA:TEL:ETH:STR:FRAM:EMIX:SIZE? 1, 1
	Returns 64
See Also	SOURce:DATA:TELecom:ETHernet:STReam:FRAMe:EMIX:QUANtity?

Clients - Path OAM

:SENSe:DATA:TELecom:FETHernet:POAM:CSIGnal:MONitoring:ENABle

Description	This command enables/disables the FlexE Path OAM Expected Client Signal Type.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > CS Type - Expected
Syntax	:SENSe:DATA:TELecom:FETHernet:POAM:CSIGnal:MONitoring:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Value>
Example(s)	SENS:DATA:TEL:FETH:POAM:CSIG:MON:ENAB OFF
	SENS:DATA:TEL:FETH:POAM:CSIG:MON:ENAB?
	Returns: 0

:SENSe:DATA:TELecom:FETHernet:POAM:CSIGnal:MONitoring:ENABle?

Description	This query returns the enable/dsable status of FlexE Path OAM Expected Client Signal Type.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > CS Type - Expected
Syntax	:SENSe:DATA:TELecom:FETHernet:POAM:CSIGnal:MONitoring:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SENS:DATA:TEL:FETH:POAM:CSIG:MON:ENAB OFF
	SENS:DATA:TEL:FETH:POAM:CSIG:MON:ENAB?
	Returns: 0

:SENSe:DATA:TELecom:FETHernet:POAM:CSIGnal:TYPE:EXPexted

Description	This command sets the FlexE Path OAM Expected Client Signal type.
	At *RST condition, this value is set to ETHERNET.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > CS Type - Expected
Syntax	:SENSe:DATA:TELecom:FETHernet:POAM:CSIGnal:TYPE:EXPexted <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the expected type
	CSTYPE_CHNL: Character Not Loaded
	CSTYPE_ETHernet: ETHERNET
	CSTYPE_SDH: SDH
	CSTYPE_CPRI: CPRI
	CSTYPE_FC: FC
Response Syntax	<Status>
Example(s)	SENS:DATA:TEL:FETH:POAM:CSIG:TYPE:EXP CSTYPE_SDH
	SENS:DATA:TEL:FETH:POAM:CSIG:TYPE:EXP?
	Returns CSTYPE_SDH

:SENSe:DATA:TELecom:FETHernet:POAM:CSIGnal:TYPE:EXPexted?

Description	This query returns the FlexE Path OAM Expected Client Signal type.
	At *RST condition, this value is set to ETHERNET.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > CS Type - Expected
Syntax	:SENSe:DATA:TELecom:FETHernet:POAM:CSIGnal:TYPE:EXPexted?
Response Syntax	\<Type\>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA\> element.
	Returns the expected type:
	CSTYPE_CHNL: Character Not Loaded
	CSTYPE_ETHernet: ETHERNET
	CSTYPE_SDH: SDH
	CSTYPE_CPRI: CPRI
	CSTYPE_FC: FC
Example(s)	SENS:DATA:TEL:FETH:POAM:CSIG:TYPE:EXP CSTYPE_SDH
	SENS:DATA:TEL:FETH:POAM:CSIG:TYPE:EXP?
	Returns CSTYPE_SDH

:SENSe:DATA:TELecom:FETHernet:POAM:CVER:DAPI:EXPexted

Description	This command sets the FlexE Path OAM connectivity verification DAPI expected message.
	At *RST condition, this value is set to EXFO DAPI.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - Expected DAPI
Syntax	:SENSe:DATA:TELecom:FETHernet:POAM:CVER:DAPI:EXPexted <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the expected message.
Response Syntax	<Type>
Example(s)	SENS:DATA:TEL:FETH:POAM:CVER:DAPI:EXP EXFO DAPI
	SENS:DATA:TEL:FETH:POAM:CVER:DAPI:EXP?
	Returns: EXFO DAPI

:SENSe:DATA:TELecom:FETHernet:POAM:CVER:DAPI:EXPexted?

Description	This query returns the FlexE Path OAM connectivity verification DAPI expected message.
	At *RST condition, this value is set to EXFO DAPI.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - Expected DAPI
Syntax	:SENSe:DATA:TELecom:FETHernet:POAM:CVER:DAPI:EXPexted?
Response Syntax	\<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a \<STRING RESPONSE DATA> element.
	Returns the expected message.
Example(s)	SENS:DATA:TEL:FETH:POAM:CVER:DAPI:EXP EXFO DAPI
	SENS:DATA:TEL:FETH:POAM:CVER:DAPI:EXP?
	Returns: EXFO DAPI

:SENSe:DATA:TELecom:FETHernet:POAM:CVER:MONitoring:ENABle

Description	This command enables/disables the FlexE Path OAM connectivity verification Expected SAPI/DAPI.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - SAPI/DAPI Expected
Syntax	:SENSe:DATA:TELecom:FETHernet:POAM:CVER:MONitoring:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:FETH:POAM:CVER:MON:ENAB OFF
	SENS:DATA:TEL:FETH:POAM:CVER:MON:ENAB?
	Returns: 0

:SENSe:DATA:TELecom:FETHernet:POAM:CVER:MONitoring:ENABle?

Description	This query returns enable/disable status of the FlexE Path OAM connectivity verification SAPI/DAPI Expected.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - SAPI/DAPI Expected
Syntax	:SENSe:DATA:TELecom:FETHernet:POAM:CVER:MONitoring:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SENS:DATA:TEL:FETH:POAM:CVER:MON:ENAB OFF
	SENS:DATA:TEL:FETH:POAM:CVER:MON:ENAB?
	Returns: 0

:SENSe:DATA:TELecom:FETHernet:POAM:CVER:SAPI:EXPexted

Description	This command sets the FlexE Path OAM connectivity verification SAPI expectedmessage.
	At *RST condition, this value is set to EXFO SAPI.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - Expected SAPI
Syntax	:SENSe:DATA:TELecom:FETHernet:POAM:CVER:SAPI:EXPexted <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the expected message.
Response Syntax	<Status>
Example(s)	SENS:DATA:TEL:FETH:POAM:CVER:SAPI:EXP EXFO SAPI
	SENS:DATA:TEL:FETH:POAM:CVER:SAPI:EXP?
	Returns: EXFO SAPI

:SENSe:DATA:TELecom:FETHernet:POAM:CVER:SAPI:EXPexted?

Description	This query returns the FlexE Path OAM connectivity verification SAPI expected message.
	At *RST condition, this value is set to EXFO SAPI.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - Expected SAPI
Syntax	:SENSe:DATA:TELecom:FETHernet:POAM:CVER:SAPI:EXPexted?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the expected message.
Example(s)	SENS:DATA:TEL:FETH:POAM:CVER:SAPI:EXP EXFO SAPI
	SENS:DATA:TEL:FETH:POAM:CVER:SAPI:EXP?
	Returns: EXFO SAPI

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:CCFunction

Description	This command enables/disables the FlexE Path OAM continuity check function
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Basic OAM - CC Function
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:CCFunction <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:CCF OFF
	SOUR:DATA:TEL:FETH:POAM:BOAM:CCF?
	Returns: 0

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:CCFunction?

Description	This query returns the FlexE Path OAM continuity check function status
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Basic OAM - CC Function
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:CCFunction?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:CCF OFF
	SOUR:DATA:TEL:FETH:POAM:BOAM:CCF?
	Returns: 0

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:PERiod

Description	This command sets the FlexE Path OAM Basic OAM period
	At *RST condition, this value is set to _64K.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Basic OAM - Period
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:PERiod <wsp><Period>
Parameter(s)	**Period**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the period:
	_16K: 16K
	_32K: 32K
	_512K: 512K
	_64K: 64K
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:PER _32K
	SOUR:DATA:TEL:FETH:POAM:BOAM:PER?
	Returns: _32K

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:PERiod?

Description	This query returns the FlexE Path OAM Basic OAM period
	At *RST condition, this value is _64K.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Basic OAM - Period
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:PERiod?
Response Syntax	<Period>
Response(s)	**Period**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the period:
	_16K: 16K
	_32K: 32K
	_512K: 512K
	_64K: 64K
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:PER _32K
	SOUR:DATA:TEL:FETH:POAM:BOAM:PER?
	Returns: _32K

:SOURce:DATA:TELecom:FETHernet:POAM:CLIent:IDentifier

Description	Selects the Client Identifier associated with FlexE Path OAM.
	At *RST condition, this value is set to 1 (Default Client ID).
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Path OAM on Client ID
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CLIent:IDentifier <wsp><Client ID>
Parameter(s)	**Client ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects Client Identifier.
Response Syntax	<Period>
Example(s)	SOUR:DATA:TEL:FETH:POAM:CLI:ID 2
	SOUR:DATA:TEL:FETH:POAM:CLI:ID?
	Returns 2

:SOURce:DATA:TELecom:FETHernet:POAM:CLIent:IDentifier?

Description	Returns the Client Identifier selected for FlexE Path OAM.
	At *RST condition, this value is set to 1 (Default Client ID).
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Path OAM functions on Client ID
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CLIent:IDentifier?
Response Syntax	<Client ID>
Response(s)	**Client ID**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns Client Identifier.
Example(s)	SOUR:DATA:TEL:FETH:POAM:CLI:ID 2
	SOUR:DATA:TEL:FETH:POAM:CLI:ID?
	Returns 2

:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:ENABle

Description	This command enables/disables the FlexE Path OAM Client Signal type function.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > CS Type - CS Type Function
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Client ID>
Example(s)	SOUR:DATA:TEL:FETH:POAM:CSIG:ENAB
	SOUR:DATA:TEL:FETH:POAM:CSIG:ENAB?
	Returns: 0

:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:ENABle?

Description	This query returns the FlexE Path OAM Client Signal type function status
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Client Signal - CS Type Function
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:FETH:POAM:CSIG:ENAB
	SOUR:DATA:TEL:FETH:POAM:CSIG:ENAB?
	Returns: 0

:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:TX:PERiod

Description	This command sets the FlexE Path OAM Client Signal type period
	At *RST condition, this value is set to _10S.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > CS Type - Period
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:TX:PERiod <wsp><Period>
Parameter(s)	**Period**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the period:
	_1Second: 1 Second
	_10Second: 10 Seconds
	_1Minute: 1 Minute
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:POAM:CSIG:TX:PER _1S
	SOUR:DATA:TEL:FETH:POAM:CSIG:TX:PER?
	Returns _1S

:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:TX:PERiod?

Description	This query returns the FlexE Path OAM Client Signal Type period
	At *RST condition, this value is set to _10S.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Client Signal - Period
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:TX:PERiod?
Response Syntax	<Period>
Response(s)	**Period**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the period:
	_1Second: 1 Second
	_10Second: 10 Seconds
	_1Minute: 1 Minute
Example(s)	SOUR:DATA:TEL:FETH:POAM:CSIG:TX:PER _1S
	SOUR:DATA:TEL:FETH:POAM:CSIG:TX:PER?
	Returns _1S

:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:TYPE:GENerated

Description	This command sets the FlexE Path OAM generated Client Signal type
	At *RST condition, this value is set to ETHERNET.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Client Signal - Type
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:TYPE:GENerated <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the type
	CSTYPE_CHNL: Character Not Loaded
	CSTYPE_ETHernet: ETHERNET
	CSTYPE_SDH: SDH
	CSTYPE_CPRI: CPRI
	CSTYPE_FC: FC
Response Syntax	<Period>
Example(s)	SOUR:DATA:TEL:FETH:POAM:CSIG:TYPE:GEN CSTYPE_SDH
	SOUR:DATA:TEL:FETH:POAM:CSIG:TYPE:GEN?
	Returns CSTYPE_SDH

:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:TYPE:GENerated?

Description	This query returns the FlexE Path OAM generated Client Signal type
	At *RST condition, this value is set to ETHERNET
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Client Signal - Type
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:TYPE:GENerated?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the type:
	CSTYPE_CHaracterNotLoaded: Chanel Not Loaded
	CSTYPE_ETHernet: ETHERNET
	CSTYPE_SDH: SDH
	CSTYPE_CPRI: CPRI
	CSTYPE_FC: FC
Example(s)	SOUR:DATA:TEL:FETH:POAM:CSIG:TYPE:GEN CSTYPE_SDH
	SOUR:DATA:TEL:FETH:POAM:CSIG:TYPE:GEN?
	Returns CSTYPE_SDH

:SOURce:DATA:TELecom:FETHernet:POAM:CVER:DAPI:GENeration

Description	This command sets the FlexE Path OAM connectivity verification DAPI generated message.
	At *RST condition, this value is set to EXFO DAPI.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - DAPI Generated
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CVER:DAPI:GENeration <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:FETH:POAM:CVER:DAPI:GEN EXFO DAPI
	SOUR:DATA:TEL:FETH:POAM:CVER:DAPI:GEN?
	Returns: EXFO DAPI

:SOURce:DATA:TELecom:FETHernet:POAM:CVER:DAPI:GENeration?

Description	This query returns the FlexE Path OAM connectivity verification DAPI generated message.
	At *RST condition, this value is set to EXFO DAPI.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - Dapi
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CVER:DAPI:GENeration?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the generated message.
Example(s)	SOUR:DATA:TEL:FETH:POAM:CVER:DAPI:GEN EXFO DAPI
	SOUR:DATA:TEL:FETH:POAM:CVER:DAPI:GEN?
	Returns: EXFO DAPI

:SOURce:DATA:TELecom:FETHernet:POAM:CVER:ENABle

Description	This command enables/disables the FlexE Path OAM connectivity verification function
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - CV Function
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CVER:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:FETH:POAM:CVER:ENAB OFF
	SOUR:DATA:TEL:FETH:POAM:CVER:ENAB?
	Returns: 0

:SOURce:DATA:TELecom:FETHernet:POAM:CVER:ENABle?

Description	This query returns the FlexE Path OAM conectivity verification function status
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - CV Function
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CVER:ENABle?
Response Syntax	\<Status\>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA\> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:FETH:POAM:CVER:ENAB OFF
	SOUR:DATA:TEL:FETH:POAM:CVER:ENAB?
	Returns: 0

:SOURce:DATA:TELecom:FETHernet:POAM:CVER:SAPI:GENeration

Description	This command sets the FlexE Path OAM connectivity verification SAPI generated message.
	At *RST condition, this value is set to EXFO SAPI.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - Sapi
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CVER:SAPI:GENeration <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the generated message.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:POAM:CVER:SAPI:GEN EXFO SAPI
	SOUR:DATA:TEL:FETH:POAM:CVER:SAPI:GEN?
	Returns: EXFO SAPI

:SOURce:DATA:TELecom:FETHernet:POAM:CVER:SAPI:GENeration?

Description	This query returns the FlexE Path OAM connectivity verification SAPI generated message.
	At *RST condition, this value is set to EXFO SAPI.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - Sapi
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CVER:SAPI:GENeration?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the generated message.
Example(s)	SOUR:DATA:TEL:FETH:POAM:CVER:SAPI:GEN EXFO SAPI
	SOUR:DATA:TEL:FETH:POAM:CVER:SAPI:GEN?
	Returns: EXFO SAPI

:SOURce:DATA:TELecom:FETHernet:POAM:CVER:TX:PERiod

Description	This command sets the FlexE Path OAM Connectivity Verification period
	At *RST condition, this value is set to _10S.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - Period
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CVER:TX:PERiod <wsp><Period>
Parameter(s)	**Period**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the period:
	_1Second: 1 Second
	_10Second: 10 Seconds
	_1Minute: 1 Minute
Response Syntax	<Message>
Example(s)	SOUR:DATA:TEL:FETH:POAM:CVER:TX:PER _1S
	SOUR:DATA:TEL:FETH:POAM:CVER:TX:PER?
	Returns _1S

:SOURce:DATA:TELecom:FETHernet:POAM:CVER:TX:PERiod?

Description	This query returns the FlexE Path OAM Connectivity Verification period
	At *RST condition, this value is set to _10S.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Connectivity Verification - Period
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:CVER:TX:PERiod?
Response Syntax	<Period>
Response(s)	**Period**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the period:
	_1Second: 1 Second
	_10Second: 10 Seconds
	_1Minute: 1 Minute
Example(s)	SOUR:DATA:TEL:FETH:POAM:CVER:TX:PER _1S
	SOUR:DATA:TEL:FETH:POAM:CVER:TX:PER?
	Returns _1S

:SOURce:DATA:TELecom:FETHernet:POAM:DELay:ENABle

Description	This command enables/disables the FlexE Path OAM Delay Measurement 2DM Function.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Bidirectional Delay Measurement - 2DM Function
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:DELay:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Period>
Example(s)	SOUR:DATA:TEL:FETH:POAM:DEL:ENAB ON
	SOUR:DATA:TEL:FETH:POAM:DEL:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:RESPonder:ENABle

:SOURce:DATA:TELecom:FETHernet:POAM:DELay:ENABle?

Description	This query returns the enable/disable status of the FlexE Path OAM Delay Measurement 2DM Function.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Bidirectional Delay Measurement - 2DM Function
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:DELay:ENABle?
Response Syntax	\<Status\>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA\> element.
	Returns the enable/disable status:
	ON: Enabled
	OFF: Disabled
Example(s)	SOUR:DATA:TEL:FETH:POAM:DEL:ENAB ON
	SOUR:DATA:TEL:FETH:POAM:DEL:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:RESPonder:ENABle?

:SOURce:DATA:TELecom:FETHernet:POAM:DELay:TX:CONTinuous:ENABle

Description	This command enables/disables the FlexE Path OAM Delay Measurement Continuous transmission mode.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Bidirectional Delay Measurement - Continuous
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:DELay:TX:CONTinuous:ENABle \<wsp>\<Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a \<BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	\<Status>
Example(s)	SOUR:DATA:TEL:FETH:POAM:DEL::TX:CONT:ENAB ON
	SOUR:DATA:TEL:FETH:POAM:DEL:TX:CONT:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:DELay:ENABle

:SOURce:DATA:TELecom:FETHernet:POAM:DELay:TX:CONTinuous:ENABle?

Description	This query returns enable/disable status of the FlexE Path OAM Delay Measurement Continuous mode.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Bidirectional Delay Measurement - Continuous
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:DELay:TX:CONTinuous:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	ON: Enabled
	OFF: Disabled
Example(s)	SOUR:DATA:TEL:FETH:POAM:DEL:TX:CONT:ENAB ON
	SOUR:DATA:TEL:FETH:POAM:DEL:TX:CONT:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:DELay:ENABle?

:SOURce:DATA:TELecom:FETHernet:POAM:DELay:TX:ENABle

Description	This command enables/disables the FlexE Path OAM Delay Measurement Message Transmission status.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Bidirectional Delay Measurement - EX Enable
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:DELay:TX:ENABle <wsp><Status>
Parameter(s)	Status:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:POAM:DEL::TX:ENAB ON
	SOUR:DATA:TEL:FETH:POAM:DEL:TX:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:DELay:ENABle

:SOURce:DATA:TELecom:FETHernet:POAM:DELay:TX:ENABle?

Description	This query returns the FlexE Path OAM Delay Measurement Message Transmission status.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Bidirectional Delay Measurement - TX Enable
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:DELay:TX:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	ON: Enabled
	OFF: Disabled
Example(s)	SOUR:DATA:TEL:FETH:POAM:DEL::TX:ENAB ON
	SOUR:DATA:TEL:FETH:POAM:DEL:TX:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:DELay:ENABle?

:SOURce:DATA:TELecom:FETHernet:POAM:DELay:TX:FRAMe:COUNt

Description	This command sets the FlexE Path OAM Delay Measurement frame count.
	At *RST condition, this value is set to 10.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Bidirectional Delay Measurement - Count
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:DELay:TX:FRAMe:COUNt <wsp><Count>
Parameter(s)	**Count**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Set the number of frame count.
	Choices are 1 through 1000.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:POAM:DEL:TX:COUN 5
	SOUR:DATA:TEL:FETH:POAM:DEL:TX:COUN?
	Returns 5
See Also	SOURce:DATA:TELecom:FETHernet:POAM:DELay:TX:PERiod

:SOURce:DATA:TELecom:FETHernet:POAM:DELay:TX:FRAMe: COUNt?

Description	This query returns the FlexE Path OAM Delay Measurement frame count,
	At *RST condition, this value is set to 10.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Bidirectional Delay Measurement - Count
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:DELay:TX:FRAMe:COUNt?[<wsp><Count>]
Parameter(s)	**Count**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current burst count is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Delay Measurement frame count
Example(s)	SOUR:DATA:TEL:FETH:POAM:DEL:TX:COUN 5
	SOUR:DATA:TEL:FETH:POAM:DEL:TX:COUN?
	Returns 5
See Also	SOURce:DATA:TELecom:FETHernet:POAM:DELay:TX:PERiod?

:SOURce:DATA:TELecom:FETHernet:POAM:DELay:TX:PERiod

Description	This command sets the FlexE Path OAM Delay Measurement period
	At *RST condition, this value is set to _10S.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Bidirectional Delay Measurement - Period
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:DELay:TX:PERiod <wsp><Period>
Parameter(s)	**Period**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the period:
	_1Second: 1 Second
	_10Second: 10 Seconds
	_1Minute: 1 Minute
Response Syntax	<Count>
Example(s)	SOUR:DATA:TEL:FETH:POAM:DEL:TX:PER _1S
	SOUR:DATA:TEL:FETH:POAM:DEL:TX:PER?
	Returns _1S
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:PERiod

:SOURce:DATA:TELecom:FETHernet:POAM:DELay:TX:PERiod?

Description	Thisquery returns the FlexE Path OAM Delay Measurement period
	At *RST condition, this value is set to _10S.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Bidirectional Delay Measurement - Period
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:DELay:TX:PERiod?
Response Syntax	<Period>
Response(s)	**Period**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the period:
	_1Second: 1 Second
	_10Second: 10 Seconds
	_1Minute: 1 Minute
Example(s)	SOUR:DATA:TEL:FETH:POAM:DEL:TX:PER _1S
	SOUR:DATA:TEL:FETH:POAM:DEL:TX:PER?
	Returns _1S
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:PERiod?

:SOURce:DATA:TELecom:FETHernet:POAM:GSTatus

Description	This command enables/disables the global FlexE Path OAM.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Path OAM
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:GSTatus <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Period>
Example(s)	SOUR:DATA:TEL:FETH:POAM:GST ON
	SOUR:DATA:TEL:FETH:POAM:GST?
	Returns: 1

:SOURce:DATA:TELecom:FETHernet:POAM:GSTatus?

Description	This query returns the global FlexE Path OAM At *RST condition, this value is set to OFF. Navigation Path: Setup > Test Configurator > Clients > Path OAM > Path OAM
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:GSTatus?
Response Syntax	<Status>
Response(s)	**Status**: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:FETH:POAM:GST ON SOUR:DATA:TEL:FETH:POAM:GST? Returns: 1

:SOURce:DATA:TELecom:FETHernet:POAM:RESPonder:ENABle

Description	This command enables/disables the FlexE Path OAM Responder function.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > OAM Responder
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:RESPonder:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:POAM:RESP:ENAB ON
	SOUR:DATA:TEL:FETH:POAM:RESP:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:DELay:ENABle

:SOURce:DATA:TELecom:FETHernet:POAM:RESPonder:ENABle?

Description	This Query returns the FlexE Path OAM Responder function status
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > OAM Responder
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:RESPonder:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:FETH:POAM:RESP:ENAB ON
	SOUR:DATA:TEL:FETH:POAM:RESP:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:DELay:ENABle?

:SOURce:DATA:TELecom:FETHernet:POAM:VERDisct:ENABle

Description	This command enables/disables the FlexE Path OAM verdict status.
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Global Pass/Fail Verdict
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:VERDisct:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:POAM:VERD:ENAB ON
	SOUR:DATA:TEL:FETH:POAM:VERD:ENAB?
	Returns: 1

:SOURce:DATA:TELecom:FETHernet:POAM:VERDisct:ENABle?

Description	This Query returns FlexE Path OAM verdict status
	At *RST condition, this value is set to ON.
	Navigation Path: Setup > Test Configurator > Clients > Path OAM > Global Pass/Fail Verdict
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:VERDisct:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:FETH:POAM:VERD:ENAB ON
	SOUR:DATA:TEL:FETH:POAM:VERD:ENAB?
	Returns: 1

Remote Interface Discovery

:SOURce:DATA:TELecom:ETHernet:REMote:SCANning:STATus

Description	This command enables/disables the interface discovery process.
	At *RST condition, this value is set to false.
	Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > Discovery > Discover
Syntax	:SOURce:DATA:TELecom:ETHernet:REMote:SCANning:STATus <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables the discovery process
	ON: Discovery is on
	OFF: Discovery is off
Response Syntax	<Throughput>
Example(s)	SOUR:DATA:TEL:ETH:REM:SCAN:STAT ON
	SOUR:DATA:TEL:ETH:REM:SCAN:STAT?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:REMote:SCAN:TYPE

:SOURce:DATA:TELecom:ETHernet:REMote:SCANning:STATus ?

Description	This command returns the scanning status of discovery.
	At *RST condition, this value is set to false.
	Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > Discovery > Discover
Syntax	:SOURce:DATA:TELecom:ETHernet:REMote:SCANning:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the scanning status of discovery.
	1: Discovery is on
	0: Discovery is off
Example(s)	SOUR:DATA:TEL:ETH:REM:SCAN:STAT ON
	SOUR:DATA:TEL:ETH:REM:SCAN:STAT?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:REMote:SSUBnet?

:SOURce:DATA:TELecom:ETHernet:REMote:SIGNature:APPLy

Description	This command apply signature to selected stream.
	Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > Discovery > Apply To Stream
Syntax	:SOURce:DATA:TELecom:ETHernet:REMote:SIGNature:APPLy <wsp><Stream ID>, <Signature ID>
Parameter(s)	**Stream ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Stream ID : Apply signature configuration on selected stream ID
	Signature ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Signature ID: Apply selected signature configuration.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:REM:SIGN:APPL
See Also	SOURce:DATA:TELecom:ETHernet:STReam:BATCh:COPY:APPLy

:SOURce:DATA:TELecom:ETHernet:REMote:SIGNature:DETail?

Description	This command returns the details for the selected singature.
	Navigation Path: Setup > Test Configurator > Streams > MAC/IP/UDP > Discovery > Remote Interfaces
Syntax	:SOURce:DATA:TELecom:ETHernet:REMote:SIGNature:DETail? <wsp><Number>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the signature ID
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the details of signature.
Example(s)	SOUR:DATA:TEL:ETH:REM:SIGN:DET? 1
	Returns: "Signature Id = 1, MAC Address = 00:03:01:F7:97:7E, IP Address= 10.10.151.126, E-VLAN Id = 2, S-VLAN Id= 2, C-VALN Id = 2"
See Also	FETCh:DATA:TELecom:LOGGer:LIST?

:SOURce:DATA:TELecom:ETHernet:REMote:SIGNature:LIST?

Description	This command returns list of signatures which are discovered from the scanning.
	Navigation Path: Setup > Test Configurator > Streams -> MAC/IP/UDP -> Discovery > Remote Interfaces
Syntax	:SOURce:DATA:TELecom:ETHernet:REMote:SIGNature:LIST?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the list of signatures.
Example(s)	SOUR:DATA:TEL:ETH:REM:SIGN:LIST?
See Also	FETCh:DATA:TELecom:LOGGer:LIST?

Link Degrade Signaling Thresholds

:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:ACTivate

Description	This command sets the value of Link Degraded Signaling Activate Threshold.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > Link Degraded Signaling > Thresholds > Activate Threshold (Symbols)
Syntax	:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:ACTivate <wsp><Threshold>
Parameter(s)	**Threshold**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets value of Link Degraded Signaling Activate Threshold.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<SkewDelayValue>
Example(s)	SOUR:DATA:TEL:FIB:LINK:DSIG:THR:ACT 7723
	SOUR:DATA:TEL:FIB:LINK:DSIG:THR:ACT?
	Returns: 7723
See Also	SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:INTerval

:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:ACTivate?

Description	This query returns the value of Link Degraded Signaling Activate Threshold.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > Link Degraded Signaling > Threshold > Activate Threshold (Symbols)
Syntax	:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:ACTivate?[<wsp><Token>]
Parameter(s)	**Token**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	MAXimum
	MINimum
Response Syntax	<Threshold>
Response(s)	**Threshold**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	This parameter is optional. If no token is specified, the current value of Link Degraded Signaling Activate Threshold is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Example(s)	SOUR:DATA:TEL:FIB:LINK:DSIG:THR:ACT 7230
	SOUR:DATA:TEL:FIB:LINK:DSIG:THR:ACT?
	Returns: 7230
See Also	SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:INTerval?

:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:DEACtivate

Description	This command sets the value of Link Degraded Signaling Deactivate Threshold.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > Link Degraded Signaling > Thresholds > Deactivate Threshold (Symbols)
Syntax	:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:DEACtivate <wsp><Threshold>
Parameter(s)	**Threshold**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets value of Link Degraded Signaling Deactivate Threshold.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Threshold>
Example(s)	SOUR:DATA:TEL:ETH:FEC:DSER:THR:DEAC 7723
	SOUR:DATA:TEL:ETH:FEC:DSER:THR:DEAC?
	Returns: 7723
See Also	SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:ACTivate

:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:DEACtivate?

Description	This query returns the value of Link Degraded Signaling Deactivate Threshold.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > Link Degraded Signaling > Threshold > Deactivate Threshold (Symbols)
Syntax	:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:DEACtivate?[<wsp><Token>]
Parameter(s)	**Token**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	MAXimum
	MINimum
Response Syntax	<Threshold>
Response(s)	**Threshold**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	This parameter is optional. If no token is specified, the current value of Link Degraded Signaling Deactivate Threshold is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Example(s)	SOUR:DATA:TEL:ETH:FEC:DSER:THR:DEAC 800
	SOUR:DATA:TEL:ETH:FEC:DSER:THR:DEAC?
	Returns: 800
See Also	SOURce:DATA:TELecom:ETHernet:FEC:DSER:THReshold:ACTIvate?

:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:INTerval

Description	This command sets the value of Link Degraded Signaling Interval.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > Test Configurator > Interface > Link Degraded Signaling > Thresholds > Interval(CW)
Syntax	:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:INTerval <wsp><Interval>
Parameter(s)	**Interval**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets value of Link Degraded Signaling Interval.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Threshold>
Example(s)	SOUR:DATA:TEL:FIB:LINK:DSIG:THR:INT 123
See Also	SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:ENABle

:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:INTerval?

Description	This query returns the value of Link Degraded Signaling Interval. Navigation Path: Setup > Test Configurator > Interface > Link Degraded Signaling > Threshold > Interval(CW)
Syntax	:SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:THReshold:INTerval?[<wsp><Interval>]
Parameter(s)	**Interval**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. MAXimum MINimum
Response Syntax	<Threshold>
Response(s)	**Threshold**: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. This parameter is optional. If no token is specified, the current value of Link Degraded Signaling Interval is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Example(s)	SOUR:DATA:TEL:FIB:LINK:DSIG:THR:INT 123 SOUR:DATA:TEL:FIB:LINK:DSIG:THR:INT? Returns: 123
See Also	SOURce:DATA:TELecom:FIBer:LINK:DSIGnaling:ENABle?

Timer

:SOURce:DATA:TELecom:TIMer

Description	This command enables/disables the test timer. Start time should be enabled and the start date and time should have been expired.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Timer > Arm
Syntax	:SOURce:DATA:TELecom:TIMer \<wsp>\<Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a \<BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	\<value>
Example(s)	SOUR:DATA:TEL:TIM ON
	SOUR:DATA:TEL:TIM?
	Returns: 1
See Also	SOURce:DATA:TELecom:TIMer?
	SOURce:DATA:TELecom:TIMer:STOP

:SOURce:DATA:TELecom:TIMer:CONFig

Description	This command automatically starts and/or stops a test case at a given time or for a specific duration.
	At *RST condition, this value is set to 15 minutes.
	Navigation Path: Setup > Timer > Duration ON/OFF
	Navigation Path: Setup > Timer > Start Time ON/OFF
	Navigation Path: Setup > Timer > Stop Time ON/OFF
Syntax	:SOURce:DATA:TELecom:TIMer:CONFig <wsp><Time>, <Status>
Parameter(s)	**Time**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	STARttime: The time the test will automatically start.
	STOPtime: The time the test will automatically stop.
	DURation: The test duration based on the test delayed start time.
	Status:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<value>
Example(s)	SOUR:DATA:TEL:TIM:CONF STAR,ON
	SOUR:DATA:TEL:TIM:CONF? STAR
	Returns: 1
See Also	SOURce:DATA:TELecom:TIMer:CONFig
	SOURce:DATA:TELecom:TIMer:STARt?

:SOURce:DATA:TELecom:TIMer:CONFig?

Description	This query returns the status of the test start time, stop time, or duration.
	At *RST condition, this value is set to 15 minutes.
	Navigation Path: Setup > Timer > Duration ON/OFF
	Navigation Path: Setup > Timer > Start Time ON/OFF
	Navigation Path: Setup > Timer > Stop Time ON/OFF
Syntax	:SOURce:DATA:TELecom:TIMer:CONFig? <wsp><Value>
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	STARttime: The time the created test will automatically start.
	STOPtime: The time the test will automatically stop.
	DURation: The test duration based on the test delayed start time.
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of selected parameter (STARttime, STOPtime, DURation).
Example(s)	SOUR:DATA:TEL:TIM:CONF STAR,ON
	SOUR:DATA:TEL:TIM:CONF? STAR
	Returns: 1
See Also	SOURce:DATA:TELecom:TIMer:CONFig
	SOURce:DATA:TELecom:TIMer:STARt?

:SOURce:DATA:TELecom:TIMer:DURation

Description	This command allows to select the test duration based on the test start time.
	At *RST condition, this value is set to 15 minutes.
	Navigation Path: Setup > Timer > Duration ON
	Navigation Path: Setup > Timer > Duration > Duration
Syntax	:SOURce:DATA:TELecom:TIMer:DURation <wsp><TIME>
Parameter(s)	**TIME**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Allows to select the test duration based on the test delayed start time.
	15M: 15 minutes
	1H: 1 hour
	2H: 2 hours
	4H: 4 hours
	6H: 6 hours
	12H: 12 hours
	24H: 24 hours
	72H: 72 hours
	7D: 7 days
	UDEFined: Undefined
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:TIM:DUR 15M
	SOUR:DATA:TEL:TIM:DUR?
	Returns: 15M
See Also	SOURce:DATA:TELecom:TIMer:DURation?

:SOURce:DATA:TELecom:TIMer:DURation?

Description	This query returns the test duration based on the test delayed start time.
	At *RST condition, this value is set to 15 minutes.
	Navigation Path: Setup > Timer > Duration ON
	Navigation Path: Setup > Timer > Duration > Duration
Syntax	:SOURce:DATA:TELecom:TIMer:DURation?
Response Syntax	<TIME>
Response(s)	**TIME**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the test duration based on the test delayed start time.
	15M, the test duration is 15 minutes.
	1H, the test duration is 1 hour.
	2H, the test duration is 2 hours.
	6H, the test duration is 6 hours.
	12H, the test duration is 12 hours.
	24H, the test duration is 24 hours.
	72H, the test duration is 72 hours.
	7D, the test duration is 7D.
	UDEFined, the test duration is undefined.
Example(s)	SOUR:DATA:TEL:TIM:DUR 15M
	SOUR:DATA:TEL:TIM:DUR?
	Returns: 15M
See Also	SOURce:DATA:TELecom:TIMer:DURation

:SOURce:DATA:TELecom:TIMer:STARt

Description	This command sets the date and time the test will automatically start. Start time should be enabled.
	At *RST condition, this value is set to the current date.
	Navigation Path: Setup > Timer > Start Time > Date
Syntax	:SOURce:DATA:TELecom:TIMer:STARt <wsp><DateTime>
Parameter(s)	**DateTime**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the date and time the test will automatically start.
Response Syntax	<TIME>
Example(s)	SOUR:DATA:TEL:TIM:STAR "7/15/2011 20:30:35"
	SOUR:DATA:TEL:TIM:STAR?
	Returns: "7/15/2011 20:30:35"
See Also	SOURce:DATA:TELecom:TIMer:CONFig?

:SOURce:DATA:TELecom:TIMer:STARt?

Description	This query returns the date and time the test will automatically start. Start time should be enabled.
	At *RST condition, this value is set to the current date and time.
	Navigation Path: Setup > Timer > Start Time > Date
Syntax	:SOURce:DATA:TELecom:TIMer:STARt?
Response Syntax	<DateTime>
Response(s)	**DateTime**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the date and time the test will automatically start.
Example(s)	SOUR:DATA:TEL:TIM:STAR "7/15/2011 20:30:35"
	SOUR:DATA:TEL:TIM:STAR?
	Returns: "7/15/2011 20:30:35"
See Also	SOURce:DATA:TELecom:TIMer:CONFig

:SOURce:DATA:TELecom:TIMer:STOP

Description	This command sets the date and time the test will automatically stop. Stop time should be enabled.
	At *RST condition, this value is set to the current date and time.
	Navigation Path: Setup > Timer > Stop Time > Date
Syntax	:SOURce:DATA:TELecom:TIMer:STOP <wsp><DateTime>
Parameter(s)	**DateTime**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Select the specific date the test will automatically stop.
Response Syntax	<DateTime>
Example(s)	SOUR:DATA:TEL:TIM:STOP "7/15/2011 20:30:35"
	SOUR:DATA:TEL:TIM:STOP?
	Returns: "7/15/2011 20:30:35"
See Also	SOURce:DATA:TELecom:TIMer:STOP?
	SOURce:DATA:TELecom:TIMer:STARt?

:SOURce:DATA:TELecom:TIMer:STOP?

Description	This query returns the specific date and time the test will automatically stop. Stop time should be enabled.
	At *RST condition, this value is set to the current date and time.
	Navigation Path: Setup > Timer > Stop Time > Date
Syntax	:SOURce:DATA:TELecom:TIMer:STOP?
Response Syntax	<DateTime>
Response(s)	**DateTime**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the date and time the test will automatically stop.
Example(s)	SOUR:DATA:TEL:TIM:STOP "7/15/2011 20:30:35"
	SOUR:DATA:TEL:TIM:STOP?
	Returns: "7/15/2011 20:30:35"
See Also	SOURce:DATA:TELecom:TIMer:STOP
	SOURce:DATA:TELecom:TIMer:STARt

:SOURce:DATA:TELecom:TIMer:UDEFined

Description	This command allows you to select the test duration, when User Defined has been selected for duration. Choices are from 1 second to 30 days.
	At *RST condition, this value is set to 1 second.
	Navigation Path: Setup > Timer > Duration ON
	Navigation Path: Setup > Timer > Duration > User Defined Duration
Syntax	:SOURce:DATA:TELecom:TIMer:UDEFined <wsp><Utime>
Parameter(s)	**Utime**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Selects the test duration, when User Defined is selected for duration.
Response Syntax	<DateTime>
Example(s)	SOUR:DATA:TEL:TIM:UDEF 00d:00:15:00
	SOUR:DATA:TEL:TIM:UDEF?
	Returns: 00d:00:15:00
See Also	SOURce:DATA:TELecom:TIMer:UDEF?
	SOURce:DATA:TELecom:TIMer:DURation

:SOURce:DATA:TELecom:TIMer:UDEFined?

Description	This query returns the test duration, when User Defined has been selected for duration.
	At *RST condition, this value is set to 1 second.
	Navigation Path: Setup > Timer > Duration ON
	Navigation Path: Setup > Timer > Duration > User Defined Duration
Syntax	:SOURce:DATA:TELecom:TIMer:UDEFined?
Response Syntax	<User Defined Duration>
Response(s)	**User Defined Duration**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the test duration when User Defined has been selected for duration.
Example(s)	SOUR:DATA:TEL:TIM:UDEF 00d:00:15:00
	SOUR:DATA:TEL:TIM:UDEF?
	Returns: 00d:00:15:00
See Also	SOURce:DATA:TELecom:TIMer:UDEFined
	SOURce:DATA:TELecom:TIMer:DURation

:SOURce:DATA:TELecom:TIMer?

Description	This query returns the status of the test timer.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Timer > Arm
Syntax	:SOURce:DATA:TELecom:TIMer?
Response Syntax	<STATUS>
Response(s)	**STATUS**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the timer.
	1, timer is enabled.
	0, timer is disabled.
Example(s)	SOUR:DATA:TEL:TIM ON
	SOUR:DATA:TEL:TIM?
	Returns: 1
See Also	SOURce:DATA:TELecom:TIMer
	SOURce:DATA:TELecom:TIMer:STOP

System - General

:SOURce:DATA:TELecom:FACTory:RESTore:DEFault

Description	This command restores the factory default settings.
	Navigation Path: Setup > System > Factory Defult > Restore Default.
Syntax	:SOURce:DATA:TELecom:FACTory:RESTore:DEFault
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:FACT:REST:DEF
See Also	SOURce:DATA:TELecom:RESTore:DEFault

:SOURce:DATA:TELecom:TRANsceiver:TFAult:ENABle

Description	This command enables/disables the status of the 'Transceiver Transaction Fault' notification(s).
	When enabled, transaction faults seen on any transceiver involved in the test will be shown in the notification area.
	When disabled, no notifications are shown.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > System > Notification Control > Transceiver Transaction Fault
Syntax	:SOURce:DATA:TELecom:TRANsceiver:TFAult:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables transceiver transaction fault notifications
	OFF: Disables transceiver transaction fault notifications
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:TRAN:TFA:ENAB ON
	SOUR:DATA:TEL:TRAN:TFA:ENAB?
	Returns: 1
See Also	FETCH:DATA:TELecom:TRANsceiver:TFAult:STATus?

:SOURce:DATA:TELecom:TRANsceiver:TFAult:ENABle?

Description	This query returns the 'Transceiver Transaction Fault' notification(s) enabled/disabled status.
	When enabled, transaction faults seen on any transceiver involved in the test will be shown in the notification area.
	When disabled, no notifications are shown.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > System > Notification Control > Transceiver Transaction Fault
Syntax	:SOURce:DATA:TELecom:TRANsceiver:TFAult:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status of the 'Transceiver Transaction Fault' notification(s)
Example(s)	SOUR:DATA:TEL:TRAN:TFA:ENAB ON
	SOUR:DATA:TEL:TRAN:TFA:ENAB?
	Returns: 1
See Also	FETCH:DATA:TELecom:TRANsceiver:TFAult:STATus?

:SOURce:DATA:TELecom:TRANsceiver:VALidation:ENABle

Description	This command enables/disables the status of the 'Transceiver Validation' notification(s).
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > System > Notification Control > Transceiver Validation
Syntax	:SOURce:DATA:TELecom:TRANsceiver:VALidation:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables transceiver validation notifications
	OFF: Disables transceiver validation notifications
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:TRAN:VAL:ENAB ON
	SOUR:DATA:TEL:TRAN:VAL:ENAB?
	Returns: 1
See Also	FETCH:DATA:TELecom:TRANsceiver:TFAult:STATus?

:SOURce:DATA:TELecom:TRANsceiver:VALidation:ENABle?

Description	This query returns the 'Transceiver Validation' notification(s) enabled/disabled status.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > System > Notification Control > Transceiver Validation
Syntax	:SOURce:DATA:TELecom:TRANsceiver:VALidation:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status of the 'Transceiver Validation' notification(s)
Example(s)	SOUR:DATA:TEL:TRAN:VAL:ENAB ON
	SOUR:DATA:TEL:TRAN:VAL:ENAB?
	Returns: 1
See Also	FETCH:DATA:TELecom:TRANsceiver:TFAult:STATus?

System - GNSS

:FETCh:DATA:TELecom:GNSS:ANTenna:ALTitude?

Description	This query returns the antenna Altitude coordinate for GNSS.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > System > GNSS > Statuses > Coordinates - Altitude (m)
Syntax	:FETCh:DATA:TELecom:GNSS:ANTenna:ALTitude?
Response Syntax	<Altitude (m)>
Response(s)	Altitude (m):
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Altitude coordinate.
Example(s)	FETC:DATA:TEL:GNSS:ANT:ALT?
See Also	FETCh:DATA:TELecom:GNSS:ANTenna:LATitude?

:FETCh:DATA:TELecom:GNSS:ANTenna:LATitude?

Description	This query returns the antenna Latitude coordinate for GNSS.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > System > GNSS > Statuses > Coordinates - Latitude (deg)
Syntax	:FETCh:DATA:TELecom:GNSS:ANTenna:LATitude?
Response Syntax	<Latitude (deg)>
Response(s)	**Latitude (deg)**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Latitude coordinate.
Example(s)	FETCh:DATA:TEL:GNSS:ANT:LAT?
See Also	FETCh:DATA:TELecom:GNSS:ANTenna:ALTitude?

:FETCh:DATA:TELecom:GNSS:ANTenna:LONGitude?

Description	This query returns the antenna Longitude coordinate for GNSS.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > System > GNSS > Statuses > Coordinates - Longitude (deg)
Syntax	:FETCh:DATA:TELecom:GNSS:ANTenna:LONGitude?
Response Syntax	<Longitude (deg)>
Response(s)	**Longitude (deg)**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Longitude coordinate.
Example(s)	FETC:DATA:TEL:GNSS:ANT:LONG?
See Also	FETCh:DATA:TELecom:GNSS:ANTenna:LATitude?

:FETCh:DATA:TELecom:GNSS:DISCipline:PROGress?

Description	This query returns the Discipline Oscillator progress.
	Navigation Path: Setup > System > GNSS > Holdover > Tuning Status
Syntax	:FETCh:DATA:TELecom:GNSS:DISCipline:PROGress?
Response Syntax	<Progress>
Response(s)	**Progress**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns disciplining oscillator progress
Example(s)	FETC:DATA:TEL:GNSS:DISC:PROG?

:FETCh:DATA:TELecom:GNSS:DISCipline:STATus?

Description	This query returns the Disciplinine Oscillator status.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > System > GNSS > Holdover > Tuning Status
Syntax	:FETCh:DATA:TELecom:GNSS:DISCipline:STATus?
Response Syntax	<Disciplining>
Response(s)	**Disciplining**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current Disciplining status:
	DISABLED: DISABLED
	INPROGRESS: IN PROGRESS
	COMPLETED: COMPLETED
Example(s)	FETC:DATA:TEL:GNSS:DISC:STAT?

:FETCh:DATA:TELecom:GNSS:HISTogram?

Description	This query returns the Histogram Satellite information for GNSS.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > System > GNSS > Histogram
Syntax	:FETCh:DATA:TELecom:GNSS:HISTogram?
Response Syntax	<Histogram>
Response(s)	**Histogram**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Histogram information in following format:
	Satellite ID:Rx Power:Used/NotUsed
Example(s)	FETC:DATA:TEL:GNSS:HIST?
	Returns: "G10:25:Used; E10:40:NotUsed"
See Also	FETCh:DATA:TELecom:GNSS?

:FETCh:DATA:TELecom:GNSS:HOLDover:ETIMe?

Description	This query returns the Holdover Elapsed time.
	Navigation Path: Setup > System > GNSS > Holdover > Elapsed Time
Syntax	:FETCh:DATA:TELecom:GNSS:HOLDover:ETIMe?
Response Syntax	<Elapsed Time>
Response(s)	**Elapsed Time**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the holdover elapsed time
Example(s)	FETC:DATA:TEL:GNSS:HOLD:ETIM?

:FETCh:DATA:TELecom:GNSS:HOLDover:RTIMe?

Description	This query returns the Holdover Remaining time.
	Navigation Path: Setup > System > GNSS > Holdover > Estimated Holdover Remaining Time
Syntax	:FETCh:DATA:TELecom:GNSS:HOLDover:RTIMe?
Response Syntax	<Remaining Time>
Response(s)	**Remaining Time**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the holdover remaining time.
Example(s)	FETC:DATA:TEL:GNSS:HOLD:RTIM?

:FETCh:DATA:TELecom:GNSS:HOLDover:STATus?

Description	This query returns the Holdover status.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > System > GNSS > Holdover > Status
Syntax	:FETCh:DATA:TELecom:GNSS:HOLDover:STATus?
Response Syntax	<Holdover>
Response(s)	**Holdover**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current Holdover status:
	DISABLED: DISABLED
	INPROGRESS: IN PROGRESS
	COMPLETED: COMPLETED
Example(s)	FETC:DATA:TEL:GNSS:HOLD:STAT?

:FETCh:DATA:TELecom:GNSS:JAMMing?

Description	This query returns the Jamming status for GNSS.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > System > GNSS > Statuses - Jamming
Syntax	:FETCh:DATA:TELecom:GNSS:JAMMing?
Response Syntax	<Jamming>
Response(s)	**Jamming**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Jamming.
	OK: OK
	WARNING: Warning
	CRITICAL: Critical
	UNKNOWN: Unknown
Example(s)	FETC:DATA:TEL:GNSS:JAMM?
See Also	FETCh:DATA:TELecom:GNSS:TLOCk?

:FETCh:DATA:TELecom:GNSS:SATellite?

Description	This query returns the Number of Satellite used for GNSS
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > System > GNSS > Statuses - # of Sat used
Syntax	:FETCh:DATA:TELecom:GNSS:SATellite?
Response Syntax	<# of Sat used>
Response(s)	**# of Sat used**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the number of used Satellite.
Example(s)	FETC:DATA:TEL:GNSS:SAT?
See Also	FETCh:DATA:TELecom:GNSS?

:FETCh:DATA:TELecom:GNSS:STATus?

Description	This query returns the GNSS Status.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > System > GNSS > Statuses - Status
Syntax	:FETCh:DATA:TELecom:GNSS:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Status.
	ACQUIRING: Acquiring
	SURVEYIN: Survey-In
	FIXEDMODE: Fixed Mode
Example(s)	FETC:DATA:TEL:GNSS:STAT?
See Also	FETCh:DATA:TELecom:GNSS?

:FETCh:DATA:TELecom:GNSS:TLOCk?

Description	This query returns the Time Lock status for GNSS.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > System > GNSS > Statuses - Time Lock
Syntax	:FETCh:DATA:TELecom:GNSS:TLOCk?
Response Syntax	<Time Lock>
Response(s)	**Time Lock**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current Time Lock.
	LOCKED: Locked
	NOTLOCKED: Not Locked
Example(s)	FETC:DATA:TEL:GNSS:TLOC?
See Also	FETCh:DATA:TELecom:GNSS?

:FETCh:DATA:TELecom:GNSS:UTC?

Description	This query returns the UTC Variant for GNSS.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > System > GNSS > Statuses - UTC Variant
Syntax	:FETCh:DATA:TELecom:GNSS:UTC?
Response Syntax	<UTC Variant>
Response(s)	**UTC Variant**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the UTC Variant.
	USNO: Unites States Naval Observatory
	SU: Soviet Union
	NTSC: National Time Service Center
	EUROPE: Europe
	PENDing: Pending
Example(s)	FETC:DATA:TEL:GNSS:UTC?
See Also	FETCh:DATA:TELecom:GNSS?

:FETCh:DATA:TELecom:GNSS:WUP:RTIMe?

Description	This query returns the Warm UP Remaining time.
	Navigation Path: Setup > System > GNSS > Holdover > Oscillator Warm-UP
Syntax	:FETCh:DATA:TELecom:GNSS:WUP:RTIMe?
Response Syntax	<Remaining Time>
Response(s)	**Remaining Time**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Oscillator Warm-UP remaining time.
Example(s)	FETC:DATA:TEL:GNSS:WUP:RTIM?

:FETCh:DATA:TELecom:GNSS:WUP:STATus?

Description	This query returns the Warm Up status.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > System > GNSS > Holdover > Oscillator Warm-UP
Syntax	:FETCh:DATA:TELecom:GNSS:WUP:STATus?
Response Syntax	<Warm Up>
Response(s)	**Warm Up**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current Warm Up status:
	DISABLED: DISABLED
	INPROGRESS: IN PROGRESS
	COMPLETED: COMPLETED
Example(s)	FETC:DATA:TEL:GNSS:WUP:STAT?

:FETCh:DATA:TELecom:GNSS?

Description	This query returns the global GNSS status.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > System > GNSS > Statuses - GNSS
Syntax	:FETCh:DATA:TELecom:GNSS?
Response Syntax	<GNSS>
Response(s)	**GNSS**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current GNSS:
	NOTREADY: Not Ready
	READY: Ready
Example(s)	FETC:DATA:TEL:GNSS?
See Also	FETCh:DATA:TELecom:GNSS:STAT?

:SOURce:DATA:TELecom:GNSS:ANTenna:ALTitude

Description	This command sets the Antenna Latitude for GNSS.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > System > GNSS > Antenna Coordinates > Altitude (m)
Syntax	:SOURce:DATA:TELecom:GNSS:ANTenna:ALTitude <wsp><Altitude>
Parameter(s)	Altitude:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Altitude Value.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<GNSS>
Example(s)	SOUR:DATA:TEL:GNSS:ANT:ALT 50.01
	SOUR:DATA:TEL:GNSS:ANT:ALT?
	Returns: 50.01
See Also	SOURce:DATA:TELecom:GNSS:ANTenna:ALTitude?

:SOURce:DATA:TELecom:GNSS:ANTenna:ALTitude?

Description	This query returns the Antenna Altitude for GNSS.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > System > GNSS > Antenna Coordinates > Altitude (m)
Syntax	:SOURce:DATA:TELecom:GNSS:ANTenna:ALTitude?[<wsp><Altitude>]
Parameter(s)	**Altitude**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current Antenna Altitude is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Altitude>
Response(s)	**Altitude**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Altitude.
	MAXimum is used to retrieve the instruments greatest supported value for Antenna Altitude.
	MINimum is used to retrieve the instruments smallest supported value for Antenna Altitude.
Example(s)	SOUR:DATA:TEL:GNSS:ANT:ALT 50.01
	SOUR:DATA:TEL:GNSS:ANT:ALT?
	Returns: 50.01
See Also	SOURce:DATA:TELecom:GNSS:ANTenna:ALTitude

:SOURce:DATA:TELecom:GNSS:ANTenna:LATitude

Description	This command sets the Antenna Latitude for GNSS.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > System > GNSS > Antenna Coordinates > Latitude (deg)
Syntax	:SOURce:DATA:TELecom:GNSS:ANTenna:LATitude <wsp><Latitude>
Parameter(s)	**Latitude**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Latitude Value.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Altitude>
Example(s)	SOUR:DATA:TEL:GNSS:ANT:LAT 50.1005
	SOUR:DATA:TEL:GNSS:ANT:LAT?
	Returns: 50.1005
See Also	SOURce:DATA:TELecom:GNSS:ANTenna:LATitude?

:SOURce:DATA:TELecom:GNSS:ANTenna:LATitude?

Description	This query returns the Antenna Latitude for GNSS.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > System > GNSS > Antenna Coordinates > Latitude (deg)
Syntax	:SOURce:DATA:TELecom:GNSS:ANTenna:LATitude?[<wsp><Latitude>]
Parameter(s)	**Latitude**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current Antenna Latitude is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Latitude>
Response(s)	**Latitude**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Latitude.
	MAXimum is used to retrieve the instruments greatest supported value for Antenna Latitude
	MINimum is used to retrieve the instruments smallest supported value for Antenna Latitude
Example(s)	SOUR:DATA:TEL:GNSS:ANT:LAT 50.10001
	SOUR:DATA:TEL:GNSS:ANT:LAT?
	Returns: 50.10001
See Also	SOURce:DATA:TELecom:GNSS:ANTenna:LATitude

:SOURce:DATA:TELecom:GNSS:ANTenna:LONGitude

Description	This command sets the Antenna Longitude for GNSS.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > System > GNSS > Antenna Coordinates > Longitude (deg)
Syntax	:SOURce:DATA:TELecom:GNSS:ANTenna:LONGitude <wsp><Longitude>
Parameter(s)	**Longitude**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Longitude Value.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Latitude>
Example(s)	SOUR:DATA:TEL:GNSS:ANT:LONG 50.10001
	SOUR:DATA:TEL:GNSS:ANT:LONG?
	Returns: 50.10001
See Also	SOURce:DATA:TELecom:GNSS:ANTenna:LONGitude?

:SOURce:DATA:TELecom:GNSS:ANTenna:LONGitude?

Description	This query returns the Antenna Longitude for GNSS.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > System > GNSS > Antenna Coordinates > Longitude (deg)
Syntax	:SOURce:DATA:TELecom:GNSS:ANTenna:LONGitude?[<wsp><Longitude>]
Parameter(s)	**Longitude**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current Antenna Longitude is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Longitude>
Response(s)	**Longitude**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Longitude.
	MAXimum is used to retrieve the instruments greatest supported value for Antenna Longitude
	MINimum is used to retrieve the instruments smallest supported value for Antenna Longitude
Example(s)	SOUR:DATA:TEL:GNSS:ANT:LONG 50.10001
	SOUR:DATA:TEL:GNSS:ANT:LONG?
	Returns: 50.10001
See Also	SOURce:DATA:TELecom:GNSS:ANTenna:LONGitude

:SOURce:DATA:TELecom:GNSS:CDELay

Description	This command sets the Cable Delay for GNSS.
	At *RST condition, this value is set to 25 ns
	Navigation Path: Setup > System > GNSS > Cable Delay(ns)
Syntax	:SOURce:DATA:TELecom:GNSS:CDELay <wsp><Cable Delay>
Parameter(s)	**Cable Delay**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Cable Delay Value.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Longitude>
Example(s)	SOUR:DATA:TEL:GNSS:CDEL 50
	SOUR:DATA:TEL:GNSS:CDEL?
	Returns: 50
See Also	SOURce:DATA:TELecom:GNSS:CDELay?

:SOURce:DATA:TELecom:GNSS:CDELay?

Description	This query returns the Cable Delay for GNSS.
	At *RST condition, this value is set to 25 ns
	Navigation Path: Setup > System > GNSS > Cable Delay(ns)
Syntax	:SOURce:DATA:TELecom:GNSS:CDELay?[<wsp><Cable Delay>]
Parameter(s)	**Cable Delay**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current Cable Delay is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Cable Delay>
Response(s)	**Cable Delay**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Cable Delay.
	MAXimum is used to retrieve the instruments greatest supported value for Cable Delay
	MINimum is used to retrieve the instruments smallest supported value for Cable Delay
Example(s)	SOUR:DATA:TEL:GNSS:CDEL 50
	SOUR:DATA:TEL:GNSS:CDEL?
	Returns: 50
See Also	SOURce:DATA:TELecom:GNSS:CDELay

:SOURce:DATA:TELecom:GNSS:CONStellation

Description	This command sets the Constellation for GNSS at the input port.
	At *RST condition, this value is set to GPS, Galileo, BeiDou.
	Navigation Path: Setup > System > GNSS > Constellation.
Syntax	:SOURce:DATA:TELecom:GNSS:CONStellation <wsp><Constellation>
Parameter(s)	**Constellation**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Constellation.
	GPS_GALILEO_BEIDOU: GPS, Galileo, BeiDou
	GPS_GALILEO_GLONASS: GPS, Galileo, GLONASS
	GPS_GALILEO: GPS, Galileo
	GPS_BEIDOU: GPS, BeiDou
	GPS_GLONASS: GPS, GLONASS
	GALILEO_BEIDOU: Galileo, BeiDou
	GALILEO_GLONASS: Galileo, GLONASS
	BEIDOU_GLONASS: BeiDou, GLONASS
	GPS: GPS
	GALILEO: Galileo
	BEIDOU: BeiDou
	GLONASS: GLONASS
Response Syntax	<Cable Delay>
Example(s)	SOUR:DATA:TEL:GNSS:CONS GPS
	SOUR:DATA:TEL:GNSS:CONS?
	Returns: GPS
See Also	SOURce:DATA:TELecom:GNSS:CONStellation?

:SOURce:DATA:TELecom:GNSS:CONStellation?

Description	This query returns the Constellation for GNSS at the input port.
	At *RST condition, this value is set to GPS, Galileo, BeiDou.
	Navigation Path: Setup > System > GNSS > Constellation.
Syntax	:SOURce:DATA:TELecom:GNSS:CONStellation?
Response Syntax	<Constellation>
Response(s)	**Constellation**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Constellation.
	GPS_GALILEO_BEIDOU: GPS, Galileo, BeiDou
	GPS_GALILEO_GLONASS: GPS, Galileo, GLONASS
	GPS_GALILEO: GPS, Galileo
	GPS_BEIDOU: GPS, BeiDou
	GPS_GLONASS: GPS, GLONASS
	GALILEO_BEIDOU: Galileo, BeiDou
	GALILEO_GLONASS: Galileo, GLONASS
	BEIDOU_GLONASS: BeiDou, GLONASS
	GPS: GPS
	GALILEO: Galileo
	BEIDOU: BeiDou
	GLONASS: GLONASS
Example(s)	SOUR:DATA:TEL:GNSS:CONS GPS
	SOUR:DATA:TEL:GNSS:CONS?
	Returns: GPS
See Also	SOURce:DATA:TELecom:GNSS:CONStellation

:SOURce:DATA:TELecom:GNSS:DACC

Description	This command sets the Desired Accuracy for GNSS at the input port.
	At *RST condition, this value is set to Very High.
	Navigation Path: Setup > System > GNSS > Desired Accuracy.
Syntax	:SOURce:DATA:TELecom:GNSS:DACC <wsp><Desired Accuracy>
Parameter(s)	**Desired Accuracy**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Desired Accuracy.
	VERYHIGH: Very High
	HIGH: High
	MEDIUM: Medium
	LOW: Low
Response Syntax	<Constellation>
Example(s)	SOUR:DATA:TEL:GNSS:DACC Low
	SOUR:DATA:TEL:GNSS:DACC?
	Returns: DACC
See Also	SOURce:DATA:TELecom:GNSS:DACC?

:SOURce:DATA:TELecom:GNSS:DACC?

Description	This query returns the Desired Accuracy for GNSS at the input port.
	At *RST condition, this value is set to Very High.
	Navigation Path: Setup > System > GNSS > Desired Accuracy.
Syntax	:SOURce:DATA:TELecom:GNSS:DACC?
Response Syntax	<Desired Accuracy>
Response(s)	**Desired Accuracy**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Desired Accuracy.
	VERYHIGH: Very High
	HIGH: High
	MEDIUM: Medium
	LOW: Low
Example(s)	SOUR:DATA:TEL:GNSS:DACC HIGH
	SOUR:DATA:TEL:GNSS:DACC?
	Returns: HIGH
See Also	SOURce:DATA:TELecom:GNSS:DACC

:SOURce:DATA:TELecom:GNSS:DISCipline:ENABle

Description	This command enables/disables Discipline Oscillator
	At *RST, this value is set to Enabled.
	Navigation Path: Setup > System > GNSS > Holdover > Discipline Oscillator
Syntax	:SOURce:DATA:TELecom:GNSS:DISCipline:ENABle <wsp><Disciplining>
Parameter(s)	**Disciplining**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Desired Accuracy>
Example(s)	SOUR:DATA:TEL:GNSS:DISC:ENAB ON
	SOUR:DATA:TEL:GNSS:DISC:ENAB?
	Returns 1
See Also	SOURce:DATA:TELecom:GNSS:DISCipline:ENABle?

:SOURce:DATA:TELecom:GNSS:DISCipline:ENABle?

Description	This query returns the Discipline Oscillator enable/disable status.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > System > GNSS > Holdover > Discipline Oscillator
Syntax	:SOURce:DATA:TELecom:GNSS:DISCipline:ENABle?
Response Syntax	<Disciplining>
Response(s)	**Disciplining**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:GNSS:DISC:ENAB ON
	SOUR:DATA:TEL:GNSS:DISC:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:GNSS:DISCipline:ENABle

:SOURce:DATA:TELecom:GNSS:HOLDover:ENABle

Description	This command enables/disables Holdover
	At *RST, this value is set to Disabled.
	Navigation Path: Setup > System > GNSS > Holdover > Holdover
Syntax	:SOURce:DATA:TELecom:GNSS:HOLDover:ENABle <wsp><Holdover>
Parameter(s)	**Holdover**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Disciplining>
Example(s)	SOUR:DATA:TEL:GNSS:HOLD:ENAB ON
	SOUR:DATA:TEL:GNSS:HOLD:ENAB?
	Returns 1
See Also	SOURce:DATA:TELecom:GNSS:HOLDover:ENABle?

:SOURce:DATA:TELecom:GNSS:HOLDover:ENABle?

Description	This query returns the Holdover enable/disable status
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > System > GNSS > Holdover > Holdover
Syntax	:SOURce:DATA:TELecom:GNSS:HOLDover:ENABle?
Response Syntax	<Holdover>
Response(s)	**Holdover**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:GNSS:HOLD:ENAB ON
	SOUR:DATA:TEL:GNSS:HOLD:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:GNSS:HOLD:ENABle

:SOURce:DATA:TELecom:GNSS:PMODe

Description	This command sets the Position Mode for GNSS at the input port.
	At *RST condition, this value is set to Survey-In.
	Navigation Path: Setup > System > GNSS > Positiom Mode.
Syntax	:SOURce:DATA:TELecom:GNSS:PMODe <wsp><Position Mode>
Parameter(s)	**Position Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Position Mode.
	SURVEYIN: Survey-In
	MANUAL: Manual
Response Syntax	<Holdover>
Example(s)	SOUR:DATA:TEL:GNSS:PMOD MANUAL
	SOUR:DATA:TEL:GNSS:PMOD?
	Returns: MANUAL
See Also	SOUR:DATA:TEL:GNSS:PMOD?

:SOURce:DATA:TELecom:GNSS:PMODe?

Description	This query returns the Position mode for GNSS at the input port.
	At *RST condition, this value is set to Survey-In.
	Navigation Path: Setup > System > GNSS > Positiom Mode.
Syntax	:SOURce:DATA:TELecom:GNSS:PMODe?
Response Syntax	<Position Mode>
Response(s)	**Position Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Position Mode.
	SURVEYIN: Survey-In
	MANUAL: Manual
Example(s)	SOUR:DATA:TEL:GNSS:PMOD MANUAL
	SOUR:DATA:TEL:GNSS:PMOD?
	Returns: MANUAL
See Also	SOURce:DATA:TELecom:GNSS:PMODe

:SOURce:DATA:TELecom:GNSS:QZSS:ENABle

Description	This command enables/disables QZSS.
	At *RST, this value is set to Enabled.
	Navigation Path: Setup > System > GNSS > QZSS
Syntax	:SOURce:DATA:TELecom:GNSS:QZSS:ENABle <wsp><QZSS>
Parameter(s)	**QZSS**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Position Mode>
Example(s)	SOUR:DATA:TEL:GNSS:QZSS:ENAB ON
	SOUR:DATA:TEL:GNSS:QZSS:ENAB?
	Returns 1
See Also	SOURce:DATA:TELecom:GNSS:QZSS:ENABle?

:SOURce:DATA:TELecom:GNSS:QZSS:ENABle?

Description	This query returns the QZSS value of the GNSS.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > System > GNSS > QZSS
Syntax	:SOURce:DATA:TELecom:GNSS:QZSS:ENABle?
Response Syntax	<QZSS>
Response(s)	**QZSS**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:GNSS:QZSS:ENAB ON
	SOUR:DATA:TEL:GNSS:QZSS:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:GNSS:QZSS:ENABle

:SOURce:DATA:TELecom:GNSS:RESTart

Description	This command performs a cold start of the GNSS receiver. Navigation Path: Setup > System > GNSS > Restart
Syntax	:SOURce:DATA:TELecom:GNSS:RESTart
Response Syntax	<QZSS>
Example(s)	SOUR:DATA:TEL:GNSS:REST
See Also	SOURce:DATA:TELecom:GNSS:RESTart

:SOURce:DATA:TELecom:GNSS:TSOurce

Description	This command sets the Time Source for GNSS at the input port.
	At *RST condition, this value is set to UTC.
	Navigation Path: Setup > System > GNSS > Time Source.
Syntax	:SOURce:DATA:TELecom:GNSS:TSOurce <wsp><Time Source>
Parameter(s)	**Time Source**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Time Source.
	UTC: UTC
	GPS: GPS
	GALILEO: Galileo
	BEIDOU: BeiDou
	GLONASS: GLONASS
Response Syntax	<QZSS>
Example(s)	SOUR:DATA:TEL:GNSS:TSO GPS
	SOUR:DATA:TEL:GNSS:TSO?
	Returns: GPS
See Also	SOURce:DATA:TELecom:GNSS:TSOurce?

:SOURce:DATA:TELecom:GNSS:TSOurce?

Description	This query returns the Time Source for GNSS.
	At *RST condition, this value is set to UTC.
	Navigation Path: Setup > System > GNSS > Time Source
Syntax	:SOURce:DATA:TELecom:GNSS:TSOurce?
Response Syntax	<Time Source>
Response(s)	**Time Source**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Time Source.
	UTC: UTC
	GPS: GPS
	GALILEO: Galileo
	BEIDOU: BeiDou
	GLONASS: GLONASS
Example(s)	SOUR:DATA:TEL:GNSS:TSO GPS
	SOUR:DATA:TEL:GNSS:TSO?
	Returns: GPS
See Also	SOURce:DATA:TELecom:GNSS:TSOurce

:SOURce:DATA:TELecom:GNSS:VARiant

Description	This command sets the Variant for GNSS at the input port.
	At *RST condition, this value is set to Auto.
	Navigation Path: Setup > System > GNSS > Variant.
Syntax	:SOURce:DATA:TELecom:GNSS:VARiant <wsp><Variant>
Parameter(s)	**Variant**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Variant.
	AUTO: Auto
	USNO: USNO
	SU: SU
	NTSC: NTSC
	EUROPE: Europe
Response Syntax	<Time Source>
Example(s)	SOUR:DATA:TEL:GNSS:VAR USNO
	SOUR:DATA:TEL:GNSS:VAR?
	Returns: USNO
See Also	SOURce:DATA:TELecom:GNSS:VARiant?

:SOURce:DATA:TELecom:GNSS:VARiant?

Description	This query returns the Variant for GNSS.
	At *RST condition, this value is set to Auto.
	Navigation Path: Setup > System > GNSS > Variant
Syntax	:SOURce:DATA:TELecom:GNSS:VARiant?
Response Syntax	<Variant>
Response(s)	**Variant**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Variant.
	AUTO: Auto
	USNO: USNO
	SU: SU
	NTSC: NTSC
	EUROPE: Europe
Example(s)	SOUR:DATA:TEL:GNSS:VAR USNO
	SOUR:DATA:TEL:GNSS:VAR?
	Returns: USNO
See Also	SOURce:DATA:TELecom:GNSS:VARiant

Summary

:FETCh:DATA:TELecom:CPRI:OBSai:LINK:LAST?

Description	This Query returns the OBSAI last Sync status.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > OBSAI - Sync status
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:LINK:LAST?
Response Syntax	<Link Status>
Response(s)	Link Status:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Return Last(summary) link status for State machine.
Example(s)	FETC:DATA:TEL:CPRI:OBS:LINK:LAST?
See Also	SOURce:DATA:TELecom:CPRI:OBSai:FCBGen?

:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:LAST:PTARget?

Description	This Query returns the OBSAI RP3 Frame Summary Peer Target Address.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summray > OBSAI - RP3 Peer Target Address
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:LAST:PTARget?
Response Syntax	<Last Peer Target Address>
Response(s)	**Last Peer Target Address**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Return Last(summary) Peer Target Address.
Example(s)	FETC:DATA:TEL:CPRI:OBSAI:RPFR:LAST:PTAR?
See Also	SOURce:DATA:TELecom:CPRI:OBSai:RPFRame:ADDRess:TARGet?

:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:LAST:STATus?

Description	This Query returns the OBSAI RP3 Frame Summary Peer Target Address Status.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > OBSAI - RP3 Peer Target Address Status
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:RPFRame:LAST:STATus?
Response Syntax	<Last Peer Target Address Status>
Response(s)	**Last Peer Target Address Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Return Last(summary) Peer Target Address Status.
Example(s)	FETC:DATA:TEL:CPRI:OBSAI:RPFR:LAST:STAT?
See Also	SOURce:DATA:TELecom:CPRI:OBSai:FCBGen?

:FETCh:DATA:TELecom:CPRI:OBSai:STATe:RECeive:LAST?

Description	This Query returns the OBSAI RX State Machine last status.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > OBSAI - Sync - RX
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:STATe:RECeive:LAST?
Response Syntax	<RX State machine>
Response(s)	**RX State machine**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Return Last(summary) status for RX state machine.
Example(s)	FETC:DATA:TEL:CPRI:OBS:STAT:REC:LAST?
See Also	FETCh:DATA:TELecom:CPRI:OBSai:STATe:RECeive:LIVE?

:FETCh:DATA:TELecom:CPRI:OBSai:STATe:TRANsmit:LAST?

Description	This Query returns the OBSAI TX State Machine last status.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > OBSAI - Sync - TX
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:STATe:TRANsmit:LAST?
Response Syntax	<TX State machine>
Response(s)	**TX State machine**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Return Last(summary) status for TX state machine.
Example(s)	FETC:DATA:TEL:CPRI:OBS:STAT:TRAN:LAST?
See Also	FETCh:DATA:TELecom:CPRI:OBSai:STATe:TRANsmit:LIVE?

:FETCh:DATA:TELecom:CPRI:OBSai:SUMMary:RXCount?

Description	This Query returns the OBSAI Total RX Count.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > OBSAI - Total RX Count
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:SUMMary:RXCount? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Select the count type.
	CODEword: Code Word
	MESSAGEGROUP: Message Group
	FRAME: Frame
Response Syntax	<Total RX Count>
Response(s)	**Total RX Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Return Total RX Count.
Example(s)	FETC:DATA:TEL:CPRI:OBS:SUMM:RXC? CODEWORD
See Also	FETCh:DATA:TELecom:CPRI:OBSai:MESSages:TXCount?

:FETCh:DATA:TELecom:CPRI:OBSai:SUMMary:TXCount?

Description	This Query returns the OBSAI Total TX Count.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > OBSAI - Total TX Count
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:SUMMary:TXCount? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Select the count type.
	CODEword: Code Word
	MESSAGEGROUP: Message Group
	FRAME: Frame
Response Syntax	<Total TX Count>
Response(s)	**Total TX Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Return Total TX Count.
Example(s)	FETC:DATA:TEL:CPRI:OBS:SUMM:TXC? CODEWORD
See Also	FETCh:DATA:TELecom:CPRI:OBSai:MESSages:TXCount?

:FETCh:DATA:TELecom:CPRI:SUMMary:RX:COUNter?

Description	This query returns the number of Received CPRI Frames.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > CPRI > Code Word/Hyperframe Count RX
Syntax	:FETCh:DATA:TELecom:CPRI:SUMMary:RX:COUNter? <wsp><Total RX>
Parameter(s)	**Total RX**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of CPRI Received Counter.
	CODEword, selects the type of CPRI Counter as Code Word.
	HYPErframe, selects the type of CPRI Counter as Hyperframe.
	LINKreset, selects the type of CPRI Counter as L1 Reset.
	66BBlock, selects the type of CPRI Counter as 66B Block.
Response Syntax	<RX>
Response(s)	**RX**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Selects the type of CPRI Received Counter.
	CODE, selects the type of CPRI Counter as Code Word.
	HYPE, selects the type of CPRI Counter as Hyperframe.
Example(s)	FETC:DATA:TEL:CPRI:SUMM:RX:COUN?
See Also	FETCh:DATA:TELecom:CPRI:SUMMary:TX:COUNter?

:FETCh:DATA:TELecom:CPRI:SUMMary:TX:COUNter?

Description	This query returns the number of transmitted CPRI Frames Count.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > CPRI > Code Word/Hyperframe Count TX
Syntax	:FETCh:DATA:TELecom:CPRI:SUMMary:TX:COUNter? <wsp><Total TX>
Parameter(s)	**Total TX**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of CPRI Transmitted Counter.
	CODEword, selects the type of CPRI Counter as Code Word.
	HYPErframe, selects the type of CPRI Counter as Hyperframe.
	66BBlock, selects the type of CPRI Counter as 66B Block.
Response Syntax	<TX>
Response(s)	**TX**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Selects the type of CPRI Transmitted Counter.
	CODE, selects the type of CPRI Counter as Code Word.
	HYPE, selects the type of CPRI Counter as Hyperframe.
Example(s)	FETC:DATA:TEL:CPRI:SUMM:TX:COUN?
See Also	FETCh:DATA:TELecom:CPRI:SUMMary:RX:COUNter?

:FETCh:DATA:TELecom:CPRI:SUMMary:VERDict?

Description	This Query returns status of CPRI Threshold on Summary page.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Summary > CPRI PASS FAIL VERDICT
Syntax	:FETCh:DATA:TELecom:CPRI:SUMMary:VERDict?
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the status of Verdict.
Example(s)	FETC:DATa:TEL:CPRI:SUMM:VERD?
See Also	FETCh:DATA:TELecom:CPRI:ERRor:SEConds?

:FETCh:DATA:TELecom:OTL:SUMMary:SDT:AVERage?

Description	This query returns the average disruption time for summary in OTL multilane configuration.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > OTN BERT > Results > Summary > Service disruption > Disruption Time
Syntax	:FETCh:DATA:TELecom:OTL:SUMMary:SDT:AVERage?
Response Syntax	<Average>
Response(s)	**Average**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the average disruption time.
Example(s)	FETC:DATA:TEL:OTL:SUMMary:SDT:AVER?
See Also	FETCh:DATA:TEL:OTL:SDT:DEFect?

:FETCh:DATA:TELecom:OTL:SUMMary:SDT:COUNt?

Description	This query returns the number of service disruption counts that happened since the beginning of the Service Disruption Time (SDT) test for summary in OTL multilane configuration.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > OTN BERT > Results > Summary > Service disruption > Disruption Time
Syntax	:FETCh:DATA:TELecom:OTL:SUMMary:SDT:COUNt?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of service disruption counts that happened since the beginning of the SDT test.
Example(s)	FETC:DATA:TEL:OTL:SUMMary:SDT:COUN?
See Also	FETCh:DATA:TELecom:SDT:TOTal?

:FETCh:DATA:TELecom:OTL:SUMMary:SDT:LAST?

Description	This query returns the length of the last disruption time for summary in OTL multilane configuration.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > OTN BERT > Results > Summary > Service disruption > Disruption Time
Syntax	:FETCh:DATA:TELecom:OTL:SUMMary:SDT:LAST?
Response Syntax	<Last>
Response(s)	**Last**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the last disruption time.
Example(s)	FETC:DATA:TEL:OTL:SUMMary:SDT:LAST?
See Also	FETCh:DATA:TELecom:SDT:LAST?

:FETCh:DATA:TELecom:OTL:SUMMary:SDT:LONGest?

Description	This query returns the longest disruption time for summary in OTL multilane configuration.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > OTN BERT > Results > Summary > Service disruption > Disruption Time
Syntax	:FETCh:DATA:TELecom:OTL:SUMMary:SDT:LONGest?
Response Syntax	<Longest>
Response(s)	**Longest**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the longest disruption time.
Example(s)	FETC:DATA:TEL:OTL:SUMMary:SDT:LONG?
See Also	FETCh:DATA:TELecom:SDT:COUNt?

:FETCh:DATA:TELecom:OTL:SUMMary:SDT:SHORtest?

Description	This query returns the shortest disruption time for summary in OTL multilane configuration.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > OTN BERT > Results > Summary > Service disruption > Disruption Time
Syntax	:FETCh:DATA:TELecom:OTL:SUMMary:SDT:SHORtest?
Response Syntax	\<Shortest\>
Response(s)	**Shortest**:
	The response data syntax for the first parameter is defined as a \<NR2 NUMERIC RESPONSE DATA\> element.
	Returns the shortest disruption time.
Example(s)	FETC:DATA:TEL:OTL:SUMM:SDT:SHOR?
See Also	FETCh:DATA:TELecom:SDT:LONGest?

:FETCh:DATA:TELecom:OTL:SUMMary:SDT:TOTal?

Description	This query returns the total disruption time for summary in OTL multilane configuraiton.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > OTN BERT > Results > Summary > Service disruption > Disruption Time
Syntax	:FETCh:DATA:TELecom:OTL:SUMMary:SDT:TOTal?
Response Syntax	<Total>
Response(s)	**Total**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the total disruption time.
Example(s)	FETC:DATA:TEL:OTL:SUMMary:SDT:TOT?
See Also	FETCh:DATA:TELecom:SDT:COUNt?

:FETCh:DATA:TELecom:PATTern:ALARm:CURRent?

Description	This query returns the current status of BER (Unframed) per lane alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results >Summary > Pattern Loss
Syntax	:FETCh:DATA:TELecom:PATTern:ALARm:CURRent? <wsp><Lane>, <Alarm>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	PLOSs: Pattern Loss
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:PATT:ALAR:CURR? 1, PLOS
See Also	FETCh:DATA:TELecom:PATTern:ALARm:PATTern:HISTory?

:FETCh:DATA:TELecom:PATTern:ALARm:HISTory?

Description	This query returns the history status of BER (Unframed) per lane alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Pattern Loss > Alarms
Syntax	:FETCh:DATA:TELecom:PATTern:ALARm:HISTory? <wsp><Lane>, <Alarm>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	PLOSs: Pattern Loss
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:PATT:ALAR:HIST? 1, PLOS
See Also	FETCh:DATA:TELecom:PATTern:ALARm:PATTern:CURRent?

:FETCh:DATA:TELecom:PATTern:ALARm:SEConds?

Description	This query returns the number of seconds within which BER (Unframed) per lane alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Pattern Loss > Alarms
Syntax	:FETCh:DATA:TELecom:PATTern:ALARm:SEConds? <wsp><Lane>, <Alarm>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	PLOSs: Pattern Loss
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:PATT:ALAR:SEC? 1, PLOS
See Also	FETCh:DATA:TELecom:PATTern:ALARm:PATTern:SEConds?

:FETCh:DATA:TELecom:PATTern:ERRor:COUNt?

Description	This query returns the count of BER (Unframed) per lane errors.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > BER > Errors
Syntax	:FETCh:DATA:TELecom:PATTern:ERRor:COUNt? <wsp><Lane>, <Error>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BIT: Bit Error
	MISMATCH0: Mismatch '0'
	MISMATCH1: Mismatch '1'
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	FETC:DATA:TEL:PATT:ERR:COUN? 1, BIT
See Also	FETCh:DATA:TELecom:PATTern:ERRor:PATTern:CURRent?

:FETCh:DATA:TELecom:PATTern:ERRor:CURRent?

Description	This query returns the current status of BER (Unframed) per lane error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > BER > Errors
Syntax	:FETCh:DATA:TELecom:PATTern:ERRor:CURRent? <wsp><Lane>, <Error>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane for status of the transmitted error pattern. The range for the lane is from 0 to 19.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BIT: Bit Error
	MISMATCH0: Mismatch '0'
	MISMATCH1: Mismatch '1'
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:PATT:ERR:CURR? 1, BIT
See Also	FETCh:DATA:TELecom:PATTern:ERRor:PATTern:HISTory?

:FETCh:DATA:TELecom:PATTern:ERRor:HISTory?

Description	This query returns the history status of BER (Unframed) per lane error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > BER > Errors
Syntax	:FETCh:DATA:TELecom:PATTern:ERRor:HISTory? <wsp><Lane>, <Error>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BIT: Bit Error
	MISMATCH0: Mismatch '0'
	MISMATCH1: Mismatch '1'
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:PATT:ERR:HIST? 1, BIT
See Also	FETCh:DATA:TELecom:PATTern:ERRor:PATTern:HISTory?

:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:THReshold:VERDict?

Description	This query returns the Status of BERT Verdict.
	At *RST condition, this value is set to BIT.
	Navigation Path: Results > Summary > BERT
Syntax	:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:THReshold:VERDict?[<wsp><Channel Number or Client ID>]
Parameter(s)	**Channel Number or Client ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<STATUS>
Response(s)	**STATUS**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the verdict status:
	PASS
	FAIL
Example(s)	FETC:DATA:TEL:PATT:ERR:PATT:THR:VERD?
	FETC:DATA:TEL:PATT:ERR:PATT:THR:VERD? 3
See Also	FETCh:DATA:TELecom:PATTern:ALARm:PATTern:SEConds?

:FETCh:DATA:TELecom:PATTern:ERRor:RATE?

Description	This query returns the current rate of BER (Unframed) per lane error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > BER > Errors
Syntax	:FETCh:DATA:TELecom:PATTern:ERRor:RATE? <wsp><Lane>, <Error>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane for status of the transmitted error pattern. The range for the lane is from 0 to 19.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BIT: Bit Error
	MISMATCH0: Mismatch '0'
	MISMATCH1: Mismatch '1'
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	FETC:DATA:TEL:PATT:ERR:RATE? 1,BIT
See Also	FETCh:DATA:TELecom:PATTern:ERRor:PATTern:HISTory?

:FETCh:DATA:TELecom:PATTern:ERRor:SEConds?

Description	This query returns the number of seconds within which BER (Unframed) per lane error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > BER > Errors
Syntax	:FETCh:DATA:TELecom:PATTern:ERRor:SEConds? <wsp><Lane>, <Error>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BIT: Bit Error
	MISMATCH0: Mismatch '0'
	MISMATCH1: Mismatch '1'
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:PATT:ERR:SEC? 1, BIT
See Also	FETCh:DATA:TELecom:PATTern:ERRor:PATTern:SEConds?

:FETCh:DATA:TELecom:SDT:AVERage?

Description	This query returns the average disruption duration, since test was started/reset.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Service Disruption - Average
Syntax	:FETCh:DATA:TELecom:SDT:AVERage?[<wsp><Channel>]
Parameter(s)	**Channel**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	This parameter is mandatory in the Multi-Channel OTN application, and cannot be specified in other applications.
	The query returns the average disruption duration for the specified channel.
	The numeric channel ranges from [1:n] in function of ODU Mapping.
Response Syntax	<Average>
Response(s)	**Average**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the average disruption duration, since test was started/reset.
Example(s)	FETC:DATA:TEL:SDT:AVER?
	FETC:DATA:TEL:SDT:AVER? 3
See Also	FETCh:DATA:TELecom:SDT:COUN?

:FETCh:DATA:TELecom:SDT:COUNt?

Description	This query returns the number of service disruptions, since test was started/reset.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Service Disruption - Count
Syntax	:FETCh:DATA:TELecom:SDT:COUNt?[<wsp><Channel>]
Parameter(s)	**Channel**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	This parameter is mandatory in the Multi-Channel OTN application, and cannot be specified in other applications.
	The query returns the number of service disruption for the specified channel.
	The numeric channel ranges from [1:n] in function of ODU Mapping.
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of service disruptions, since test was started/reset.
Example(s)	FETC:DATA:TEL:SDT:COUN?
	FETC:DATA:TEL:SDT:COUN? 3
See Also	FETCh:DATA:TELecom:SDT:TOTal?

:FETCh:DATA:TELecom:SDT:DEFect?

Description	This query returns the layer on which service disruption time test isperformed for OTN.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > OTN BERT > Results > Summary > Service disruption > Defect
Syntax	:FETCh:DATA:TELecom:SDT:DEFect?
Response Syntax	<Defect>
Response(s)	**Defect**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	This query returns the layer on which service disruption time test isperformed for OTN.
Example(s)	FETC:DATA:TEL:SDT:DEF?
See Also	FETCh:DATA:TELecom:OTL:SDT:DEFect?
	FETCh:DATA:TELecom:SDT:CHAT?

:FETCh:DATA:TELecom:SDT:LAST?

Description	This query returns the length of the last disruption time, since test was started/reset.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Service Disruption - Last
Syntax	:FETCh:DATA:TELecom:SDT:LAST?[<wsp><Channel>]
Parameter(s)	**Channel**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	This parameter is optional in the Multi-Channel OTN application, and cannot be specified in other applications.
	When the channel is specified, the query returns the last disruption duration for the specified channel.
	When the channel is specified, the numeric channel ranges from [1:n] in function of ODU Mapping.
	When the channel is NOT specified, the query returns the last disruption of ALL monitored channels.
Response Syntax	<Last>
Response(s)	**Last**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the last disruption duration, since test was started/reset.
Example(s)	FETC:DATA:TEL:SDT:LAST?
	FETC:DATA:TEL:SDT:LAST? 3
See Also	FETCh:DATA:TELecom:SDT:LONGest?

:FETCh:DATA:TELecom:SDT:LONGest?

Description	This query returns the longest disruption duration, since test was started/reset.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Service Disruption - Longest
Syntax	:FETCh:DATA:TELecom:SDT:LONGest?[<wsp><Channel>]
Parameter(s)	**Channel**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	This parameter is optional in the Multi-Channel OTN application, and cannot be specified in other applications.
	When the channel is specified, the query returns the longest disruption duration for the specified channel.
	When the channel is specified, the numeric channel ranges from [1:n] in function of ODU Mapping.
	When the channel is NOT specified, the query returns the longest disruption of ALL monitored channels.
Response Syntax	<Longest>
Response(s)	**Longest**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the longest disruption duration, since test was started/reset.
Example(s)	FETC:DATA:TEL:SDT:LONG?
	FETC:DATA:TEL:SDT:LONG? 3
See Also	FETCh:DATA:TELecom:SDT:SHORtest?

:FETCh:DATA:TELecom:SDT:SHORtest?

Description	This query returns the shortest disruption duration, since test was started/reset.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Service Disruption - Shortest
Syntax	:FETCh:DATA:TELecom:SDT:SHORtest?[<wsp><Channel>]
Parameter(s)	**Channel**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	This parameter is mandatory in the Multi-Channel OTN application, and cannot be specified in other applications.
	The query returns the shortest disruption duration for the specified channel.
	The numeric channel ranges from [1:n] in function of ODU Mapping.
Response Syntax	<Shortest>
Response(s)	**Shortest**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the shortest disruption duration, since test was started/reset.
Example(s)	FETC:DATA:TEL:SDT:SHOR?
	FETC:DATA:TEL:SDT:SHOR? 3
See Also	FETCh:DATA:TELecom:SDT:COUNt?

:FETCh:DATA:TELecom:SDT:TOTal?

Description	This query returns the total disruption duration, since test was started/reset.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Service Disruption - Total
Syntax	:FETCh:DATA:TELecom:SDT:TOTal?[<wsp><Channel>]
Parameter(s)	**Channel**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	This parameter is mandatory in the Multi-Channel OTN application, and cannot be specified in other applications.
	The query returns the total disruption duration for the specified channel.
	The numeric channel ranges from [1:n] in function of ODU Mapping.
Response Syntax	<Total>
Response(s)	**Total**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the total disruption duration, since test was started/reset.
Example(s)	FETC:DATA:TEL:SDT:TOT?
	FETC:DATA:TEL:SDT:TOT? 3
See Also	FETCh:DATA:TELecom:SDT:LAST?

:FETCh:DATA:TELecom:SDT:VERDict?

Description	This query returns if a SDT disruption greater than than the Pass/Fail verdict threshold was detected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Service Disruption - Verdict
Syntax	:FETCh:DATA:TELecom:SDT:VERDict?[<wsp><Channel>]
Parameter(s)	**Channel**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	This parameter is mandatory in the Multi-Channel OTN application, and cannot be specified in other applications.
	The query returns if a SDT disruption greater than than the Pass/Fail verdict threshold was detected for the specified channel.
	The numeric channel ranges from [1:n] in function of ODU Mapping.
Response Syntax	<STATUS>
Response(s)	**STATUS**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the status of Pattern SDT Verdict.
	NONE, verdict is not present.
	PASS, verdict is Pass.
	FAIL, verdict is Fail.
Example(s)	FETC:DATA:TEL:SDT:VERD?
	FETC:DATA:TEL:SDT:VERD? 3
See Also	FETCh:DATA:TELecom:OTL:SDT:DEFect?
	FETCh:DATA:TELecom:SDT:CHAT?

:FETCh:DATA:TELecom:TEST:POWer:RECOvery:COUnt?

Description	This query returns the number of times the system has recovered from power failure.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > Power Failure
Syntax	:FETCh:DATA:TELecom:TEST:POWer:RECOvery:COUnt?
Response Syntax	<Power Failure Status>
Response(s)	**Power Failure Status**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the power failure status of the test.
Example(s)	SOUR:DATA:TEL:TEST ON
	FETC:DATA:TEL:TEST:POW:RECO:COU?
See Also	FETCh:DATA:TELecom:TEST:STATus?

:FETCh:DATA:TELecom:TEST:STARt:TIME?

Description	This query returns the time at which the test started.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > StartTime
Syntax	:FETCh:DATA:TELecom:TEST:STARt:TIME?
Response Syntax	\<StartTime\>
Response(s)	**StartTime**:
	The response data syntax for the first parameter is defined as a \<STRING RESPONSE DATA\> element.
	Returns the time at which the test started.
Example(s)	SOUR:DATA:TEL:TEST ON
	FETC:DATA:TEL:TEST:STAR:TIME?
See Also	FETCh:DATA:TELecom:LOGGer:LIST?

:FETCh:DATA:TELecom:TEST:STATus:VERDict?

Description	This query returns Global Test Status verdict status.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test App > Setup > Results > Summary > Status
Syntax	:FETCh:DATA:TELecom:TEST:STATus:VERDict?
Response Syntax	<Global Verdict>
Response(s)	**Global Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns test status global verdict status
	PASS, indicates verdict is Pass.
	FAIL, indicates verdict is Fail.
Example(s)	FETC:DATA:TEL:TEST:STAT:VERD?
See Also	FETCh:DATA:TELecom:PACKetsync:SYNCe:RX:LAST:QL:VERDict?

:FETCh:DATA:TELecom:TEST:STATus?

Description	This query returns the test status.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > Status
Syntax	:FETCh:DATA:TELecom:TEST:STATus?
Response Syntax	<Test Status>
Response(s)	**Test Status**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the status of the test.
Example(s)	SOUR:DATA:TEL:TEST ON
	FETC:DATA:TEL:TEST:STAT?
See Also	FETCh:DATA:TELecom:TEST:STARt:TIME?

:FETCh:DATA:TELecom:UPRBs:PATTern:THReshold:VERDict?

Description	This query returns the Status of BERT Verdict.
	At *RST condition, this value is set to BIT.
	Navigation Path: Results > Summary > Unframed BERT
Syntax	:FETCh:DATA:TELecom:UPRBs:PATTern:THReshold:VERDict? <wsp><Lane>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the lane number for which the injection is to be done for unframed BERT alarms and errors.
	The range is from 0 to 3 for 4 Lanes and 0 to 19 for 20 lanes.
Response Syntax	<STATUS>
Response(s)	**STATUS**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the status of Pattern Unframed BERT Verdict.
	PASS, verdict is Pass.
	FAIL, verdict is Fail.
Example(s)	FETC:DATA:TEL:UPRB:PATT:THR:VERD? 1
See Also	FETCh:DATA:TELecom:PATTern:ALARm:PATTern:SEConds?

:SENSe:DATA:TELecom:CPRI:SUMMary:ETHernet:RATE?

Description	This query return the Ethernet Channel rate value.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > CPRI > C&M Ethernet Negotiated
Syntax	:SENSe:DATA:TELecom:CPRI:SUMMary:ETHernet:RATE?
Response Syntax	<RATE>
Response(s)	**RATE**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Ethernet Rate.
Example(s)	SENS:DATa:TEL:CPRI:SUMM:ETH:RATE?
See Also	SENSe:DATA:TELecom:CPRI:SUMMary:HDLC:RATE?

:SENSe:DATA:TELecom:CPRI:SUMMary:FSYNc:STATus?

Description	This query return the Frame Sync Status.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test > CPRI > Results > Summary > Frame Sync
Syntax	:SENSe:DATA:TELecom:CPRI:SUMMary:FSYNc:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Frame Sequence Sate.
Example(s)	SENS:DATA:TEL:CPRI:SUMM:FSYN:STAT?
See Also	SENSe:DATA:TELecom:CPRI:SUMMary:SSTate?

:SENSe:DATA:TELecom:CPRI:SUMMary:HDLC:RATE?

Description	This query return the HDLC rate value.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > CPRI > C&M HDLC Negotiated
Syntax	:SENSe:DATA:TELecom:CPRI:SUMMary:HDLC:RATE?
Response Syntax	<RATE>
Response(s)	**RATE**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the HDLC Rate.
Example(s)	SENS:DATa:TEL:CPRI:SUMM:HDLC:RATE?
See Also	SENSe:DATA:TELecom:CPRI:SUMMary:ETHernet:RATE?

:SENSe:DATA:TELecom:CPRI:SUMMary:PROTocol:VERSion?

Description	This query returns the Summary Protocol Version. At *RST condition, this value is device dependent. Navigation Path: Results > Summary > CPRI > Protocol Negotiated
Syntax	:SENSe:DATA:TELecom:CPRI:SUMMary:PROTocol:VERSion?
Response Syntax	<Version>
Response(s)	**Version**: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Protocol version.
Example(s)	SENS:DATa:TEL:CPRI:SUMM:PROT:VERS?
See Also	SENSe:DATA:TELecom:CPRI:PORT:PROTocol:VERSion?

:SENSe:DATA:TELecom:CPRI:SUMMary:SSTate?

Description	This query return the Sequence State.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test > CPRI > Results > Summary > Sequence
Syntax	:SENSe:DATA:TELecom:CPRI:SUMMary:SSTate?
Response Syntax	<Sequence State>
Response(s)	**Sequence State**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Sequence State.
Example(s)	SENS:DATA:TEL:CPRI:SUMM:SST?
See Also	SENSe:DATA:TELecom:CPRI:SUMMary:FSYNc:STATus?

:SOURce:DATA:TELecom:PATTern:ALARm:PATTern?

Description	This query returns the enable/disable status of the continuous BER alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > BER > Alarm > Continuous > Inject
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:PATTern:ALARm:PATTern?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status.
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:PATT:ALAR:PATT ON
	SOUR:DATA:TEL:PATT:ALAR:PATT?
	Returns: 1
See Also	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE
	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt
	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:INJect

:SOURce:DATA:TELecom:UNFRamed:PATTern:ALANes

Description	This command enables/disables the selection of all lanes for unframed BERT alarms/errors injection purposes.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Summary (Unframed BERT) > Inject > Layer (BER) > All Lanes
Syntax	:SOURce:DATA:TELecom:UNFRamed:PATTern:ALANes <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables the selection of all lanes.
	ON: Selects all lanes
	OFF: Unselects all lanes
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ALAN ON
	SOUR:DATA:TEL:UNFR:PATT:ALAN?
	Returns: 1
See Also	SOURce:DATA:TELecom:UNFRamed:PATTern:LANE?

:SOURce:DATA:TELecom:UNFRamed:PATTern:ALANes?

Description	This query returns the enable/disable selection status of all lanes for unframed BERT alarms/errors injection purposes.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Summary (Unframed BERT) > Inject > Layer (BER) > All Lanes
Syntax	:SOURce:DATA:TELecom:UNFRamed:PATTern:ALANes?
Response Syntax	\<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable selection status of all lanes.
	1: All lanes are enabled.
	0: None or not all lanes are enabled.
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ALAN ON
	SOUR:DATA:TEL:UNFR:PATT:ALAN?
	Returns: 1
See Also	SOURce:DATA:TELecom:UNFRamed:PATTern:LANE

:SOURce:DATA:TELecom:UNFRamed:PATTern:ALARm

Description	This command enables/disables the Unframed BERT alarm injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Summary > Inject > Layer (BER) - Alarm - Inject
Syntax	:SOURce:DATA:TELecom:UNFRamed:PATTern:ALARm <wsp><Set>
Parameter(s)	**Set**: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables alarm injection. ON: Enabled OFF: Disabled
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ALAR ON SOUR:DATA:TEL:UNFR:PATT:ALAR? Returns: 1
See Also	SOURce:DATA:TELecom:UNFRamed:PATTern:ALARm:TYPE?

:SOURce:DATA:TELecom:UNFRamed:PATTern:ALARm:TYPE?

Description	This query returns the Unframed BERT alarm type.
	At *RST condition, this value is set to PLOSs.
	Navigation Path: Results > Summary > Inject > Layer (BER) - Alarm - Continuous - Defect
Syntax	:SOURce:DATA:TELecom:UNFRamed:PATTern:ALARm:TYPE?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the type of Unframed Bert alarm.
	PLOSs: Pattern Loss
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ALAR:TYPE?
	Returns: PLOS
See Also	SOURce:DATA:TELecom:UNFRamed:PATTern:ALARm
	SOURce:DATA:TELecom:UNFRamed:PATTern:ALARm?

:SOURce:DATA:TELecom:UNFRamed:PATTern:ALARm?

Description	This query returns the enable/disable status of the Unframed BERT alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Summary > Inject > Layer (BER) - Alarm - Inject
Syntax	:SOURce:DATA:TELecom:UNFRamed:PATTern:ALARm?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the alarm generation.
	1: Alarm injection is enabled.
	0: Alarm injection is disabled.
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ALAR ON
	SOUR:DATA:TEL:UNFR:PATT:ALAR?
	Returns: 1
See Also	SOURce:DATA:TELecom:UNFRamed:PATTern:ALARm:TYPE?

:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated

Description	This command enables/disables the Unframed BERT error rate injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Summary > Inject > Layer (BER) - Error - Rate - Inject
Syntax	:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ERR:AUT ON
	SOUR:DATA:TEL:UNFR:PATT:ERR:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:UNFRamed:PATTern:ALARm:TYPE?

:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated:CONTinuous

Description	This command enalbes/disables the Unframed BERT error max rate injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Summary > Inject > Layer (BER) - Error - Max Rate - Inject
Syntax	:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated:CONTinuous <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ERR:AUT:CONT ON
	SOUR:DATA:TEL:UNFR:PATT:ERR:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:UNFRamed:PATTern:ALARm:TYPE?

:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated:CONTinuous?

Description	This query returns the enable/disable status of the Unframed BERT error max rate injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Summary > Inject > Layer (BER) - Error - Max Rat - Inject
Syntax	:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated:CONTinuous?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of max rate error injection.
	1: Max rate error injection is enabled.
	0: Max rate error injection is disabled.
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ERR:AUT:CONT ON
	SOUR:DATA:TEL:UNFR:PATT:ERR:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:UNFRamed:PATTern:ALARm:TYPE?

:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated:RATE

Description	This command sets the error rate value for Unframed BERT.
	At *RST condition, this value is set to 1.0E-09.
	Navigation Path: Results > Summary > Inject > Layer (BER) - Error - Rate - Rate
Syntax	:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of Unframed BERT error.
	MAXimum
	MINimum
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ERR:AUT:RATE 1.0E-03
	SOUR:DATA:TEL:UNFR:PATT:ERR:AUT:RATE?
	Returns: 1.0E-03
See Also	SOURce:DATA:TELecom:UNFRamed:PATTern:ALARm:TYPE?

:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated:RATE?

Description	This query returns the error rate value for Unframed BERT.
	At *RST condition, this value is set to 1.0E-09.
	Navigation Path: Results > Summary > Inject > Layer (BER) - Error - Rate - Rate
Syntax	:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Returns the error rate value.
	This parameter is optional. If no token is specified, the current rate is returned.
	MAXimum: Biggest rate
	MINimum: Smallest reate
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the error rate value.
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ERR:AUT:RATE 1.0E-03
	SOUR:DATA:TEL:UNFR:PATT:ERR:AUT:RATE?
	Returns: 1.0E-03
See Also	SOURce:DATA:TELecom:UNFRamed:PATTern:ALARm:TYPE?

:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated:TYPE?

Description	This query returns the rate/max rate defect for Unframed BERT.
	At *RST condition, this value is set to BIT.
	Navigation Path: Results > Summary > Inject > Layer (BER) - Error - Rate/Max Rate - Defect
Syntax	:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the automated type Unframed Bert error.
	BIT, bit is selected as the automated type Unframed Bert error.
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ERR:AUT:TYPE?
	Returns: BIT
See Also	SOURce:DATA:TELecom:UNFRamed:PATTern:ALARm:TYPE?

:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated?

Description	This query returns the enable/disable status of the Unframed BERT error rate injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Summary > Inject > Layer (BER) - Error - Rate - Inject
Syntax	:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:AUTomated?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of error rate injection.
	1: Error rate injection is enabled.
	0: Error rate inection is disabled.
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ERR:AUT ON
	SOUR:DATA:TEL:UNFR:PATT:ERR:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:UNFRamed:PATTern:ALARm:TYPE?

:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:MANual:AMOunt

Description	This command sets the amount of error to be generated for Unframed BERT. At *RST condition, this value is set to 1. Navigation Path: Results > Summary > Inject > Layer (BER) > Errors - Manual - Amount
Syntax	:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:MANual:AMOunt <wsp><Amount>
Parameter(s)	**Amount**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ERR:MAN:AMO 25 SOUR:DATA:TEL:UNFR:PATT:ERR:MAN:AMO? Returns: 25
See Also	SOURce:DATA:TELecom:UNFRamed:PATTern:ALARm:TYPE?

:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:MANual: AMOunt?

Description	This query returns the amount of error to be generated for Unframed BERT.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Summary > Inject > Layer (BER) > Errors - Manual - Amount
Syntax	:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:MANual:AMOunt?[<wsp><Amount>]
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of Unframed Bert error.
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ERR:MAN:AMO 25
	SOUR:DATA:TEL:UNFR:PATT:ERR:MAN:AMO?
	Returns: 25
See Also	SOURce:DATA:TELecom:UNFRamed:PATTern:ALARm:TYPE?

:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:MANual: INJect

Description	This command injects manual error for Unframed BERT.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Summary > Inject > Inject
Syntax	:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:MANual:INJect
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ERR:MAN:INJ
See Also	SOURce:DATA:TELecom:UNFRamed:PATTern:ALARm:TYPE?

:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:MANual: TYPE?

Description	This query returns the selected error defect for Unframed BERT.
	At *RST condition, this value is set to BIT.
	Navigation Path: Results > Summary > Inject > Layer (BER) - Error - Manual - Defect
Syntax	:SOURce:DATA:TELecom:UNFRamed:PATTern:ERRor:MANual:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error defect.
	BIT: Bit Error
Example(s)	SOUR:DATA:TEL:UNFR:PATT:ERR:MAN:TYPE?
	Returns: BIT
See Also	SOURce:DATA:TELecom:UNFRamed:PATTern:ALARm:TYPE?

:SOURce:DATA:TELecom:UNFRamed:PATTern:LANE

Description	This command enables/disables the selection of a lane for Unframed BERT alarms/errors injection purposes.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Summary > Inject > Layer (BER) > Lane
Syntax	:SOURce:DATA:TELecom:UNFRamed:PATTern:LANE <wsp><Lane>, <Set>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects a lane.
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables a lane for alarms/errors injection.
	ON: Enables the particular lane.
	OFF: Disables the particular lane.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:UNFR:PATT:LANE 5, ON
	SOUR:DATA:TEL:UNFR:PATT:LANE? 5
	Returns: 1
See Also	SOURce:DATA:TELecom:UNFRamed:PATTern:ALANes?

:SOURce:DATA:TELecom:UNFRamed:PATTern:LANE?

Description	TThis query returns the enable/disable selection status of a lane for Unframed BERT alarms/errors injection purposes.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Summary > Inject > Layer (BER) > Lane
Syntax	:SOURce:DATA:TELecom:UNFRamed:PATTern:LANE? <wsp><Lane>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of alarms/errors lane selection.
	1: Lane selected
	0: Lane not selected
Example(s)	SOUR:DATA:TEL:UNFR:PATT:LANE 5, ON
	SOUR:DATA:TEL:UNFR:PATT:LANE? 5
	Returns: 1
See Also	SOURce:DATA:TELecom:UNFRamed:PATTern:ALANes

Summary (Traffic Gen & Mon) - (Stream)

:FETCh:DATA:TELecom:ETHernet:COUNt:DUALport:FRAMes:RX?

Description	This query returns the received frame count per direction for dual port.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Service Performance > RX Frame Count
Syntax	:FETCh:DATA:TELecom:ETHernet:COUNt:DUALport:FRAMes:RX? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction
	P1TOP2: P1 to P2
	P2TOP1: P2 to P1
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count.
Example(s)	FETC:DATA:TEL:ETH:COUN:DUAL:FRAM:RX? 1,P1TOP2
See Also	SOURce:DATA:TEL:ETH:STR:PAYL

:FETCh:DATA:TELecom:ETHernet:COUNt:DUALport:FRAMes:TX?

Description	This query returns the transmitted frame count per direction for dual port.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Service Performance > TX Frame Count
Syntax	:FETCh:DATA:TELecom:ETHernet:COUNt:DUALport:FRAMes:TX? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service from 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction:
	P1TOP2: P1 to P2
	P2TOP1: P2 to P1
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count.
Example(s)	FETC:DATA:TEL:ETH:COUN:DUAL:FRAM:TXR? 1,P1TOP2
See Also	FETCh:DATA:TELecom:ETH:COUN:FRAM:RX?

:FETCh:DATA:TELecom:ETHernet:COUNt:DUALport:FRAMes:TXRate?

Description	This query returns the frames transmitted for selected traffic stream for dualport.
	At *RST condition, this value is device dependent.
	Navigation Path: Traffic Gen & Mon > Results > Summary > Stream (Pop up) > TX Rate(%).
Syntax	:FETCh:DATA:TELecom:ETHernet:COUNt:DUALport:FRAMes:TXRate? <wsp><Tgen>, <Direction>
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
Response Syntax	<Frame TXRate>
Response(s)	**Frame TXRate**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Total Tx rate value
Example(s)	FETC:DATA:TEL:ETH:COUN:DUAL:FRAM:TX? 1,P1TOP2
See Also	FETCh:DATA:TELecom:ETH:COUN:FRAM:RX?

:FETCh:DATA:TELecom:ETHernet:COUNt:FRAMes:RX?

Description	This query returns the number of frames received.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Stream > RX Frame Count
	Navigation Path: Results > Service Performance > RX Frame Count
Syntax	:FETCh:DATA:TELecom:ETHernet:COUNt:FRAMes:RX? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	**Stream/Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	For Traffic Gen & Mon, selects the stream from 1 to 16.
	For EtherSAM, selects the Service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Framerx>
Response(s)	**Framerx**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the number of flow control pause frames received.
Example(s)	FETC:DATA:TEL:ETH:COUN:FRAM:RX? 2
See Also	SOURce:DATA:TEL:ETH:STR:PAYL

:FETCh:DATA:TELecom:ETHernet:COUNt:FRAMes:TX?

Description	This query returns the frames transmitted for selected traffic stream.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Stream > TX Frame Count
Syntax	:FETCh:DATA:TELecom:ETHernet:COUNt:FRAMes:TX? <wsp><Stream>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream from 1 to 16.
Response Syntax	<Frame TX>
Response(s)	**Frame TX**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the number of flow control pause frames Transmitted.
Example(s)	FETCh:DATA:TEL:ETHernet:COUNt:FRAM:TX? 2
See Also	FETCh:DATA:TELecom:ETH:COUN:FRAM:RX?

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:FLOSs:VERDict?

Description	This query returns the Frame Loss Count/Rate verdict status per direction for dual port.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Service Performace > Frame Loss - Count/Rate - Verdict
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:FLOSs:VERDict? <wsp><Service>, <Type>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service number 1 to 10.
	Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Count/Rate:
	COUNt
	RATE
	Direction:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the port direction:
	P1TOP2: P1 to P2
	P2TOP1: P2 to P1
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the verdict:
	PASS
	FAIL
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:FLOS:VERD? 1, RATE,P1TOP2
See Also	FETCH:DATA:TELecom:ETHernet:STReam:LATency:MAXimum:VERDict? 1

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:JITTer:AVERage?

Description	This query returns the Jitter average value per direction for dual port.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Service Performace > Jitter > Average
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:JITTer:AVERage? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	P1TOP2: P1 to P2
	P2TOP1: P2 to P1
Response Syntax	<Average>
Response(s)	**Average**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the average value.
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:JITT:AVER? 1,P1TOP2
See Also	FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:CURRent?

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:JITTer:CURRent?

Description	This query returns the Jitter current value per direction for dual port.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Service Performace > Jitter > Current
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:JITTer:CURRent? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the port direction:
	P1TOP2: P1 to P2
	P2TOP1: P2 to P1
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the current value.
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:JITT:CURR? 1,P1TOP2
See Also	FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:AVERage?

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:JITTer:ESTimate?

Description	This query returns the Jitter estimated value per direction for dual port.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Service Performace > Jitter > Estimate
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:JITTer:ESTimate? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	P1TOP2: P1 to P2
	P2TOP1: P2 to P1
Response Syntax	<Estimate>
Response(s)	**Estimate**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the estimated value.
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:JITT:EST? 1, P1TOP2
See Also	FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:MAXimum?

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:JITTer:MAXimum:VERDict?

Description	This query returns the Jitter verdict based on maximum value per direction for dual port.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Service Performace > Jitter > Maximum - Verdict
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:JITTer:MAXimum:VERDict? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	P1TOP2: P1 to P2
	P2TOP1: P2 to P1
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the verdict:
	PASS
	FAIL
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:JITT:MAX:VERD? 1,P1TOP2
See Also	FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:CURRent:VERDict? 1

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:JITTer:MAXimum?

Description	This query returns the Jitter maximum value per direction for dual port.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Service Performace > Jitter > Maximum
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:JITTer:MAXimum? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the port direction:
	P1TOP2: P1 to P2
	P2TOP1: P2 to P1
Response Syntax	<Maximum>
Response(s)	**Maximum**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the maximum value.
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:JITT:MAX? 1,P1TOP2
See Also	FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:MINimum?

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:JITTer:MINimum?

Description	This query returns the Jitter minimum value per direction for dual port.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Service Performace > Jitter > Minimum
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:JITTer:MINimum? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the port direction:
	P1TOP2: P1 to P2
	P2TOP1: P2 to P1
Response Syntax	<Minimum>
Response(s)	**Minimum**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the minimum value.
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:JITT:MIN? 1,P1TOP2
See Also	FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:MAXimum?

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:LATency: AVERage?

Description	This query returns the Latency average value per direction for dual port.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Service Performace > Latency > Average
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:LATency:AVERage? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the port direction:
	P1TOP2: P1 to P2
	P2TOP1: P2 to P1
Response Syntax	<Average>
Response(s)	**Average**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the average value.
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:LAT:AVER? 1,P1TOP2
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:SEConds?

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:LATency: CURRent?

Description	This query returns the Latency current value per direction for dual port.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Service Performace > Latency > Current
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:LATency:CURRent? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the port direction:
	P1TOP2: P1 to P2
	P2TOP1: P2 to P1
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the current value.
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:LAT:CURR? 1,P1TOP2
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:COUNt?

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:LATency: MAXimum:VERDict?

Description	This query returns the Latency verdict based on mamimum value per direction for dual port.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Service Performace > Latency > Maximum - Verdict
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:LATency:MAXimum:VERDict? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the port direction:
	P1TOP2: P1 to P2
	P2TOP1: P2 to P1
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the verdict:
	PASS
	FAIL
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:LAT:MAX:VERD? 1,P1TOP2
See Also	FETCh:DATA:TELecom:ETHernet:STReam:FLOSs:VERDict? 1, RATE

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:LATency: MAXimum?

Description	This query returns Latency maximum value per direction for dual port.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Service Performace > Latency > Maximum
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:LATency:MAXimum? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the port direction:
	P1TOP2: P1 to P2
	P2TOP1: P2 to P1
Response Syntax	<Maximum>
Response(s)	**Maximum**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the maximum value.
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:LAT:MAX? 1,P1TOP2
See Also	FETCH:DATA:TELecom:ETHernet:ERRor:SANalyzer:HISTory?

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:LATency: MINimum?

Description	This query returns the Latency minimum value per direction for dual port.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Service Performace > Latency > Minimum
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:LATency:MINimum? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the port direction:
	P1TOP2: P1 to P2
	P2TOP1: P2 to P1
Response Syntax	<Minimum>
Response(s)	**Minimum**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the mimum value.
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:LAT:MIN? 1,P1TOP2
See Also	FETCH:DATA:TELecom:ETHernet:ERRor:SANalyzer:CURRent?

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:OOSequence:VERDict?

Description	This query returns the Out-of-Sequence Count/Rate verdict per direction for dual port.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Service Performace > Out-of-Seq - Count/Rate - Verdict
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:OOSequence:VERDict? <wsp><Service>, <Type>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service number 1 to 10.
	Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Count or Rate:
	COUNt
	RATE
	Direction:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the port direction:
	P1TOP2: P1 to P2
	P2TOP1: P2 to P1
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the verdict:
	PASS
	FAIL
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:OOS:VERD? 1, COUNt,P1TOP2
See Also	FETCH:DATA:TELecom:ETHernet:STReam:THRoughput:AVERage:VERDict? 1

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:THRoughput:AVERage:VERDict?

Description	This query returns RX Rate (%) verdict based on average value per direction for dualport.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Service Performace > RX Rate (%) > Average - Verdict
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:THRoughput:AVERage:VERDict? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the port direction:
	P1TOP2: P1 to P2
	P2TOP1: P2 to P1
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the verdict:
	PASS
	FAIL
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:THR:AVER:VERD? 1,P1TOP2
See Also	FETCh:DATA:TELecom:ETHernet:STReam:OOSequence:VERDict? 1, COUNt

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:THRoughput:AVERage?

Description	This query returns the RX RATE (%) average value per direction for dual port.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Service Performace > RX Rate (%) > Average
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:THRoughput:AVERage? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the port direction.
	P1TOP2: P1 to P2
	P2TOP1: P2 to P1
Response Syntax	<Average>
Response(s)	**Average**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the average value.
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:THR:AVER? 1,P1TOP2
See Also	FETCh:DATA:TELecom:ETHernet:STReam:JITTer:CURRent?

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:THRoughput:CURRent:VERDict?

Description	This query returns the RX Rate (%) verdict based on the current value per direction for dual port.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Service Performance > RX Rate (%) > Current - Verdict
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:THRoughput:CURRent:VERDict? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the port direction:
	P1TOP2: P1 to P2
	P2TOP1: P2 to P1
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the vedict:
	PASS
	FAIL
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:THR:CURR:VERD? 1,P1TOP2
See Also	FETCh:DATA:TELecom:ETHernet:STReam:JITTer:MAXimum:VERDict? 1

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:THRoughput:CURRent?

Description	This query returns the RX Rate (%) current value per direction for dual port.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Service Performace > RX Rate (%) > Current
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:THRoughput:CURRent? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the port direction:
	P1TOP2: P1 to P2
	P2TOP1: P2 to P1
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the current value.
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:THR:CURR? 1,P1TOP2
See Also	FETCh:DATA:TELecom:ETHernet:STReam:JITTer:AVERage?

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:THRoughput:MAXimum?

Description	This query returns the RX Rate (%) maximum value per direction for dual port.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Service Performace > RX Rate (%) > Maximum
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:THRoughput:MAXimum? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the port direction:
	P1TOP2: P1 to P2
	P2TOP1: P2 to P1
Response Syntax	<Maximum>
Response(s)	**Maximum**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the maximum value.
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:THR:MAX? 1,P1TOP2
See Also	FETCh:DATA:TELecom:ETHernet:STReam:JITTer:MINimum?

:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:THRoughput:MINimum?

Description	This query returns the RX Rate (%) minimum value per direction for dual port.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Service Performace > RX Rate (%) > Minimum
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:DUALport:THRoughput:MINimum? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the port direction:
	P1TOP2: P1 to P2
	P2TOP1: P2 to P1
Response Syntax	<Minimum>
Response(s)	**Minimum**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the minimum value.
Example(s)	FETC:DATA:TEL:ETH:STR:DUAL:THR:MIN? 1,P1TOP2
See Also	FETCh:DATA:TELecom:ETHernet:STReam:JITTer:MAXimum?

Summary (1588 PTP (Client))

:FETCh:DATA:TELecom:PACKetsync:PTP:IPDV:VERDict?

Description	This query returns the Inter Packet Delay Variation (IPDV) measurement verdict.(Sync,Delay Request)
	Navigation Path: Results > Summary > Delay Measurement > Sync IPDV
	Navigation Path: Results > Summary > Delay Measurement > Delay Req IPDV
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:IPDV:VERDict? <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Delay measurement parameter.
	SYNCIPDV: Sync IPDV
	DELAYREQIPDV: Delay Req IPDV
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	This query returns Inter Packet Delay Variation (IPDV) verdict.
	PASS, verdict is Pass.
	FAIL, verdict is Fail.
Example(s)	FETC:DATA:TEL:PACK:PTP:IPDV:VERDict? SYNCIPDV
See Also	FETCh:DATA:TELecom:PACKetsync:PTPStat:IPDV:CURRent?

:FETCh:DATA:TELecom:PACKetsync:PTP:QL:LAST:CHANge?

Description	This query returns the Date and Time of the Last QL change.
	At *RST condition, this value is set to Never.
	Navigation Path: Results > Summary > Quality Level > Last Change
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:QL:LAST:CHANge?
Response Syntax	<QLChange>
Response(s)	**QLChange**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Last QL Changed
Example(s)	FETC:DATA:TEL:PACK:PTP:QL:LAST:CHAN?
See Also	FETCh:DATA:TELecom:PACKetsync:PTPStat:IPDV:MINimum?

:FETCh:DATA:TELecom:PACKetsync:PTP:QL:LAST:RECeived?

Description	This query returns the Last QL Received.
	Navigation Path: Results > Summary > Quality Level > Last QL Received
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:QL:LAST:RECeived?
Response Syntax	<QLReceived>
Response(s)	**QLReceived**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Last QL Received.
Example(s)	FETC:DATA:TEL:PACK:PTP:QL:LAST:REC?
See Also	FETCh:DATA:TELecom:PACKetsync:PTPStat:IPDV:AVERage?

Summary (Cable Test)

:FETCh:DATA:TELecom:CABLetest:DELayskew:PAIRresult?

Description	This query returns results of Distance to Fault value for Cable test according to pair No.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > Pairs
Syntax	:FETCh:DATA:TELecom:CABLetest:DELayskew:PAIRresult? <wsp><Pair no>
Parameter(s)	**Pair no**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets pair no. for Dist to Fault value in cable test
Response Syntax	<Result>
Response(s)	**Result**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Dist.to fault value for cable test for Specific Pair.
Example(s)	FETC:DATA:TEL:CABL:DEL:PAIR? 1
See Also	FETCh:DATA:TELecom:ALARm:HISTory?
	FETCh:DATA:TELecom:ALARm:SEConds?

:FETCh:DATA:TELecom:CABLetest:DELayskew:RESult?

Description	This query returns results of Scewdelay for Cable test.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > Cable > Delay Scew(ns)
Syntax	:FETCh:DATA:TELecom:CABLetest:DELayskew:RESult?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Delay skew value for cable test.
Example(s)	FETC:DATA:TEL:CABL:DEL:RES?
See Also	FETCh:DATA:TEL:SDHS:HOP:PM:STAT?

:FETCh:DATA:TELecom:CABLetest:LENGth:PAIRresult?

Description	This query returns results of Length value for Cable test according to pair No.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > Pairs
Syntax	:FETCh:DATA:TELecom:CABLetest:LENGth:PAIRresult? <wsp><Pair no>
Parameter(s)	**Pair no**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets pair no. for length value in cable test
Response Syntax	<Result>
Response(s)	**Result**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Length value for cable test for Specific Pair.
Example(s)	FETC:DATA:TEL:CABL:LENG:PAIR? 1
See Also	FETCh:DATA:TELecom:ERRor:CURRent?
	FETCh:DATA:TELecom:ERRor:SEConds?
	FETCh:DATA:TELecom:ERRor:RATE?
	FETCh:DATA:TELecom:ERRor:COUNT?

:FETCh:DATA:TELecom:CABLetest:LENGth:RESult?

Description	This query returns results of Length for Cable test.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > Cable > Length(m)
Syntax	:FETCh:DATA:TELecom:CABLetest:LENGth:RESult?
Response Syntax	\<Set\>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a \<NR2 NUMERIC RESPONSE DATA\> element.
	Returns the Cable length value for cable test.
Example(s)	FETC:DATA:TEL:CABL:LENG:RES?
See Also	FETCh:DATA:TEL:PATT:PM:STAT?

:FETCh:DATA:TELecom:CABLetest:PAIR:THReshold?

Description	This query returns verdict results for Cable test depending upon values and Pair no.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > Pairs
Syntax	:FETCh:DATA:TELecom:CABLetest:PAIR:THReshold? <wsp><Value>, <Pair no>
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets values for threshold in cable test
	PROPdelay is the maximum time for a pulse to reach the far end
	LENGth is the maximum acceptable cable length
	DISTTOFAULT is the distance to fault from the near end for each pair
	Pair no:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets pair no. for threshold in cable test.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the threshold verdict values of cable test according to pair no and values
	Pass, Pass is return as threshold value.
	Fail, Fail return as threshold value.
	None,None return as threshold value.
Example(s)	FETC:DATA:TEL:CABL:PAIR:THR? PROPdelay,1
See Also	SOURce:DATA:TEL:SDHSonet:HOP:POINter:NEW

:FETCh:DATA:TELecom:CABLetest:PROPdelay:PAIRresult?

Description	This query returns results of Propagation Delay value for Cable test according to pair No.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > Pairs
Syntax	:FETCh:DATA:TELecom:CABLetest:PROPdelay:PAIRresult? <wsp><Pair no>
Parameter(s)	**Pair no**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets pair no. for Prop.delay value in cable test
Response Syntax	<Result>
Response(s)	**Result**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Prop.Delay value for cable test for Specific Pair.
Example(s)	FETC:DATA:TEL:CABL:PROP:PAIR? 1
See Also	FETCh:DATA:TELecom:ALARm:HISTory?
	FETCh:DATA:TELecom:ALARm:CURRent?

:FETCh:DATA:TELecom:CABLetest:PROPdelay:RESult?

Description	This query returns results of Propagation delay for Cable test.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > Cable > Prop. Delay(ns)
Syntax	:FETCh:DATA:TELecom:CABLetest:PROPdelay:RESult?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Propagation Delay value for cable test.
Example(s)	FETC:DATA:TEL:CABL:PROP:RES?
See Also	FETCh:DATA:TEL:SON:SECTion:PM:STAT?

:FETCh:DATA:TELecom:CABLetest:THReshold?

Description	This query returns verdict results for Cable test depending upon values.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > cable
Syntax	:FETCh:DATA:TELecom:CABLetest:THReshold? <wsp><Value>
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets values for threshold in cable test
	WIRemap is the pair having the worst Wire Map
	PROPdelay is the maximum time for a pulse to reach the far end
	LENGth is the maximum acceptable cable length
	DELAYSKEW is the delay skew value for the pair having the worst delay skew
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the threshold Values of cable test according to values.
	Pass, Pass is return as threshold value.
	Fail, Fail return as threshold value.
	None,None return as threshold value.
Example(s)	FETC:DATA:TEL:CABL:THR? PROPdelay
See Also	FETCh:DATA:TELecom:SDHS:ADV:APS:K[1..n]:DNODe?

:FETCh:DATA:TELecom:CABLetest:WIRemap:PAIRresult?

Description	This query returns results of wiremap value for Cable test according to pair No.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > Pairs
Syntax	:FETCh:DATA:TELecom:CABLetest:WIRemap:PAIRresult? <wsp><Pair no>
Parameter(s)	**Pair no**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets pair no. for Wire map value in cable test
Response Syntax	<Result>
Response(s)	**Result**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Wire Map value for cable test for Specific Pair.
Example(s)	FETC:DATA:TEL:CABL:WIR:PAIR? 1
See Also	FETCh:DATA:TELecom:ALARm:CURRent?
	FETCh:DATA:TELecom:ALARm:SEConds?

:FETCh:DATA:TELecom:CABLetest:WIRemap:RESult?

Description	This query returns results of wiremap for Cable test.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > Cable > Wire Map
Syntax	:FETCh:DATA:TELecom:CABLetest:WIRemap:RESult?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Wire Map value for cable test.
Example(s)	FETC:DATA:TEL:CABL:WIR:RES?
See Also	FETCh:DATA:TELecom:MDIO:BULK:READ:INFormation?

Summary (EtherSAM)

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:VERDict?

Description	This query returns Service CONFig test Verdict
	Navigation Path: Setup > EtherSAM > Results > Service CONFig Test
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:VERDict? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Verdict
	PASS, verdict is Pass.
	FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:VERDict? 1, LTOR
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:ADD

:FETCh:DATA:TELecom:ETHernet:ESAM:SPRTest:VERDict?

Description

This query returns Service performance test Verdict

Navigation Path: Navigation Path: Setup > EtherSAM > Results > Service Performance Test

Syntax

:FETCh:DATA:TELecom:ETHernet:ESAM:SPRTest:VERDict? <wsp><Service>, <Direction>

Parameter(s)

Service:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Direction:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the Direction.

(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)

LTORemote: Local to Remote

RTOLocal: Remote to Local

P1TOP2: P1 -TO-P2

P2TOP1: P2 -TO-P1

Response Syntax

<Verdict>

Response(s)

Verdict:

The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.

Returns the Verdict

PASS, verdict is Pass.

FAIL, verdict is Fail.

Example(s)

FETCh:DATA:TELecom:ETHernet:ESAM:SPRTest:VERDict? 1, LTOR

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:DELete

:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:FLOSs:VERDict?

Description	This query returns the Frame Loss verdict status.
	Navigation Path: Setup > EtherSAM > Results > Summary > Service Configuration Test > Service Configuration Test > Committed > Frame Loss(%)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:FLOSs:VERDict? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Frame Loss verdict status.
	PASS, verdict is Pass.
	FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:FLOSs:VERDict? 1, LTOR
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRT:FLOSs:VERDict?

:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:FLOSs?

Description	This query returns the percentage of frames that are lost. Navigation Path: Setup > EtherSAM > Results > Summary > Service Configuration Test > Service Configuration Test > Committed > Frame Loss(%)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:FLOSs? <wsp><Service>, <Direction>
Parameter(s)	**Service**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. **Direction**: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1
Response Syntax	<Frame Loss>
Response(s)	**Frame Loss**: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns frame loss percentage
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:FLOSs? 1, LTOR
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRT:FLOSs?

:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MAXJitter:VERDict?

Description	This query returns Max Jitter verdict status.
	Navigation Path: Setup > EtherSAM > Results > Summary > Service Configuration Test > Service Configuration Test > Committed > Max Jitter(ms)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MAXJitter:VERDict? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Max Jitter verdict status.
	PASS, verdict is Pass.
	FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MAXJitter:VERDict? 1, LTOR
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRT:MAXJitter:VERDict?

:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MAXJitter?

Description	This query returns maximum measured delay variation.
	Navigation Path: Setup > EtherSAM > Results > Summary > Service Configuration Test > Service Configuration Test > Committed > Max Jitter(ms)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MAXJitter? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
Response Syntax	<Max Jitter>
Response(s)	**Max Jitter**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns Max Jitter
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MAXJitter? 1, LTOR
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRT:MAXJitter?

:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MLATency:VERDict?

Description	This query returns Max Latency verdict status. Navigation Path: Setup > EtherSAM > Results > Summary > Service Configuration Test > Service Configuration Test > Committed > Max Latency(ms)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MLATency:VERDict? <wsp><Service>, <Direction>
Parameter(s)	**Service**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. **Direction**: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1
Response Syntax	<Verdict>
Response(s)	**Verdict**: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Max Latency verdict status. PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MLATency:VERDict? 1, LTOR
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRT:MLATency:VERDict?

:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MLATency?

Description	This query returns maximum measured round trip latency (delay).
	Navigation Path: Setup > EtherSAM > Results > Summary > Service Configuration Test > Service Configuration Test > Committed > Max Latency(ms)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MLATency? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
Response Syntax	<Max Latency>
Response(s)	**Max Latency**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns Max Latency
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MLATency? 1, LTOR
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRT:MLATency?

:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MRXRate:VERDict?

Description	This query returns Max Rx Rate verdict.
	Navigation Path: Setup > EtherSAM > Results > Summary > Service Configuration Test > Service Configuration Test > Committed > Max RX Rate(%)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MRXRate:VERDict? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Max Rx Rate verdict status.
	PASS, verdict is Pass.
	FAIL, verdict is Fail.
Example(s)	FETCH:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MRXR:VERDict? 1, LTOR
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRT:ARXRate:VERDict?

:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MRXRate?

Description	This query returns measured maximum utilization throughput. Navigation Path: Setup > EtherSAM > Results > Summary > Service Configuration Test > Service Configuration Test > Excess > Max RX Rate(%)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MRXRate? <wsp><Service>, <Direction>
Parameter(s)	**Service**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. **Direction**: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 P2TOP1: P2 -TO-P1
Response Syntax	<Max Rx Rate>
Response(s)	**Max Rx Rate**: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns Max Rx Rate
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MRXR? 1, LTOR
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRT:ARXRate?

:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SERVices:VLAN:PREServ?

Description	This query returns the Virtual Local Area Network (VLAN) preservation status for service.
	At *RST condition, this value is set to UNDEFINED.
	Navigation Path: Setup > EtherSAM > Results > Summary > Service Performance Test > Service
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SERVices:VLAN:PREServ? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the direction.
	- For DTS use both LTOR and RTOL as direction and for non-DTS use LTOR as direction:
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	- For Dual Port use P1TOP2 and P2TOP1:
	P1TOP2: P1-to-P2 for dual port topology
	P2TOP1: P2-to-P1 for dual port topology.
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns VLAN preservation status.
Example(s)	FETC:DATA:TEL:ETH:ESAM:SUMM:SERV:VLAN:PRES? 1, LTOR
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:BURSt:PARameters:BIRFrame?

:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRTest:ARXRate:VERDict?

Description	This query returns Avg. Rx Verdict.
	Navigation Path: Setup > EtherSAM > Results > Summary > Service Performance Test > Service Performance Test > Committed > Avg RX Rate(%)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRTest:ARXRate:VERDict? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction and For Non DTS use LTOR as direction.In case of Dual Port Use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2 for dual port topology
	P2TOP1: P2 -TO-P1 for dual port topology.
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Avg Rx Rate verdict status.
	PASS, verdict is Pass.
	FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRT:ARXRate:VERDict? 1, LTOR
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MRXR:VERDict?

:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRTest:ARXRate?

Description	This query returns the average utilization throughput. Navigation Path: Setup > EtherSAM > Results > Summary > Service Performance Test > Service Performance Test > Committed > Avg RX Rate(%)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRTest:ARXRate? <wsp><Service>, <Direction>
Parameter(s)	**Service**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the Service number 1 or 10. **Direction**: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Direction. (For DTS used both LTOR and RTOL as direction and For Non DTS use LTOR as direction.In case of Dual Port Use P1TOP2 and P2TOP1) LTORemote: Local to Remote RTOLocal: Remote to Local P1TOP2: P1 -TO-P2 for dual port topology P2TOP1: P2 -TO-P1 for dual port topology.
Response Syntax	<Avg Rx Rate>
Response(s)	**Avg Rx Rate**: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns Average Rx Rate
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRT:ARXRate? 1, LTOR
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MRXR?

:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRTest:FLOSs:VERDict?

Description	This query returns the percentage of Frame Loss verdict.
	Navigation Path: Setup > EtherSAM > Results > Summary > Service Performance Test > Service Performance Test > Committed > Frame Loss(%)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRTest:FLOSs:VERDict? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction and For Non DTS use LTOR as direction.In case of Dual Port Use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2 for dual port topology
	P2TOP1: P2 -TO-P1 for dual port topology.
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Frame Loss verdict status.
	PASS, verdict is Pass.
	FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRT:FLOSs:VERDict? 1, LTOR
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:FLOSs:VERDict?

:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRTest:FLOSs?

Description	This query returns the percentage of frames that are lost.
	Navigation Path: Setup > EtherSAM > Results > Summary > Service Performance Test > Service Performance Test > Excess > Frame Loss(%)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRTest:FLOSs? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction and For Non DTS use LTOR as direction.In case of Dual Port Use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2 for dual port topology
	P2TOP1: P2 -TO-P1 for dual port topology.
Response Syntax	<Frame Loss>
Response(s)	**Frame Loss**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns frame loss percentage
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRT:FLOSs? 1, LTOR
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:FLOSs?

:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRTest:MAXJitter:VERDict?

Description	This query returns the Max Jitter verdict.
	Navigation Path: Setup > EtherSAM > Results > Summary > Service Performance Test > Service Performance Test > Committed > Max Jitter(ms)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRTest:MAXJitter:VERDict? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction and For Non DTS use LTOR as direction.In case of Dual Port Use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2 for dual port topology
	P2TOP1: P2 -TO-P1 for dual port topology.
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Max Jitter verdict status.
	PASS, verdict is Pass.
	FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRT:MAXJitter:VERDict? 1, LTOR
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MAXJitter:VERDict?

:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRTest:MAXJitter?

Description	This query returns the maximum measured delay variation.
	Navigation Path: Setup > EtherSAM > Results > Summary > Service Performance Test > Service Performance Test > Committed > Max Jitter(ms)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRTest:MAXJitter? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction and For Non DTS use LTOR as direction.In case of Dual Port Use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2 for dual port topology
	P2TOP1: P2 -TO-P1 for dual port topology.
Response Syntax	<Max Jitter>
Response(s)	**Max Jitter**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns Max Jitter
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRT:MAXJitter? 1, LTOR
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MAXJitter?

:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRTest:MLATency:VERDict?

Description	This query returns the Max Latency verdict.
	Navigation Path: Setup > EtherSAM > Results > Summary > Service Performance Test > Service Performance Test > Committed > Max Latency(ms)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRTest:MLATency:VERDict? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction and For Non DTS use LTOR as direction.In case of Dual Port Use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2 for dual port topology
	P2TOP1: P2 -TO-P1 for dual port topology.
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Max Latency verdict status.
	PASS, verdict is Pass.
	FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRT:MLATency:VERDict? 1, LTOR
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MLATency:VERDict?

:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRTest:MLATency?

Description	This query returns the maximum measured round trip latency (delay).
	Navigation Path: Setup > EtherSAM > Results > Summary > Service Performance Test > Service Performance Test > Committed > Max Latency(ms)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRTest:MLATency? <wsp><Service>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction and For Non DTS use LTOR as direction.In case of Dual Port Use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2 for dual port topology
	P2TOP1: P2 -TO-P1 for dual port topology.
Response Syntax	<Max Latency>
Response(s)	**Max Latency**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns Max Latency
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SPRT:MLATency? 1, LTOR
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:SCOTest:MLATency?

:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:VLAN:PREServ?

Description	This query returns the Virtual Local Area Network (VLAN) preservation status.
	At *RST condition, this value is set to UNDEFINED.
	Navigation Path: Setup > EtherSAM > Results > Summary > Service Performance Test > Vlan Preservation
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:VLAN:PREServ?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns VLAN preservation status.
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SUMMary:VLAN:PREServ?
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:BURSt:PARameters:BIRFrame?

:FETCh:DATA:TELecom:ETHernet:ESAM:TESTs:STATus?

Description	This query returns Service CONFig and Service performance test status
	Navigation Path: Setup > EtherSAM > Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:TESTs:STATus? <wsp><Direction>, <Test>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Test:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of EtherSAM sub-tests.
	SCONTest: the Service CONFig Test
	SPERTest: the Service performance Test
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Status.
Example(s)	FETC:DATA:TELecom:ETHernet:ESAM:TESTs:STATus? LTOR,SCONTest
See Also	FETCH:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:FLOSs:VERDict?

:FETCh:DATA:TELecom:ETHernet:ESAM:TESTs:VERDict?

Description	This query returns Service CONFig and Service performance test Verdict
	Navigation Path: Setup > EtherSAM > Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:TESTs:VERDict? <wsp><Direction>, <Test>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Test:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of EtherSAM sub-tests.
	SCONTest: the Service CONFig Test
	SPERTest: the Service performance Test
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Verdict
	PASS, verdict is Pass.
	FAIL, verdict is Fail.
Example(s)	FETC:DATA:TELecom:ETHernet:ESAM:TESTs:VERDict? LTOR,SCONTest
See Also	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:SERVices:FRASize:QUANtity
	SOURce:DATA:TELecom:ETHernet:ESAM: CONFig:SERVices:FRASize:QUANtity?

Summary (RFC 2544)

:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:BBResults[1. .n]?

Description	This query returns the number of frames for the corresponding direction depending on the selected Layer and Displayed Results.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > table - Back-to-Back
	NOTE: For BBResults[1..n], use BBR1 to BBR10 corresponding to the frame number.
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:BBResults[1..n]? <wsp><Direction>, <Results>, <Layers>

:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:BBResults[1.

.n]?

Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the direction.
	(For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1)
	TX2RX: TX-to-RX (TX2RX) for single port topology.
	LTORemote: Local-to-Remote direction.
	RTOLocal: Remote-to-Local direction.
	P1TOP2: P1 -TO-P2.
	P2TOP1: P2 -TO-P1.
	Results:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the result mode.
	CURRent
	RMINimum
	RMAXimum
	AVERage
	Layers:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the layers used to calculate the back-to-back test.
	ETHernet: ETHERNET as layer used to calculate the back-to-back test.
	IP: IP
	ALL, All layer
Response Syntax	<Results>

:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:BBResults[1..n]?

Response(s)	**Results**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the back-to-back results.
	TX2RX, returns TX-to-RX (TX2RX) for single port topology.
Example(s)	FETC:DATA:TEL:ETH:RFC:BCKT:BBR1? TX2RX,CURR,ALL
See Also	FETCH:DATA:TELecom:ETHernet:RFC:BCKTobck:CTRial?

:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:CTRial?

Description	This query returns the current trial number for the Back-to-Back test. Only available when the Back-to-Back test is running.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:CTRial?
Response Syntax	<Number>
Response(s)	**Number**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the current trial number for the test.
Example(s)	FETC:DATA:TEL:ETH:RFC:BCKT:CTR?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:CTRial?

:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:FCOunt:RX?

Description	This query returns the number of received frames for the indicated direction.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:FCOunt:RX? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the direction.
	(For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1)
	TX2RX: TX-to-RX (TX2RX) for single port topology.
	LTORemote: Local-to-Remote direction.
	RTOLocal: Remote-to-Local direction.
	P1TOP2: P1 -TO-P2.
	P2TOP1: P2 -TO-P1.
Response Syntax	<Fcount>
Response(s)	**Fcount**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the number of received frames for the indicated direction.
Example(s)	FETC:DATA:TEL:ETH:RFC:BCKT:FCO:RX? TX2RX
See Also	FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:FCOunt:TX?

:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:FCOunt:TX?

Description	This query returns the number of transmitted frames for the indicated direction.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:FCOunt:TX? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the direction.
	(For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1)
	TX2RX: TX-to-RX (TX2RX) for single port topology.
	LTORemote: Local-to-Remote direction.
	RTOLocal: Remote-to-Local direction.
	P1TOP2: P1 -TO-P2.
	P2TOP1: P2 -TO-P1.
Response Syntax	<Fcount>
Response(s)	**Fcount**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the number of transmitted frames for the indicated direction.
Example(s)	FETC:DATA:TEL:ETH:RFC:BCKT:FCO:TX? TX2RX
See Also	FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:FCOunt:RX?

:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:SMESsage?

Description	This query returns the back-to-back test status messages.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:SMESsage?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the test status.
	NONE, None is retrieved.
	INITIALIZING, Initializing is retrieved.
	WAITING, Waiting is retrieved.
	NMEASURABLE, Not Measurable is retrieved.
	SLFRAMES, Sending Learning Frames is retrieved.
	STFRAMES, Sending Test Frames is retrieved.
	ABUSER, Aborted by User is retrieved.
	LDOWN, Link Down is retrieved.
	ALRCONNECTION, Aborted - Loss of Remote Connection is retrieved.
	MANRESOLVED, MAC Address Not Resolved is retrieved.
Example(s)	FETC:DATA:TEL:ETH:RFC:BCKT:SMES?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:SMESsage?

:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:TETime?

Description	This query returns the elapsed time for the back-to-back subtest.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:TETime?
Response Syntax	<Time>
Response(s)	**Time**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the elapsed time.
Example(s)	FETC:DATA:TEL:ETH:RFC:BCKT:TET?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:TETime?

:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:TSTate?

Description	This query returns the back-to-back test state.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:TSTate?
Response Syntax	<State>
Response(s)	**State**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the test state.
	--, indicates that the test has not run yet.
	INPROGRESS, indicates that the test is running.
	COMPLETED, indicates that the test is completed.
	ABORTED, indicates that the test has been interrupted (stopped).
	INACTIVE, indicates that the test is inactive.
	FAILED, indicates that the test has been failed.
Example(s)	FETC:DATA:TEL:ETH:RFC:BCKT:TST?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:TSTate?

:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:CSTep?

Description	This query returns the current percentage of the testing rate.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:CSTep?
Response Syntax	<Step>
Response(s)	**Step**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the current percentage of the testing rate.
Example(s)	FETC:DATA:TEL:ETH:RFC:FLOS:CST?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:CTRial?

:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:CTRial?

Description	This query returns the current trial number for the Frame Loss test. Only available when the Frame Loss test is running.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:CTRial?
Response Syntax	<Number>
Response(s)	**Number**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the current trial number for the test.
Example(s)	FETC:DATA:TEL:ETH:RFC:FLOS:CTR?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:CTRial?

:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:FCOunt:RX?

Description	This query returns the number of received frames for the indicated direction.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:FCOunt:RX? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the direction.
	(For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1)
	TX2RX: TX-to-RX (TX2RX) for single port topology.
	LTORemote: Local-to-Remote direction.
	RTOLocal: Remote-to-Local direction.
	P1TOP2: P1 -TO-P2.
	P2TOP1: P2 -TO-P1.
Response Syntax	<Fcount>
Response(s)	**Fcount**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the number of received frames for the indicated direction.
Example(s)	FETC:DATA:TEL:ETH:RFC:FLOS:FCO:RX? TX2RX
See Also	FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:FCOunt:TX?

:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:FCOunt:TX?

Description	This query returns the number of transmitted frames for the indicated direction.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:FCOunt:TX? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the direction.
	(For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1)
	TX2RX: TX-to-RX (TX2RX) for single port topology.
	LTORemote: Local-to-Remote direction.
	RTOLocal: Remote-to-Local direction.
	P1TOP2: P1 -TO-P2.
	P2TOP1: P2 -TO-P1.
Response Syntax	<Fcount>
Response(s)	**Fcount**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the number of transmitted frames for the indicated direction.
Example(s)	FETC:DATA:TEL:ETH:RFC:FLOS:FCO:TX? TX2RX
See Also	FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:FCOunt:RX?

:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:FRESults[1..n]?

Description	This query returns the number of frames for the corresponding direction depending on the selected Displayed Step and Displayed Results.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > table - Frame Loss
	NOTE: For FRESults[1..n], use FRES1 to FRES10 corresponding to the frame number.
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:FRESults[1..n]? <wsp><Direction>, <Results>, <Step>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the direction.
	(For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1)
	TX2RX: TX-to-RX (TX2RX) for single port topology.
	LTORemote: Local-to-Remote direction.
	RTOLocal: Remote-to-Local direction.
	P1TOP2: P1 -TO-P2.
	P2TOP1: P2 -TO-P1.
	Results:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the result mode.
	CURRent
	RMINimum
	RMAXimum
	AVERage
	Step:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the current percentage of the testing rate.
Response Syntax	<Results>

:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:FRESults[1..n]?

Response(s)	**Results**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Frame Loss results.
Example(s)	FETC:DATA:TEL:ETH:RFC:FLOS:FRES1? TX2RX,CURR,90.000
See Also	FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:TRESults[1..n]?

:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:SMESsage?

Description	This query returns the Frame Loss test status messages.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:SMESsage?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Frame Loss test status.
	NONE, None is retrieved.
	INITIALIZING, Initializing is retrieved.
	WAITING, Waiting is retrieved.
	NMEASURABLE, Not Measurable is retrieved.
	SLFRAMES, Sending Learning Frames is retrieved.
	STFRAMES, Sending Test Frames is retrieved.
	ABUSER, Aborted by User is retrieved.
	LDOWN, Link Down is retrieved.
	ALRCONNECTION, Aborted - Loss of Remote Connection is retrieved.
	MANRESOLVED, MAC Address Not Resolved is retrieved.
Example(s)	FETC:DATA:TEL:ETH:RFC:FLOS:SMES?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:SMESsage?

:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:TETime?

Description	This query returns the elapsed time for the Frame Loss subtest.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:TETime?
Response Syntax	\<Time\>
Response(s)	**Time**:
	The response data syntax for the first parameter is defined as a \<STRING RESPONSE DATA\> element.
	Returns the elapsed time.
Example(s)	FETC:DATA:TEL:ETH:RFC:FLOS:TET?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:TETime?

:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:TSTate?

Description	This query returns the Frame Loss test state.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:TSTate?
Response Syntax	<State>
Response(s)	**State**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Frame Loss test state.
	--, indicates that the test has not run yet.
	INPROGRESS, indicates that the test is running.
	COMPLETED, indicates that the test is completed.
	ABORTED, indicates that the test has been interrupted (stopped).
	INACTIVE, indicates that the test is inactive.
	FAILED, indicates that the test has been failed.
Example(s)	FETC:DATA:TEL:ETH:RFC:FLOS:TST?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:TSTate?

:FETCh:DATA:TELecom:ETHernet:RFC:GLOBal:THReshold:VERDict?

Description	This query returns verdict status.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:GLOBal:THReshold:VERDict? <wsp><VALue>
Parameter(s)	**VALue**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Subtests
	THRoughput, select Throughput test
	BTBack, select Back-to-Back Test
	FLOSs: Frame Loss Test
	LATency: Latency test
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the verdict status.
	None, returns test is pending
	Pass, returns test is pass
	Fail, returns test is fail
Example(s)	FETC:DATA:TEL:ETH:RFC:GLOBal:THReshold:VERDict? THR
See Also	FETCh:DATA:TEL:SON:LINE:PM:STAT?

:FETCh:DATA:TELecom:ETHernet:RFC:LATency:CTRial?

Description	This query returns the current trial number for the Latency test. Only available when the Latency test is running.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:LATency:CTRial?
Response Syntax	<Number>
Response(s)	**Number**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the current trial number for the test.
Example(s)	FETC:DATA:TEL:ETH:RFC:LAT:CTR?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:CTRial?

:FETCh:DATA:TELecom:ETHernet:RFC:LATency:FCOunt:RX?

Description	This query returns the number of received frames for the indicated direction.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:LATency:FCOunt:RX? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the direction.
	(For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1)
	TX2RX: TX-to-RX (TX2RX) for single port topology.
	LTORemote: Local-to-Remote direction.
	RTOLocal: Remote-to-Local direction.
	P1TOP2: P1 -TO-P2.
	P2TOP1: P2 -TO-P1.
Response Syntax	<Fcount>
Response(s)	**Fcount**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the number of received frames for the indicated direction.
Example(s)	FETC:DATA:TEL:ETH:RFC:LAT:FCO:RX? TX2RX
See Also	FETCh:DATA:TELecom:ETHernet:RFC:LATency:FCOunt:TX?

:FETCh:DATA:TELecom:ETHernet:RFC:LATency:FCOunt:TX?

Description	This query returns the number of transmitted frames for the indicated direction.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:LATency:FCOunt:TX? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the direction.
	(For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1)
	TX2RX: TX-to-RX (TX2RX) for single port topology.
	LTORemote: Local-to-Remote direction.
	RTOLocal: Remote-to-Local direction.
	P1TOP2: P1 -TO-P2.
	P2TOP1: P2 -TO-P1.
Response Syntax	<Fcount>
Response(s)	**Fcount**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the number of transmitted frames for the indicated direction.
Example(s)	FETC:DATA:TEL:ETH:RFC:LAT:FCO:TX? TX2RX
See Also	FETCh:DATA:TELecom:ETHernet:RFC:LATency:FCOunt:RX?

:FETCh:DATA:TELecom:ETHernet:RFC:LATency:LRESults[1..n] ?

Description	This query returns the number of frames for the corresponding direction depending on the selected Mode and Displayed Results.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > table - Latency (per frame)
	NOTE: For LRESults[1..n], use LRES1 to LRES10 corresponding to the frame number.
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:LATency:LRESults[1..n]? <wsp><Direction>, <Results>, <Mode>

:FETCh:DATA:TELecom:ETHernet:RFC:LATency:LRESults[1..n]?

Parameter(s)	**Direction**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction. (For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1) TX2RX: TX-to-RX (TX2RX) for single port topology. LTORemote: Local-to-Remote direction. RTOLocal: Remote-to-Local direction. P1TOP2: P1 -TO-P2. P2TOP1: P2 -TO-P1. **Results**: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the result mode. CURRent RMINimum RMAXimum AVERage **Mode**: The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the propagation time mode. SFORward: Store and Forward (SFORward), which allows the calculation of the propagation time of a frame. CTHRough: Cut Through (CTHRough), which allows the calculation of the propagation time of a bit.
Response Syntax	<Results>

:FETCh:DATA:TELecom:ETHernet:RFC:LATency:LRESults[1..n]?

Response(s)	**Results**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Latency results.
Example(s)	FETC:DATA:TEL:ETH:RFC:LAT:LRES1? TX2RX,CURR,CTHR
See Also	FETCh:DATA:TELecom:ETHernet:RFC:THroughput:TRESults[1..n]?

:FETCh:DATA:TELecom:ETHernet:RFC:LATency:SMESsage?

Description	This query returns the latency test status messages.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:LATency:SMESsage?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the latency test status.
	NONE, None is retrieved.
	INITIALIZING, Initializing is retrieved.
	WAITING, Waiting is retrieved.
	NMEASURABLE, Not Measurable is retrieved.
	SLFRAMES, Sending Learning Frames is retrieved.
	STFRAMES, Sending Test Frames is retrieved.
	ABUSER, Aborted by User is retrieved.
	LDOWN, Link Down is retrieved.
	ALRCONNECTION, Aborted - Loss of Remote Connection is retrieved.
	MANRESOLVED, MAC Address Not Resolved is retrieved.
Example(s)	FETC:DATA:TEL:ETH:RFC:LAT:SMES?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:SMESsage?

:FETCh:DATA:TELecom:ETHernet:RFC:LATency:TETime?

Description	This query returns the elapsed time for the Latency subtest.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:LATency:TETime?
Response Syntax	<Time>
Response(s)	**Time**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the elapsed time.
Example(s)	FETC:DATA:TEL:ETH:RFC:LAT:TET?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:TETime?

:FETCh:DATA:TELecom:ETHernet:RFC:LATency:TSTate?

Description	This query returns the latency test state.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:LATency:TSTate?
Response Syntax	<State>
Response(s)	**State**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the latency test state.
	--, indicates that the test has not run yet.
	INPROGRESS, indicates that the test is running.
	COMPLETED, indicates that the test is completed.
	ABORTED, indicates that the test has been interrupted (stopped).
	INACTIVE, indicates that the test is inactive.
	FAILED, indicates that the test has been failed.
Example(s)	FETC:DATA:TEL:ETH:RFC:LAT:TST?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:TSTate?

:FETCh:DATA:TELecom:ETHernet:RFC:SUMMary:THReshold:VERDict?

Description	This query returns verdict status depends upon test and frame size.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:SUMMary:THReshold:VERDict? <wsp><VALue>, <Fsize>
Parameter(s)	**VALue**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Subtests
	THRoughput, select Throughput test
	BTBack, select Back-to-Back Test
	FLOSs: Frame Loss Test
	LATency: Latency test
	Fsize:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Frame Size
	F64: 64
	F128to255: 128
	F256to511: 256
	F512to1023: 512
	F1024to1518: 1024
	F12804tof1517: 1280
	F1518: 1518
Response Syntax	<Status>

:FETCh:DATA:TELecom:ETHernet:RFC:SUMMary:THReshold:VERDict?

Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the verdict status.
	None, returns test is pending
	Pass, returns test is pass
	Fail, returns test is fail
Example(s)	FETC:DATA:TEL:ETH:RFC:SUMM:THR:VERD? THR,F1518
See Also	FETCh:DATA:TEL:SON:LINE:PM:STAT?

:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:CTRial?

Description	This query returns the current trial number for the Throughput test. Only available when the Throughput test is running.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:CTRial?
Response Syntax	<Number>
Response(s)	**Number**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the current trial number.
Example(s)	FETC:DATA:TEL:ETH:RFC:THR:CTR?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:CTRial?

:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:FCOunt:RX?

Description	This query returns the number of received frames for the indicated direction. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:FCOunt:RX? <wsp><Direction>
Parameter(s)	**Direction**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the direction. (For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1) TX2RX: TX-to-RX (TX2RX) for single port topology. LTORemote: Local-to-Remote direction. RTOLocal: Remote-to-Local direction. P1TOP2: P1 -TO-P2. P2TOP1: P2 -TO-P1.
Response Syntax	<Fcount>
Response(s)	**Fcount**: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the number of received frames for the indicated direction.
Example(s)	FETC:DATA:TEL:ETH:RFC:THR:FCO:RX? TX2RX
See Also	FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:FCOunt:TX?

:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:FCOunt:TX?

Description	This query returns the number of transmitted frames for the indicated direction.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:FCOunt:TX? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the direction.
	(For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1)
	TX2RX: TX-to-RX (TX2RX) for single port topology.
	LTORemote: Local-to-Remote direction.
	RTOLocal: Remote-to-Local direction.
	P1TOP2: P1 -TO-P2.
	P2TOP1: P2 -TO-P1.
Response Syntax	<Fcount>
Response(s)	**Fcount**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the number of transmitted frames for the indicated direction.
Example(s)	FETC:DATA:TEL:ETH:RFC:THR:FCO:TX? TX2RX
See Also	FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:FCOunt:RX?

:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:SMESsage?

Description	This query returns the throughput test status messages.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:SMESsage?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the throughput test status messages.
	NONE, None is retrieved.
	INITIALIZING, Initializing is retrieved.
	WAITING, Waiting is retrieved.
	NMEASURABLE, Not Measurable is retrieved.
	SLFRAMES, Sending Learning Frames is retrieved.
	STFRAMES, Sending Test Frames is retrieved.
	ABUSER, Aborted by User is retrieved.
	LDOWN, Link Down is retrieved.
	ALRCONNECTION, Aborted - Loss of Remote Connection is retrieved.
	MANRESOLVED, MAC Address Not Resolved is retrieved.
Example(s)	FETC:DATA:TEL:ETH:RFC:THR:SMES?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:SMESsage?

:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:TETime?

Description	This query returns the elapsed time for the throughput subtest.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:TETime?
Response Syntax	<Time>
Response(s)	**Time**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the elapsed time.
Example(s)	FETC:DATA:TEL:ETH:RFC:THR:TET?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:TETime?

:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:TRESults[1..n]?

Description	This query returns the number of frames for the corresponding direction depending on the selected Layer and Displayed Results.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > table - Throughput
	NOTE: For TRESults[1..n], use TRES1 to TRES10 corresponding to the frame number.
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:TRESults[1..n]? <wsp><Direction>, <Results>, <Layers>

:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:TRESults[1..n]?

Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the direction.
	(For DTS used LTOR and RTOL as direction, for single port use TX2RX as direction and for Dual port topology use P1TOP2 and P2TOP1)
	TX2RX: TX-to-RX (TX2RX) for single port topology.
	LTORemote: Local-to-Remote direction.
	RTOLocal: Remote-to-Local direction.
	P1TOP2: P1 -TO-P2.
	P2TOP1: P2 -TO-P1.
	Results:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the result mode.
	CURRent
	RMINimum
	RMAXimum
	AVERage
	Layers:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the layer:
	ETHernet: Ethernet
	IP
	ALL: All layer
Response Syntax	<Results>

:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:TRESults[1..n]?

Response(s)	**Results**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Throughput results.
Example(s)	FETC:DATA:TEL:ETH:RFC:THR:TRES1? TX2RX,CURR,ALL
See Also	FETCh:DATA:TELecom:ETHernet:RFC:FLOSs:FRESults[1..n]?

:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:TSTate?

Description	This query returns the throughput test state.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:TSTate?
Response Syntax	<State>
Response(s)	**State**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the throughput test state.
	--, indicates that the test has not run yet.
	INPROGRESS, indicates that the test is running.
	COMPLETED, indicates that the test is completed.
	ABORTED, indicates that the test has been interrupted (stopped).
	INACTIVE, indicates that the test is inactive.
	FAILED, indicates that the test has been failed.
Example(s)	FETC:DATA:TEL:ETH:RFC:THR:TST?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:BCKTobck:TSTate?

:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:VALidation?

Description	This query returns the number of times the result should be validated.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Summary > Val. #
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:THRoughput:VALidation?
Response Syntax	<Current validation>
Response(s)	**Current validation**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of times the result should be validated.
Example(s)	FETC:DATA:TEL:ETH:RFC:THR:VAL?
See Also	FETCh:DATA:TELecom:ETHernet:RFC:LATency:MINTime?

Summary (SyncE)

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:FRAMes:AVERage?

Description	This query returns the ESMC Average frame/s.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test App > SyncE > Results > Summary > ESMC - Port 1 > Avrage frame/s
Syntax	:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:FRAMes:AVERage?
Response Syntax	<Frames>
Response(s)	**Frames**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns ESMC Average frame/s.
Example(s)	SENS:DATA:TEL:PACK:SYNC:ESMC:FRAM:AVER?
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:FRAMes:MINimum?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:FRAMes:MAXimum?

Description	This query returns the ESMC Maximum frame/s
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test App > SyncE > Results > Summary > ESMC - Port 1 > Maximum frame/s
Syntax	:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:FRAMes:MAXimum?
Response Syntax	<Frames>
Response(s)	**Frames**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns ESMC Maximum frame/s
Example(s)	SENS:DATA:TEL:PACK:SYNC:ESMC:FRAMes:MAX?
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:FRAMes:AVERage?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:FRAMes:MINimum?

Description	This query returns the ESMC Minimum frame/s
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test App > SyncE > Results > Summary > ESMC - Port 1 > Minimum frame/s
Syntax	:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:FRAMes:MINimum?
Response Syntax	<Frames>
Response(s)	**Frames**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns ESMC Minimum frame/s
Example(s)	SENS:DATA:TEL:PACK:SYNC:ESMC:FRAM:MIN?
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:FRAMes:MAXimum?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXEvent:COUNt?

Description	This query returns the RX Event Count
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test App > SyncE > Results > Summary > ESMC - Port 1 > RX Event Count
	Navigation Path: Test App > SyncE > Results > Quality Level > QL > RX Event Total
Syntax	:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXEvent:COUNt?
Response Syntax	<RX Event count>
Response(s)	**RX Event count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns RX Event Count
Example(s)	SENS:DATA:TEL:PACK:SYNC:ESMC:RXEV:COUN?
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXQLmismatch:FRAMes:COUNt?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXINfo?

Description	This query returns the RX Information
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test App > SyncE > Results > Summary > ESMC - Port 1 > RX Information
	Navigation Path: Test App > SyncE > Results > Quality Level > QL > RX Information Total
Syntax	:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXINfo?
Response Syntax	<RX Information>
Response(s)	**RX Information**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns RX Information
Example(s)	SENS:DATA:TEL:PACK:SYNC:ESMC:RXIN?
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXRate?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXLast:CHANge?

Description	This query returns the RX Last change
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test App > SyncE > Results > Summary > ESMC - Port 1 > RX Last change
	Results > Quality Level > Last Change Recived
Syntax	:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXLast:CHANge?
Response Syntax	<RX Last change>
Response(s)	**RX Last change**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns RX Last change
Example(s)	SENS:DATA:TEL:PACK:SYNC:ESMC:RXLast:CHANge?
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXLast:CHANge?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXLast:QL Message?

Description	This query returns the RX Last QL Message
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test App > SyncE > Results > Summary > ESMC - Port 1 > RX Last QL Message
	Navigation Path: Test App > SyncE > Results > Quality Level > last QL Received
Syntax	:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXLast:QLMessage?
Response Syntax	<QL Message>
Response(s)	**QL Message**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns RX Last QL Message
Example(s)	SENS:DATA:TEL:PACK:SYNC:ESMC:RXLast:QLM?
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXLast:QLMessage?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXQLmismatch:FRAMes:COUNt?

Description	This query returns the RX QL Mismatch Frame Count
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test App > SyncE > Results > Summary > ESMC - Port 1 > RX QL Mismatch Frame Count
Syntax	:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXQLmismatch:FRAMes:COUNt?
Response Syntax	<Frame count>
Response(s)	**Frame count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns RX QL Mismatch Frame Count
Example(s)	SENS:DATA:TEL:PACK:SYNC:ESMC:RXQL:FRAM:COUNt?
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXEVent:COUNt?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXRate?

Description	This query returns the ESMC RX rate
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test App > SyncE > Results > Summary > ESMC - Port 1 > ESMC RX rate
Syntax	:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXRate?
Response Syntax	<RX Rate>
Response(s)	**RX Rate**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns ESMC RX rate
Example(s)	SENS:DATA:TEL:PACK:SYNC:ESMC:RXR?
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXINfo?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:TXEvent:COUNt?

Description	This query returns the TX Event Count
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test App > SyncE > Results > Summary > ESMC - Port 1 > TX Event Count
	Navigation Path: Test App > SyncE > Results > Quality Level > QL > TX Event Total
Syntax	:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:TXEvent:COUNt?
Response Syntax	<TX Event>
Response(s)	**TX Event**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns TX Event Count
Example(s)	SENS:DATA:TEL:PACK:SYNC:ESMC:TXEV:COUN?
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXEVent:COUNt?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:TXINfo?

Description	This query returns the TX Information
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test App > SyncE > Results > Summary > ESMC - Port 1 > TX Information
	Navigation Path: Test App > SyncE > Results > Quality Level > QL > TX Information Total
Syntax	:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:TXINfo?
Response Syntax	<TX Information>
Response(s)	**TX Information**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns TX Information
Example(s)	SENS:DATA:TEL:PACK:SYNC:ESMC:TXIN?
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXINfo?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:TXLast:CHANge?

Description	This query returns the TX Last change
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test App > SyncE > Results > Summary > ESMC - Port 1 > TX Last change
	Navigation Path: Test App > SyncE > Results > Quality Level > Last Change Generated
Syntax	:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:TXLast:CHANge?
Response Syntax	<TX Last change>
Response(s)	**TX Last change**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns TX Last change
Example(s)	SENS:DATA:TEL:PACK:SYNC:ESMC:TXL:CHAN?
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXLast:CHANge?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:TXLast:QL Message?

Description	This query returns the TX Last QL Message.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test App > SyncE > Results > Summary > ESMC - Port 1 > TX Last QL Message
	Navigation Path: Test App > SyncE > Results > Quality Level > Generated QL
Syntax	:SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:TXLast:QLMessage?
Response Syntax	<TX Last QL message>
Response(s)	**TX Last QL message**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns TX Last QL Message.
Example(s)	SENS:DATA:TEL:PACK:SYNC:ESMC:TXL:QLM?
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:ESMC:RXLast:QLMessage?

Summary (TCP Throughput)

:FETCh:DATA:TELecom:ETHernet:RTD:TIME:AVERage?

Description	This query returns the average round trip delay value.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > TCP Throughput > Round Trip Latency (ms) > Average.
Syntax	:FETCh:DATA:TELecom:ETHernet:RTD:TIME:AVERage?
Response Syntax	<Average>
Response(s)	**Average**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the average Round Trip Delay value.
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC
	FETC:DATA:TEL:ETH:RTD:TIME:AVER?
See Also	FETCh:DATA:TELecom:ETHernet:RTD:TIME:LAST?

:FETCh:DATA:TELecom:ETHernet:RTD:TIME:LAST?

Description	This query returns the last round trip delay value.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > TCP Throughput > Round Trip Latency (ms) > Last.
Syntax	:FETCh:DATA:TELecom:ETHernet:RTD:TIME:LAST?
Response Syntax	<Last>
Response(s)	**Last**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the last Round Trip Delay recorded.
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC
	FETC:DATA:TEL:ETH:RTD:TIME:LAST?
See Also	FETCh:DATA:TELecom:ETHernet:RTD:TIME:AVERage?

:FETCh:DATA:TELecom:ETHernet:RTD:TIME:MAXimum?

Description	This query returns the maximum Round Trip Delay recorded.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > TCP Throughput > Round Trip Latency (ms) > Maximum.
Syntax	:FETCh:DATA:TELecom:ETHernet:RTD:TIME:MAXimum?
Response Syntax	<Maximum>
Response(s)	**Maximum**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the maximum Round Trip Delay recorded
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC
	FETC:DATA:TEL:ETH:RTD:TIME:MAX?
See Also	FETCh:DATA:TELecom:ETHernet:RTD:TIME:MINimum?

:FETCh:DATA:TELecom:ETHernet:RTD:TIME:MINimum?

Description	This query returns the minimum Round Trip Delay recorded.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > TCP Throughput > Round Trip Latency (ms) > Minimum.
Syntax	:FETCh:DATA:TELecom:ETHernet:RTD:TIME:MINimum?
Response Syntax	<Minimum>
Response(s)	**Minimum**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the minimum Round Trip Delay recorded
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC
	FETC:DATA:TEL:ETH:RTD:TIME:MIN?
See Also	FETCh:DATA:TELecom:ETHernet:RTD:TIME:MAXimum?

:FETCh:DATA:TELecom:ETHernet:TCP:CONNection:STATus?

Description	This command returns the Connection Status.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > TCP Throughput > TCP Connection Status.
Syntax	:FETCh:DATA:TELecom:ETHernet:TCP:CONNection:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the connection status.
	-- indicates the test is not running or results are not available.
	INPROGRESS indicates that the TCP initialization algorithm is in progress.
	WAITING indicates on the remote unit that the test is started but the TCP initialization algorithm is not initiated by the local unit.
	ESTABLISHED indicates that the TCP session has been successfully established between the local and remote units.
	CLOSING indicates on the TCP protocol is closing down the connection.
	CLOSED indicates that the session is closed. Either no TCP initialization algorithm has been received, the remote unit has received and completed the request to close the TCP session, or no data has been received at the remote unit for 30 seconds.
	RIPNFOUND indicates that the local unit didn't received an answer to the ARP request sent to the IP address of the remote unit.
Example(s)	FETC:DATA:TEL:ETH:TCP:CONN:STAT?
See Also	FETCh:DATA:TELecom:ETHernet:TCP:CONNection:STATus

:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:EFFiciency?

Description	This query returns the Total Efficiency (%)
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > TCP Throughput > Total Efficency (%)
Syntax	:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:EFFiciency?
Response Syntax	<Efficiency>
Response(s)	**Efficiency**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Total Efficiency (%)
	At *RST condition, this value is device dependent.
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC
	FETC:DATA:TEL:ETH:TCP:STAT:EFF?
See Also	SOURce:DATA:TELecom:ETHernet:TCP:INJection:THReshold

:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput:AVERage?

Description	This query returns the Avrage TCP Throughput(%)
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > TCP Throughput > Avrage TCP Throughput(%)
Syntax	:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput:AVERage?
Response Syntax	<Average>
Response(s)	**Average**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Average TCP Throughput(%)
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC
	FETC:DATA:TEL:ETH:TCP:STAT:THR:AVERage?
See Also	FETCh:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput:LAST?

:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput:LAST?

Description	This query returns the Last TCP Throughput(%)
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > TCP Throughput > TCP Throughput(%) > Last
Syntax	:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput:LAST?
Response Syntax	<Last>
Response(s)	**Last**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Last TCP Throughput(%)
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC
	FETC:DATA:TEL:ETH:TCP:STAT:THR:LAST?
See Also	FETCh:DATA:TELecom:ETHernet:TCP:STATistics:WINDsize:LAST?

:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput :MAXimum:VERDict?

Description	This query returns Maximum TCP Throughput Verdict status
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > TCP Throughput % > Maximum Verdict
Syntax	:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput:MAXimum:VERDict?
Response Syntax	\<Verdict\>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA\> element.
	Returns Maximum TCP Throughput Verdict status.
	PASS, verdict is Pass.
	FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELecom:ETHernet:TCP:STAT:THRoughput:MAXimum:VERDict?
See Also	SOURce:DATA:TELecom:ETHernet:TCP:INJection:THReshold?

:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput :MAXimum?

Description	This query returns the Maximum TCP Throughput(%)
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > TCP Throughput > Maximum TCP Throughput(%)
Syntax	:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput:MAXimum?
Response Syntax	<Maximum>
Response(s)	**Maximum**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Maximum TCP Throughput(%)
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC
	FETC:DATA:TEL:ETH:TCP:STAT:THR:MAXimum?
See Also	FETCh:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput:MINimum?

:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput :MINimum?

Description	This query returns the Minimum TCP Throughput(%)
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > TCP Throughput > Minimum TCP Throughput(%)
Syntax	:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput:MINimum?
Response Syntax	<Minimum>
Response(s)	**Minimum**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Minimum TCP Throughput(%)
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC
	FETC:DATA:TEL:ETH:TCP:STAT:THR:MINimum?
See Also	FETCh:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput:MAXimum?

:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:TRTFrames?

Description	This query returns the Total Re-transmitted Frames
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > TCP Throughput > Re transmitted frames.
Syntax	:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:TRTFrames?
Response Syntax	<Frames>
Response(s)	**Frames**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Total Re-transmitted Frames
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC
	FETC:DATA:TEL:ETH:TCP:STAT:TRTF?
See Also	FETCh:DATA:TELecom:ETHernet:TCP:STATistics:TTFRames?

:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:TTFRames?

Description	This query returns the Total Transmitted Frames
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > TCP Throughput > transmitted frames
Syntax	:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:TTFRames?
Response Syntax	<Frames>
Response(s)	**Frames**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Total Transmitted Frames
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC
	FETC:DATA:TEL:ETH:TCP:STAT:TTFR?
See Also	FETCh:DATA:TELecom:ETHernet:TCP:STATistics:TRTFrames?

:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:WINDsize:LAST?

Description	This query returns the Last Window Size (Mbytes)
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > TCP Throughput > Window Size (Mbytes) > Last
Syntax	:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:WINDsize:LAST?
Response Syntax	<Last>
Response(s)	**Last**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Last Window Size (Mbytes)
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC
	FETC:DATA:TEL:ETH:TCP:STAT:WINDsize:LAST?
See Also	FETCh:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput:AVERage?

:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:WINDsize:MAXimum?

Description	This query returns the Maximum Window Size (Mbytes)
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > TCP Throughput > Window Size (Mbytes) > Maximum
Syntax	:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:WINDsize:MAXimum?
Response Syntax	<Maximum>
Response(s)	**Maximum**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Maximum Window Size (Mbytes)
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC
	FETC:DATA:TEL:ETH:TCP:STAT:WINDsize:MAXimum?
See Also	FETCh:DATA:TELecom:ETHernet:TCP:STATistics:WINDsize:MINimum?

:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:WINDsize:MINimum?

Description	This query returns the Minimum Window Size (Mbytes)
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > TCP Throughput > Window Size (Mbytes) > Minimum
Syntax	:FETCh:DATA:TELecom:ETHernet:TCP:STATistics:WINDsize:MINimum?
Response Syntax	<Minimum>
Response(s)	**Minimum**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Minimum Window Size (Mbytes)
Example(s)	SOUR:DATA:TEL:ETH:TCP:MODE LOC
	FETC:DATA:TEL:ETH:TCP:STAT:WINDsize:MINimum?
See Also	FETCh:DATA:TELecom:ETHernet:TCP:STATistics:WINDsize:MAXimum?

Summary (Traffic Gen & Mon)

:FETCh:DATA:TELecom:ETHernet:STReam:LATency:STATus:TIME?

Description	This query returns the time required for a bit to travel from the transmitter back to its receiver after crossing a far-end loopback.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > QoS Metrics
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:LATency:STATus:TIME? <wsp><Time>
Parameter(s)	**Time**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the time required for a bit to travel.
	CURRent, displays the result of the last latency measurement.
	LATMIN, displays the minimum latency recorded.
	LATMAX, displays the maximum latency recorded.
	AVERage, displays the average latency value.
Response Syntax	<Time>
Response(s)	**Time**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the time required for a bit to travel.
	CURRENT, displays the result of the last latency measurement.
	LATMIN, displays the minimum latency recorded.
	LATMAX, displays the maximum latency recorded.
	AVERAGE, displays the average latency value.
Example(s)	FETC:DATA:TEL:ETH:STR:LAT:STAT:TIME? CURR
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:STReam:SEConds?

Summary (NI/CSU Emulation)

:FETCh:DATA:TELecom:DSN:LOOPback:STATus?

Description	This query returns the auto-response loopback status
	At *RST condition, this value is device dependent.
	Navigation Path: Test > NICSU > Results > Summary > Auto-Response Loopback status
	Navigation Path: Test > NICSU > Test configurator > Summary > Auto-Response Loopback status
Syntax	:FETCh:DATA:TELecom:DSN:LOOPback:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the auto-response loopback status.
	1, auto-response loopback status is active.
	0, auto-response loopback status is inactive.
Example(s)	FETC:DATA:TEL:DSN:LOOP:STAT?
See Also	FETCh:DATA:TEL:SON:SECTion:PM:STAT?

Summary (S-OAM and MPLS-TP OAM)

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:DOMain:ID: CCM?

Description	This query returns the Domain Id of last received CCM frame.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Continuity Check > Domain ID > CCM
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:DOMain:ID:CCM?
Response Syntax	<Domain Id>
Response(s)	**Domain Id**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Domain Id value.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:CCH:DOM:ID:CCM?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:RES:SLOS:RAT?

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:DOMain:ID: FORMat?

Description	This query returns whether it is unexpected format of the Domain Id of last received CCM frame.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Continuity Check > Domain ID > CCM
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:DOMain:ID:FORMat?
Response Syntax	<Domain Id Format>
Response(s)	**Domain Id Format**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of Domain Id format
Example(s)	FETC:DATA:TEL:SOAM:SUMM:CCH:DOM:ID:FORM?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:RES:SLOS:RAT?

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MA:NAMe:CCM?

Description	This query returns the MA NAME of last received CCM frame.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Continuity Check > MA Name > CCM
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MA:NAMe:CCM?
Response Syntax	<MA Name>
Response(s)	**MA Name**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Local MA Name.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:CCH:MA:NAME:CCM?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:CCH:STAT?

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MA:NAMe:FORMat?

Description	This query returns whether it is unexpected format of the MA NAME of last received CCM frame.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Continuity Check > MA Name > CCM
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MA:NAMe:FORMat?
Response Syntax	<MA Name Format>
Response(s)	**MA Name Format**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of MA Name format
Example(s)	FETC:DATA:TEL:SOAM:SUMM:CCH:MA:NAME:FORM?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:CCH:STAT?

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MD:LEVel:CCM?

Description	This query returns the MD Level of last received CCM frame.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Continuity Check > MID Level > CCM
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MD:LEVel:CCM?
Response Syntax	<MD Level>
Response(s)	**MD Level**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the MD Level.
	0, 0 is selected as MD Level
	1, 1 is selected as MD Level
	2, 2 is selected as MD Level
	3, 3 is selected as MD Level
	4, 4 is selected as MD Level
	5, 5 is selected as MD Level
	6, 6 is selected as MD Level
	7, 7 is selected as MD Level
Example(s)	FETC:DATA:TEL:SOAM:SUMM:CCH:MD:LEV:CCM?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:CCH:TX:CCM:COUN?

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MEG:ID:CCM?

Description	This query returns the MEG ID of last received CCM frame.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Continuity Check > MEG ID > CCM
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MEG:ID:CCM?
Response Syntax	<MEG Id>
Response(s)	**MEG Id**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the MEG ID of last received CCM frame.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:CCH:MEG:ID:CCM?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:RES:LOOPback?

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MEG:ID:FORMat?

Description	This query returns whether it is unexpected format of the MEG ID of last received CCM frame.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Continuity Check > MEG ID > CCM
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MEG:ID:FORMat?
Response Syntax	<MEG Id Format>
Response(s)	**MEG Id Format**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of MEG Id format
Example(s)	FETC:DATA:TEL:SOAM:SUMM:CCH:MEG:ID:FORM?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:RES:LOOPback?

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MEG:LEVel: CCM?

Description	This query returns the MEG Level of last received CCM frame.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Continuity Check > MEG Level > CCM
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MEG:LEVel:CCM?
Response Syntax	<MEG Level>
Response(s)	**MEG Level**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the MEG Level.
	0, 0 is selected as MEG Level.
	1, 1 is selected as MEG Level.
	2, 2 is selected as MEG Level.
	3, 3 is selected as MEG Level.
	4, 4 is selected as MEG Level.
	5, 5 is selected as MEG Level.
	6, 6 is selected as MEG Level.
	7, 7 is selected as MEG Level.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:CCH:MEG:LEV:CCM?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:RES:TEST?

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MEP:ID:CCM?

Description	This query returns the MEP ID of last received CCM frame.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Continuity Check > MEP ID > CCM
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:MEP:ID:CCM?
Response Syntax	<MEP Id>
Response(s)	**MEP Id**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Local MEP Id values in hexadecimal format.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:CCH:MEP:ID:CCM?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:RES:FDEL:MAX?

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:PERiod:CCM?

Description	This query returns the Period of last received CCM frame.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Continuity Check > Period > CCM
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:PERiod:CCM?
Response Syntax	<Period>
Response(s)	**Period**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Period.
	P333MS, 3.33 MilliSeconds is selected as period
	P10MS, 10 MilliSeconds is selected as period
	P100MS,100 MilliSeconds is selected as period
	P1S, 1 Second is selected as period
	P10S, 10 Seconds is selected as period
	P1MIN, 1 Minute is selected as period
	P10MIN, 10 Minutes is selected as period
Example(s)	FETC:DATA:TEL:SOAM:SUMM:CCH:PER:CCM?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:RES:FLOS:RAT?

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:RX:CCM:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics RX CCM Count
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Continuity Check > RX CCM > Count
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:RX:CCM:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Rx CCM Count.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:CCH:RX:CCM:COUN?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:RES:SLOS:MEAS?

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:STATus?

Description	This query returns the Continuity check function shall report a Test Status
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Continuity check > Status
	Continuity Check function shall report the content of the last received CCM frame
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Continuity Check function running Status.
	LOSSOFCONTINUTY, LOSSOFCONTINUTY is selected as type of Continuity Check function running Status.
	MISMERGE, MISMERGE is selected as type of Continuity Check function running Status.
	UNEXPECTEDMEGLEVEL, UNEXPECTEDMEGLEVEL is selected as type of Continuity Check function running Status.
	UNEXPECTEDMDLEVEL, UNEXPECTEDMDLEVEL is selected as type of Continuity Check function running Status.
	UNEXPECTEDMEP, UNEXPECTEDMEP is selected as type of Continuity Check function running Status.
	UNEXPECTEDPERIOD, UNEXPECTEDPERIOD is selected as type of Continuity Check function running Status.
	RECEIVINGCCMS, RECEIVINGCCMS is selected as type of Continuity Check function running Status.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:CCH:STAT?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:RES:FDEL:MEAS?

:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:TX:CCM:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics summary TX CCM Count
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Continuity Check > TX CCM > Count
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:CCHeck:TX:CCM:COUNt?
Response Syntax	<Value>
Response(s)	Value:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Tx CCM Count.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:CCH:TX:CCM:COUN?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:RES:FLOS:MEAS?

:FETCh:DATA:TELecom:SOAM:SUMMary:LOOPback:RX:LINe: UTILization?

Description	This query returns the RX Line Utilization.
	At *RST condition, this value Range = 0 to 100%.
	Navigation Path: Results > Summary > Loopback > RX Line Utilization(%)
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:LOOPback:RX:LINe:UTILization?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Rx Line Utilizaltion.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:LOOP:RX:LIN:UTIL?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:FLOS:RAT?

:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:FDELay:MAXimum?

Description	This query returns the Frame Loss Ratio value.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Results Summary > Frame Delay(ms)(Maximum) > Result
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:FDELay:MAXimum?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Frame delay maximum value.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:RES:FDEL:MAX?
See Also	FETCH:DATA:TELecom:SOAM:SUMM:CCH:DOM:ID:CCM?

:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:FDELay:MEASurement?

Description	This query returns the frame delay measurements successful & failed values
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Results Summary > Frame Delay Measurement > Successful / Failed
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:FDELay:MEASurement? <wsp><Result>
Parameter(s)	**Result**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Successful or failed Frame delay measurement
	SUCCESSFUL: Successful Frame delay measurement
	FAILED: failed Frame delay measurement
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Frame delay successful or failed value.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:RES:FDEL:MEAS? SUCCessful
See Also	FETCh:DATA:TELecom:SOAM:SUMM:CCH:RX:CCM:COUN?

:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:FLOSs:MEASurement?

Description	This query returns the frame loss measurements successful & failed values
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Results Summary > Frame Loss Measurement > Successful / Failed
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:FLOSs:MEASurement? <wsp><Result>
Parameter(s)	**Result**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Successful or failed Frame loss measurement
	SUCCESSFUL: Successful Frame loss measurement
	FAILED: failed Frame loss measurement
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Frame loss successful or failed value.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:RES:FLOS:MEAS? SUCCessful
See Also	FETCH:DATA:TELecom:SOAM:SUMM:CCH:MEG:ID:CCM?

:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:FLOSs:RATio?

Description	This query returns the Frame Delay maximum value.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Results Summary > Frame Loss Ratio > Result (NearEnd/FarEnd)
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:FLOSs:RATio? <wsp><value>
Parameter(s)	value:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Near end or farend Frame loss ratio
	NEAREND: Successful Frame loss ratio
	FAREND: failed Frame loss ratio
Response Syntax	<Value>
Response(s)	Value:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Frame loss ratio Nearend or Farend value.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:RES:FLOS:RAT? FARend
See Also	FETCh:DATA:TELecom:SOAM:SUMM:CCH:MA:NAME:CCM?

:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:LOOPback?

Description	This query returns the loopbacks successful & failed values
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Results Summary > Loopback
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:LOOPback? <wsp><Result>
Parameter(s)	**Result**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Successful or failed Loopback measurement
	SUCCESSFUL: Successful Loopback measurement
	FAILED: failed Loopback measurement
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Loopback successful or failed value.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:RES:LOOPback? SUCCessful
See Also	FETCh:DATA:TELecom:SOAM:SUMM:CCH:MEP:ID:CCM?

:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:SLOSs:MEAS urement?

Description	This query returns the synthetic loss measurements successful & failed values
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Results Summary > Synthetic Loss Measurement > Successful / Failed
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:SLOSs:MEASurement? \<wsp>\<Result>
Parameter(s)	**Result**:
	The program data syntax for the first parameter is defined as a \<CHARACTER PROGRAM DATA> element.
	Selects Successful or failed Synthetic loss measurement
	SUCCESSFUL: Successful Synthetic loss measurement
	FAILED: failed Synthetic loss measurement
Response Syntax	\<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a \<NR1 NUMERIC RESPONSE DATA> element.
	Returns the Synthetic loss successful or failed value.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:RES:SLOS:MEAS? SUCCessful
See Also	FETCH:DATA:TELecom:SOAM:SUMM:CCH:MEG:LEV:CCM?

:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:SLOSs:RATio ?

Description	This query returns the Synthetic Loss Ratio value.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Results Summary > Synthetic Loss Ratio > Result (NearEnd/FarEnd)
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:SLOSs:RATio? <wsp><value>
Parameter(s)	value:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Near end or farend Sythetic loss ratio
	NEAREND: Successful Sythetic loss ratio
	FAREND: failed Sythetic loss ratio
Response Syntax	<Value>
Response(s)	Value:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Sythetic loss ratio Nearend or Farend value.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:RES:SLOS:RAT? FARend
See Also	FETCh:DATA:TELecom:SOAM:SUMM:CCH:MD:LEV:CCM?

:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:TEST?

Description	This query returns the tests successful & failed values
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Results Summary > Test
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:RESults:TEST? <wsp><Result>
Parameter(s)	**Result**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Successful or failed Test measurement
	SUCCESSFUL: Successful Test measurement
	FAILED: failed Test measurement
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Test successful or failed value.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:RES:TEST? SUCCessful
See Also	FETCh:DATA:TELecom:SOAM:SUMM:CCH:PER:CCM?

:FETCh:DATA:TELecom:SOAM:SUMMary:TEST:RX:TST:RATE?

Description	This query returns the Test TST RX Rate.
	At *RST condition, this value is 0.
	Navigation Path: Results > Summary > Test > TXT RX Rate
Syntax	:FETCh:DATA:TELecom:SOAM:SUMMary:TEST:RX:TST:RATE?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Rx Rate.
Example(s)	FETC:DATA:TEL:SOAM:SUMM:TEST:RX:TST:RATE?
See Also	FETCh:DATA:TELecom:SOAM:SUMM:RES:SLOS:RATE?

Summary (FC BERT)

:FETCh:DATA:TELecom:FIBer:RTLatency:AVERage?

Description	This query returns the round trip latency average value (ms).
	At *RST, this value is device dependent.
	Navigation Path: Results > Summary > Round-Trip Latency > Average
Syntax	:FETCh:DATA:TELecom:FIBer:RTLatency:AVERage?
Response Syntax	<Average>
Response(s)	**Average**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the round trip latency average value.
Example(s)	FETC:DATA:TEL:FIB:RTL:AVER?
See Also	FETCh:DATA:TELecom:FIBer:PORT:FLOGin:STATus?

:FETCh:DATA:TELecom:FIBer:RTLatency:LAST?

Description	This query returns the round trip latency last value (ms).
	At *RST, this value is device dependent.
	Navigation Path: Results > Summary > Round-Trip Latency > Last
Syntax	:FETCh:DATA:TELecom:FIBer:RTLatency:LAST?
Response Syntax	<Last>
Response(s)	**Last**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the round trip latency last value.
Example(s)	FETC:DATA:TEL:FIB:RTL:LAST?
See Also	FETCh:DATA:TELecom:ETHernet:STATus?

:FETCh:DATA:TELecom:FIBer:RTLatency:MAXimum?

Description	This query returns the round trip latency maximum value (ms).
	At *RST, this value is device dependent.
	Navigation Path: Results > Summary > Round-Trip Latency > Maximum
Syntax	:FETCh:DATA:TELecom:FIBer:RTLatency:MAXimum?
Response Syntax	<Maximum>
Response(s)	**Maximum**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the round trip latency maximum value.
Example(s)	FETC:DATA:TEL:FIB:RTL:MAX?
See Also	FETCh:DATA:TELecom:FIBer:PORT:PLOGin:STATus?

:FETCh:DATA:TELecom:FIBer:RTLatency:MINimum?

Description	This query returns the round trip latency minimum value (ms).
	At *RST, this value is device dependent.
	Navigation Path: Results > Summary > Round-Trip Latency > Minimum
Syntax	:FETCh:DATA:TELecom:FIBer:RTLatency:MINimum?
Response Syntax	<Minimum>
Response(s)	**Minimum**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the round trip latency minimum value.
Example(s)	FETC:DATA:TEL:FIB:RTL:MIN?
See Also	FETCh:DATA:TELecom:FIBer:PORT:FLOGin:STATus?

:FETCh:DATA:TELecom:FIBer:RTLatency:SAMPles?

Description	This query returns the number of latency data points (ms).
	At *RST, this value is device dependent.
	Navigation Path: Results > Summary > Round-Trip Latency > Samples
Syntax	:FETCh:DATA:TELecom:FIBer:RTLatency:SAMPles?
Response Syntax	<Samples>
Response(s)	**Samples**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the number of latency data points.
Example(s)	FETC:DATA:TEL:FIB:RTL:SAMP?
See Also	FETCh:DATA:TELecom:FIBer:PORT:PLOGin:STATus?

:FETCh:DATA:TELecom:FIBer:RTLatency:THReshold:VERDict?

Description	This query returns the Status of Latency Verdict.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Round-Trip Latency > Maximum Verdict
Syntax	:FETCh:DATA:TELecom:FIBer:RTLatency:THReshold:VERDict?
Response Syntax	<STATUS>
Response(s)	**STATUS**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the status of Pattern Verdict.
	PASS, verdict is Pass.
	FAIL, verdict is Fail.
Example(s)	FETC:DATA:TEL:FIB:RTL:THR:VERD?
See Also	FETCh:DATA:TELecom:PATTern:ALARm:PATTern:SEConds?

:FETCh:DATA:TELecom:FIBer:STReam:BYTE:COUNt?

Description	This query returns the total number of bytes transmitted/received on the line.
	At *RST, this value is device dependent.
	Navigation Path: Results > Summary > Traffic > Byte Count > Tx / Rx
Syntax	:FETCh:DATA:TELecom:FIBer:STReam:BYTE:COUNt? <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the mode.
	TX: Transmitter mode.
	RX: Receiver mode.
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the total number of bytes transmitted/received.
Example(s)	FETC:DATA:TEL:FIB:STR:BYTE:COUN? TX
See Also	FETCh:DATA:TELecom:FIBer:PORT:FLOGin:STATus?

:FETCh:DATA:TELecom:FIBer:STReam:ESTimated:BBCRedit?

Description	This query returns the Estimated BB Credit.
	At *RST, this value is device dependent.
	Navigation Path: Results > Summary > Round-Trip Latency > Estimated BB_Credit
Syntax	:FETCh:DATA:TELecom:FIBer:STReam:ESTimated:BBCRedit?
Response Syntax	<Threshold>
Response(s)	**Threshold**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the round trip latency threshold value.
Example(s)	FETC:DATA:TEL:FIB:STR:EST:BBCR?
See Also	FETCh:DATA:TELecom:ETHernet:STATus?

:FETCh:DATA:TELecom:FIBer:STReam:FRAMe:COUNt?

Description	This query returns the number of frames transmitted/received.
	At *RST, this value is device dependent.
	Navigation Path: Results > Summary > Traffic > Frame Count > Tx / Rx
Syntax	:FETCh:DATA:TELecom:FIBer:STReam:FRAMe:COUNt? <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the mode.
	TX: Transmitter mode.
	RX: Receiver mode.
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the total number of frames transmitted/received.
Example(s)	FETC:DATA:TEL:FIB:STR:FRAM:COUN? TX
See Also	FETCh:DATA:TELecom:FIBer:PORT:FLOGin:STATus?

:FETCh:DATA:TELecom:FIBer:STReam:FRAMe:RATE?

Description	This query returns frame rate (Frames/s) transmitted/received on the line.
	At *RST, this value is device dependent.
	Navigation Path: Results > Summary > Traffic > Frame Rate > Tx / Rx
Syntax	:FETCh:DATA:TELecom:FIBer:STReam:FRAMe:RATE? <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the mode.
	TX: Transmitter mode.
	RX: Receiver mode.
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the frame rate (Frames/s) transmitted/received.
Example(s)	FETC:DATA:TEL:FIB:STR:FRAM:RATE? TX
See Also	FETCh:DATA:TELecom:FIBer:PORT:PLOGin:STATus?

:FETCh:DATA:TELecom:FIBer:STReam:LINE:UTILization?

Description	This query returns line utilization (%).
	At *RST, this value is device dependent.
	Navigation Path: Results > Summary > Traffic > Line Utilization > Tx / Rx
Syntax	:FETCh:DATA:TELecom:FIBer:STReam:LINE:UTILization? <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the mode.
	TX: Transmitter mode.
	RX: Receiver mode.
Response Syntax	<Utilization>
Response(s)	**Utilization**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Line Utilization (%) transmitted/received.
Example(s)	FETC:DATA:TEL:FIB:STR:LINE:UTIL? TX
See Also	FETCh:DATA:TELecom:FIBer:PORT:FLOGin:STATus?

Summary (RFC 6349)

:FETCh:DATA:TELecom:ETHernet:RFC:ACTConnections?

Description	This query returns the number of iPerf server active connections.
	Navigation Path: Results > Summary > Active Connections
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:ACTConnections?
Response Syntax	<Active Connections>
Response(s)	**Active Connections**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of iPerf server active connections.
Example(s)	FETC:DATA:TEL:ETH:RFC:ACTC?

:FETCh:DATA:TELecom:ETHernet:RFC:CDETails?

Description	This query returns the list of active connection details.
	Navigation Path: Results > Summary > Connection Details
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:CDETails?
Response Syntax	<Connection Details>
Response(s)	**Connection Details**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	This query returns the list of active Connection Details.
Example(s)	FETC:DATA:TEL:ETH:RFC:CDET?

:FETCh:DATA:TELecom:ETHernet:RFC:MINimum:RTT?

Description	This query returns the Minimum RTT.
	At *RST, this value is device dependent.
	Navigation Path: Results > Summary > Minimum RTT(ms)
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:MINimum:RTT?
Response Syntax	<Minimum RTT>
Response(s)	**Minimum RTT**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Minimum RTT.
Example(s)	FETC:DATA:TEL:ETH:RFC:MIN:RTT?
	Returns the Minimum RTT
See Also	FETCh:DATA:TELecom:ETHernet:RFC:MTU?

:FETCh:DATA:TELecom:ETHernet:RFC:MTU?

Description	This query returns the Maximum Transfer Unit
	At *RST, this value is device dependent.
	Navigation Path: Results > Summary > MTU (Bytes)
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:MTU?
Response Syntax	<MTU>
Response(s)	**MTU**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Maximum Transfer Unit.
Example(s)	FETC:DATA:TEL:ETH:RFC:MTU?
	Returns the Maximum Transfer Unit
See Also	FETCh:DATA:TELecom:ETHernet:RFC:MINimum:RTT?

:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:ACTUal:L:VERDict?

Description	This query returns the average of actual TCP Throughput metric verdict
	At *RST, this value is device dependent.
	Navigation Path: Results > Summary > TCP Throughput > Actual L4 verdict.
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:ACTUal:L:VERDict? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the TCP Throughput metric verdict.
	PASS, Verict is Pass.
	FAIL, Verdict is Fail.
	UNDEFINED, Undefined verdict.
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:ACTU:L:VERD? LTOR
	Returns the actual TCP Throughput metric verdict for local to remote.
See Also	FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:ACTUal:L?

:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:ACTUal:L?

Description	This query returns the average of actual TCP Throughput metric.
	At *RST, this value is device dependent.
	Navigation Path: Results > Summary > TCP Throughput > Actual L4
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:ACTUal:L? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Actual L>
Response(s)	**Actual L**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the average of actual TCP Throughput metric.
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:ACTU:L? LTOR
	Returns the Actual L value for local to remote.
See Also	FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:WINDow?

:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:AVERage:RTT?

Description	This query returns the Average RTT.
	At *RST this value is device dependent.
	Navigation Path: Results>Summary>Average RTT(ms)
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:AVERage:RTT? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Average RTT>
Response(s)	**Average RTT**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Average RTT.
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:AVER:RTT? LTOR

:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:BUFFer:DELay?

Description	This query returns the ideal Buffer Delay metric.
	At *RST, this value is device dependent.
	Navigation Path: Results > Summary > TCP Throughput > Buffer Delay
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:BUFFer:DELay? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Buffer delay>
Response(s)	**Buffer delay**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Buffer Delay
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:BUFF:DEL? LTOR
	Returns ideal Buffer Delay metric for local to remote.
See Also	FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:TCP:EFFiciency?

:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:CCWNd?

Description	This query returns the current CWND TCP Throughput metric.
	At *RST this value is device dependent.
	Navigation Path:Results>Summary>Current CWND
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:CCWNd? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction;
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Current CWND>
Response(s)	**Current CWND**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the current CWND TCP Throughput metric.
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:CCWN? LTOR
See Also	FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:CCWNd

:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:CURRent:L?

Description	This query returns the Current L4 TCP Throughput metric.
	At *RST, this value is device dependent.
	Navigation Path: Results > Summary > Current L4
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:CURRent:L? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Current L4>
Response(s)	**Current L4**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Current L4 TCP Throughput metric.
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:CURR:L? LTOR

:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:CURRent:RTT?

Description	This query returns the Current RTT.
	At *RST this value is device dependent.
	Navigation Path: Results>Summary>Currrent RTT (ms)
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:CURRent:RTT? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Current RTT>
Response(s)	**Current RTT**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Current RTT.
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:CURR:RTT? LTOR
See Also	FETCh:DATA:TELecom:ETHernet:RFC:MINimum:RTT?

:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:IDEal:L?

Description	This query returns the ideal TCP throughput metric.
	At *RST, this value is device dependent.
	Navigation Path: Results > Summary > TCP Throughput > Ideal L4
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:IDEal:L? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Ideal L>
Response(s)	**Ideal L**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Ideal L
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:IDE:L? LTOR
	Returns the Ideal L for local to remote.
See Also	FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:IDEal:L?

:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:MAXimum:RTT?

Description	This query returns the Maximum RTT.
	At *RST this value is device dependent.
	Navigation path:Results>Summary>Max RTT(ms)
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:MAXimum:RTT? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Maximum RTT>
Response(s)	**Maximum RTT**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Maximum RTT.
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:MAX:RTT? LTOR

:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:MCWNd?

Description	This query returns the Max CWND of TCP Throughput Metric.
	At *RST this value is device dependent.
	Navigation Path: Results>Summary>Max CWND
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:MCWNd? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction:
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Max CWND>
Response(s)	**Max CWND**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Max CWND of TCP Throughput Metric.
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:MCWN? LTOR
See Also	FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:MCWNd

:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:MINimum:RTT?

Description	This query returns the Minimum RTT.
	At *RST this value is device dependent.
	Navigation Path: Results>Summary> Minimum RTT(ms)
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:MINimum:RTT? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Minimum RTT>
Response(s)	**Minimum RTT**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Minimum RTT.
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:MIN:RTT? LTOR

:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:NOFConn?

Description	This query returns the TCP Throughput number of connections.
	At *RST this value is device dependent.
	Navigation Path: Results>Summary>Nb Of Connections
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:NOFConn? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<NbOfConn>
Response(s)	**NbOfConn**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the TCP Throughput number of connections.
Example(s)	FETChDATA:TEL:ETH:RFC:TCP:THR:NOFC? LTOR

:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:RWBoost?

Description	This query returns the recommended window boost metric.
	At *RST, this value is device dependent.
	Navigation Path: Results > Summary > TCP Throughput > Recommended Window Boost
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:RWBoost? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote.
	RTOLocal: Remote to Local.
Response Syntax	<Recommended Window Boost>
Response(s)	**Recommended Window Boost**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Return the Recommended Window Boost.
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:RBW? LTOR
	Returns recommended Window Boost metric for Locat to Remote.
See Also	FETC:DATA:TEL:ETH:RFC:TCPTHR:BUFF:DEL?

:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:TCP:EFFiciency?

Description	This query returns the TCP Efficiency metric.
	At *RST, this value is device dependent.
	Navigation Path: Results > Summary > TCP Throughput > TCP Efficiency
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:TCP:EFFiciency? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<TCP Efficiency>
Response(s)	**TCP Efficiency**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the TCP Efficiency metric
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:TCP:EFF? LTOR
	Returns TCP Efficiency metric value for local to remote.
See Also	FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:THReshold?

:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:THReshold?

Description	This query returns the average of actual TCP Throughput threshold.
	At *RST, this value is device dependent.
	Navigation Path: Results > Summary > TCP Throughput > TCP Throughput threshold
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:THReshold? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Threshold>
Response(s)	**Threshold**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the average of actual TCP Throughput threshold
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:THR? LTOR
	Returns TCP Throughput threshold for local to remote.
See Also	FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:BUFFer:DELay?

:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:WINDow?

Description	This query returns the TCP Throughput Total Max Window.
	At *RST, this value is device dependent.
	Navigation Path: Results > Summary > TCP Throughput > Window
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:WINDow? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Max Window>
Response(s)	**Max Window**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Total Max Window
Example(s)	FETC:DATA:TEL:ETH:RFC:TCP:THR:WINDOW? RTOL
	Returns TCP Throuput Total Max Window for remote to local.
See Also	FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:BUFFer:DELay?

:FETCh:DATA:TELecom:ETHernet:RFC:WINDow:SWEep:ACTUal:L?

Description	This query returns the each step average TCP throughput metric
	At *RST, this value is device dependent.
	Navigation Path: Results > Summary > Window Sweep > Actual L4
Syntax	:FETCh:DATA:TELecom:ETHernet:RFC:WINDow:SWEep:ACTUal:L? <wsp><Step>, <Direction>
Parameter(s)	**Step**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the step from 1 to 4
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Sweep L>
Response(s)	**Sweep L**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Window sweep actual L.
Example(s)	FETC:DATA:TEL:ETH:RFC:WIND:SWE:ACTU:L? 1,LTOR
	Returns the average TCP throughput metric for step1 local to remote.
See Also	FETCh:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:ACTUal:L?

:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:RWBoost:APPLy

Description	This command applies the Recommened Window Boost factor to the configurable Window Boost Factor.
	This is an action command and has no default value.
	Navigation Path: Setup > RFC6349 > Test Configurator > RFC6349 > Apply Recommended Window Boost.
Syntax	:SOURce:DATA:TELecom:ETHernet:RFC:TCP:THRoughput:RWBoost:APPLy
Response Syntax	<Sweep L>
Example(s)	SOUR:DATA:TEL:ETH:RFC:TCP:THR:RWB:APPL
See Also	SOUR:DATA:TEL:ETH:RFC:REST:DEF

Summary (Link OAM)

	:FETCh:DATA:TELecom:LOAM:ALARm:CURRent?
Description	This query returns the Current status of the OAM alarms.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > Alarms > Current
Syntax	:FETCh:DATA:TELecom:LOAM:ALARm:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the current status of the pattern alarm.
	CRITICALEVENT: Status of Critical Event.
	DYINGGASP: Status of Dying Gasp.
	LINKFAULT: Status of Link Fault.
	LINKOAM: Status of Link OAM.
Response Syntax	<Curr Alarm>
Response(s)	**Curr Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Return count of Current status of Alarm.
Example(s)	FETC:DATA:TEL:LOAM:ALAR:CURR? LINKOAM
See Also	FETCh:DATA:TELecom:CPRI:ERRor:COUNt?

:FETCh:DATA:TELecom:LOAM:ALARm:HISTory?

Description	This query returns the history status of the OAM alarms.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > Alarms > History
Syntax	:FETCh:DATA:TELecom:LOAM:ALARm:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the history status of the pattern alarm.
	CRITICALEVENT: Status of Critical Event.
	DYINGGASP: Status of Dying Gasp.
	LINKFAULT: Status of Link Fault.
	LINKOAM: Status of Link OAM.
Response Syntax	<Hist Alarm>
Response(s)	**Hist Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Return count of History status Alarm.
Example(s)	FETC:DATA:TEL:LOAM:ALAR:HIST? LINKOAM
See Also	FETCh:DATA:TELecom:CPRI:ERRor:COUNt?

:FETCh:DATA:TELecom:LOAM:ALARm:SEConds?

Description	This query returns the Second of the OAM alarms.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > Alarms > Seconds
Syntax	:FETCh:DATA:TELecom:LOAM:ALARm:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the number of seconds within which the alarm occurred.
	CRITICALEVENT: No of Seconds Critical Event occurred.
	DYINGGASP: No of Seconds Dying Gasp Occurred.
	LINKFAULT: No of Seconds Link Fault Occurred.
	LINKOAM: Status of Link OAM.
Response Syntax	<Sec Alarm>
Response(s)	**Sec Alarm**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Return count of No of Seconds Alarm occurred.
Example(s)	FETC:DATA:TEL:LOAM:ALAR:SEC? LINKOAM
See Also	FETCh:DATA:TELecom:CPRI:ERRor:COUNt?

:FETCh:DATA:TELecom:LOAM:FRAMe:COUNt:RX?

Description	This query returns the Rx Frame Count.
	At *RST, this value is device dependent.
	Navigation Path: Results > Summary > OAMPDU Frame Count > RX
Syntax	:FETCh:DATA:TELecom:LOAM:FRAMe:COUNt:RX? <wsp><Ftype>
Parameter(s)	**Ftype**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of RX OAMPDU Frame count.
	FINFormation: Information Frame Count.
	FLBack: Loopback Control Count.
	FTOTal: Total Frame Count.
	FEVEnt: Total Event Notification Count
Response Syntax	<Rx Frame Count>
Response(s)	**Rx Frame Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Return Rx frame count of type Information or Loopback Control or Event Notification.
Example(s)	FETC:DATA:TEL:LOAM:FRAM:COUN:RX? FINFormation
See Also	FETCh:DATA:TELecom:TSCan:LINK:RATE?

:FETCh:DATA:TELecom:LOAM:FRAMe:COUNt:TX?

Description	This query returns the Tx Frame Count.
	At *RST, this value is device dependent.
	Navigation Path: Results > Summary > OAMPDU Frame Count > TX
Syntax	:FETCh:DATA:TELecom:LOAM:FRAMe:COUNt:TX? <wsp><Ftype>
Parameter(s)	**Ftype**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of TX OAMPDU Frame count.
	FINFormation: Information Frame Count.
	FLBack: Loopback Control Count.
	FTOTal: Total Frame Count.
Response Syntax	<Tx Frame Count>
Response(s)	**Tx Frame Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Return Tx frame count of type Information or Loopback Control or Event Notification.
Example(s)	FETC:DATA:TEL:LOAM:FRAM:COUN:TX? FINFormation
See Also	FETCh:DATA:TELecom:TSCan:LINK:RATE?

:FETCh:DATA:TELecom:LOAM:LBACk:STATus:FAILed?

Description	This query returns the Fail count status of Remote Loopback for Link OAM.
	At *RST, this value is device dependent.
	Navigation Path: Results > Summary > Loopback > Remote > Fail
Syntax	:FETCh:DATA:TELecom:LOAM:LBACk:STATus:FAILed?
Response Syntax	<Fail Count>
Response(s)	**Fail Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Return count of Fail attempt.
Example(s)	FETC:DATA:TEL:LOAM:LBAC:STAT:FAIL?
See Also	FETCh:DATA:TELecom:LOAM:LBACk:STATus:SUCCessful?

:FETCh:DATA:TELecom:LOAM:LBACk:STATus:SUCCessful?

Description	This query returns the Successful count status of Remote Loopback for Link OAM.
	At *RST, this value is device dependent.
	Navigation Path: Results > Summary > Loopback > Remote > Successful
Syntax	:FETCh:DATA:TELecom:LOAM:LBACk:STATus:SUCCessful?
Response Syntax	<Success Count>
Response(s)	**Success Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Return count of Successful attempt.
Example(s)	FETC:DATA:TEL:LOAM:LBAC:STAT:SUCC?
See Also	FETCh:DATA:TELecom:LOAM:LBACk:STATus:FAILed?

Summary (iOptics)

:FETCh:DATA:TELecom:IOPTics:BERT:ALARm:PLOSs?

Description	This query returns the Pass/Fail Verdict of P. Loss for Bit Error Test of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Sub-Test Sequence > Bit Error Test > P.Loss
Syntax	:FETCh:DATA:TELecom:IOPTics:BERT:ALARm:PLOSs?
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Pattern Loss Verdict of connected transceiver.
	ABSENT: Pattern Loss is not detected.
	PRESENT: Pattern Loss is detected.
	HISTORYPRESENT: Pattern Loss was detected previously.
Example(s)	FETC:DATA:TEL:IOPT:BERT:ALAR:PLOS?
See Also	FETC:DATA:TEL:CAUI:ALAR:LANE:HIST?

:FETCh:DATA:TELecom:IOPTics:BERT:COUNt:VERDict?

Description	This query returns the Pass/Fail Verdict for Count of Bit Error Test of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Sub-Test Sequence > Bit Error Test > Count Verdict
Syntax	:FETCh:DATA:TELecom:IOPTics:BERT:COUNt:VERDict?
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Count Verdict of connected transceiver.
	PASS: Verdict is Pass.
	FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:BERT:COUN:VERD?
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:BERT:COUNt?

Description	This query returns the Bert Count of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Sub-Test Sequence > Bit Error Test > Count
Syntax	:FETCh:DATA:TELecom:IOPTics:BERT:COUNt?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Bit Error Count for Bit Error Test of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:BERT:COUN?
See Also	FETCh:DATA:TELecom:IOPTics:MONitoring:POWer:MAXimum?

:FETCh:DATA:TELecom:IOPTics:BERT:STATus?

Description	This query returns the Bit Error Test status of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Sub-Test Sequence > Bit Error Test
Syntax	:FETCh:DATA:TELecom:IOPTics:BERT:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Bit Error Test Status.
	PENDING: Pending
	RUNNING: Testing
	COMPLETED: Completed
	ABORTED: Aborted
Example(s)	FETC:DATA:TEL:IOPT:BERT:STAT?
See Also	FETCh:DATA:TELecom:IOPTics:IINTerface:QCHeck:TEST:STATus?

:FETCh:DATA:TELecom:IOPTics:BERT:VERDict?

Description	This query returns the Pass/Fail Verdict for Bit Error Test of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Sub-Test Sequence > Bit Error Test > Verdict
Syntax	:FETCh:DATA:TELecom:IOPTics:BERT:VERDict?
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Verdict for Bit Error Test of connected transceiver.
	PASS: Verdict is Pass.
	FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:BERT:VERD?
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:IINTerface:PINS:VERDict?

Description	This query returns the Pass/Fail Verdict of Pins of I/O Interface Quick Check Test of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Sub-Test Sequence > I/O Interface Quick Check > Pins > Verdict
Syntax	:FETCh:DATA:TELecom:IOPTics:IINTerface:PINS:VERDict?
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Pins Verdict.
	PASS: Verdict is Pass.
	FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:IINT:PINS:VERD?
	Returns: PASS
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:IINTerface:QCHeck:TEST:STATus?

Description	This query returns the I/O Interface Quick Check Test status of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Sub-Test Sequence > I/O Interface Quick Check
Syntax	:FETCh:DATA:TELecom:IOPTics:IINTerface:QCHeck:TEST:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the I/O Interface Quick Check Test Status.
	PENDING: Pending
	RUNNING: Testing
	COMPLETED: Completed
	ABORTED: Aborted
Example(s)	FETC:DATA:TEL:IOPT:IINT:QCH:TEST:STAT?
	Returns: COMPLETED
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:IINTerface:QCHeck:TEST:VERDict?

Description	This query returns the Pass/Fail Verdict of I/O Interface Quick Check Test of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Sub-Test Sequence > I/O Interface Quick Check > Verdict
Syntax	:FETCh:DATA:TELecom:IOPTics:IINTerface:QCHeck:TEST:VERDict?
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Verdict for I/O Interface Quick Check Test.
	PASS: Verdict is Pass.
	FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:IINT:QCH:TEST:VERD?
	Returns: PASS
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:IINTerface:TYPe:VERDict?

Description	This query returns the Pass/Fail Verdict for I2C or MDIO Type Pins of I/O Interface Quick Check Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > I/O Interface Quick Check > I2C or MDIO > Verdict
Syntax	:FETCh:DATA:TELecom:IOPTics:IINTerface:TYPe:VERDict?
Response Syntax	\<Verdict\>
Response(s)	**Verdict**: The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA\> element. Returns the MDIO or I2C verdict. PASS: Verdict is Pass. FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:IINT:TYP:VERD? Returns: PASS
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:MONitoring:CURRent:ACTual ?

Description	This query returns the Actual Current Consumption of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Monitoring > Power Consumption > Current(A) Actual
Syntax	:FETCh:DATA:TELecom:IOPTics:MONitoring:CURRent:ACTual?
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Actual Current of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:MON:CURR:ACT?
	Returns: 1.120000
See Also	FETCh:DATA:TELecom:IOPTics:MONitoring:POWer:ACTual?

:FETCh:DATA:TELecom:IOPTics:MONitoring:CURRent:MAXimum?

Description	This query returns the Maximum Current Consumption of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Monitoring > Power Consumption > Current(A) Maximum
Syntax	:FETCh:DATA:TELecom:IOPTics:MONitoring:CURRent:MAXimum?
Response Syntax	<MaxCurrent>
Response(s)	**MaxCurrent**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Maximum Current of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:MON:CURR:MAX?
	Returns: 1.120000
See Also	FETCh:DATA:TELecom:IOPTics:MONitoring:POWer:MAXimum?

:FETCh:DATA:TELecom:IOPTics:MONitoring:POWer:ACTual?

Description	This query returns the Actual Power Consumption of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Monitoring > Power Consumption > Power(W) Actual
Syntax	:FETCh:DATA:TELecom:IOPTics:MONitoring:POWer:ACTual?
Response Syntax	<Power>
Response(s)	**Power**: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the Actual Power of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:MON:POW:ACT? Returns: 1.120000
See Also	FETCh:DATA:TELecom:IOPTics:MONitoring:CURRent:ACTual?

:FETCh:DATA:TELecom:IOPTics:MONitoring:POWer:MAXimum?

Description	This query returns the Maximum Power Consumption of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Monitoring > Power Consumption > Power(W) Maximum
Syntax	:FETCh:DATA:TELecom:IOPTics:MONitoring:POWer:MAXimum?
Response Syntax	\<MaxPower>
Response(s)	**MaxPower**:
	The response data syntax for the first parameter is defined as a \<NR2 NUMERIC RESPONSE DATA> element.
	Returns the Maximum Power of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:MON:POW:MAX?
	Returns: 1.120000
See Also	FETCh:DATA:TELecom:IOPTics:MONitoring:CURRent:MAXimum?

:FETCh:DATA:TELecom:IOPTics:MONitoring:POWer:VERDict?

Description	This query returns the Pass/Fail Verdict of Power Consumption Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Monitoring > Power Consumption > Verdict
Syntax	:FETCh:DATA:TELecom:IOPTics:MONitoring:POWer:VERDict?
Response Syntax	\<Verdict\>
Response(s)	**Verdict**: The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA\> element. Returns the Verdict for Power Consumption Test Status of connected transceiver. PASS: Verdict is Pass. FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:MON:POW:VERD? Returns: PASS
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:MONitoring:TEMPerature:ACTual?

Description	This query returns the Actual Temperature of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Monitoring > Temperature > Temperature(C) Actual
Syntax	:FETCh:DATA:TELecom:IOPTics:MONitoring:TEMPerature:ACTual?
Response Syntax	<Temperature>
Response(s)	**Temperature**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Actual Temperature of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:MON:TEMP:ACT?
	Returns: 23
See Also	FETCh:DATA:TELecom:IOPTics:MONitoring:CURRent:ACTual?

:FETCh:DATA:TELecom:IOPTics:MONitoring:TEMPerature:MAXimum?

Description	This query returns the Maximum Temperature of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Monitoring > Temperature > Temperature(C) Maximum
Syntax	:FETCh:DATA:TELecom:IOPTics:MONitoring:TEMPerature:MAXimum?
Response Syntax	\<Temperature\>
Response(s)	**Temperature**:
	The response data syntax for the first parameter is defined as a \<NR2 NUMERIC RESPONSE DATA\> element.
	Returns the Maximum Temperature of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:MON:TEMP:MAX?
	Returns: 21
See Also	FETCh:DATA:TELecom:IOPTics:MONitoring:CURRent:ACTual?

:FETCh:DATA:TELecom:IOPTics:MONitoring:TEMPerature:VERDict?

Description	This query returns the Pass/Fail Verdict of Temperature Test of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Monitoring > Temperature > Verdict
Syntax	:FETCh:DATA:TELecom:IOPTics:MONitoring:TEMPerature:VERDict?
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Verdict for Temperature Test Status of connected transceiver.
	PASS: Verdict is Pass.
	FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:MON:TEMP:VERD?
	Returns: PASS
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:MONitoring:TEST:STATus?

Description	This query returns the Test status of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Test Status
Syntax	:FETCh:DATA:TELecom:IOPTics:MONitoring:TEST:STATus?
Response Syntax	<Status>

Response(s)

Status:

The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.

Returns the Test Status for connected transceiver.

CALIBRATING: Calibrating in progress

NOABORTCONDITION: No Aborted Condition

INVALIDDUT: Invalid Device Under Test

LASEROFF: Laser is Off

LOSSOFSIGNAL: Loss Of Signal

SIGNALOVERLOAD: Signal Overload

HIGHERPOWERCLASS: Higher Power Class

DEVICEPULLED: Device Pulled

USERSTOPPED: User Stopped

MISSINGDUT: Missing Device Under Test

MISSINGTA: Missing TA

INVALIDTA: Invalid TA

FAILED: Failed

Example(s)	FETC:DATA:TEL:IOPT:MON:TEST:STAT?
See Also	FETCh:DATA:TELecom:IOPTics:IINTerface:QCHeck:TEST:STATus?

:FETCh:DATA:TELecom:IOPTics:ORX:PTESt:MAXimum:VERDict?

Description	This query returns the Pass/Fail Verdict of Maximum Received power for Optical RX Power Test of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Sub-Test Sequence > Optical RX Power Test (dBm) > Max Verdict
Syntax	:FETCh:DATA:TELecom:IOPTics:ORX:PTESt:MAXimum:VERDict?
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Verdict for Maximum Received Power of connected transceiver.
	PASS: Verdict is Pass.
	FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:ORX:PTES:MAX:VERD?
	Returns: PASS
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:ORX:PTESt:MAXimum?

Description	This query returns the Maximum Received power for Optical RX Power Test of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Sub-Test Sequence > Optical RX Power Test (dBm) > Max
Syntax	:FETCh:DATA:TELecom:IOPTics:ORX:PTESt:MAXimum?
Response Syntax	\<Max>
Response(s)	**Max**:
	The response data syntax for the first parameter is defined as a \<NR2 NUMERIC RESPONSE DATA> element.
	Returns the Maximum Received Power of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:ORX:PTES:MAX?
	Returns: 1.120000
See Also	FETCh:DATA:TELecom:IOPTics:MONitoring:POWer:MAXimum?

:FETCh:DATA:TELecom:IOPTics:ORX:PTESt:MINimum:VERDict?

Description	This query returns the Pass/Fail Verdict of Minimum Received power for Optical RX Power Test of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Sub-Test Sequence > Optical RX Power Test (dBm) > Min Verdict
Syntax	:FETCh:DATA:TELecom:IOPTics:ORX:PTESt:MINimum:VERDict?
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Verdict for Minimum Received Power of connected transceiver.
	PASS: Verdict is Pass.
	FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:ORX:PTES:MIN:VERD?
	Returns: PASS
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:ORX:PTESt:MINimum?

Description	This query returns the Minimum Received power for Optical RX Power Test of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Sub-Test Sequence > Optical RX Power Test (dBm) > Min
Syntax	:FETCh:DATA:TELecom:IOPTics:ORX:PTESt:MINimum?
Response Syntax	<Min>
Response(s)	**Min**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Minimum Received Power of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:ORX:PTES:MIN?
	Returns: 1.120000
See Also	FETCh:DATA:TELecom:IOPTics:MONitoring:POWer:MAXimum?

:FETCh:DATA:TELecom:IOPTics:ORX:PTESt:STATus?

Description	This query returns the Received power Test status of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Sub-Test Sequence > Optical RX Power Test (dBm)
Syntax	:FETCh:DATA:TELecom:IOPTics:ORX:PTESt:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Optical RX Power Test Status.
	PENDING: Pending
	RUNNING: Testing
	COMPLETED: Completed
	ABORTED: Aborted
Example(s)	FETC:DATA:TEL:IOPT:ORX:PTES:STAT?
	Returns: COMPLETED
See Also	FETCh:DATA:TELecom:IOPTics:IINTerface:QCHeck:TEST:STATus?

:FETCh:DATA:TELecom:IOPTics:ORX:PTESt:VERDict?

Description	This query returns the Pass/Fail Verdict of Received power for Optical RX Power Test of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Sub-Test Sequence > Optical RX Power Test (dBm) > Verdict
Syntax	:FETCh:DATA:TELecom:IOPTics:ORX:PTESt:VERDict?
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Verdict for Received Power of connected transceiver.
	PASS: Verdict is Pass.
	FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:ORX:PTES:VERD?
	Returns: PASS
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:OTX:PTESt:MAXimum:VERDict?

Description	This query returns the Pass/Fail Verdict of Maximum Transmitted power for Optical TX Power Test of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Sub-Test Sequence > Optical TX Power Test (dBm) > Max Verdict
Syntax	:FETCh:DATA:TELecom:IOPTics:OTX:PTESt:MAXimum:VERDict?
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Verdict for Maximum Transmitted Power of connected transceiver.
	PASS: Verdict is Pass.
	FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:OTX:PTES:MAX:VERD?
	Returns: PASS
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:OTX:PTESt:MAXimum?

Description	This query returns the Maximum Transmitted power for Optical TX Power Test of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Sub-Test Sequence > Optical TX Power Test (dBm) > Max
Syntax	:FETCh:DATA:TELecom:IOPTics:OTX:PTESt:MAXimum?
Response Syntax	<Max>
Response(s)	**Max**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Maximum Transmitted Power of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:OTX:PTES:MAX?
	Returns: 1.120000
See Also	FETCh:DATA:TELecom:IOPTics:MONitoring:POWer:MAXimum?

:FETCh:DATA:TELecom:IOPTics:OTX:PTESt:MINimum:VERDict?

Description	This query returns the Pass/Fail Verdict of Minimum Transmitted power for Optical TX Power Test of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Sub-Test Sequence > Optical TX Power Test (dBm) > Min Verdict
Syntax	:FETCh:DATA:TELecom:IOPTics:OTX:PTESt:MINimum:VERDict?
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Verdict for Minimum Transmitted Power of connected transceiver.
	PASS: Verdict is Pass.
	FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:OTX:PTES:MIN:VERD?
	Returns: PASS
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:OTX:PTESt:MINimum?

Description	This query returns the Minimum Transmitted power for Optical TX Power Test of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Sub-Test Sequence > Optical TX Power Test (dBm) > Min
Syntax	:FETCh:DATA:TELecom:IOPTics:OTX:PTESt:MINimum?
Response Syntax	<Min>
Response(s)	**Min**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Minimum Transmitted Power of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:OTX:PTES:MIN?
	Returns: 1.120000
See Also	FETCh:DATA:TELecom:IOPTics:MONitoring:POWer:MAXimum?

:FETCh:DATA:TELecom:IOPTics:OTX:PTESt:STATus?

Description	This query returns the Transmitted power Test status of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Optical TX Power Test (dBm)
Syntax	:FETCh:DATA:TELecom:IOPTics:OTX:PTESt:STATus?
Response Syntax	<Status>
Response(s)	**Status**: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Optical TX Power Test Status. PENDING: Pending RUNNING: Testing COMPLETED: Completed ABORTED: Aborted
Example(s)	FETC:DATA:TEL:IOPT:OTX:PTES:STAT? Returns: COMPLETED
See Also	FETCh:DATA:TELecom:IOPTics:IINTerface:QCHeck:TEST:STATus?

:FETCh:DATA:TELecom:IOPTics:OTX:PTESt:VERDict?

Description	This query returns the Pass/Fail Verdict of Transmitted power for Optical TX Power Test of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Sub-Test Sequence > Optical TX Power Test (dBm) > Verdict
Syntax	:FETCh:DATA:TELecom:IOPTics:OTX:PTESt:VERDict?
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Verdict for Transmitted Power of connected transceiver.
	PASS: Verdict is Pass.
	FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:OTX:PTES:VERD?
	Returns: PASS
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:SKEW:MAXimum:VERDict?

Description	This query returns the Pass/Fail Verdict of Max Skew of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Sub-Test Sequence > Excessive Skew Test > Max Skew Verdict
Syntax	:FETCh:DATA:TELecom:IOPTics:SKEW:MAXimum:VERDict?
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Verdict for Max Skew.
	PASS: Verdict is Pass.
	FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:SKEW:MAX:VERD?
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?

:FETCh:DATA:TELecom:IOPTics:SKEW:MAXimum?

Description	This query returns the Maximum Skew of Excessive Skew of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Sub-Test Sequence > Excessive Skew Test > Max Skew
Syntax	:FETCh:DATA:TELecom:IOPTics:SKEW:MAXimum?
Response Syntax	<MaxSkew>
Response(s)	**MaxSkew**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Max Skew of connected transceiver.
Example(s)	FETC:DATA:TEL:IOPT:SKEW:MAX?
See Also	FETCh:DATA:TELecom:IOPTics:MONitoring:CURRent:MAXimum?

:FETCh:DATA:TELecom:IOPTics:SKEW:STATus?

Description	This query returns the Received Excessive Skew Test status of connected transceiver for iOptics Application.
	At *RST condition, this value is Device Dependent.
	Navigation Path: Results > Summary > Sub-Test Sequence > Excessive Skew Test Status
Syntax	:FETCh:DATA:TELecom:IOPTics:SKEW:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Excessive Skew Test Status.
	PENDING: Pending
	RUNNING: Testing
	COMPLETED: Completed
	ABORTED: Aborted
Example(s)	FETC:DATA:TEL:IOPT:SKEW:STAT?
See Also	FETCh:DATA:TELecom:IOPTics:IINTerface:QCHeck:TEST:STATus?

:FETCh:DATA:TELecom:IOPTics:SKEW:VERDict?

Description	This query returns the Pass/Fail Verdict of Excessive Skew Test of connected transceiver for iOptics Application. At *RST condition, this value is Device Dependent. Navigation Path: Results > Summary > Sub-Test Sequence > Excessive Skew Test > Verdict
Syntax	:FETCh:DATA:TELecom:IOPTics:SKEW:VERDict?
Response Syntax	\<Verdict>
Response(s)	**Verdict**: The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA> element. Returns the Verdict for Excessive Skew Test of connected transceiver. PASS: Verdict is Pass. FAIL: Verdict is Fail.
Example(s)	FETC:DATA:TEL:IOPT:SKEW:VERD?
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?

Summary (FlexE)

:FETCh:DATA:TELecom:FETHernet:CLIent:THReshold:VERDict?

Description	This query returns status of the verdict, for a given FlexE client.
	For the client associated with pattern, the verdict is declared 'failed' if any bit error(s), pattern loss, ethernet alarm(s) or FCS error(s) occur.
	For the other clients, the verdict is declared 'failed' if any ethernet alarm(s) or FCS error(s) occur.
	Navigation Path: Results -> Summary -> Client
Syntax	:FETCh:DATA:TELecom:FETHernet:CLIent:THReshold:VERDict?
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the status of the verdict, for a given FlexE client.
	PASS, Verdict is pass.
	FAIL, Verdict is fail.
	UNDEFINED, Undefined verdict.
Example(s)	FETCh:DATA:TELecom:FETHernet:CLIent:THReshold:VERDict?
See Also	SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier
	SOURce:DATA:TELecom:FETHernet:PATTern:CLIent:IDentifier
	SOURce:DATA:TELecom:PATTern:VERDict:DISable
	SENSe:DATA:TELecom:PATTern:THReshold:COUNt
	SENSe:DATA:TELecom:PATTern:THReshold:RATE

:SENSe:DATA:TELecom:ETHernet:PACKet:LINE:RATE?

Description	This query returns the transmitting/receiving line rate in bit per second (bps).
	Navigation Path: Results > Summary > FlexE Clients
Syntax	:SENSe:DATA:TELecom:ETHernet:PACKet:LINE:RATE? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	The signal direction of the line rate
	RX Specifies the receiving line rate
	TX Specifies the transmitting line rate
Response Syntax	<Line rate in bps>
Response(s)	**Line rate in bps**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	The line rate in bit per second (bps) for the specified direction
Example(s)	SENS:DATA:TEL:ETH:PACK:LINE:RATE? RX
See Also	SENSe:DATA:TELecom:ETHernet:PACKet:LINE:UTILization?

Summary - Path OAM pop-up (FlexE)

:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:RX:CCM:COUNt?

Description	This query returns the FlexE Path OAM Continuity Check function RX BAS count
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Path OAM Client - Path OAM > Basic OAM - RX BAS Count
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:RX:CCM:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the RX CCM count
Example(s)	FETC:DATA:TEL:FETH:POAM:BOAM:RX:CCM:COUN?

:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:RX:CCSTatus?

Description	This query returns the FlexE Path OAM Continuity check function status
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Path OAM Client - Path OAM > Basic OAM - CC Status
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:RX:CCSTatus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Continuity Check function status
	PEND: Pending
	LOCO: Loss of Continuity
	UPER: Unexpected Period
	RMES: Received Message
Example(s)	FETC:DATA:TEL:FETH:POAM:BOAM:RX:CCST?
	Returns: PEND
See Also	FETCh:DATA:TELecom:FETHernet:POAM:CVER:RX:CVSTatus?

:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:TX:CCM:COUNt?

Description	This query returns the FlexE Path OAM Ccontinuity check function TX CCM count
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary >Basic OAM > TX BAS Count
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:TX:CCM:COUNt?
Response Syntax	<Value>
Response(s)	Value:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the TX CCM count
Example(s)	FETC:DATA:TEL:FETH:POAM:BOAM:TX:CCM:COUN?

:FETCh:DATA:TELecom:FETHernet:POAM:CSIG:RX:CSMessage:COUNt?

Description	This query returns the FlexE Path OAM Client Signal function RX CSM count
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Client Signal > RX CSM - Count
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:CSIG:RX:CSMessage:COUNt?
Response Syntax	<Value>
Response(s)	Value:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the RX CSM count
Example(s)	FETC:DATA:TEL:FETH:POAM:CSIG:RX:CSM:COUN?

:FETCh:DATA:TELecom:FETHernet:POAM:CSIG:RX:CSSTatus?

Description

This query returns the FlexE Path OAM Client Signal function status

At *RST condition, this value is device dependent.

Navigation Path: Results > Summary > Path OAM > CS Type > Status

Syntax

:FETCh:DATA:TELecom:FETHernet:POAM:CSIG:RX:CSSTatus?

Response Syntax

<Status>

Response(s)

Status:

The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.

Returns the Client Signal function status

PENDING: Pending

NORMAL: Normal

CSTYPE_MISMATCH: CS Type Mismatch

Example(s)

FETC:DATA:TEL:FETH:POAM:CSIG:RX:CSST?

Returns: PENDING

See Also

FETCh:DATA:TELecom:FETHernet:POAM:CVER:RX:CVSTatus?

:FETCh:DATA:TELecom:FETHernet:POAM:CSIG:TX:CSMessage :COUNt?

Description	This query returns the FlexE Path OAM Client Signal function TX CSM count
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Client Signal > TX CSM - Count
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:CSIG:TX:CSMessage:COUNt?
Response Syntax	<Value>
Response(s)	Value:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the TX CSM count
Example(s)	FETC:DATA:TEL:FETH:POAM:CSIG:TX:CSM:COUN?

:FETCh:DATA:TELecom:FETHernet:POAM:CSIG:TYPE:REC?

Description	This query returns the FlexE Path OAM received Client Signal type
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Summary > Client Signal > CS Type - Received
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:CSIG:TYPE:REC?
Response Syntax	<Client Signal Type>
Response(s)	**Client Signal Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Received Client Signal Type
Example(s)	FETC:DATA:TEL:FETH:POAM:CSIG:TYPE:REC?
	Returns CSTYPE_SDH
See Also	SENSe:DATA:TELecom:FETHernet:POAM:CSIGnal:TYPE:EXPexted?

:FETCh:DATA:TELecom:FETHernet:POAM:CVER:DAPI:RECeived?

Description	This query returns the FlexE Path OAM connectivity verification DAPI received message
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > Connectivity Verification > DAPI - Received Message
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:CVER:DAPI:RECeived?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the received message.
Example(s)	FETC:DATA:TEL:FETH:POAM:CVER:DAPI:REC?

:FETCh:DATA:TELecom:FETHernet:POAM:CVER:RX:CVM:COUNt?

Description	This query returns the FlexE Path OAM Connectivity Verification function RX CVM count
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Connectivity Verification > RX CVM - Count
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:CVER:RX:CVM:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the RX CVM count
Example(s)	FETC:DATA:TEL:FETH:POAM:CVER:RX:CVM:COUN?

:FETCh:DATA:TELecom:FETHernet:POAM:CVER:RX:CVSTatus?

Description	This query returns the FlexE Path OAM Connectivity Verification function status
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Connectivity Verification > CV Status
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:CVER:RX:CVSTatus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Connectivity Verification function status
	PENDING: Pending
	NORMAL: Normal
	SAPI_M: SAPI Mismatch
	DAPI_M: DAPI Mismatch
	SAPI_DAPI_M: SAPI and DAPI Mismatch
Example(s)	FETC:DATA:TEL:FETH:POAM:CVER:RX:CVST?
	Returns: PENDING
See Also	FETCh:DATA:TELecom:FETHernet:POAM:BOAM:RX:CCSTatus?

:FETCh:DATA:TELecom:FETHernet:POAM:CVER:SAPI:RECeived?

Description	This query returns the FlexE Path OAM connectivity verification SAPI received message
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > Connectivity Verification > SAPI - Received Message
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:CVER:SAPI:RECeived?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the received message.
Example(s)	FETC:DATA:TEL:FETH:POAM:CVER:SAPI:REC?

:FETCh:DATA:TELecom:FETHernet:POAM:CVER:TX:CVM:COUNt?

Description	This query returns the FlexE Path OAM Connectivity Verification function TX CVM count
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Connectivity Verification > TX CVM - Count
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:CVER:TX:CVM:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the TX CVM count
Example(s)	FETC:DATA:TEL:FETH:POAM:CVER:TX:CVM:COUN?

:FETCh:DATA:TELecom:FETHernet:POAM:DELay:RX:AVERage?

Description	This query returns the FlexE Path OAM Delay Measurent function Average delay in nanosecond (ns)
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Delay Measurent > Delay - Average
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:DELay:RX:AVERage?
Response Syntax	<Value>
Response(s)	Value:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Delay Measurement Average delay
Example(s)	FETC:DATA:TEL:FETH:POAM:DEL:RX:AVER?
See Also	FETCh:DATA:TELecom:FETHernet:POAM:DELay:RX:LAST?

:FETCh:DATA:TELecom:FETHernet:POAM:DELay:RX:DMR:COUNt?

Description	This query returns the FlexE Path OAM Delay Measurent function RX 2DMR count
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Delay Measurent > RX 2DMR - Count
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:DELay:RX:DMR:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the RX 2DMR count
Example(s)	FETC:DATA:TEL:FETH:POAM:DEL:RX:DMR:COUN?
See Also	FETCh:DATA:TELecom:FETHernet:POAM:BOAM:RX:CCM:COUNt?

:FETCh:DATA:TELecom:FETHernet:POAM:DELay:RX:LAST?

Description	This query returns the FlexE Path OAM Delay Measurent function Last delay in nanosecond (ns)
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Delay Measurent > Delay - Last
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:DELay:RX:LAST?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Delay Measurement Last delay
Example(s)	FETC:DATA:TEL:FETH:POAM:DEL:RX:LAST?
See Also	FETCh:DATA:TELecom:FETHernet:POAM:DELay:RX:AVERage?

:FETCh:DATA:TELecom:FETHernet:POAM:DELay:RX:MAXimum?

Description	This query returns the FlexE Path OAM Delay Measurent function Maximum delay in nanosecond (ns)
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Delay Measurent > Delay - Maximum
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:DELay:RX:MAXimum?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Delay Measurement Maximum delay
Example(s)	FETC:DATA:TEL:FETH:POAM:DEL:RX:MAX?
See Also	FETCh:DATA:TELecom:FETHernet:POAM:DELay:RX:LAST?

:FETCh:DATA:TELecom:FETHernet:POAM:DELay:RX:MINimum?

Description	This query returns the FlexE Path OAM Delay Measurent function Minimum delay in nanosecond (ns)
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Delay Measurent > Delay - Minimum
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:DELay:RX:MINimum?
Response Syntax	<Value>
Response(s)	Value:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Delay Measurement Minimum delay
Example(s)	FETC:DATA:TEL:FETH:POAM:DEL:RX:MIN?
See Also	FETCh:DATA:TELecom:FETHernet:POAM:DELay:RX:MAXimum?

:FETCh:DATA:TELecom:FETHernet:POAM:DELay:TX:DMM:COUNt?

Description	This query returns the FlexE Path OAM Delay Measurent function TX 2DMM count
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Delay Measurent > TX 2DMM - Count
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:DELay:TX:DMM:COUNt?
Response Syntax	<Value>
Response(s)	Value:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the TX 2DMM count
Example(s)	FETC:DATA:TEL:FETH:POAM:DEL:TX:DMM:COUN?
See Also	FETCh:DATA:TELecom:FETHernet:POAM:BOAM:TX:CCM:COUNt?

:FETCh:DATA:TELecom:FETHernet:POAM:DELay:TX:DSTatus?

Description	This query returns the FlexE Path OAM Delay Measurement function status
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Path OAM
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:DELay:TX:DSTatus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	ABOR: Aborted
	COMP: Completed
	IDLE: Idle
	INPR: In Progress
Example(s)	FETC:DATA:TEL:FETH:POAM:DEL:TX:DST?
See Also	FETCh:DATA:TELecom:FETHernet:POAM:BOAM:RX:CCSTatus?

:FETCh:DATA:TELecom:FETHernet:POAM:THReshold:VERDict ?

Description	This query returns status of the verdict, for a given FlexE Path OAM.
	Navigation Path: Results -> Summary -> Path OAM
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:THReshold:VERDict?
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the status of the verdict, for FlexE Path OAM.
	PASS, Verdict is pass.
	FAIL, Verdict is fail.
	UNDEFINED, Undefined verdict.
Example(s)	FETC:DATA:TEL:FETH:POAM:THR:VERD?
See Also	FETCh:DATA:TELecom:FETHernet:CLIent:THReshold:VERDict?

Alarms/Errors

:FETCh:DATA:TELecom:ALARm:CURRent?

Description	This query returns the current status of all alarms related to the test such as Port, Ethernet, Pattern and Other. It also returns the combined status for all the tests.
	At *RST condition, this value is device dependent.
Syntax	:FETCh:DATA:TELecom:ALARm:CURRent? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects all alarms related to the selected test and all the tests.
	1588PTP, CLOCK, CPRI, DS1, DS3, E1, E2, E3, E4, ELECTRICAL, ETHernet, FCHannel, GFPChannel, GFPFrame, HOPTCM, LINE, LOP, LOPTCM, LOPTU3, OAM, ODU0, ODU0GMP, ODU1, ODU1E, ODU1ETCM, ODU1F, ODU1FTCM, ODU2, ODU2E, ODU2ETCM, ODU2F, ODU2FTCM, ODU2GMP, ODU3, ODU3E1, ODU3E1TCM, ODU3E2, ODU3E2TCM, ODU3GMP, ODU4, ODU4GMP, ODU4TCM, ODUFLEX, ODUFLEXTCM, ODUTCM0, ODUTCM1, ODUTCM2, ODUTCM3, OPTICAL, OPU0, OPU1, OPU1E, OPU1F, OPU2, OPU2E, OPU2F, OPU3, OPU3E1, OPU3E2, OPU4, OPUFLEX, OTL, OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F, OTU3, OTU3E1, OTU3E2, OTU4, PATH, PATTern, PCS, PORT, RSFEC, SECTION, SYNCE, WIS, XCODING
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<Current>

:FETCh:DATA:TELecom:ALARm:CURRent?

Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the current alarmed status of the selected test and all the tests.
Example(s)	FETC:DATA:TEL:ALAR:CURR? PORT
	FETC:DATA:TEL:ALAR:CURR? ODU0, 3
See Also	FETCh:DATA:TELecom:ALARm:HISTory?
	FETCh:DATA:TELecom:ALARm:SEConds?

:FETCh:DATA:TELecom:ALARm:HISTory?

Description	This query returns the history status of all alarms related to the test such as Port, Ethernet, Pattern and Other. It also returns the combined status for all the tests.
	At *RST condition, this value is device dependent.
Syntax	:FETCh:DATA:TELecom:ALARm:HISTory? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects all alarms related to the selected test and all the tests.
	1588PTP, CLOCK, CPRI, DS1, DS3, E1, E2, E3, E4, ELECTRICAL, ETHernet, FCHannel, GFPChannel, GFPFrame, HOPTCM, LINE, LOP, LOPTCM, LOPTU3, OAM, ODU0, ODU0GMP, ODU1, ODU1E, ODU1ETCM, ODU1F, ODU1FTCM, ODU2, ODU2E, ODU2ETCM, ODU2F, ODU2FTCM, ODU2GMP, ODU3, ODU3E1, ODU3E1TCM, ODU3E2, ODU3E2TCM, ODU3GMP, ODU4, ODU4GMP, ODU4TCM, ODUFLEX, ODUFLEXTCM, ODUTCM0, ODUTCM1, ODUTCM2, ODUTCM3, OPTICAL, OPU0, OPU1, OPU1E, OPU1F, OPU2, OPU2E, OPU2F, OPU3, OPU3E1, OPU3E2, OPU4, OPUFLEX, OTL, OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F, OTU3, OTU3E1, OTU3E2, OTU4, PATH, PATTern, PCS, PORT, RSFEC, SECTION, SYNCE, WIS, XCODING
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the alarmed history status of the selected test and all the tests.
Example(s)	FETC:DATA:TEL:ALAR:HIST? PORT
	FETC:DATA:TEL:ALAR:HIST? ODU0, 3
See Also	FETCh:DATA:TELecom:ALARm:CURRent?
	FETCh:DATA:TELecom:ALARm:SEConds?

:FETCh:DATA:TELecom:ALARm:SEConds?

Description	This query returns the number of seconds within which all alarms related to the test such as Port, Ethernet, Pattern and Other. It also returns the combined status for all the tests.
	At *RST condition, this value is device dependent.
Syntax	:FETCh:DATA:TELecom:ALARm:SEConds? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects all alarms related to the selected test and all the tests.
	1588PTP, CLOCK, CPRI, DS1, DS3, E1, E2, E3, E4, ELECTRICAL, ETHernet, FCHannel, GFPChannel, GFPFrame, HOPTCM, LINE, LOP, LOPTCM, LOPTU3, OAM, ODU0, ODU0GMP, ODU1, ODU1E, ODU1ETCM, ODU1F, ODU1FTCM, ODU2, ODU2E, ODU2ETCM, ODU2F, ODU2FTCM, ODU2GMP, ODU3, ODU3E1, ODU3E1TCM, ODU3E2, ODU3E2TCM, ODU3GMP, ODU4, ODU4GMP, ODU4TCM, ODUFLEX, ODUFLEXTCM, ODUTCM0, ODUTCM1, ODUTCM2, ODUTCM3, OPTICAL, OPU0, OPU1, OPU1E, OPU1F, OPU2, OPU2E, OPU2F, OPU3, OPU3E1, OPU3E2, OPU4, OPUFLEX, OTL, OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F, OTU3, OTU3E1, OTU3E2, OTU4, PATH, PATTern, PCS, PORT, RSFEC, SECTION, SYNCE, WIS, XCODING
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the number of seconds within which the selected test alarms and all the test alarms occurred.
Example(s)	FETC:DATA:TEL:ALAR:SEC? PORT
	FETC:DATA:TEL:ALAR:SEC? ODU0, 3
See Also	FETCh:DATA:TELecom:ALARm:HISTory?
	FETCh:DATA:TELecom:ALARm:CURRent?

:FETCh:DATA:TELecom:CAUI:ALARm:GLOBal:CURRent?

Description	This query returns the current status of Interface (Parallel - global) alarm.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarm/Errors > Interface > Alarms
Syntax	:FETCh:DATA:TELecom:CAUI:ALARm:GLOBal:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm.
	FREQuency: Frequency
	LOC: LOC Lane
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CAUI:ALAR:GLOB:CURR? FREQ
See Also	FETCh:DATA:TELecom:OPTical:ALARm:PORT:GLOBal:HISTory?

:FETCh:DATA:TELecom:CAUI:ALARm:GLOBal:HISTory?

Description	This query returns the history status of Interface (Parallel - global) alarm.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarm/Errors > Interface > Alarms
Syntax	:FETCh:DATA:TELecom:CAUI:ALARm:GLOBal:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	FREQuency: Frequency
	LOC: LOC Lane
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CAUI:ALAR:GLOB:HIST? FREQ
See Also	FETCh:DATA:TELecom:OPTical:ALARm:PORT:GLOBal:CURRent?

:FETCh:DATA:TELecom:CAUI:ALARm:GLOBal:TX:STATus?

Description	This query returns the current status of global CAUI Lanes alarm.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Setup > OTN BERT > Test Configurator > Setup > TX/RX
	Navigation Path: Setup > OTN SONET/SDH BERT > Test Configurator > Setup > TX/RX
Syntax	:FETCh:DATA:TELecom:CAUI:ALARm:GLOBal:TX:STATus?
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Current status of CAUI alarm.
	PRESENT, indicates that at least one alarm has occurred.
	ABSENT, indicates that no alarm occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:CAUI:ALAR:GLOBal:TX:STATus?
See Also	FETCh:DATA:TELecom:OPTical:MODule:STATus?

:FETCh:DATA:TELecom:CAUI:ALARm:LANE:CURRent?

Description	This query returns the current status of Interface (Parallel - per lane) alarm.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarm/Errors > Interface > Alarms
Syntax	:FETCh:DATA:TELecom:CAUI:ALARm:LANE:CURRent? <wsp><Lane>, <Alarm>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	FREQuency: Frequency
	LOC: LOC Lane
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CAUI:ALAR:LANE:CURR? 1,LOC
	FETC:DATA:TEL:CAUI:ALAR:LANE:CURR? 1,FREQ
See Also	FETCh:DATA:TELecom:OPTical:ALARm:PORT:GLOBal:CURRent?

:FETCh:DATA:TELecom:CAUI:ALARm:LANE:HISTory?

Description	This query returns the history status of Interface (Parallel - per lane) alarm.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarm/Errors > Interface > Alarms
Syntax	:FETCh:DATA:TELecom:CAUI:ALARm:LANE:HISTory? <wsp><Lane>, <Alarm>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	FREQuency: Frequency
	LOC: LOC Lane
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CAUI:ALAR:LANE:HIST? 1,LOC
	FETC:DATA:TEL:CAUI:ALAR:LANE:HIST? 1,FREQ
See Also	FETCh:DATA:TELecom:OPTical:ALARm:PORT:GLOBal:HISTory?

:FETCh:DATA:TELecom:CAUI:ALARm:LANE:SEConds?

Description	This query returns the number of seconds within which Interface (Parallel - per lane) alarm occurred.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarm/Errors > Interface > Alarms
Syntax	:FETCh:DATA:TELecom:CAUI:ALARm:LANE:SEConds? <wsp><Lane>, <Alarm>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	FREQuency: Frequency
	LOC: LOC Lane
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:CAUI:ALAR:LANE:SEC? 1,LOC
	FETC:DATA:TEL:CAUI:ALAR:LANE:SEC? 1,FREQ
See Also	FETCh:DATA:TELecom:OPTical:ALARm:PORT:GLOBal:SEConds?

:FETCh:DATA:TELecom:CPRI:ALARm:CURRent?

Description	This query returns the current status of CPRI alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > CPRI > Alarms
Syntax	:FETCh:DATA:TELecom:CPRI:ALARm:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LDOWn: Link Down
	LOF
	RLOS: R-LOS
	RLOF: R-LOF
	RAI
	SDI
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CPRI:ALAR:CURR?
See Also	FETCH:DATA:TELecom:CPRI:ALARm:HISTory?

:FETCh:DATA:TELecom:CPRI:ALARm:HISTory?

Description	This query returns the history status of CPRI alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > CPRI > Alarms
Syntax	:FETCh:DATA:TELecom:CPRI:ALARm:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LDOWn: Link Down
	LOF
	RLOS: R-LOS
	RLOF: R-LOF
	RAI
	SDI
Response Syntax	<History Status>
Response(s)	**History Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CPRI:ALAR:HIST?
See Also	FETCh:DATA:TELecom:CPRI:ALARm:CURRent?

:FETCh:DATA:TELecom:CPRI:ALARm:SEConds?

Description	This query returns the number of seconds within which CPRI alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > CPRI > Alarms
Syntax	:FETCh:DATA:TELecom:CPRI:ALARm:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LDOWn: Link Down
	LOF
	RLOS: R-LOS
	RLOF: R-LOF
	RAI
	SDI
Response Syntax	<seconds>
Response(s)	**seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:CPRI:ALAR:SEC?
See Also	FETCh:DATA:TELecom:CPRI:ERRor:SEConds?

:FETCh:DATA:TELecom:CPRI:ERRor:COUNt?

Description	This query returns the count of CPRI errors.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > CPRI > Errors
	Navigation Path: Results > Alarms/Errors > Interface > Interface > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:ERRor:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FAS: FAS (CPRI)
	K307: K30.7 (Interface)
	66BBlock: 66B Block (Interface)
	SYNCHEADER : Sync Header (Interface)
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	FETC:DATA:TEL:CPRI:ERR:COUNT? FAS
See Also	FETCh:DATA:TELecom:CPRI:INTerface:ERRor:COUNt?

:FETCh:DATA:TELecom:CPRI:ERRor:CURRent?

Description	This query returns the current status of CPRI error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > CPRI > Errors
	Navigation Path: Results > Alarms/Errors > Interface > Interface > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:ERRor:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FAS: FAS (CPRI)
	K307: K30.7 (Interface)
	66BBlock: 66B Block (Interface)
	SYNCHEADER : Sync Header (Interface)
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CPRI:ERR:CURR? FAS
See Also	FETCh:DATA:TELecom:CPRI:ERRor:HISTory?

:FETCh:DATA:TELecom:CPRI:ERRor:HISTory?

Description	This query returns the history status of CPRI error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > CPRI > Errors
	Navigation Path: Results > Alarms/Errors > Interface > Interface > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:ERRor:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FAS: FAS (CPRI)
	K307: K30.7 (Interface)
	66BBlock: 66B Block (Interface)
	SYNCHEADER : Sync Header (Interface)
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CPRI:ERR:HIST? FAS
See Also	FETCh:DATA:TELecom:CPRI:ERRor:CURRent?

:FETCh:DATA:TELecom:CPRI:ERRor:RATE?

Description	This query returns the current rate of CPRI error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > CPRI > Errors
	Navigation Path: Results > Alarms/Errors > Interface > Interface > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:ERRor:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FAS: FAS (CPRI)
	K307: K30.7 (Interface)
	66BBlock: 66B Block (Interface)
	SYNCHEADER : Sync Header (Interface)
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error.
Example(s)	FETC:DATA:TEL:CPRI:ERR:RATE? FAS
See Also	FETCh:DATA:TELecom:CPRI:INTerface:ERRor:RATE?

:FETCh:DATA:TELecom:CPRI:ERRor:SEConds?

Description	This query returns the number of seconds within which CPRI error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > CPRI > Errors
	Navigation Path: Results > Alarms/Errors > Interface > Interface > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:ERRor:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FAS: FAS (CPRI)
	K307: K30.7 (Interface)
	66BBlock: 66B Block (Interface)
	SYNCHEADER : Sync Header (Interface)
Response Syntax	<seconds>
Response(s)	**seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:CPRI:ERR:SEC? FAS
See Also	FETCh:DATA:TELecom:CPRI:ALARm:SEConds?

:FETCh:DATA:TELecom:CPRI:FEC:ERRor:COUNt?

Description	This query returns the count of FEC error for CPRI 24.3G.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarm/Errors > RS-FEC > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:FEC:ERRor:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of FEC the error:
	FCCW: FEC-COR-CW
	FUCW: FEC-UNCOR-CW
	FSERR: Pre-FEC-SYMB
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the total count of FEC error.
Example(s)	FETC:DATA:TEL:CPRI:FEC:ERR:COUN? FUCW
See Also	FETCh:DATA:TELecom:CPRI:FEC:ERRor:RATE?

:FETCh:DATA:TELecom:CPRI:FEC:ERRor:CURRent?

Description	This query returns the current status of FEC error for CPRI 24.3G.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarm/Errors > RS-FEC > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:FEC:ERRor:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FUCW: FEC-UNCOR-CW
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occured in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CPRI:FEC:ERR:CURR? FUCW
See Also	FETCh:DATA:TELecom:CPRI:FEC:ERRor:HISTory?

:FETCh:DATA:TELecom:CPRI:FEC:ERRor:HISTory?

Description	This query returns the history status of FEC error for CPRI 24.3G.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarm/Errors > RS-FEC > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:FEC:ERRor:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FUCW: FEC-UNCOR-CW
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occured during the test.
	ABSENT: No alarm has occured during the test.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:HIST? FUCW
See Also	FETCh:DATA:TELecom:CPRI:FEC:ERRor:CURRent?

:FETCh:DATA:TELecom:CPRI:FEC:ERRor:RATE?

Description	This query returns the rate of FEC error for CPRI 24.3G.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarm/Errors > RS-FEC > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:FEC:ERRor:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the FEC error:
	FCCW: FEC-COR-CW
	FUCW: FEC-UNCOR-CW
	FSERR: Pre-FEC-SYMB
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	FETC:DATA:TEL:CPRI:FEC:ERR:RATE? FUCW
See Also	FETCh:DATA:TELecom:CPRI:FEC:ERRor:COUNt?

:FETCh:DATA:TELecom:CPRI:FEC:ERRor:SEConds?

Description	This query returns the seconds of FEC error for CPRI 24.3G.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarm/Errors > RS-FEC > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:FEC:ERRor:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of FEC the error:
	FUCW: FEC-UNCOR-CW
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the total number of seconds during which errors occur on FEC
Example(s)	FETC:DATA:TEL:CPRI:FEC:ERR:SEC? FUCW
See Also	FETCh:DATA:TELecom:CPRI:FEC:ERRor:COUNt?

:FETCh:DATA:TELecom:CPRI:INTerface:ERRor:COUNt?

Description	This query returns the count of an Interface (CPRI) error.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:INTerface:ERRor:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CV
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of error.
Example(s)	FETC:DATA:TEL:CPRI:INT:ERR:COUN? CV
See Also	FETCh:DATA:TELecom:CPRI:ERRor:COUNt?

:FETCh:DATA:TELecom:CPRI:INTerface:ERRor:CURRent?

Description	This query returns the current status of an Interface (CPRI) error.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:INTerface:ERRor:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CV
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CPRI:INT:ERR:CURR? CV
See Also	FETCh:DATA:TELecom:CPRI:INTerface:ERRor:HISTory?

:FETCh:DATA:TELecom:CPRI:INTerface:ERRor:HISTory?

Description	This query returns the history status of an Interface (CPRI) error.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:INTerface:ERRor:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CV
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
Example(s)	FETC:DATA:TEL:CPRI:INT:ERR:HIST? CV
See Also	FETCh:DATA:TELecom:CPRI:INTerface:ERRor:CURRent?

:FETCh:DATA:TELecom:CPRI:INTerface:ERRor:RATE?

Description	This query returns the rate of an Interface (CPRI) error.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:INTerface:ERRor:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CV
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of errors.
Example(s)	FETC:DATA:TEL:CPRI:INT:ERR:RATE? CV
See Also	FETCh:DATA:TELecom:CPRI:ERRor:RATE?

:FETCh:DATA:TELecom:CPRI:INTerface:ERRor:SEConds?

Description	This query returns the number of seconds within which an Interface (CPRI) error occurred.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:INTerface:ERRor:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CV
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:CPRI:INT:ERR:SEC? CV
See Also	FETCh:DATA:TELecom:CPRI:ERRor:SEConds?

:FETCh:DATA:TELecom:CPRI:OBSai:ALARm:CURRent?

Description	This query returns the current status of OBSAI alarm.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > OBSAI > Alarms
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:ALARm:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LDOWn: Link Down
	LOF
	RP3: RP3 Address Mismatch
Response Syntax	<Current Status>
Response(s)	**Current Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CPRI:OBSAI:ALAR:CURR? LOF
See Also	FETCh:DATA:TELecom:CPRI:ALARm:HISTory?

:FETCh:DATA:TELecom:CPRI:OBSai:ALARm:HISTory?

Description	This query returns the history status of OBSAI alarm.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > OBSAI > Alarms
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:ALARm:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LDOWn: Link Down
	LOF
	RP3: RP3 Address Mismatch
Response Syntax	<History Status>
Response(s)	**History Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CPRI:OBSAI:ALAR:HIST? LOF
See Also	FETCh:DATA:TELecom:CPRI:ALARm:CURRent?

:FETCh:DATA:TELecom:CPRI:OBSai:ALARm:SEConds?

Description	This query returns the number of seconds within which OBSAI alarm occurred.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > OBSAI > Alarms
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:ALARm:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LDOWn: Link Down
	LOF
	RP3: RP3 Address Mismatch
Response Syntax	<seconds>
Response(s)	**seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:CPRI:OBSAI:ALAR:SEC? LOF
See Also	FETCh:DATA:TELecom:CPRI:ERRor:SEConds?

:FETCh:DATA:TELecom:CPRI:OBSai:ERRor:COUNt?

Description	This query returns the count of OBSAI error.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > OBSAI > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:ERRor:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CRC
	FAS
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of error.
Example(s)	FETC:DATA:TEL:CPRI:OBSAI:ERR:COUNT? FAS
See Also	FETCh:DATA:TELecom:CPRI:INTerface:ERRor:COUNt?

:FETCh:DATA:TELecom:CPRI:OBSai:ERRor:CURRent?

Description	This query returns the current status of OBSAI error.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > OBSAI > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:ERRor:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CRC
	FAS
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CPRI:OBSAI:ERR:CURR? FAS
See Also	FETCh:DATA:TELecom:CPRI:ERRor:HISTory?

:FETCh:DATA:TELecom:CPRI:OBSai:ERRor:HISTory?

Description	This query returns the history status of OBSAI error.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > OBSAI > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:ERRor:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CRC
	FAS
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CPRI:OBSAI:ERR:HIST? FAS
See Also	FETCh:DATA:TELecom:CPRI:ERRor:CURRent?

:FETCh:DATA:TELecom:CPRI:OBSai:ERRor:RATE?

Description	This query returns the reate of OBSAI error.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > OBSAI > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:ERRor:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CRC
	FAS
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error.
Example(s)	FETC:DATA:TEL:CPRI:OBSAI:ERR:RATE? FAS
See Also	FETCh:DATA:TELecom:CPRI:INTerface:ERRor:RATE?

:FETCh:DATA:TELecom:CPRI:OBSai:ERRor:SEConds?

Description	This query returns the number of seconds within which OBSAI error occurred.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > OBSAI > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:ERRor:SEConds? \<wsp\>\<Error\>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a \<CHARACTER PROGRAM DATA\> element.
	Selects the error:
	CRC
	FAS
Response Syntax	\<Seconds\>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a \<NR1 NUMERIC RESPONSE DATA\> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:CPRI:OBS:ERR:SEC? FAS
See Also	FETCh:DATA:TELecom:CPRI:ALARm:SEConds?

:FETCh:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:COUNt?

Description	This query returns the count of Interface (OBSAI) errors.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CV: CV
	K307: K30.7
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	FETC:DATA:TEL:CPRI:OBSAI:INT:ERR:COUN? CV
See Also	FETCh:DATA:TELecom:CPRI:ERRor:COUNt?

:FETCh:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:CURRent ?

Description	This query returns the current status of Interface (OBSAI) error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CV: CV
	K307: K30.7
Response Syntax	<Current Status>
Response(s)	**Current Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CPRI:OBSAI:INT:ERR:CURR? CV
See Also	FETCh:DATA:TELecom:CPRI:INTerface:ERRor:HISTory?

:FETCh:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:HISTory?

Description	This query returns the history status of Interface (OBSAI) error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CV: CV
	K307: K30.7
Response Syntax	<History Status>
Response(s)	**History Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:CPRI:OBSAI:INT:ERR:HIST? CV
See Also	FETCh:DATA:TELecom:CPRI:INTerface:ERRor:CURRent?

:FETCh:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:RATE?

Description	This query returns the current rate of Interface (OBSAI) error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CV: CV
	K307: K30.7
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	FETC:DATA:TEL:CPRI:OBSAI:INT:ERR:RATE? CV
See Also	FETCh:DATA:TELecom:CPRI:ERRor:RATE?

:FETCh:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:SEConds?

Description	This query returns the number of seconds within which Interface (OBSAI) error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CV: CV
	K307: K30.7
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:CPRI:OBSAI:INT:ERR:SEC? CV
See Also	FETCh:DATA:TELecom:CPRI:ERRor:SEConds?

:FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:COUNt?

Description	This query returns the total count within which physical error occurred.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > DCO > Media RX FEC > Errors > Count
Syntax	:FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of Media RX error.
	FCBits: FEC Correctable Bits
	FUF: FEC Uncorrectable Frames
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Total count of Media RX FEC error for per lane configuration.
Example(s)	FETCh:DATA:TEL:DCO:ERR:MED:RX:COUN? FUF
See Also	FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:RATE?

:FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:CURRent?

Description	This query returns the current status of DCO/Media RX FEC error. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > DCO > Media RX FEC > Errors
Syntax	:FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:CURRent? <wsp><Error>
Parameter(s)	**Error**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FCBits: FEC Correctable Bits FUF: FEC Uncorrectable Frames
Response Syntax	<Current>
Response(s)	**Current**: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:DCO:ERR:MED:RX:CURR? FUF
See Also	FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:HISTory?

:FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:HISTory?

Description	This query returns the history status of DCO/Media RX FEC error.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > DCO > Media RX FEC > Errors
Syntax	:FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FCBits: FEC Correctable Bits
	FUF: FEC Uncorrectable Frames
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:DCO:ERR:MED:RX:CURR? FUF
See Also	FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:CURRent?

:FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:SEConds?

Description	This query returns the number of seconds within which DCO Media RX FEC error occurred.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > DCO > Media RX FEC > Errors > Seconds
Syntax	:FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of Media RX FEC error.
	FUF: FEC Uncorrectable Frames
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Total number of seconds for Media RX FEC Error.
Example(s)	FETC:DATA:TEL:DCO:ERR:MED:RX:SEC? FUF
See Also	FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:RATE?

:FETCh:DATA:TELecom:DSN:ALARm:DS[1..n]:CURRent?

Description	This query returns the current status of DS1/DS3 alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > DS1/DS3 > Alarms
Syntax	:FETCh:DATA:TELecom:DSN:ALARm:DS[1..n]:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	AIS
	IDLE1: Idle (DS3)
	OOF
	RAI: RAI (DS1)
	RDI: RDI (DS3)
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:DSN:ALAR:DS1:CURR? AIS
See Also	SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE
	SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]

:FETCh:DATA:TELecom:DSN:ALARm:DS[1..n]:HISTory?

Description	This query returns the history status of DS1/DS3 alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > DS1/DS3 > Alarms
Syntax	:FETCh:DATA:TELecom:DSN:ALARm:DS[1..n]:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	AIS
	IDLE1: Idle (DS3)
	OOF
	RAI: RAI (DS1)
	RDI: RDI (DS3)
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:DSN:ALAR:DS1:HIST? AIS
See Also	SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE
	SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]

:FETCh:DATA:TELecom:DSN:ALARm:DS[1..n]:SEConds?

Description	This query returns the number of seconds within which DS1/DS3 alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > DS1/DS3 > Alarms
Syntax	:FETCh:DATA:TELecom:DSN:ALARm:DS[1..n]:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	AIS
	IDLE1: Idle (DS3)
	OOF
	RAI: RAI (DS1)
	RDI: RDI (DS3)
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:DSN:ALAR:DS1:SEC? AIS
See Also	SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE
	SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]

:FETCh:DATA:TELecom:DSN:ERRor:DS[1..n]:COUNt?

Description	This query returns the count of DS1/DS3 errors.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > DS1/DS3 > Errors
Syntax	:FETCh:DATA:TELecom:DSN:ERRor:DS[1..n]:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CBIT: CP-Bit (DS3)
	CRC6: CRC-6 (DS1)
	FBIT: F-Bit (DS3)
	FEBE: FEBE (DS3)
	FRBIT: Framing Bit (DS1)
	OOF
	PBIT: P-Bit (DS3)
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	FETC:DATA:TEL:DSN:ERR:DS1:COUN? CRC6
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AMOunt
	SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:INJect

:FETCh:DATA:TELecom:DSN:ERRor:DS[1..n]:CURRent?

Description	This query returns the current status of DS1/DS3 error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > DS1/DS3 > Errors
Syntax	:FETCh:DATA:TELecom:DSN:ERRor:DS[1..n]:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CBIT: CP-Bit (DS3)
	CRC6: CRC-6 (DS1)
	FBIT: F-Bit (DS3)
	FEBE: FEBE (DS3)
	FRBIT: Framing Bit (DS1)
	OOF
	PBIT: P-Bit (DS3)
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:DSN:ERR:DS1:CURR? CRC6
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AMOunt
	SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:INJect

:FETCh:DATA:TELecom:DSN:ERRor:DS[1..n]:HISTory?

Description	This query returns the history status of DS1/DS3 error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > DS1/DS3 > Errors
Syntax	:FETCh:DATA:TELecom:DSN:ERRor:DS[1..n]:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CBIT: CP-Bit (DS3)
	CRC6: CRC-6 (DS1)
	FBIT: F-Bit (DS3)
	FEBE: FEBE (DS3)
	FRBIT: Framing Bit (DS1)
	OOF
	PBIT: P-Bit (DS3)
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:DSN:ERR:DS1:HIST? CRC6
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AMOunt
	SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:INJect

:FETCh:DATA:TELecom:DSN:ERRor:DS[1..n]:RATE?

Description	This query returns the current rate of DS1/DS3 error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > DS1/DS3 > Errors
Syntax	:FETCh:DATA:TELecom:DSN:ERRor:DS[1..n]:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CBIT: CP-Bit (DS3)
	CRC6: CRC-6 (DS1)
	FBIT: F-Bit (DS3)
	FEBE: FEBE (DS3)
	FRBIT: Framing Bit (DS1)
	OOF
	PBIT: P-Bit (DS3)
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	FETC:DATA:TEL:DSN:ERR:DS1:RATE? CRC6
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AMOunt
	SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:INJect

:FETCh:DATA:TELecom:DSN:ERRor:DS[1..n]:SEConds?

Description	This query returns the number of seconds within which DS1/DS3 error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > DS1/DS3 > Errors
Syntax	:FETCh:DATA:TELecom:DSN:ERRor:DS[1..n]:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CBIT: CP-Bit (DS3)
	CRC6: CRC-6 (DS1)
	FBIT: F-Bit (DS3)
	FEBE: FEBE (DS3)
	FRBIT: Framing Bit (DS1)
	OOF
	PBIT: P-Bit (DS3)
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:DSN:ERR:DS1:SEC? CRC6
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AMOunt
	SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:INJect

:FETCh:DATA:TELecom:ELECtrical:ALARm:PORT:CURRent?

Description	This query returns the current status of electrical Interface alarm.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarm/Errors > Interface > Alarms
Syntax	:FETCh:DATA:TELecom:ELECtrical:ALARm:PORT:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOS
	FREQuency: Frequency
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ELEC:ALAR:PORT:CURR? FREQ
See Also	FETCh:DATA:TELecom:CAUI:ALARm:LANE:HISTory?
	FETCh:DATA:TELecom:CAUI:ALARm:LANE:CURRent?
	FETCh:DATA:TELecom:CAUI:ALARm:LANE:SEConds?

:FETCh:DATA:TELecom:ELECtrical:ALARm:PORT:HISTory?

Description	This query returns the history status of electrical Interface error.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarm/Errors > Interface > Alarms
Syntax	:FETCh:DATA:TELecom:ELECtrical:ALARm:PORT:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOS
	FREQuency: Frequency
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ELEC:ALAR:PORT:HIST? FREQ
See Also	FETCh:DATA:TELecom:CAUI:ALARm:LANE:HISTory?
	FETCh:DATA:TELecom:CAUI:ALARm:LANE:CURRent?
	FETCh:DATA:TELecom:CAUI:ALARm:LANE:SEConds?

:FETCh:DATA:TELecom:ELECtrical:ALARm:PORT:SEConds?

Description	This query returns the number of seconds within which electrical Interface alarm occurred.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarm/Errors > Interface > Interface > Alarms
Syntax	:FETCh:DATA:TELecom:ELECtrical:ALARm:PORT:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOS
	FREQuency: Frequency
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:ELEC:ALAR:PORT:SEC? FREQ
See Also	FETCh:DATA:TELecom:CAUI:ALARm:LANE:HISTory?
	FETCh:DATA:TELecom:CAUI:ALARm:LANE:CURRent?
	FETCh:DATA:TELecom:CAUI:ALARm:LANE:SEConds?

:FETCh:DATA:TELecom:ELECtrical:ERRor:PORT:COUNt?

Description	This query returns the count of an electrical Interface error.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarm/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELecom:ELECtrical:ERRor:PORT:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BPV
	EXZ
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the count of error.
Example(s)	FETC:DATA:TEL:ELEC:ERR:PORT:COUN? BPV
See Also	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE
	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt
	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:INJect

:FETCh:DATA:TELecom:ELECtrical:ERRor:PORT:CURRent?

Description	This query returns the current status of an electrical Interface error.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarm/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELecom:ELECtrical:ERRor:PORT:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BPV
	EXZ
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ELEC:ERR:PORT:CURR? BPV
See Also	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE
	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt
	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:INJect

:FETCh:DATA:TELecom:ELECtrical:ERRor:PORT:HISTory?

Description	This query returns the history status of an electrical Interface error.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarm/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELecom:ELECtrical:ERRor:PORT:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BPV
	EXZ
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ELEC:ERR:PORT:HIST? BPV
See Also	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE
	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt
	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:INJect

:FETCh:DATA:TELecom:ELECtrical:ERRor:PORT:RATE?

Description	This query returns the rate of an electrical Interface error.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarm/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELecom:ELECtrical:ERRor:PORT:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BPV
	EXZ
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error.
Example(s)	FETC:DATA:TEL:ELEC:ERR:PORT:RATE? BPV
See Also	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE
	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt
	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:INJect

:FETCh:DATA:TELecom:ELECtrical:ERRor:PORT:SEConds?

Description	This query returns the number of seconds within which and electrical Interface error occurred.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarm/Errors > Interface > Errors
Syntax	:FETCh:DATA:TELecom:ELECtrical:ERRor:PORT:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BPV
	EXZ
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:ELEC:ERR:PORT:SEC? BPV
See Also	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE
	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt
	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:INJect

:FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:COUNt:TOTal?

Description	This query returns the total count of Ethernet - PCS Lanes (EoOTN) errors.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > PCS Lanes > Errors - Total
Syntax	:FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:COUNt:TOTal? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	OTNBIP8: OTN BIP-8
	PCSBIP8MASK: PCS BIP-8 Mask
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	eturns the total count of errors.
Example(s)	FETC:DATA:TEL:EOTN:ERR:PHYS:COUN:TOTal? OTNBIP8
See Also	FETCH:DATA:TELecom:EOTN:ERRor:PHYSical:CURRent?

:FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:COUNt?

Description	This query returns the count of Ethernet - PCS Lanes (EoOTN) errors (per lane).
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > PCS Lanes > Errors
Syntax	:FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:COUNt? <wsp><Lane>, <Error>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	OTNBIP8: OTN BIP-8
	PCSBIP8MASK: PCS BIP-8 Mask
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	FETC:DATA:TEL:EOTN:ERR:PHYS:COUN? 1, OTNBIP8
See Also	FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:CURRent?

:FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:CURRent?

Description	This query returns the current status of Ethernet - PCS Lanes (EoOTN) error (per lane).
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > PCS Lanes > Errors
Syntax	:FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:CURRent? <wsp><Lane>, <Error>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	OTNBIP8: OTN BIP-8
	PCSBIP8MASK: PCS BIP-8 Mask
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:EOTN:ERR:PHYS:CURR? 1, OTNBIP8
See Also	FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:RATE?

:FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:HISTory?

Description	This query returns the history status of Ethernet - PCS Lanes (EoOTN) error (per lane).
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > PCS Lanes > Errors
Syntax	:FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:HISTory? <wsp><Lane>, <Error>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	OTNBIP8: OTN BIP-8
	PCSBIP8MASK: PCS BIP-8 Mask
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:EOTN:ERR:PHYS:HIST? 1, OTNBIP8
See Also	FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:RATE?

:FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:RATE:TOTal?

Description	This query returns the total rate of Ethernet - PCS Lanes (EoOTN) error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > PCS Lanes > Errors
Syntax	:FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:RATE:TOTal? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	OTNBIP8: OTN BIP-8
	PCSBIP8MASK: PCS BIP-8 Mask
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the total error rate.
Example(s)	FETC:DATA:TEL:EOTN:ERR:PHYS:RATE:TOTal? OTNBIP8
See Also	FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:HISTory?

:FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:RATE?

Description	This query returns the current rate of Ethernet - PCS Lanes (EoOTN) error (per lane).
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > PCS Lanes > Errors
Syntax	:FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:RATE? <wsp><Lane>, <Error>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	OTNBIP8: OTN BIP-8
	PCSBIP8MASK: PCS BIP-8 Mask
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	FETC:DATA:TEL:EOTN:ERR:PHYS:RATE? 1, OTNBIP8
See Also	FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:HISTory?

:FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:SEConds?

Description	This query returns the number of seconds within which Ethernet - PCS Lanes (EoOTN) error occurred (per lane).
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > PCS Lanes > Errors
Syntax	:FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:SEConds? <wsp><Lane>, <Error>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	OTNBIP8: OTN BIP-8
	PCSBIP8MASK: PCS BIP-8 Mask
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:EOTN:ERR:PHYS:SEC? 1, OTNBIP8
See Also	FETCH:DATA:TELecom:EOTN:ERRor:PHYSical:COUNt?

:FETCh:DATA:TELecom:EOTN:ETHernet:ALARm:CURRent?

Description	This query returns the current status of Ethernet (EoOTN) alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Alarms
Syntax	:FETCh:DATA:TELecom:EOTN:ETHernet:ALARm:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LDOWn: Link Down
	LFAR: L Fault Rcd
	LFAD: L Fault Det
	RFAult: Remote Fault
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:EOTN:ETH:ALAR:CURR? RFA
See Also	FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELecom:EOTN:ETHernet:ALARm:HISTory?

Description	This query returns the history status of Ethernet (EoOTN) alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Alarms
Syntax	:FETCh:DATA:TELecom:EOTN:ETHernet:ALARm:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LDOWn: Link Down
	LFAR: L Fault Rcd
	LFAD: L Fault Det
	RFAult: Remote Fault
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:EOTN:ETH:ALAR:HIST? RFA
See Also	FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:CURRent?

:FETCh:DATA:TELecom:EOTN:ETHernet:ALARm:SEConds?

Description	This query returns the number of seconds within which Ethernet (EoOTN) alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Alarms
Syntax	:FETCh:DATA:TELecom:EOTN:ETHernet:ALARm:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LDOWn: Link Down
	LFAR: L Fault Rcd
	LFAD: L Fault Det
	RFAult: Remote Fault
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:EOTN:ETH:ALAR:SEC? RFA
See Also	FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELecom:EOTN:ETHernet:ERRor:COUNt?

Description	This query returns the count of Ethernet (EoOTN) errors.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Errors
Syntax	:FETCh:DATA:TELecom:EOTN:ETHernet:ERRor:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	SYMBol: Symbol
	IDLE: Idle
	FCARrier: False Carrier
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	FETC:DATA:TEL:EOTN:ETH:ERR:COUNT? IDLE
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELecom:EOTN:ETHernet:ERRor:CURRent?

Description	This query returns the current status of Ethernet (EoOTN) error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Errors
Syntax	:FETCh:DATA:TELecom:EOTN:ETHernet:ERRor:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	SYMBol: Symbol
	IDLE: Idle
	FCARrier: False Carrier
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:EOTN:ETH:ERR:CURR? IDLE
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELecom:EOTN:ETHernet:ERRor:HISTory?

Description	This query returns the history status of Ethernet (EoOTN) error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Errors
Syntax	:FETCh:DATA:TELecom:EOTN:ETHernet:ERRor:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	SYMBol: Symbol
	IDLE: Idle
	FCARrier: False Carrier
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:EOTN:ETH:ERR:HIST? IDLE
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELecom:EOTN:ETHernet:ERRor:RATE?

Description	This query returns the current rate of Ethernet (EoOTN) error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Errors
Syntax	:FETCh:DATA:TELecom:EOTN:ETHernet:ERRor:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	SYMBol: Symbol
	IDLE: Idle
	FCARrier: False Carrier
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	FETC:DATA:TEL:EOTN:ETH:ERR:RATE? IDLE
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELecom:EOTN:ETHernet:ERRor:SEConds?

Description	This query returns the number of seconds within which Ethernet (EoOTN) error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Errors
Syntax	:FETCh:DATA:TELecom:EOTN:ETHernet:ERRor:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	SYMBol: Symbol
	IDLE: Idle
	FCARrier: False Carrier
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:EOTN:ETH:ERR:SEC? IDLE
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ALARm:CURRent?

Description	This query returns the current status of Transcoding alarm.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > Transcoding > Alarms
Syntax	:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ALARm:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	HIBER1027B: Hi-BER1027B
	LOBL1027B
	LOAML1027B
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:EOTN:XCOD:TRAN:RX:ALAR:CURR? LOBL1027B
See Also	FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ERRor:CURRent?

:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ALARm:HISTory?

Description	This query returns the history status of Transcoding alarm.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > Transcoding > Alarms
Syntax	:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ALARm:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	HIBER1027B: Hi-BER1027B
	LOBL1027B
	LOAML1027B
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:EOTN:XCOD:TRAN:RX:ALAR:HIST? LOBL1027B
See Also	FETCH:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ERRor:HISTory?

:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ALARm:SEConds?

Description	This query returns the number of seconds within which Transcoding alarm occurred.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > Transcoding > Alarms
Syntax	:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ALARm:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	HIBER1027B: Hi-BER1027B
	LOBL1027B
	LOAML1027B
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:EOTN:XCOD:TRAN:RX:ALAR:SEC? LOBL1027B
See Also	FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ERRor:SEConds?

:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ERRor: COUNt?

Description	This query returns the count of Transcoding errors.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > Transcoding > Errors
Syntax	:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ERRor:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	INVALFLAG: Inv. Flag
	MSEQV
	POSV
	SEQV
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	FETC:DATA:TEL:EOTN:XCOD:TRAN:RX:ERR:COUN? PCSBIP8MASK
See Also	FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ERRor:HISTory?

:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ERRor: CURRent?

Description	This query returns the current status of Transcoding error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet (Ethernet) > Transcoding > Errors
	Navigation Path: Results > Alarms/Errors (Ethernet) > Ethernet > PCS Lanes > Errors
Syntax	:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ERRor:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	INVALFLAG: Inv. Flag
	MSEQV
	OTNBIP8: OTN BIP-8 (PCS Lanes)
	PCSBIP8MASK: PCS BIP-8 Mask (PCS Lanes)
	POSV
	SEQV
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:EOTN:XCOD:TRAN:RX:ERR:CURR? PCSBIP8MASK
See Also	FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ALARm:CURRent?

:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ERRor: HISTory?

Description	This query returns the history status of the EOTN error.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors (Ethernet) > Ethernet > Transcoding > Errors
	Navigation Path: Results > Alarms/Errors (Ethernet) > Ethernet > PCS Lanes > Errors
Syntax	:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ERRor:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	INVALFLAG: Inv. Flag
	MSEQV
	OTNBIP8: OTN BIP-8 (PCS Lanes)
	PCSBIP8MASK: PCS BIP-8 Mask (PCS Lanes)
	POSV
	SEQV
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:EOTN:XCOD:TRAN:RX:ERR:HIST? PCSBIP8MASK
See Also	FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ALARm:HISTory?

:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ERRor: RATE?

Description	This query returns the rate value of the EOTN error.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > Transcoding > Errors
Syntax	:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ERRor:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	INVALFLAG: Inv. Flag
	MSEQV
	POSV
	SEQV
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	eturns the current error rate.
Example(s)	FETC:DATA:TEL:EOTN:XCOD:TRAN:RX:ERR:RATE? PCSBIP8MASK
See Also	FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ERRor:HISTory?

:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ERRor: SEConds?

Description	This query returns the seconds value of the EOTN error.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > Transcoding > Errors
Syntax	:FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ERRor:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	INVALFLAG: Inv. Flag
	MSEQV
	POSV
	SEQV
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:EOTN:XCOD:TRAN:RX:ERR:SEC? PCSBIP8MASK
See Also	FETCh:DATA:TELecom:EOTN:XCODing:TRANscode:RX:ALARm:SEConds?

:FETCh:DATA:TELecom:ERRor:COUNt:TOTal?

Description	This query returns the total count of all errors related to the test such as Ethernet, Pattern and Other. It also returns the combined status for all the tests.
	At *RST condition, this value is device dependent.
Syntax	:FETCh:DATA:TELecom:ERRor:COUNt:TOTal? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects all errors related to the selected test and all the tests.
	Retrieves all error related to OTL, XCODING, or PCS.
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the total error count for the selected test errors and all the test errors.
Example(s)	FETC:DATA:TEL:ERR:COUN:TOT? OTL
See Also	FETCh:DATA:TELecom:ERRor:HISTory?
	FETCh:DATA:TELecom:ERRor:CURRent?
	FETCh:DATA:TELecom:ERRor:SEConds?
	FETCh:DATA:TELecom:ERRor:RATE?

:FETCh:DATA:TELecom:ERRor:COUNt?

Description	This query returns the count of all errors related to the test such as Ethernet, Pattern and Other. It also returns the combined status for all the tests.
	At *RST condition, this value is device dependent.
Syntax	:FETCh:DATA:TELecom:ERRor:COUNt? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects all errors related to the selected test and all the tests.
	1588PTP, CLOCK, CPRI, DS1, DS3, E1, E2, E3, E4, ELECTRICAL, ETHernet, FCHannel, FEC, GFPChannel, GFPFrame, HOPTCM, IPUDP, LINE, LOP, LOPTCM, LOPTU3, ODU0, ODU0GMP, ODU1, ODU1E, ODU1ETCM, ODU1F, ODU1FTCM, ODU2, ODU2E, ODU2ETCM, ODU2F, ODU2FTCM, ODU2GMP, ODU3, ODU3E1, ODU3E1TCM, ODU3E2, ODU3E2TCM, ODU3GMP, ODU4, ODU4GMP, ODU4TCM, ODUFLEX, ODUFLEXTCM, ODUTCM0, ODUTCM1, ODUTCM2, ODUTCM3, OPTICAL, OPU0, OPU1, OPU1E, OPU1F, OPU2, OPU2E, OPU2F, OPU3, OPU3E1, OPU3E2, OPU4, OPUFLEX, OTL, OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F, OTU3, OTU3E1, OTU3E2, OTU4, PATH, PATTern, PCS, PORT, QOSDTS, QOSDUALPORT, QOSMETRICS, RSFEC, SECTION, SYNCE, WIS, XCODING
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<Count>

:FETCh:DATA:TELecom:ERRor:COUNt?

Response(s)	Count:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the error count for the selected test errors and all the test errors.
Example(s)	FETC:DATA:TEL:ERR:COUN? ODU3
	FETC:DATA:TEL:ERR:COUN? ODU3, 3
See Also	FETCh:DATA:TELecom:ERRor:HISTory?
	FETCh:DATA:TELecom:ERRor:CURRent?
	FETCh:DATA:TELecom:ERRor:SEConds?
	FETCh:DATA:TELecom:ERRor:RATE?

:FETCh:DATA:TELecom:ERRor:CURRent?

Description	This query returns the current status of all errors related to the test such as Ethernet, Pattern and Other. It also returns the combined status for all the tests. At *RST condition, this value is device dependent.
Syntax	:FETCh:DATA:TELecom:ERRor:CURRent? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	**Error**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects all errors related to the selected test and all the tests. 1588PTP, CLOCK, CPRI, DS1, DS3, E1, E2, E3, E4, ELECTRICAL, ETHernet, FCHannel, FEC, GFPChannel, GFPFrame, HOPTCM, IPUDP, LINE, LOP, LOPTCM, LOPTU3, ODU0, ODU0GMP, ODU1, ODU1E, ODU1ETCM, ODU1F, ODU1FTCM, ODU2, ODU2E, ODU2ETCM, ODU2F, ODU2FTCM, ODU2GMP, ODU3, ODU3E1, ODU3E1TCM, ODU3E2, ODU3E2TCM, ODU3GMP, ODU4, ODU4GMP, ODU4TCM, ODUFLEX, ODUFLEXTCM, ODUTCM0, ODUTCM1, ODUTCM2, ODUTCM3, OPTICAL, OPU0, OPU1, OPU1E, OPU1F, OPU2, OPU2E, OPU2F, OPU3, OPU3E1, OPU3E2, OPU4, OPUFLEX, OTL, OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F, OTU3, OTU3E1, OTU3E2, OTU4, PATH, PATTern, PCS, PORT, QOSDTS, QOSDUALPORT, QOSMETRICS, RSFEC, SECTION, SYNCE, WIS, XCODING **Channel Number or Client ID**: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<Current>

:FETCh:DATA:TELecom:ERRor:CURRent?

Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the current error status of the selected test and all the tests.
Example(s)	FETC:DATA:TEL:ERR:CURR? ODU3
	FETC:DATA:TEL:ERR:CURR? ODU3, 3
See Also	FETCh:DATA:TELecom:ERRor:HISTory?
	FETCh:DATA:TELecom:ERRor:SEConds?
	FETCh:DATA:TELecom:ERRor:RATE?
	FETCh:DATA:TELecom:ERRor:COUNT?

:FETCh:DATA:TELecom:ERRor:HISTory?

Description	This query returns the history status of all errors related to the test such as Ethernet, Pattern and Other. It also returns the combined status for all the tests. At *RST condition, this value is device dependent.
Syntax	:FETCh:DATA:TELecom:ERRor:HISTory? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	**Error**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects all errors related to the selected test and all the tests. 1588PTP, CLOCK, CPRI, DS1, DS3, E1, E2, E3, E4, ELECTRICAL, ETHernet, FCHannel, FEC, GFPChannel, GFPFrame, HOPTCM, IPUDP, LINE, LOP, LOPTCM, LOPTU3, ODU0, ODU0GMP, ODU1, ODU1E, ODU1ETCM, ODU1F, ODU1FTCM, ODU2, ODU2E, ODU2ETCM, ODU2F, ODU2FTCM, ODU2GMP, ODU3, ODU3E1, ODU3E1TCM, ODU3E2, ODU3E2TCM, ODU3GMP, ODU4, ODU4GMP, ODU4TCM, ODUFLEX, ODUFLEXTCM, ODUTCM0, ODUTCM1, ODUTCM2, ODUTCM3, OPTICAL, OPU0, OPU1, OPU1E, OPU1F, OPU2, OPU2E, OPU2F, OPU3, OPU3E1, OPU3E2, OPU4, OPUFLEX, OTL, OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F, OTU3, OTU3E1, OTU3E2, OTU4, PATH, PATTern, PCS, PORT, QOSDTS, QOSDUALPORT, QOSMETRICS, RSFEC, SECTION, SYNCE, WIS, XCODING **Channel Number or Client ID**: The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only. For Multi-Channel OTN, selects the channel number. For FlexO BERT, selects the client ID.
Response Syntax	<History>

:FETCh:DATA:TELecom:ERRor:HISTory?

Response(s)   **History**:

The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.

Returns the error history status of the selected test and all the tests.

Example(s)   FETC:DATA:TEL:ERR:HIST? ODU3

FETC:DATA:TEL:ERR:HIST? ODU3, 3

See Also   FETCh:DATA:TELecom:ERRor:CURRent?

FETCh:DATA:TELecom:ERRor:SEConds?

FETCh:DATA:TELecom:ERRor:RATE?

FETCh:DATA:TELecom:ERRor:COUNT?

:FETCh:DATA:TELecom:ERRor:RATE:TOTal?

Description	This query returns the total current rate of all errors related to the test such as Ethernet, Pattern and Other. It also returns the combined status for all the tests.
	At *RST condition, this value is device dependent.
Syntax	:FETCh:DATA:TELecom:ERRor:RATE:TOTal? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects all errors related to the selected test and all the tests.
	Retrieves all error related to OTL, XCODING, or PCS.
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the total current error rate for the selected test errors and all the test errors.
Example(s)	FETC:DATA:TEL:ERR:RATE:TOT? OTL
See Also	FETCh:DATA:TELecom:ERRor:HISTory?
	FETCh:DATA:TELecom:ERRor:CURRent?
	FETCh:DATA:TELecom:ERRor:SEConds?
	FETCh:DATA:TELecom:ERRor:COUNT?

:FETCh:DATA:TELecom:ERRor:RATE?

Description	This query returns the current rate of all errors related to the test such as Ethernet, Pattern and Other. It also returns the combined status for all the tests.
	At *RST condition, this value is device dependent.
Syntax	:FETCh:DATA:TELecom:ERRor:RATE? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects all errors related to the selected test and all the tests.
	1588PTP, CLOCK, CPRI, DS1, DS3, E1, E2, E3, E4, ELECTRICAL, ETHernet, FCHannel, FEC, GFPChannel, GFPFrame, HOPTCM, IPUDP, LINE, LOP, LOPTCM, LOPTU3, ODU0, ODU0GMP, ODU1, ODU1E, ODU1ETCM, ODU1F, ODU1FTCM, ODU2, ODU2E, ODU2ETCM, ODU2F, ODU2FTCM, ODU2GMP, ODU3, ODU3E1, ODU3E1TCM, ODU3E2, ODU3E2TCM, ODU3GMP, ODU4, ODU4GMP, ODU4TCM, ODUFLEX, ODUFLEXTCM, ODUTCM0, ODUTCM1, ODUTCM2, ODUTCM3, OPTICAL, OPU0, OPU1, OPU1E, OPU1F, OPU2, OPU2E, OPU2F, OPU3, OPU3E1, OPU3E2, OPU4, OPUFLEX, OTL, OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F, OTU3, OTU3E1, OTU3E2, OTU4, PATH, PATTern, PCS, PORT, QOSDTS, QOSDUALPORT, QOSMETRICS, RSFEC, SECTION, SYNCE, WIS, XCODING
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<Rate>

:FETCh:DATA:TELecom:ERRor:RATE?

Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the current error rate for the selected test errors and all the test errors.
Example(s)	FETC:DATA:TEL:ERR:RATE? ODU3
	FETC:DATA:TEL:ERR:RATE? ODU3, 3
See Also	FETCh:DATA:TELecom:ERRor:HISTory?
	FETCh:DATA:TELecom:ERRor:CURRent?
	FETCh:DATA:TELecom:ERRor:SEConds?
	FETCh:DATA:TELecom:ERRor:COUNT?

:FETCh:DATA:TELecom:ERRor:SEConds?

Description	This query returns the number of seconds within which all errors related to the test such as Ethernet, Pattern and Other occurred. It also returns the combined status for all the tests.
	At *RST condition, this value is device dependent.
Syntax	:FETCh:DATA:TELecom:ERRor:SEConds? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects all errors related to the selected test and all the tests.
	1588PTP, CLOCK, CPRI, DS1, DS3, E1, E2, E3, E4, ELECTRICAL, ETHernet, FCHannel, FEC, GFPChannel, GFPFrame, HOPTCM, IPUDP, LINE, LOP, LOPTCM, LOPTU3, ODU0, ODU0GMP, ODU1, ODU1E, ODU1ETCM, ODU1F, ODU1FTCM, ODU2, ODU2E, ODU2ETCM, ODU2F, ODU2FTCM, ODU2GMP, ODU3, ODU3E1, ODU3E1TCM, ODU3E2, ODU3E2TCM, ODU3GMP, ODU4, ODU4GMP, ODU4TCM, ODUFLEX, ODUFLEXTCM, ODUTCM0, ODUTCM1, ODUTCM2, ODUTCM3, OPTICAL, OPU0, OPU1, OPU1E, OPU1F, OPU2, OPU2E, OPU2F, OPU3, OPU3E1, OPU3E2, OPU4, OPUFLEX, OTL, OTU1, OTU1E, OTU1F, OTU2, OTU2E, OTU2F, OTU3, OTU3E1, OTU3E2, OTU4, PATH, PATTern, PCS, PORT, QOSDTS, QOSDUALPORT, QOSMETRICS, RSFEC, SECTION, SYNCE, WIS, XCODING
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<Seconds>

:FETCh:DATA:TELecom:ERRor:SEConds?

Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the number of seconds within which the selected test errors and all the test errors occurred.
Example(s)	FETC:DATA:TEL:ERR:SEC? ODU3
	FETC:DATA:TEL:ERR:SEC? ODU3, 3
See Also	FETCh:DATA:TELecom:ERRor:HISTory?
	FETCh:DATA:TELecom:ERRor:CURRent?
	FETCh:DATA:TELecom:ERRor:RATE?
	FETCh:DATA:TELecom:ERRor:COUNT?

:FETCh:DATA:TELecom:ETHernet:ALARm:LRATe:GLOBal:CURRent?

Description	This query returns the current status of Ethernet alarm (rates up to 25G or FlexE client).
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > Alarms
	Navigation Path: Results > Alarms/Errors > Client > Ethernet > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:LRATe:GLOBal:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	HIBer: Hi-BER
	LDOWn: Link Down
	LFAult: Local Fault
	LFAD: L Fault Det
	LFAR: L Fault Rcd
	RFAult: Remote Fault
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ALAR:LRAT:GLOB:CURR? LDOWN
See Also	FETCH:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:HISTory?
	SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier

:FETCh:DATA:TELecom:ETHernet:ALARm:LRATe:GLOBal:HISTory?

Description	This query returns the history status of the Ethernet alarm (rates up to 25G or FlexE client).
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > Alarms
	Navigation Path: Results > Alarms/Errors > Client > Ethernet > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:LRATe:GLOBal:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	HIBer: Hi-BER
	LDOWn: Link Down
	LFAult: Local Fault
	LFAD: L Fault Det
	LFAR: L Fault Rcd
	RFAult: Remote Fault
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Reports the history status of ethernet alarm.
	PRESENT, indicates that at least one alarm has occurred.
	ABSENT, indicates that no alarm occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:ETH:ALAR:LRAT:GLOB:HIST? LDOWN
See Also	FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:CURRent?
	SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier

:FETCh:DATA:TELecom:ETHernet:ALARm:LRATe:GLOBal:SEConds?

Description	This query returns the number of seconds within which an Ethernet alarm occurred (rates up to 25G or FlexE client).
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > Alarms
	Navigation Path: Results > Alarms/Errors > Client > Ethernet > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:LRATe:GLOBal:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	HIBer: Hi-BER
	LDOWn: Link Down
	LFAult: Local Fault
	LFAD: L Fault Det
	LFAR: L Fault Rcd
	RFAult: Remote Fault
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Reports the number of seconds of ethernet alarm.
Example(s)	FETC:DATA:TEL:ETH:ALAR:LRAT:GLOB:SEC? LDOWN
See Also	FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:HISTory?
	SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier

:FETCh:DATA:TELecom:ETHernet:ALARm:MAC:CURRent?

Description	This query returns the current status of Ethernet (FlexE Client) alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Client > Ethernet > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:MAC:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	NTRAFFIC: No Traffic.
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ALAR:MAC:CURR? NTRAFFIC

:FETCh:DATA:TELecom:ETHernet:ALARm:MAC:HISTory?

Description	This query returns the history status of Ethernet (FlexE Client) alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Client > Ethernet > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:MAC:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	NTRAFFIC: No Traffic
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ALAR:ERR:MAC:HIST? NTRAFFIC

:FETCh:DATA:TELecom:ETHernet:ALARm:MAC:SEConds?

Description	This query returns the number of seconds within which Ethernet (FlexE Client) alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Client > Ethernet > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:MAC:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	NTRAFFIC:No Traffic
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:ETH:ALAR:MAC:SEC? NTRAFFIC

:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:CURRent?

Description	This query returns the current status of PCS Lanes (per lane) alarm.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > PCS Lanes > Alarms
	Navigation Path: Results > Alarms/Errors > PHY > PCS Lanes > Alarms
	Navigation Path: Functions > 40/50/100/400G Advanced > Lanes Mapping & Skew > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:CURRent? <wsp><Lane>, <Alarm>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOAML
	LOBL
	SKEW: Exc. Skew
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ALAR:PHYS:CURR? 1, LOBL
See Also	FETCH:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:CURRent?

:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:CURRent?

Description	This query returns the current status of Ethernet/PCS (global) alarm (parallel interfaces or serial interfaces 25G and up).
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > Alarms
	Navigation Path: Results > Alarms/Errors > PCS Lanes > Alarms
	Navigation Path: Results > Alarms/Errors > PHY > PHY > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:CURRent? <wsp><Alarm>
Parameter(s)	Alarm:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	- For parallel/serial interfaces:
	HISer: Hi-SER
	LOA
	- For parallel interfaces:
	HIBer: Hi-BER
	INVM: Inv. Mapping
	LDSERD: L Deg SER Det (400G)
	LDSERR: L Deg SER Rcd (400G)
	LDOWn: Link Down
	LFAD: L Fault Det
	LFAR: L Fault Rcd
	LOAML
	LOBL
	RDSER: R Deg SER (400G)
	RFAult: Remote Fault
	SKEW: Exc. Skew
Response Syntax	<Current>

:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:CURRent?

Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ALAR:PHYS:GLOB:CURR? LOA
See Also	FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:HISTory?

Description	This query returns the history status of Ethernet/PCS (global) alarm (parallel interfaces or serial interfaces 25G and up).
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > Alarms
	Navigation Path: Results > Alarms/Errors > PCS Lanes > Alarms
	Navigation Path: Results > Alarms/Errors > PHY > PHY > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	- For parallel/serial interfaces:
	HISer: Hi-SER
	LOA
	- For parallel interfaces:
	HIBer: Hi-BER
	INVM: Inv. Mapping
	LDSERD: L Deg SER Det (400G)
	LDSERR: L Deg SER Rcd (400G)
	LDOWn: Link Down
	LFAD: L Fault Det
	LFAR: L Fault Rcd
	LOAML
	LOBL
	RDSER: R Deg SER (400G)
	RFAult: Remote Fault
	SKEW: Exc. Skew
Response Syntax	<History>

:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:HIStory?

Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ALAR:PHYS:GLOB:HIST? LOA
See Also	FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:CURRent?

:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:SEConds?

Description	This query returns the number of seconds within which Ethernet/PCS (global) alarm occurred (parallel interfaces or serial interfaces 25G and up).
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > Alarms
	Navigation Path: Results > Alarms/Errors > PCS Lanes > Alarms
	Navigation Path: Results > Alarms/Errors > PHY > PHY > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	- For parallel/serial interfaces:
	HISer: Hi-SER
	LOA
	- For parallel interfaces:
	HIBer: Hi-BER
	INVM: Inv. Mapping
	LDSERD: L Deg SER Det (400G)
	LDSERR: L Deg SER Rcd (400G)
	LDOWn: Link Down
	LFAD: L Fault Det
	LFAR: L Fault Rcd
	RDSER: R Deg SER (400G)
	RFAult: Remote Fault
Response Syntax	<Seconds>

:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:SEConds?

Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:ETH:ALAR:PHYS:GLOB:SEC? LOA
See Also	FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:HISTory?

Description	This query returns the history status of PCS Lanes (per lane) alarm occurred.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > PCS Lanes > Alarms
	Navigation Path: Results > Alarms/Errors > PHY > PCS Lanes > Alarms
	Navigation Path: Functions > 40/50/100/400G Advanced > Lanes Mapping & Skew > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:HISTory? <wsp><Lane>, <Alarm>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOAML
	LOBL
	SKEW: Exc. Skew
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ALAR:PHYS:HIST? 1, LOBL
See Also	FETCH:DATA:TELecom:ETHernet:ALARm:PHYSical:CURRent?

:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:SEConds?

Description	This query returns the number of seconds within which PCS Lanes (per lane) alarm occurred.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > PCS Lanes > Alarms
	Navigation Path: Results > Alarms/Errors > PHY > PCS Lanes > Alarms
	Navigation Path: Functions > 40/50/100/400G Advanced > Lanes Mapping & Skew > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:SEConds? <wsp><Lane>, <Alarm>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOAML
	LOBL
	SKEW: Exc. Skew
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:ETH:ALAR:PHYS:SEC? 1, LOBL
See Also	FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:SEConds?

:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:CURRent?

Description	This query returns the current status of FEC Lanes (per lane) alarm.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > RS-FEC > FEC Lanes > Alarms
	Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > FEC Lanes > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:CURRent? <wsp><Lane>, <Alarm>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Select the lane number.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	FCLOAML: FEC-LOAML
	FECSKEW: FEC Exc. Skew
Response Syntax	<Current Status>
Response(s)	**Current Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
	MASKED: An alarm of higher priority is present.
Example(s)	FETC:DATA:TEL:ETH:ALAR:RSF:CURR? FCLOAML
See Also	:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:HISTory?

:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:GLOBal:CURRent?

Description	This query returns the current status of RS-FEC alarm.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > RS-FEC > Alarms
	Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:GLOBal:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	FCLOA: FEC-LOA
	FECDESER: FEC Degraded SER
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
	MASKED: An alarm of higher priority is present.
Example(s)	FETC:DATA:TEL:ETH:ALAR:RSF:GLOB:CURR? FCLOA
See Also	:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:GLOBal:HISTory?

:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:GLOBal:HISTory?

Description	This query returns the history status of RS-FEC alarm.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > RS-FEC > Alarms
	Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:GLOBal:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	FCLOA: FEC-LOA
	FECDESER: FEC Degraded SER
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ALAR:RSF:GLOB:HIST? FCLOA
See Also	:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:GLOBal:CURRent?

:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:GLOBal:SECo nds?

Description	This query returns the number of seconds within which RS-FEC alarm occurred.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > RS-FEC > Alarms
	Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:GLOBal:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	FCLOA: FEC-LOA
	FECDESER: FEC Degraded SER
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:ETH:ALAR:RSF:GLOB:SEC? FCLOA
See Also	:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:GLOBal:HISTory?

:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:HISTory?

Description	This query returns the history status of FEC Lanes (per lane) alarm.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > RS-FEC > FEC Lanes > Alarms
	Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > FEC Lanes > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:HISTory? <wsp><Lane>, <Alarm>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Select the lane number.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	FCLOAML: FEC-LOAML
	FECSKEW: FEC Exc. Skew
Response Syntax	<History Status>
Response(s)	**History Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ALAR:RSF:HIST? FCLOAML
See Also	:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:CURRent?

:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:SEConds?

Description	This query returns the number of seconds within which FEC Lanes (per lane) alarm occurred.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > RS-FEC > FEC Lanes > Alarms
	Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > FEC Lanes > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:SEConds? <wsp><Lane>, <Alarm>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Select the lane number.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	FCLOAML: FEC-LOAML
	FECSKEW: FEC Exc. Skew
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:ETH:ALAR:RSF:SEC? FCLOAML
See Also	:FETCh:DATA:TELecom:ETHernet:ALARm:RSFec:HISTory?

:FETCh:DATA:TELecom:ETHernet:ALARm:WIS:CURRent?

Description	This query returns the current status of WIS alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > WIS > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:WIS:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	AISL: AIS-L
	AISP: AIS-P
	EPCD: EPC-D
	EPPD: EPP-D
	EPSD: EPS-D
	LCDP: LCD-P
	LOPP: LOP-P
	LOF
	PLMP: PLM-P
	RDIL: RDI-L
	RDIP: RDI-P
	SEF
	UNEQp: UNEQ-P
	WLINk: WIS Link Down
Response Syntax	<Current>

:FETCh:DATA:TELecom:ETHernet:ALARm:WIS:CURRent?

Response(s)	Current:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ALAR:WIS:CURR? SEF
See Also	FETCh:DATA:TELecom:ETHernet:ALARm:WIS:HISTory?

:FETCh:DATA:TELecom:ETHernet:ALARm:WIS:HISTory?

Description	This query returns the history status of WIS alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > WIS > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:WIS:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	AISL: AIS-L
	AISP: AIS-P
	EPCD: EPC-D
	EPPD: EPP-D
	EPSD: EPS-D
	LCDP: LCD-P
	LOPP: LOP-P
	LOF
	PLMP: PLM-P
	RDIL: RDI-L
	RDIP: RDI-P
	SEF
	UNEQp: UNEQ-P
	WLINk: WIS Link Down
Response Syntax	<History>

:FETCh:DATA:TELecom:ETHernet:ALARm:WIS:HISTory?

Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ALAR:WIS:HIST? SEF
See Also	FETCh:DATA:TELecom:ETHernet:ALARm:WIS:CURRent?

:FETCh:DATA:TELecom:ETHernet:ALARm:WIS:SEConds?

Description	This query returns the number of seconds within which WIS alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > WIS > Alarms
Syntax	:FETCh:DATA:TELecom:ETHernet:ALARm:WIS:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	AISL: AIS-L
	AISP: AIS-P
	EPCD: EPC-D
	EPPD: EPP-D
	EPSD: EPS-D
	LCDP: LCD-P
	LOPP: LOP-P
	LOF
	PLMP: PLM-P
	RDIL: RDI-L
	RDIP: RDI-P
	SEF
	UNEQp: UNEQ-P
	WLINk: WIS Link Down
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:ETH:ALAR:WIS:SEC? SEF
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:WIS:History?

:FETCh:DATA:TELecom:ETHernet:COFFset:ALARm:CURRent?

Description	This query returns the current status of the Client Frequency alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODUflex > BER > Alarms > Client Frequency
	Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Alarms > Client frequency
Syntax	:FETCh:DATA:TELecom:ETHernet:COFFset:ALARm:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	CFRequency: Client Frequency
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:COFF:ALAR:CURR? CFR
See Also	FETCh:DATA:TELecom:ETHernet:COFFset:ALARm: SEConds?

:FETCh:DATA:TELecom:ETHernet:COFFset:ALARm:HISTory?

Description	This query returns the history status of the Client Frequency alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODUflex > BER > Alarms > Client Frequency
	Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Alarms > Client frequency
Syntax	:FETCh:DATA:TELecom:ETHernet:COFFset:ALARm:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	CFRequency: Client Frequency
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:COFF:ALAR:HIST? CFR
See Also	FETCh:DATA:TELecom:ETHernet:COFFset:ALARm: SEConds?

:FETCh:DATA:TELecom:ETHernet:COFFset:ALARm:SEConds?

Description	This query returns the number of seconds within which a Client Frequency alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODUflex > BER > Alarms > Client Frequency
	Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Alarms > Client frequency
Syntax	:FETCh:DATA:TELecom:ETHernet:COFFset:ALARm:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	CFRequency: Client Frequency
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:ETH:COFF:ALAR:SEC? CFR
See Also	FETCh:DATA:TELecom:ETHernet:COFFset:ALARm: HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:DUALport:SANalyzer :COUNt?

Description	This query returns the count of QoS Metrics per direction for dual port.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Service Performace > Frame Loss / Out-of-Sequece.
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:DUALport:SANalyzer:COUNt? <wsp><Service>, <Metric>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service number from 1 to 10.
	Metric:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the metric:
	FLOSs: Frame Loss
	OUTSequence: Out-of-Seq
	Direction:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the port direction:
	P1TOP2: P1 to P2
	P2TOP1: P2 to P1
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count.
Example(s)	FETC:DATA:TEL:ETH:ERR:DUAL:SAN:COUN? 1, FLOSs,P1TOP2
See Also	FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:CURRent?

:FETCh:DATA:TELecom:ETHernet:ERRor:DUALport:SANalyzer :CURRent?

Description	This query returns the current status of QoS Metrics per direction for dual port.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Service Performace > Frame Loss / Out-of-Sequece
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:DUALport:SANalyzer:CURRent? <wsp><Stream>, <Metric>, <Direction>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service number from 1 to 10.
	Metric:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the metric:
	FLOSs: Frame Loss
	OUTSequence: Out-of-Seq.
	Direction:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the port direction:
	P1TOP2: P1 to P2
	P2TOP1: P2 to P1
Response Syntax	<Current>

:FETCh:DATA:TELecom:ETHernet:ERRor:DUALport:SANalyzer :CURRent?

Response(s)	Current:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:DUAL:SAN:CURR? 1, FLOSs,P1TOP2
See Also	FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:RATE?

:FETCh:DATA:TELecom:ETHernet:ERRor:DUALport:SANalyzer :HISTory?

Description	This query returns the history status of QoS Metrics per direction for dual port.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Service Performace > Frame Loss / Out-of-Sequece
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:DUALport:SANalyzer:HISTory? <wsp><Service>, <Metric>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Slects the service number from 1 to 10.
	Metric:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the metric:
	FLOSs: Frame Loss
	OUTSequence: Out-of-Seq.
	Direction:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the port direction:
	P1TOP2: P1 to P2
	P2TOP1: P2 to P1
Response Syntax	<History>

:FETCh:DATA:TELecom:ETHernet:ERRor:DUALport:SANalyzer :HISTory?

Response(s)	History:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:DUAL:SAN:HIST? 1, FLOSs,P1TOP2
See Also	FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:RATE?

:FETCh:DATA:TELecom:ETHernet:ERRor:DUALport:SANalyzer :RATE?

Description	This query returns the current rate of QoS Metrics per direction for dual port.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Service Performace > Frame Loss / Out-of-Sequece - Rate
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:DUALport:SANalyzer:RATE? <wsp><Service>, <Metric>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service number from 1 to 10.
	Metric:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the metric:
	FLOSs: Frame Loss
	OUTSequence: Out-of-Seq.
	Direction:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the port direction:
	P1TOP2: P1 to P2
	P2TOP1: P2 to P1
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	FETC:DATA:TEL:ETH:ERR:DUAL:SAN:RATE? 1, FLOSs,P1TOP2
See Also	FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:DUALport:SANalyzer :SEConds?

Description	This query returns the number of seconds of QoS Metric occurrences per direction for dual port.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Service Performace > Frame Loss / Out-of-Sequece - Seconds
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:DUALport:SANalyzer:SEConds? <wsp><Service>, <Metric>, <Direction>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the service number from 1 to 10.
	Metric:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the metric:
	FLOSs: Frame Loss
	OUTSequence: Out-of-Seq.
	Direction:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the port direction:
	P1TOP2: P1 to P2
	P2TOP1: P2 to P1
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:ETH:ERR:DUAL:SAN:SEC? 1, FLOSs,P1TOP2
See Also	FETCH:DATA:TELecom:EOTN:ERRor:PHYSical:COUNt?

:FETCh:DATA:TELecom:ETHernet:ERRor:IPPRotocol:COUNt?

Description	This query returns the count of IP error.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > IP/UDP/TCP > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:IPPRotocol:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	IPCHecksum: IP Chksum
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the count of error.
Example(s)	FETC:DATA:TEL:ETH:ERR:IPPR:COUN? IPCH
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:COUNt?

:FETCh:DATA:TELecom:ETHernet:ERRor:IPPRotocol:CURRent?

Description	This query returns the current status of IP error.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > IP/UDP/TCP > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:IPPRotocol:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	IPCHecksum: IP Chksum
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:IPPR:CURR? IPCH
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:CURRent?

:FETCh:DATA:TELecom:ETHernet:ERRor:IPPRotocol:HISTory?

Description	This query returns the history status of IP error.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > IP/UDP/TCP > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:IPPRotocol:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	IPCHecksum: IP Chksum
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:IPPR:HIST? IPCH
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:IPPRotocol:RATE?

Description	This query returns the rate of IP error.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > IP/UDP/TCP > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:IPPRotocol:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	IPCHecksum: IP Chksum
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error.
Example(s)	FETC:DATA:TEL:ETH:ERR:IPPR:RATE? IPCH
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:RATE?

:FETCh:DATA:TELecom:ETHernet:ERRor:IPPRotocol:SEConds?

Description	This query returns the number of seconds within which IP error occurred.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > IP/UDP/TCP > IP Checksum
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:IPPRotocol:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	IPCHecksum: IP Chksum
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:ETH:ERR:IPPR:SEC? IPCH
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:SEConds?

:FETCh:DATA:TELecom:ETHernet:ERRor:LRATe:GLOBal:COUNt ?

Description	This query returns the count of the specified error (rates up to 25G or FlexE client).
	Navigation Path: Results > Alarms/Errors > Ethernet > Errors
	Navigation Path: Results > Alarms/Errors > Client > Ethernet > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:LRATe:GLOBal:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BLOCk: BLOCK or 66B BLOCK
	FCARrier: False carrier
	IDLE: Idle
	SYMBol: Symbol
	TERRor: Total Error
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Reports the count of ethernet error.
Example(s)	FETC:DATA:TEL:ETH:ERR:LRAT:GLOB:COUN? BLOCK
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:HISTory?
	SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier

:FETCh:DATA:TELecom:ETHernet:ERRor:LRATe:GLOBal:CURRent?

Description	This query returns the current status of the specified error (rates up to 25G or FlexE client). Navigation Path: Results > Alarms/Errors > Ethernet > Errors Navigation Path: Results > Alarms/Errors > Client > Ethernet > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:LRATe:GLOBal:CURRent? <wsp><Error>
Parameter(s)	**Error**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BLOCk: BLOCK or 66B BLOCK FCARrier: False carrier IDLE: Idle SYMBol: Symbol TERRor: Total Error
Response Syntax	<Current Status>
Response(s)	**Current Status**: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Reports the current status of ethernet error. PRESENT, indicates that at least one error has occurred in the last second. ABSENT, indicates that no error occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:ETH:ERR:LRAT:GLOB:CURR? BLOCK
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:HISTory? SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier

:FETCh:DATA:TELecom:ETHernet:ERRor:LRATe:GLOBal:HISTory?

Description	This query returns the history status of the specified error (rates up to 25G or FlexE client)s.
	Navigation Path: Results > Alarms/Errors > Ethernet > Errors
	Navigation Path: Results > Alarms/Errors > Client > Ethernet > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:LRATe:GLOBal:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BLOCk: BLOCK or 66B BLOCK
	FCARrier: False carrier
	IDLE: Idle
	SYMBol: Symbol
	TERRor: Total Error
Response Syntax	<History Status>
Response(s)	**History Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Reports the history status of ethernet error.
	PRESENT, indicates that at least one error has occurred.
	ABSENT, indicates that no error occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:ETH:ERR:LRAT:GLOB:HIST? BLOCK
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:HISTory?
	SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier

:FETCh:DATA:TELecom:ETHernet:ERRor:LRATe:GLOBal:RATE?

Description	This query returns the rate of the specified error (rates up to 25G or FlexE client).
	Navigation Path: Results > Alarms/Errors > Ethernet > Errors
	Navigation Path: Results > Alarms/Errors > Client > Ethernet > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:LRATe:GLOBal:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BLOCk: BLOCK or 66B BLOCK
	FCARrier: False carrier
	IDLE: Idle
	SYMBol: Symbol
	TERRor: Total Error
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Reports the rate of ethernet error.
Example(s)	FETC:DATA:TEL:ETH:ERR:LRAT:GLOB:RATE? BLOCK
See Also	FETCh:DATA:TELecom:ETHernet:ALARm:PHYSical:GLOBal:HISTory? LOA
	SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier

:FETCh:DATA:TELecom:ETHernet:ERRor:LRATe:GLOBal:SEConds?

Description	This query returns the cumulative duration in seconds of the specified error (rates up to 25G or FlexE client). Navigation Path: Results > Alarms/Errors > Ethernet > Errors Navigation Path: Results > Alarms/Errors > Client > Ethernet > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:LRATe:GLOBal:SEConds? <wsp><Error>
Parameter(s)	**Error**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BLOCk: BLOCK or 66B BLOCK FCARrier: False carrier IDLE: Idle SYMBol: Symbol TERRor: Total Error
Response Syntax	<Seconds>
Response(s)	**Seconds**: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Reports the Seconds of ethernet error. PRESENT, indicates that at least one error has occurred. ABSENT, indicates that no error occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:ETH:ERR:LRAT:GLOB:SEC? BLOCK
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:HISTory? SOURce:DATA:TELecom:FETHernet:CLIent:IDentifier

:FETCh:DATA:TELecom:ETHernet:ERRor:MAC:COUNt?

Description	This query returns the count of Ethernet error.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > Errors
	Navigation Path: Results > Alarms/Errors > Client > Ethernet > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:MAC:COUNt? <wsp><Error>
Parameter(s)	**Error:**
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of MAC (Media Access Control) error.
	FCS: Frame Check Sequence.
	JABBer: Jabber/Giant.
	OVERsize: Oversize.
	RUNT: Runt.
	UNDersize: Undersize.
	ALIGnment: Alignment.
Response Syntax	<Count>
Response(s)	**Count:**
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Reports the count of MAC error.
Example(s)	FETC:DATA:TEL:ETH:ERR:MAC:COUN? JABB
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:MAC:RATE?

:FETCh:DATA:TELecom:ETHernet:ERRor:MAC:CURRent?

Description	This query returns the current Ethernet error status.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > Errors
	Navigation Path: Results > Alarms/Errors > Client > Ethernet > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:MAC:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of MAC (Media Access Control) error.
	FCS: Frame Check Sequence.
	JABBer: Jabber/Giant.
	OVERsize: Oversize.
	RUNT: Runt.
	UNDersize: Undersize.
	ALIGnment: Alignment.
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Reports the current status of MAC error.
	PRESENT, indicates that at least one error has occurred in the last second.
	ABSENT, indicates that there is no error.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:ETH:ERR:MAC:CURR? JABB
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:MAC:SEConds?

:FETCh:DATA:TELecom:ETHernet:ERRor:MAC:HISTory?

Description	This query returns the history Ethernet error status.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > Errors
	Navigation Path: Results > Alarms/Errors > Client > Ethernet > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:MAC:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of MAC (Media Access Control) error.
	FCS: Frame Check Sequence.
	JABBer: Jabber/Giant.
	OVERsize: Oversize.
	RUNT: Runt.
	UNDersize: Undersize.
	ALIGnment: Alignment.
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Reports the history status of MAC error.
	PRESENT, indicates that at least one error has occurred.
	ABSENT, indicates that no error occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:ETH:ERR:MAC:HIST? JABB
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:MAC:CURRent?

:FETCh:DATA:TELecom:ETHernet:ERRor:MAC:RATE?

Description	This query returns the current Ethernet error rate.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > Errors
	Navigation Path: Results > Alarms/Errors > Client > Ethernet > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:MAC:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of MAC (Media Access Control) error.
	FCS: Frame Check Sequence.
	JABBer: Jabber/Giant.
	OVERsize: Oversize.
	RUNT: Runt.
	UNDersize: Undersize.
	ALIGnment: Alignment.
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Reports the current rate of MAC error.
Example(s)	FETC:DATA:TEL:ETH:ERR:MAC:RATE? JABB
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:MAC:HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:MAC:SEConds?

Description	This query returns the number of Ethernet error seconds.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Ethernet > Error
	Navigation Path: Results > Alarms/Errors > Client > Ethernet > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:MAC:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of MAC (Media Access Control) error.
	FCS: Frame Check Sequence.
	JABBer: Jabber/Giant.
	OVERsize: Oversize.
	RUNT: Runt.
	UNDersize: Undersize.
	ALIGnment: Alignment.
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Reports the number of seconds of MAC error.
Example(s)	FETC:DATA:TEL:ETH:ERR:MAC:SEC? JABB
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:MAC:COUNt?

:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:COUNt:TOTal?

Description	This query returns the total count within which physical error occurred.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > PCS Lanes > Errors
	Navigation Path: Results > Alarms/Errors > RS-FEC > Errors
	Navigation Path: Results > Alarms/Errors > PHY > PCS Lanes > Errors
	Navigation Path: Functions > 40G/50G/100G/400G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:COUNt:TOTal? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of PCS error.
	BIP8: BIP-8
	BLOCk: Block or 66B Block for 40G/100G/400G
	INVALIDMARKER: Inv. Marker
	FCCW: FEC Correctable Codeword
	FSERR: FEC SYMBOL
	FUCW: FEC Uncorrectable Code Words
	FUF: FEC Uncorrectable Frames
	ICWM: Invalid Codeword Marker
	PFBE: Pre-FEC-Bit
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Total count of PCS/FEC error for per lane configuration.
Example(s)	FETC:DATA:TEL:ETH:ERR:PHYS:COUN:TOT? BIP8
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:COUNt?

Description	This query returns the count of Ethernet / PCS Lanes (per lane) errors.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > PCS Lanes > Errors
	Navigation Path: Results > Alarms/Errors > PHY > PCS Lanes > Errors
	Navigation Path: Functions > 40G/50G/100G/400G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:COUNt? <wsp><Lane>, <Alarm>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BIP8: BIP-8
	BLOCk: Block or 66B Block for 40G/100G/400G
	FSERR: FEC SYMBOL
	INVALIDMARKER: Invalid Marker
	PFBE: Pre-FEC-Bit
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	FETC:DATA:TEL:ETH:ERR:PHYS:COUN? 1, BIP8
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:CURRent?

Description	This query returns the current status of Ethernet / PCS Lanes (per lane) error.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > PCS Lanes > Errors
	Navigation Path: Results > Alarms/Errors > PHY > PCS Lanes > Errors
	Navigation Path: Functions > 40G/50G/100G/400G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:CURRent? <wsp><Lane>, <Alarm>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BIP8: BIP-8
	BLOCk: Block or 66B Block for 40G/100G/400G
	INVALIDMARKER: Invalid Marker
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:PHYS:CURR? 1, BIP8
See Also	FETCH:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:CURRent?

Description	This query returns the current status of Ethernet/PCS (global) error (parallel interfaces or serial interfaces 25G and up).
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > PCS Lanes > Errors
	Navigation Path: Results > Alarms/Errors > RS-FEC > Errors
	Navigation Path: Results > Alarms/Errors > PHY > PCS Lanes > Errors
	Navigation Path: Functions > 40G/50G/100G/400G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BIP8: PCS BIP-8
	BLOCk: Block or 66B Block for 40G/100G/400G
	INVALIDMARKER: Inv. Marker
	FUCW: FEC Uncorrectable Code Words
	FUF: FEC Uncorrectable Frames
	ICWM: Inv-CW-Marker
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:PHYS:GLOB:CURR? BIP8
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HIS Tory?

Description	This query returns the history status of Ethernet/PCS (global) error (parallel interfaces or serial interfaces 25G and up).
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > PCS Lanes > Errors
	Navigation Path: Results > Alarms/Errors > RS-FEC > Errors
	Navigation Path: Results > Alarms/Errors > PHY > PCS Lanes > Errors
	Navigation Path: Functions > 40G/100G/400G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BIP8: PCS BIP-8
	BLOCk: Block or 66B Block for 40G/100G/400G
	INVALIDMARKER: Inv. Marker
	FUCW: FEC Uncorrectable Code Words
	FUF: FEC Uncorrectable Frames
	ICWM: Inv-CW-Marker
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:PHYS:GLOB:HIST? BIP8
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:HISTory?

Description	This query returns the history status of Ethernet / PCS Lanes (per lane) error.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > PCS Lanes > Errors
	Navigation Path: Results > Alarms/Errors > PHY > PCS Lanes > Errors
	Navigation Path: Functions > 40G/50G/100G/400G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:HISTory? <wsp><Lane>, <Alarm>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BIP8: BIP-8
	BLOCk: Block or 66B Block for 40G/100G/400G
	INVALIDMARKER: Invalid Marker
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:PHYS:HIST? 1, BIP8
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:RATE:TOTal ?

Description	This query returns the total current rate of Ethernet / PCS Lanes (per lane) error.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > PCS Lanes > Errors
	Navigation Path: Results > Alarms/Errors > RS-FEC > Errors
	Navigation Path: Results > Alarms/Errors > PHY > PCS Lanes > Errors
	Navigation Path: Functions > 40G/50G/100G/400G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:RATE:TOTal? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BIP8: BIP-8
	BLOCk: Block or 66B Block for 40G/100G/400G
	INVALIDMARKER: Invalid Marker
	FUCW: FEC Uncorrectable Code Words
	FUF: FEC Uncorrectable Frames
	FCCW: FEC Correctable Codeword
	FSERR: FEC Symbol
	ICWM: Invalid Codeword Marker
	PFBE: Pre-FEC-Bit
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	FETC:DATA:TEL:ETH:ERR:PHYS:RATE:TOT? BIP8
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:RATE?

Description	This query returns the current rate of Ethernet / PCS Lanes (per lane) error.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > PCS Lanes > Errors
	Navigation Path: Results > Alarms/Errors > PHY > PCS Lanes > Errors
	Navigation Path: Functions > 40G/50G/100G/400G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:RATE? <wsp><Error>, <Alarm>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BIP8: BIP-8
	BLOCk: Block or 66B Block for 40G/100G/400G
	FSERR: FEC SYMBOL
	INVALIDMARKER: Invalid Marker
	PFBE: Pre-FEC-Bit
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	FETC:DATA:TEL:ETH:ERR:PHYS:RATE? 1, BIP8
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:SEConds:TOTal?

Description	This query returns the total number of seconds within which physical error occurred.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > PCS Lanes > Errors
	Navigation Path: Results > Alarms/Errors > RS-FEC > Errors
	Navigation Path: Results > Alarms/Errors > PHY > PCS Lanes > Errors
	Navigation Path: Functions > 40G/50G/100G/400G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:SEConds:TOTal? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of PCS error.
	BLOCk: Block or 66B Block for 40G/100G/400G
	FUCW: FEC Uncorrectable Code Words
	FUF: FEC Uncorrectable Frames
	ICWM: Invalid Codeword Marker
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Total number of seconds during which errors occur on PCS lanes
Example(s)	FETC:DATA:TEL:ETH:ERR:PHYS:SEC:TOT? BLOCK
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:COUNt:TOTAL?

:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:SEConds?

Description	This query returns the number of seconds within which Ethernet / PCS Lanes error (per lane) occurred.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > PCS Lanes > Errors
	Navigation Path: Results > Alarms/Errors > PHY > PCS Lanes > Errors
	Navigation Path: Functions > 40G/50G/100G/400G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:SEConds? <wsp><Lane>, <Alarm>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BIP8: BIP-8
	BLOCk: Block or 66B Block for 40G/100G/400G
	INVALIDMARKER: Invalid Marker
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:ETH:ERR:PHYS:SEC? 1, BIP8
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:COUNt?

Description	This query returns the count of FEC Lanes (per lane) errors.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > RS-FEC > FEC Lanes > Errors
	Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > FEC Lanes > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:COUNt? <wsp><Lane>, <Error>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Select the lane number.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FCSYmb: FEC-SYMB
	FECINVALIDMARKER: FEC Inv. Marker
	PREFECBIT: Pre-FEC-Bit
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	FETC:DATA:TEL:ETH:ERR:RSF:COUN? 1,FCSY
See Also	:FETCh:DATA:TELecom:ETHernet:ERRor:RSFecl:HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:CURRent?

Description	This query returns the current status of FEC Lanes (per lane) error.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > RS-FEC > FEC Lanes > Errors
	Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > FEC Lanes > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:CURRent? <wsp><Lane>, <Error>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Select the lane number.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FCSYmb: FEC-SYMB
	FECINVALIDMARKER: FEC Inv. Marker
	PREFECBIT: Pre-FEC-Bit
Response Syntax	<Current Status>
Response(s)	**Current Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
	MASKED: An alarm of higher priority is present.
Example(s)	FETC:DATA:TEL:ETH:ERR:RSF:CURR? FCSY
See Also	:FETCh:DATA:TELecom:ETHernet:ERRor:RSFecl:HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:GLOBal:COUNt?

Description	This query returns the count within which an RS-FEC error occurred
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > RS-FEC > Errors
	Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:GLOBal:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of RS-FEC error
	FCCW: FEC-CORR-CW
	FUCW: FEC-UNCORR-CW
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Reports the count of an RS-FEC error
Example(s)	FETC:DATA:TEL:ETH:ERR:RSF:GLOB:COUN? FCCW
See Also	:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:GLOBal:HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:GLOBal:CURRent?

Description	This query returns the current status of an RS-FEC error
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > RS-FEC > Errors
	Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:GLOBal:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of RS-FEC error
	FCCW: FEC-CORR-CW
	FUCW: FEC-UNCORR-CW
Response Syntax	<Current Status>
Response(s)	**Current Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Reports the current status of an RS-FEC error
	PRESENT, indicates that at least one error has occurred in the last second.
	ABSENT, indicates that no error occurred.
	INACTIVE, indicates that the test did not run yet.
	MASKED, indicates that an alarm/error of higher priority is present
Example(s)	FETC:DATA:TEL:ETH:ERR:RSF:GLOB:CURR? FCCW
See Also	:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:GLOBal:HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:GLOBal:HISTory?

Description	This query returns the history status of an RS-FEC error
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > RS-FEC > Errors
	Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:GLOBal:HISTory? \<wsp>\<Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a \<CHARACTER PROGRAM DATA> element.
	Selects the type of RS-FEC error
	FCCW: FEC-CORR-CW
	FUCW: FEC-UNCORR-CW
Response Syntax	\<History Status>
Response(s)	**History Status**:
	The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA> element.
	Reports the history status of an RS-FEC error
	PRESENT, indicates that at least one error has occurred.
	ABSENT, indicates that no error occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:ETH:ERR:RSF:GLOB:HIST? FCCW
See Also	:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:GLOBal:CURRent?

:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:GLOBal:RATE?

Description	This query returns the rate within which an RS-FEC error occurred
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > RS-FEC > Errors
	Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:GLOBal:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of RS-FEC error
	FCCW: FEC-CORR-CW
	FUCW: FEC-UNCORR-CW
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Reports the rate of an RS-FEC error
Example(s)	FETC:DATA:TEL:ETH:ERR:RSF:GLOB:RATE? FCCW
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:GLOBal:HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:GLOBal:SEConds?

Description	This query returns the number of seconds within which an RS-FEC error occurred
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > RS-FEC > Errors
	Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:GLOBal:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of RS-FEC error
	FCCW: FEC-CORR-CW
	FUCW: FEC-UNCORR-CW
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Reports the Seconds of an RS-FEC error.
Example(s)	FETC:DATA:TEL:ETH:ERR:RSF:GLOB:SEC? FCCW
See Also	:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:GLOBal:COUNt?

:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:HISTory?

Description	This query returns the history status of FEC Lanes (per lane) error.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > RS-FEC > FEC Lanes > Errors
	Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > FEC Lanes > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:HISTory? <wsp><Lane>, <Error>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Select the lane number.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FCSYmb: FEC-SYMB
	FECINVALIDMARKER: FEC Inv. Marker
	PREFECBIT: Pre-FEC-Bit
Response Syntax	<History Status>
Response(s)	**History Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:RSF:HIST? FCSY
See Also	:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:CURRent?

:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:RATE?

Description	This query returns the current rate of FEC Lanes (per lane) errors.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > RS-FEC > FEC Lanes > Errors
	Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > FEC Lanes > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:RATE? <wsp><Lane>, <Error>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Select the lane number.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FCSYmb: FEC-SYMB
	FECINVALIDMARKER: FEC Inv. Marker
	PREFECBIT: Pre-FEC-Bit
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	FETC:DATA:TEL:ETH:ERR:RSF:RATE? 1,FCSY
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:SEConds?

Description	This query returns the number of seconds within which FEC Lanes (per lane) error occurred.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > RS-FEC > FEC Lanes > Errors
	Navigation Path: Results > Alarms/Errors > PHY > RS-FEC > FEC Lanes > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:SEConds? <wsp><Lane>, <Error>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Select the lane number.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FCSYmb: FEC-SYMB
	FECINVALIDMARKER: FEC Inv. Marker
	PREFECBIT: Pre-FEC-Bit
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:ETH:ERR:RSF:SEC? FCSY
See Also	:FETCh:DATA:TELecom:ETHernet:ERRor:RSFec:COUNt?

:FETCh:DATA:TELecom:ETHernet:ERRor:STReam:CURRent?

Description	This query returns the current status of QoS Metrics error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > QoS Metrics > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:STReam:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FLOSs: Frame Loss
	OUTSequence: Out-of-Seq
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:STR:CURR? FLOS
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:STReam:HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:STReam:HISTory?

Description	This query returns the history status of QoS Metrics error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > QoS Metrics > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:STReam:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FLOSs: Frame Loss
	OUTSequence: Out-of-Seq
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:STR:HIST? FLOS
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:STReam:CURRent?

:FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:COUNt?

Description	This query returns the count of TCP (TCP Chksum) error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarm/Errors > IP/UDP/TCP > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:COUNt?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of error.
Example(s)	FETC:DATA:TEL:ETH:ERR:TCPP:COUN?
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:CURRent?

Description	This query returns the current status of TCP (TCP Chksum) error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarm/Errors > IP/UDP/TCP > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:CURRent?
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:TCPP:CURR?
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:COUNt?

:FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:HISTory?

Description	This query returns the history status of TCP (TCP Chksum) error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarm/Errors > IP/UDP/TCP > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:HISTory?
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:TCPP:HIST?
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:SEConds?

:FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:RATE?

Description	This query returns the rate of TCP (TCP Chksum) error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarm/Errors > IP/UDP/TCP > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:RATE?
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error.
Example(s)	FETC:DATA:TEL:ETH:ERR:TCPP:RATE?
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:CURRent?

:FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:SEConds?

Description	This query returns the number of seconds within which TCP (TCP Cheksum)
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarm/Errors > IP/UDP/TCP > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:SEConds?
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:ETH:ERR:TCPP:SEC?
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:TCPProtocol:RATE?

:FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:COUNt?

Description	This query returns the count of UDP error.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > IP/TCP/UDP > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	UDPChecksum: UDP Cheksum
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the count of error.
Example(s)	FETC:DATA:TEL:ETH:ERR:UDPP:COUN? UDPC
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:IPPRotocol:COUNt?

:FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:CURRent?

Description	This query returns the current status of UDP error.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > IP/TCP/UDP > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	UDPChecksum: UDP Cheksum
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:UDPP:CURR? UDPC
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:IPPRotocol:CURRent?

:FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:HISTory?

Description	This query returns the history status of UDP error.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > IP/TCP/UDP > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	UDPChecksum: UDP Cheksum
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:UDPP:HIST? UDPC
See Also	FETCH:DATA:TELecom:ETHernet:ERRor:IPPRotocol:HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:RATE?

Description	This query returns the rate of UDP error.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > IP/TCP/UDP > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	UDPChecksum: UDP Cheksum
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error.
Example(s)	FETC:DATA:TEL:ETH:ERR:UDPP:RATE? UDPC
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:IPPRotocol:RATE?

:FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:SEConds?

Description	This query returns the number of seconds within which UDP alarm occurred.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > IP/TCP/UDP > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:UDPProtocol:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	UDPChecksum: UDP Cheksum
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:ETH:ERR:UDPP:SEC? UDPC
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:IPPRotocol:SEConds?

:FETCh:DATA:TELecom:ETHernet:ERRor:WIS:COUNt?

Description	This query returns the count of WIS errors.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > WIS > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:WIS:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	B1
	B2
	B3
	REIL: REI-L
	REIP: REI-P
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	FETC:DATA:TEL:ETH:ERR:WIS:COUN? REIP
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:WIS:RATE?

:FETCh:DATA:TELecom:ETHernet:ERRor:WIS:CURRent?

Description	This query returns the current status of WIS error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > WIS > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:WIS:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	B1
	B2
	B3
	REIL: REI-L
	REIP: REI-P
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:WIS:CURR? REIP
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:WIS:SEConds?

:FETCh:DATA:TELecom:ETHernet:ERRor:WIS:HISTory?

Description	This query returns the history status of WIS error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > WIS > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:WIS:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	B1
	B2
	B3
	REIL: REI-L
	REIP: REI-P
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:WIS:HIST? REIP
See Also	FETCh:DATA:TELecom:ETHernet:ALARm:WIS:SEConds?

:FETCh:DATA:TELecom:ETHernet:ERRor:WIS:RATE?

Description	This query returns the current rate of WIS error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > WIS > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:WIS:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	B1
	B2
	B3
	REIL: REI-L
	REIP: REI-P
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	FETC:DATA:TEL:ETH:ERR:WIS:RATE? REIP
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:WIS:COUNt?

:FETCh:DATA:TELecom:ETHernet:ERRor:WIS:SEConds?

Description	This query returns the number of seconds within which WIS error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > WIS > Errors
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:WIS:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	B1
	B2
	B3
	REIL: REI-L
	REIP: REI-P
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:ETH:ERR:WIS:SEC? REIP
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:WIS:CURRent?

:FETCh:DATA:TELecom:FETHernet:GROup:ALARm:CURRent?

Description	This query returns the current status of GlexE Group alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Group > FlexE Group > Alarms
Syntax	:FETCh:DATA:TELecom:FETHernet:GROup:ALARm:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	CALMIS: Calendar Mismatch
	GRPDOWN: FlexE Group Down
	ILLCL: Illegal Client
	INCONSISTCAL: Inconsistent Calendar
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FETH:GRO:ALAR:CURR? GRDOWN

:FETCh:DATA:TELecom:FETHernet:GROup:ALARm:HISTory?

Description	This query returns the history status of GlexE Group alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Group > FlexE Group > Alarms
Syntax	:FETCh:DATA:TELecom:FETHernet:GROup:ALARm:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	CALMIS: Calendar Mismatch
	GRPDOWN: FlexE Group Down
	ILLCL: Illegal Client
	INCONSISTCAL: Inconsistent Calendar
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FETH:GRO:ALAR:HIST? GRDOWN

:FETCh:DATA:TELecom:FETHernet:GROup:ALARm:SEConds?

Description	This query returns the number of seconds within which GlexE Group alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Group > FlexE Group > Alarms - Seconds
Syntax	:FETCh:DATA:TELecom:FETHernet:GROup:ALARm:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	CALMIS: Calendar Mismatch
	GRPDOWN: FlexE Group Down
	ILLCL: Illegal Client
	INCONSISTCAL: Inconsistent Calendar
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:FETH:GRO:ALAR:SEC? INCONSISTCAL

:FETCh:DATA:TELecom:FETHernet:PHY:ALARm:CURRent?

Description	Returns the current state of a FlexE per PHY Alarm.
	Navigation Path: Results > Alarms/Errors > Group > PHYs > Alarms
Syntax	:FETCh:DATA:TELecom:FETHernet:PHY:ALARm:CURRent? <wsp><PHY Number / Instance number>, <Alarm>
Parameter(s)	**PHY Number / Instance number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Specify the PHY number from which we want to retrieve the information.
	Incase of 400G, this parameter will behave as instance number.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of FlexE per PHY alarm.
	EXCESPHYSKEW: Excessive PHY Skew alarm.
	LOSSFLOCK: Loss of Frame Lock alarm.
	LOSSMFLOCK: Loss of Multiframe Lock alarm.
	LOSSPHYNBLOCK: Loss of PHY Number Lock alarm.
	GRPNBMIS: Group Number Mismatch alarm.
	REMPHYFAULT: Remote PHY Fault alarm.
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current status of FlexE per PHY alarm.
	PRESENT, indicates that at least one alarm has occurred in the last second.
	ABSENT, indicates that no alarm occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FETH:PHY:ALAR:CURR? 22,EXCESPHYSKEW

:FETCh:DATA:TELecom:FETHernet:PHY:ALARm:HISTory?

Description	Returns the history state of a FlexE per PHY Alarm.
	Navigation Path: Results > Alarms/Errors > Group > PHYs > Alarms
Syntax	:FETCh:DATA:TELecom:FETHernet:PHY:ALARm:HISTory? <wsp><PHY Number/ Instance number>, <Alarm>
Parameter(s)	**PHY Number/ Instance number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Specify the PHY number from which we want to retrieve the information
	Incase of 400G, this parameter will behave as instance number
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of FlexE per PHY alarm.
	EXCESPHYSKEW: Excessive PHY Skew alarm.
	LOSSFLOCK: Loss of Frame Lock alarm.
	LOSSMFLOCK: Loss of Multiframe Lock alarm.
	LOSSPHYNBLOCK: Loss of PHY Number Lock alarm.
	GRPNBMIS: Group Number Mismatch alarm.
	REMPHYFAULT: Remote PHY Fault alarm.
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history status of FlexE per PHY alarm.
	PRESENT, indicates that at least one alarm has occurred in the last second.
	ABSENT, indicates that no alarm occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FETH:PHY:ALAR:HIST? 22,LOSSFLOCK

:FETCh:DATA:TELecom:FETHernet:PHY:ALARm:SEConds?

Description	This query returns the number of seconds within which the Flexe per PHY alarm occurred.
	Navigation Path: Results > Alarms/Errors > Group > PHYs > Alarms - Seconds
Syntax	:FETCh:DATA:TELecom:FETHernet:PHY:ALARm:SEConds? <wsp><PHY Number / Instance Number>, <Alarm>
Parameter(s)	**PHY Number / Instance Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Specify the PHY number from which we want to retrieve the information
	Incase of 400G, this parameter will behave as instance number.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of FlexE per PHY alarm.
	EXCESPHYSKEW: Excessive PHY Skew alarm.
	LOSSFLOCK: Loss of Frame Lock alarm.
	LOSSMFLOCK: Loss of Multiframe Lock alarm.
	LOSSPHYNBLOCK: Loss of PHY Number Lock alarm.
	GRPNBMIS: Group Number Mismatch alarm.
	REMPHYFAULT: Remote PHY Fault alarm.
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	returns the number of seconds within which the Flexe Group alarm occurred.
Example(s)	FETC:DATA:TEL:FETH:PHY:ALAR:SEC? 22,LOSSPHYNBLOCK

:FETCh:DATA:TELecom:FETHernet:PHY:ERRor:COUNt?

Description	Returns the count of FlexE per PHY Error.
	Navigation Path: Results > Alarms/Errors > Group > PHYs > Errors > Count
Syntax	:FETCh:DATA:TELecom:FETHernet:PHY:ERRor:COUNt? <wsp><PHY Number>, <Error>
Parameter(s)	**PHY Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Specify the PHY number from which we want to retrieve the information.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of FlexE per PHY error.
	OHCRC: Invalid OH CRC error.
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of FlexE per PHY error.
Example(s)	FETC:DATA:TEL:FETH:PHY:ERR:COUN? 123,OHCRC

:FETCh:DATA:TELecom:FETHernet:PHY:ERRor:CURRent?

Description	Returns the current state of a FlexE per PHY Error.
	Navigation Path: Results > Alarms/Errors > Group > PHYs > Errors
Syntax	:FETCh:DATA:TELecom:FETHernet:PHY:ERRor:CURRent? <wsp><PHY Number>, <Error>
Parameter(s)	**PHY Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Specify the PHY number from which we want to retrieve the information.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of FlexE per PHY error.
	OHCRC: Invalid OH CRC error.
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current status of FlexE per PHY error.
	PRESENT, indicates that at least one alarm has occurred in the last second.
	ABSENT, indicates that no alarm occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FETH:PHY:ERR:CURR? 123,OHCRC

:FETCh:DATA:TELecom:FETHernet:PHY:ERRor:HISTory?

Description	Returns the history state of a FlexE per PHY Error.
	Navigation Path: Results > Alarms/Errors > Group > PHYs > Errors
Syntax	:FETCh:DATA:TELecom:FETHernet:PHY:ERRor:HISTory? <wsp><PHY Number>, <Error>
Parameter(s)	**PHY Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Specify the PHY number from which we want to retrieve the information.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of FlexE per PHY error.
	OHCRC: Invalid OH CRC error.
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history status of FlexE per PHY error.
	PRESENT, indicates that at least one alarm has occurred in the last second.
	ABSENT, indicates that no alarm occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FETH:PHY:ERR:HIST? 123,OHCRC

:FETCh:DATA:TELecom:FETHernet:PHY:ERRor:RATE?

Description	Returns the current rate of a FlexE per PHY Error.
	Navigation Path: Results > Alarms/Errors > Group > PHYs > Errors > Rate
Syntax	:FETCh:DATA:TELecom:FETHernet:PHY:ERRor:RATE? <wsp><PHY Number>, <Error>
Parameter(s)	**PHY Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Specify the PHY number from which we want to retrieve the information.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of FlexE per PHY error.
	OHCRC: Invalid OH CRC error.
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current rate of a FlexE per PHY error.
Example(s)	FETC:DATA:TEL:FETH:PHY:ERR:RATE? 123,OHCRC

:FETCh:DATA:TELecom:FETHernet:PHY:ERRor:SEConds?

Description	Returns the number of seconds of FlexE per PHY Error.
	Navigation Path: Results > Alarms/Errors > Group > PHYs > Errors > Seconds
Syntax	:FETCh:DATA:TELecom:FETHernet:PHY:ERRor:SEConds? <wsp><PHY Number>, <Error>
Parameter(s)	**PHY Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Specify the PHY number from which we want to retrieve the information.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of FlexE per PHY error.
	OHCRC: Invalid OH CRC error.
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds of FlexE per PHY error.
Example(s)	FETC:DATA:TEL:FETH:PHY:ERR:SEC? 123,OHCRC

:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ALARm:CURRent?

Description	This query returns the current status of the specified FlexE Path OAM Basic OAM alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Path OAM > Basic OAM > Alarms - Current
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ALARm:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	BCSLF: Basic OAM Client Signal Local Fault
	BCSLPI: Basic OAM Client Signal Low Power Indication
	BCSRF: Basic OAM Client Signal Remote Fault
	BLOCONT: Basic OAM Loss Of Continuity
	BRDI: Basic OAM Remote Defect Indication
	BUPER: Basic OAM Unexpected Period
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FETH:POAM:BOAM:ALAR:CURR? BLOCONT

:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ALARm:HISTory?

Description	This query returns the history status of the specified FlexE Path OAM Basic OAM alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Path OAM > Basic OAM > Alarms - History
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ALARm:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	BCSLF: Basic OAM Client Signal Local Fault
	BCSLPI: Basic OAM Client Signal Low Power Indication
	BCSRF: Basic OAM Client Signal Remote Fault
	BLOCONT: Basic OAM Loss Of Continuity
	BRDI: Basic OAM Remote Defect Indication
	BUPER: Basic OAM Unexpected Period
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FETH:POAM:BOAM:ALAR:HIST? BLOCONT

:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ALARm:SEConds?

Description	This query returns the number of seconds within which the specified FlexE Path OAM Basic OAM alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Path OAM > Basic OAM > Alarms - Seconds
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ALARm:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	BCSLF: Basic OAM Client Signal Local Fault
	BCSLPI: Basic OAM Client Signal Low Power Indication
	BCSRF: Basic OAM Client Signal Remote Fault
	BLOCONT: Basic OAM Loss Of Continuity
	BRDI: Basic OAM Remote Defect Indication
	BUPER: Basic OAM Unexpected Period
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:FETH:POAM:BOAM:ALAR:SEC? BLOCONT

:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:COUNt?

Description	This query returns the count of the specified FlexE Path OAM Basic OAM error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Path OAM > Basic OAM > Errors - Count
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BBIP8: Basic OAM Bit Interleaved Parity
	BREI: Basic OAM Remote Error Indication
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of error.
Example(s)	FETC:DATA:TEL:FETH:POAM:BOAM:ERR:COUN? BBIP8
See Also	FETCh:DATA:TELecom:FETHernet:POAM:ERRor:COUNt?

:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:CURRent?

Description	This query returns the current status of the specified FlexE Path OAM Basic OAM error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Path OAM > Basic OAM > Errors - Current
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:CURRent? <wsp><Error>
Parameter(s)	**Error**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: BBIP8: Basic OAM Bit Interleaved Parity BREI: Basic OAM Remote Error Indication
Response Syntax	<Current>
Response(s)	**Current**: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FETH:POAM:BOAM:ERR:CURR? BBIP8
See Also	FETCh:DATA:TELecom:FETHernet:POAM:ERRor:CURRent?

:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:HISTory?

Description	This query returns the history status of the specified FlexE Path OAM Basic OAM error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Path OAM> Basic OAM > Errors - History
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BBIP8: Basic OAM Bit Interleaved Parity
	BREI: Basic OAM Remote Error Indication
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FETH:POAM:BOAM:ERR:HIST? BBIP8
See Also	FETCh:DATA:TELecom:FETHernet:POAM:ERRor:HISTory?

:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:RATE?

Description	This query returns the rate of the specified FlexE Path OAM Basic OAM error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Path OAM > Basic OAM > Errors - Rate
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BBIP8: Basic OAM Bit Interleaved Parity
	BREI: Basic OAM Remote Error Indication
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error.
Example(s)	FETC:DATA:TEL:FETH:POAM:BOAM:ERR:RATE? BBIP8
See Also	FETCh:DATA:TELecom:FETHernet:POAM:ERRor:RATE?

:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:SEConds?

Description	This query returns the number of seconds within which the specified FlexE Path OAM Basic OAM error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Path OAM > Basic OAM > Errors - Seconds
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BBIP8: Basic OAM Bit Interleaved Parity
	BREI: Basic OAM Remote Error Indication
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:FETH:POAM:BOAM:ERR:SEC? BBIP8
See Also	FETCh:DATA:TELecom:FETHernet:POAM:ERRor:SEConds?

:FETCh:DATA:TELecom:FETHernet:POAM:CSIGnal:ALARm:CURRent?

Description	This query returns the current status of the specified FlexE Path OAM Client Signal alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Path OAM > Client Signal > Alarms - Current
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:CSIGnal:ALARm:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	CSTYPEM: Client Signal type Mismatch
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FETH:POAM:CSIG:ALAR:CURR? CSTM

:FETCh:DATA:TELecom:FETHernet:POAM:CSIGnal:ALARm:HISTory?

Description	This query returns the history status of the specified FlexE Path OAM Client Signal alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Path OAM > Client Signal > Alarms - History
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:CSIGnal:ALARm:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	CSTYPEM: Client Signal type Mismatch
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FETH:POAM:CSIG:ALAR:HIST? CSTM

:FETCh:DATA:TELecom:FETHernet:POAM:CSIGnal:ALARm:SEConds?

Description	This query returns the number of seconds within which the specified FlexE Path OAM Client Signal alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Path OAM > Client Signal > Alarms - Seconds
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:CSIGnal:ALARm:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	CSTYPEM: Client Signal type Mismatch
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:FETH:POAM:CSIG:ALAR:SEC? CSTM

:FETCh:DATA:TELecom:FETHernet:POAM:CVER:ALARm:CURRent?

Description	This query returns the current status of the specified FlexE Path OAM Connectivity Verification alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Path OAM > Connectivity Verification > Alarms - Current
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:CVER:ALARm:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	DAPIMismatch: Dapi Mismatch
	SAPIMismatch: Sapi Mismatch
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FETH:POAM:CVER:ALAR:CURR? DAPIMi

:FETCh:DATA:TELecom:FETHernet:POAM:CVER:ALARm:HISTory?

Description	This query returns the history status of the specified FlexE Path OAM Connectivity Verification alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Path OAM > Connectivity Verification > Alarms - History
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:CVER:ALARm:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	DAPIMismatch: Dapi Mismatch
	SAPIMismatch: Sapi Mismatch
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FETH:POAM:CVER:ALAR:HIST? DAPIM

:FETCh:DATA:TELecom:FETHernet:POAM:CVER:ALARm:SECo nds?

Description	This query returns the number of seconds within which the specified FlexE Path OAM Connectivity Verification alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Path OAM > Connectivity Verification > Alarms - Seconds
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:CVER:ALARm:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	DAPIMismatch: Dapi Mismatch
	SAPIMismatch: Dapi Mismatch
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:FETH:POAM:CVER:ALAR:SEC? DAPIM

:FETCh:DATA:TELecom:FETHernet:POAM:ERRor:COUNt?

Description	This query returns the count of the specified FlexE Path OAM error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Path OAM > Errors - Count
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:ERRor:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	PCRC4: Path OAM Cyclic Redundancy Check over 4 bits
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of error.
Example(s)	FETC:DATA:TEL:FETH:POAM:ERR:COUN? PCRC4
See Also	FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:COUNt?

:FETCh:DATA:TELecom:FETHernet:POAM:ERRor:CURRent?

Description	This query returns the current status of the specified FlexE Path OAM error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Path OAM > Errors - Current
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:ERRor:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	PCRC4: Path OAM Cyclic Redundancy Check over 4 bits
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FETH:POAM:ERR:CURR? PCRC4
See Also	FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:CURRent?

:FETCh:DATA:TELecom:FETHernet:POAM:ERRor:HISTory?

Description	This query returns the history status of the specified FlexE Path OAM error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Path OAM> Errors - History
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:ERRor:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	PCRC4: Path OAM Cyclic Redundancy Check over 4 bits
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FETH:POAM:ERR:HIST? PCRC4
See Also	FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:HISTory?

:FETCh:DATA:TELecom:FETHernet:POAM:ERRor:RATE?

Description	This query returns the rate of the specified FlexE Path OAM error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Path OAM > Errors - Rate
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:ERRor:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	PCRC4: Path OAM Cyclic Redundancy Check over 4 bits
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error.
Example(s)	FETC:DATA:TEL:FETH:POAM:ERR:RATE? PCRC4
See Also	FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:RATE?

:FETCh:DATA:TELecom:FETHernet:POAM:ERRor:SEConds?

Description	This query returns the number of seconds within which the specified FlexE Path OAM error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Path OAM > Errors - Seconds
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:ERRor:SEConds? <wsp><Error>
Parameter(s)	**Error**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: PCRC4: Path OAM Cyclic Redundancy Check over 4 bits
Response Syntax	<Seconds>
Response(s)	**Seconds**: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:FETH:POAM:ERR:SEC? PCRC4
See Also	FETCh:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:SEConds?

:FETCh:DATA:TELecom:FIBer:ALARm:PHYSical:CURRent?

Description	This query returns the current status of Fibre Channel alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Fibre Channel > Alarms
Syntax	:FETCh:DATA:TELecom:FIBer:ALARm:PHYSical:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LDOWn: Link Down
	LFAult: Local Fault
	LFAD: Local Fault Detected (FC 10X)
	LFAR: Local Fault Received (FC 10X)
	RFAult: Remote Fault (FC 10X)
	LOCWS: LOCWS (FC 32X)
	RD: RD (64X)
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FIB:ALAR:PHYS:CURR? LDOW
	Returns the current status of physical alarm.
See Also	FETCH:DATA:TELecom:SOAM:ALARm:SEConds?

:FETCh:DATA:TELecom:FIBer:ALARm:PHYSical:HISTory?

Description	This query returns the history status of Fibre Channel alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Fibre Channel > Alarms
Syntax	:FETCh:DATA:TELecom:FIBer:ALARm:PHYSical:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LDOWn: Link Down
	LFAult: Local Fault
	LFAD: Local Fault Detected (FC 10X)
	LFAR: Local Fault Received (FC 10X)
	RFAult: Remote Fault (FC 10X)
	LOCWS: LOCWS (FC 32X)
	RD: RD (64X)
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FIB:ALAR:PHYS:HIST? LDOW
See Also	FETCh:DATA:TELecom:SOAM:ALARm:CURRent?

:FETCh:DATA:TELecom:FIBer:ALARm:PHYSical:SEConds?

Description	This query returns the number of seconds within which Fibre Channel alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Fibre Channel > Alarms
Syntax	:FETCh:DATA:TELecom:FIBer:ALARm:PHYSical:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LDOWn: Link Down
	LFAult: Local Fault
	LFAD: Local Fault Detected (FC 10X)
	LFAR: Local Fault Received (FC 10X)
	RFAult: Remote Fault (FC 10X)
	LOCWS: LOCWS (FC 32X)
	RD: RD (64X)
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:FIB:ALAR:PHYS:SEC? LDOW
See Also	FETCh:DATA:TELecom:SOAM:ALARm:HISTory?

:FETCh:DATA:TELecom:FIBer:ERRor:FC:COUNt?

Description	This query returns the count of Fibre Channel errors.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Fibre Channel > Errors
Syntax	:FETCh:DATA:TELecom:FIBer:ERRor:FC:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FCS
	OVERsize: Oversize
	UNDersize: Undersize
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	FETC:DATA:TEL:FIB:ERR:FC:COUN? OVER
	Returns the count of FC error.
See Also	FETCh:DATA:TELecom:FIBer:ERRor:PHYSical:COUNt?

:FETCh:DATA:TELecom:FIBer:ERRor:FC:CURRent?

Description	This query returns the current status of Fibre Channel error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Fibre Channel > Errors
Syntax	:FETCh:DATA:TELecom:FIBer:ERRor:FC:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FCS
	OVERsize: Oversize
	UNDersize: Undersize
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FIB:ERR:FC:CURR? OVER
	Returns the current FC status.
See Also	FETCH:DATA:TELecom:FIBer:ERRor:PHYSical:CURRent?

:FETCh:DATA:TELecom:FIBer:ERRor:FC:HISTory?

Description	This query returns the history status of Fibre Channel error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Fibre Channel > Errors
Syntax	:FETCh:DATA:TELecom:FIBer:ERRor:FC:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FCS
	OVERsize: Oversize
	UNDersize: Undersize
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FIB:ERR:FC:HIST? OVER
	Returns the history status of FC error.
See Also	FETCh:DATA:TELecom:FIBer:ERRor:PHYSical:HISTory?

:FETCh:DATA:TELecom:FIBer:ERRor:FC:RATE?

Description	This query returns the current rate of Fibre Channel error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Fibre Channel > Errors
Syntax	:FETCh:DATA:TELecom:FIBer:ERRor:FC:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FCS
	OVERsize: Oversize
	UNDersize: Undersize
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	FETC:DATA:TEL:FIB:ERR:FC:RATE? OVER
	Returns the current rate of FC error.
See Also	FETCh:DATA:TELecom:FIBer:ERRor:PHYSical:RATE?

:FETCh:DATA:TELecom:FIBer:ERRor:FC:SEConds?

Description	This query returns the number of seconds within which Fibre Channel error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Fibre Channel > Errors
Syntax	:FETCh:DATA:TELecom:FIBer:ERRor:FC:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FCS
	OVERsize: Oversize
	UNDersize: Undersize
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:FIB:ERR:FC:SEC? OVER
	Returns the number of seconds of FC error.
See Also	FETCh:DATA:TELecom:FIBer:ERRor:PHYSical:SEConds?

:FETCh:DATA:TELecom:FIBer:ERRor:PHYSical:COUNt?

Description	This query returns the count of Fibre Channel errors.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Fibre Channel > Errors
Syntax	:FETCh:DATA:TELecom:FIBer:ERRor:PHYSical:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BLOCk: Block (FC 10X/16X) or 66B BLOCK (FC 32X)
	SYMbol: Symbol (FC 1X/2X/4X/8X)
	FCCW: FEC-COR-CW (FC 32X)
	FUCW: FEC-UNCOR-CW (FC 32X)
	PFSERR: Pre-FEC-SYMB (FC 32X)
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	FETC:DATA:TEL:FIB:ERR:PHYS:COUN? BLOC
	Returns the count of physical error.
See Also	FETCh:DATA:TELecom:FIBer:ERRor:FC:COUNt?

:FETCh:DATA:TELecom:FIBer:ERRor:PHYSical:CURRent?

Description	This query returns the current status of Fibre Channel error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Fibre Channel > Errors
Syntax	:FETCh:DATA:TELecom:FIBer:ERRor:PHYSical:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BLOCk: Block (FC 10X/16X) or 66B BLOCK (FC 32X)
	SYMbol: Symbol (FC 1X/2X/4X/8X)
	FUCW: FEC-UNCOR-CW (FC 32X)
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FIB:ERR:PHYS:CURR? BLOC
	Returns the current status of physical error.
See Also	FETCh:DATA:TELecom:FIBer:ERRor:FC:CURRent?

:FETCh:DATA:TELecom:FIBer:ERRor:PHYSical:HISTory?

Description	This query returns the history status of Fibre Channel error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Fibre Channel > Errors
Syntax	:FETCh:DATA:TELecom:FIBer:ERRor:PHYSical:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BLOCk: Block (FC 10X/16X) or 66B BLOCK (FC 32X)
	SYMbol: Symbol (FC 1X/2X/4X/8X)
	FUCW: FEC-UNCOR-CW (FC 32X)
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:FIB:ERR:PHYS:HIST? BLOC
	Returns the history status of physical error.
See Also	FETCH:DATA:TELecom:FIBer:ERRor:FC:HISTory?

:FETCh:DATA:TELecom:FIBer:ERRor:PHYSical:RATE?

Description	This query returns the current rate of Fibre Channel error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Fibre Channel > Errors
Syntax	:FETCh:DATA:TELecom:FIBer:ERRor:PHYSical:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BLOCk: Block (FC 10X/16X) or 66B BLOCK (FC 32X)
	SYMbol: Symbol (FC 1X/2X/4X/8X)
	FCCW: FEC-COR-CW (FC 32X)
	FUCW: FEC-UNCOR-CW (FC 32X)
	PFSERR: Pre-FEC-SYMB (FC 32X)
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	FETC:DATA:TEL:FIB:ERR:PHYS:RATE? BLOC
	Returns the current rate of physical error.
See Also	FETCh:DATA:TELecom:FIBer:ERRor:FC:RATE?

:FETCh:DATA:TELecom:FIBer:ERRor:PHYSical:SEConds?

Description	This query returns the number of seconds within which Fibre Channel error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Fibre Channel > Errors
Syntax	:FETCh:DATA:TELecom:FIBer:ERRor:PHYSical:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BLOCk: Block (FC 10X/16X) or 66B BLOCK (FC 32X)
	SYMbol: Symbol (FC 1X/2X/4X/8X)
	FUCW: FEC-UNCOR-CW (FC 32X)
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:FIB:ERR:PHYS:SEC? BLOC
See Also	FETCh:DATA:TELecom:FIBer:ERRor:FC:SEConds?

:FETCh:DATA:TELecom:FOTN:FEC:ERRor:COUNt?

Description	This query returns the count of FEC error for FlexO BERT.
	Navigation Path: Results > Alarms/Errors > FEC > Errors
Syntax	:FETCh:DATA:TELecom:FOTN:FEC:ERRor:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error type whose count is to be retrieved.
	FCCW: FEC correctable code word error
	FUCW: FEC uncorrectable code word error
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Reports the count of FEC error.
Example(s)	FETC:DATA:TEL:FOTN:FEC:ERR:COUN? CORR
See Also	FETCh:DATA:TELecom:FOTN:FEC:ERRor:LANE:COUNt?

:FETCh:DATA:TELecom:FOTN:FEC:ERRor:CURR?

Description	This query returns the current status of FEC error for FlexO BERT.
	Navigation Path: Results > Alarms/Errors > FEC > Errors
Syntax	:FETCh:DATA:TELecom:FOTN:FEC:ERRor:CURR? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error whose status is to be retrieved.
	FCCW: FEC correctable code word error
	FUCW: FEC uncorrectable code word error
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Reports the current status of FEC error.
	PRESENT, indicates that at least one error has occurred.
	ABSENT, indicates that no error occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:FEC:ERR:CURR? CORR
See Also	FETCh:DATA:TELecom:FOTN:FEC:ERRor:LANE:CURRent?

:FETCh:DATA:TELecom:FOTN:FEC:ERRor:HISTory?

Description	This query returns the history status of FEC error for FlexO BERT.
	Navigation Path: Results > Alarms/Errors > FEC > Errors
Syntax	:FETCh:DATA:TELecom:FOTN:FEC:ERRor:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error whose status is to be retrieved.
	FCCW: FEC correctable code word error
	FUCW: FEC uncorrectable code word error
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Reports the history status of FEC error.
	PRESENT, indicates that at least one error has occurred.
	ABSENT, indicates that no error occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:FEC:ERR:HIST? FCCW
See Also	FETCh:DATA:TELecom:FOTN:FEC:ERRor:LANE:HISTory?

:FETCh:DATA:TELecom:FOTN:FEC:ERRor:LANE:COUNt?

Description	This query returns the count of FEC error for a specified lane for FlexO BERT.
	Navigation Path: Results > Alarms/Errors > FEC > Lane > Errors
Syntax	:FETCh:DATA:TELecom:FOTN:FEC:ERRor:LANE:COUNt? <wsp><Lane Number>, <Error>
Parameter(s)	**Lane Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error type whose count is to be retrieved.
	FCSYmb: FEC correctable symbol error
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Reports the count of FEC error for the specified lane.
Example(s)	FETC:DATA:TEL:FOTN:FEC:ERR:LANE:COUN? 1, SYMB
See Also	FETCh:DATA:TELecom:FOTN:FEC:ERRor:COUNt?

:FETCh:DATA:TELecom:FOTN:FEC:ERRor:LANE:CURRent?

Description	This query returns the current status of FEC Lane error for a specified lane for FlexO BERT.
	Navigation Path: Results > Alarms/Errors > FEC > Lane > Errors
Syntax	:FETCh:DATA:TELecom:FOTN:FEC:ERRor:LANE:CURRent? <wsp><Lane Number>, <Error>
Parameter(s)	**Lane Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error type whose status is to be retrieved.
	FCSYmb: FEC correctable symbol error
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Reports the current status of FEC error for the specified lane.
	PRESENT, indicates that at least one alarm has occurred in the last second.
	ABSENT, indicates that no alarm occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:FEC:ERR:LANE:CURR? 1, SYMB
See Also	FETCh:DATA:TELecom:FOTN:FEC:ERRor:CURRent?

:FETCh:DATA:TELecom:FOTN:FEC:ERRor:LANE:HISTory?

Description	This query returns the history status of FEC Lane error for a specified lane for FlexO BERT.
	Navigation Path: Results > Alarms/Errors > FEC > Lane > Errors
Syntax	:FETCh:DATA:TELecom:FOTN:FEC:ERRor:LANE:HISTory? <wsp><Lane Number>, <Error>
Parameter(s)	**Lane Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error type whose status is to be retrieved.
	FCSYmb: FEC correctable symbol error
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Reports the history status of FEC error for the specified lane.
	PRESENT, indicates that at least one error has occurred in the last second.
	ABSENT, indicates that no error occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:FEC:ERR:LANE:HIST? 1, FCSY
See Also	FETCh:DATA:TELecom:FOTN:FEC:ERRor:HISTory?

:FETCh:DATA:TELecom:FOTN:FEC:ERRor:LANE:RATE?

Description	This query returns the rate of FEC error for a specified lane for FlexO BERT.
	Navigation Path: Results > Alarms/Errors > FEC > Lane > Errors
Syntax	:FETCh:DATA:TELecom:FOTN:FEC:ERRor:LANE:RATE? <wsp><Lane Number>, <Error>
Parameter(s)	**Lane Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error type whose rate is to be retrieved.
	FCSYmb: FEC correctable symbol error
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Reports the rate of FEC error for the specified lane.
Example(s)	FETC:DATA:TEL:FOTN:FEC:ERR:LANE:RATE? 1, SYMB
See Also	FETCh:DATA:TELecom:FOTN:FEC:ERRor:RATE?

:FETCh:DATA:TELecom:FOTN:FEC:ERRor:LANE:SEConds?

Description	This query returns the number of seconds within which the FEC error occurred for a specified lane for FlexO BERT.
	Navigation Path: Results > Alarms/Errors > FEC > Lane > Errors
Syntax	:FETCh:DATA:TELecom:FOTN:FEC:ERRor:LANE:SEConds? <wsp><Lane Number>, <Error>
Parameter(s)	**Lane Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error type whose number of seconds in error is to be retrieved.
	FCSYmb: FEC correctable symbol error
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Reports the number of seconds of FEC error for the specified lane.
Example(s)	FETC:DATA:TEL:FOTN:FEC:ERR:LANE:SEC? 1, SYMB
See Also	FETCh:DATA:TELecom:FOTN:FEC:ERRor:SEConds?

:FETCh:DATA:TELecom:FOTN:FEC:ERRor:RATe?

Description	This query returns the rate of FEC error for FlexO BERT.
	Navigation Path: Results > Alarms/Errors > FEC > Errors
Syntax	:FETCh:DATA:TELecom:FOTN:FEC:ERRor:RATe? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error type whose rate is to be retrieved.
	FCCW: FEC correctable code word error
	FUCW: FEC uncorrectable code word error
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Reports the rate of FEC error.
Example(s)	FETC:DATA:TEL:FOTN:FEC:ERR:RATE? CORR
See Also	FETCh:DATA:TELecom:FOTN:FEC:ERRor:LANE:RATE?

:FETCh:DATA:TELecom:FOTN:FEC:ERRor:SEConds?

Description	This query returns the number of seconds within which the FEC error occurred for FlexO BERT.
	Navigation Path: Results > Alarms/Errors > FEC > Errors
Syntax	:FETCh:DATA:TELecom:FOTN:FEC:ERRor:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error type whose number of seconds in error is to be retrieved.
	FCCW: FEC correctable code word error
	FUCW: FEC uncorrectable code word error
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Reports the number of seconds of FEC error.
Example(s)	FETC:DATA:TEL:FOTN:FEC:ERR:SEC? CORR
See Also	FETCh:DATA:TELecom:FOTN:FEC:ERRor:LANE:SEConds?

:FETCh:DATA:TELecom:FOTN:FOIC:ALARm:CURRent?

Description	This query returns the current status of FOIC alarm.
	Navigation Path: Results > Alarms/Errors > FOICx.y > Alarms
Syntax	:FETCh:DATA:TELecom:FOTN:FOIC:ALARm:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm whose status is to be retrieved.
	LOA: Loss of Alignment
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Reports the current status of FOIC alarm.
	PRESENT, indicates that at least one alarm has occurred.
	ABSENT, indicates that no alarm occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:FOIC:ALAR:CURR? LOA
See Also	FETCh:DATA:TELecom:FOTN:FOIC:ALARm:LANE:CURRent?

:FETCh:DATA:TELecom:FOTN:FOIC:ALARm:HISTory?

Description	This query returns the history status of FOIC alarm.
	Navigation Path: Results > Alarms/Errors > FOICx.y > Alarms
Syntax	:FETCh:DATA:TELecom:FOTN:FOIC:ALARm:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm whose status is to be retrieved
	LOA: Loss of Alignment
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Reports the history status of FOIC alarm.
	PRESENT, indicates that at least one alarm has occurred.
	ABSENT, indicates that no alarm occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:FOIC:ALAR:HIST? LOA
See Also	FETCh:DATA:TELecom:FOTN:FOIC:ALARm:LANE:HISTory?

:FETCh:DATA:TELecom:FOTN:FOIC:ALARm:LANE:CURRent?

Description	This query returns the current status of FOIC Lane alarm for a specified lane.
	Navigation Path: Results > Alarms/Errors > FOICx.y > Lane > Alarms
Syntax	:FETCh:DATA:TELecom:FOTN:FOIC:ALARm:LANE:CURRent? <wsp><Lane Number>, <Alarm>
Parameter(s)	**Lane Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm type whose status is to be retrieved.
	EXCessiveSKEW: Excessive Skew
	LOAML: Loss of Alignment Marker Lock
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Reports the current status of FOIC alarm for the specified lane.
	PRESENT, indicates that at least one alarm has occurred.
	ABSENT, indicates that no alarm occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:FOIC:ALAR:LANE:CURR? 1, LOAML
See Also	FETCh:DATA:TELecom:FOTN:FOIC:ALARm:CURRent?

:FETCh:DATA:TELecom:FOTN:FOIC:ALARm:LANE:HISTory?

Description	This query returns the history status of FOIC Lane alarm for a specified lane.
	Navigation Path: Results > Alarms/Errors > FOICx.y > Lane > Alarms
Syntax	:FETCh:DATA:TELecom:FOTN:FOIC:ALARm:LANE:HISTory? <wsp><Lane Number>, <Alarm>
Parameter(s)	**Lane Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm type whose status is to be retrieved.
	EXCessiveSKEW: Excessive Skew
	LOAML: Loss of Alignment Marker Lock
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Reports the history status of FOIC alarm for the specified lane.
	PRESENT, indicates that at least one alarm has occurred.
	ABSENT, indicates that no alarm occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:FOIC:ALAR:LANE:HIST? 1, LOAML
See Also	FETCh:DATA:TELecom:FOTN:FOIC:ALARm:HISTory?

:FETCh:DATA:TELecom:FOTN:FOIC:ALARm:LANE:SEConds?

Description	This query returns the number of seconds within which the FOIC alarm occurred for a specified lane.
	Navigation Path: Results > Alarms/Errors > FOICx.y > Lane > Alarms
Syntax	:FETCh:DATA:TELecom:FOTN:FOIC:ALARm:LANE:SEConds? <wsp><Lane Number>, <Alarm>
Parameter(s)	**Lane Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm type whose number of seconds in alarm is to be retrieved.
	EXCessiveSKEW: Excessive Skew
	LOAML: Loss of Alignment Marker Lock
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Reports the number of seconds of FOIC alarm for the specified lane.
Example(s)	FETC:DATA:TEL:FOTN:FOIC:ALAR:LANE:SEC? 1, LOAML
See Also	FETCh:DATA:TELecom:FOTN:FOIC:ALARm:SEConds?

:FETCh:DATA:TELecom:FOTN:FOIC:ALARm:SEConds?

Description	This query returns the number of seconds within which the FOIC alarm occurred.
	Navigation Path: Results > Alarms/Errors > FOICx.y > Alarms
Syntax	:FETCh:DATA:TELecom:FOTN:FOIC:ALARm:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm type whose number of seconds in alarm is to be retrieved.
	LOA: Loss of Alignment
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Reports the number of seconds of FOIC alarm.
Example(s)	FETC:DATA:TEL:FOTN:FOIC:ALAR:SEC? LOA
See Also	FETCh:DATA:TELecom:FOTN:FOIC:ALARm:LANE:SEConds?

:FETCh:DATA:TELecom:FOTN:FOIC:ERRor:LANE:COUNt?

Description	This query returns the count of FOIC error for a specified lane.
	Navigation Path: Results > Alarms/Errors > FOICx.y > Lane > Errors
Syntax	:FETCh:DATA:TELecom:FOTN:FOIC:ERRor:LANE:COUNt? <wsp><Lane Number>, <Error>
Parameter(s)	**Lane Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error type whose count is to be retrieved.
	INVMARKER: Invalid Marker
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Reports the count of FOIC error for the specified lane.
Example(s)	FETC:DATA:TEL:FOTN:FOIC:ERR:LANE:COUN? 1, INVMARKER
See Also	FETCh:DATA:TELecom:FOTN:FOIC:ERRor:LANE:RATE?

:FETCh:DATA:TELecom:FOTN:FOIC:ERRor:LANE:CURRent?

Description	This query returns the current status of FOIC Lane error for a specified lane.
	Navigation Path: Results > Alarms/Errors > FOICx.y > Lane > Errors
Syntax	:FETCh:DATA:TELecom:FOTN:FOIC:ERRor:LANE:CURRent? <wsp><Lane Number>, <Error>
Parameter(s)	**Lane Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error type whose status is to be retrieved.
	INVMARKER: Invalid Marker
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Reports the current status of FOIC error for the specified lane.
	PRESENT, indicates that at least one error has occurred in the last second.
	ABSENT, indicates that no error occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:FOIC:ERR:LANE:CURR? 1, INVMARKER
See Also	FETCh:DATA:TELecom:FOTN:FOIC:ERRor:LANE:HISTory?

:FETCh:DATA:TELecom:FOTN:FOIC:ERRor:LANE:HISTory?

Description	This query returns the history status of FOIC Lane error for a specified lane.
	Navigation Path: Results > Alarms/Errors > FOICx.y > Lane > Errors
Syntax	:FETCh:DATA:TELecom:FOTN:FOIC:ERRor:LANE:HISTory? <wsp><Lane Number>, <Error>
Parameter(s)	**Lane Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error type whose status is to be retrieved.
	INVMARKER: Invalid Marker
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Reports the history status of FOIC error for the specified lane.
	PRESENT, indicates that at least one error has occurred in the last second.
	ABSENT, indicates that no error occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:FOIC:ERR:LANE:HIST? 1, INVMARKER
See Also	FETCh:DATA:TELecom:FOTN:FOIC:ERRor:LANE:CURRent?

:FETCh:DATA:TELecom:FOTN:FOIC:ERRor:LANE:RATE?

Description	This query returns the rate of FOIC error for a specified lane.
	Navigation Path: Results > Alarms/Errors > FOICx.y > Lane > Errors
Syntax	:FETCh:DATA:TELecom:FOTN:FOIC:ERRor:LANE:RATE? <wsp><Lane Number>, <Error>
Parameter(s)	**Lane Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error type whose rate is to be retrieved.
	INVMARKER: Invalid Marker
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Reports the rate of FOIC error for the specified lane.
Example(s)	FETC:DATA:TEL:FOTN:FOIC:ERR:LANE:RATE? 1, INVMARKER
See Also	FETCh:DATA:TELecom:FOTN:FOIC:ERRor:LANE:SEConds?

:FETCh:DATA:TELecom:FOTN:FOIC:ERRor:LANE:SEConds?

Description	This query returns the number of seconds within which the FOIC error occurred for a specified lane.
	Navigation Path: Results > Alarms/Errors > FOICx.y > Lane > Errors
Syntax	:FETCh:DATA:TELecom:FOTN:FOIC:ERRor:LANE:SEConds? <wsp><Lane Number>, <Error>
Parameter(s)	**Lane Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error type whose number of seconds in error is to be retrieved.
	INVMARKER: Invalid Marker
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Reports the number of seconds of FOIC error for the specified lane.
Example(s)	FETC:DATA:TEL:FOTN:FOIC:ERR:LANE:SEC? 1, INVMARKER
See Also	FETCh:DATA:TELecom:FOTN:FOIC:ERRor:LANE:HISTory?

:FETCh:DATA:TELecom:FOTN:GROup:ALARm:CURRent?

Description	Returns the current state of a FlexO Group Alarm.
	Navigation Path: Results > Alarms/Errors > FlexO > FlexO > Alarms
Syntax	:FETCh:DATA:TELecom:FOTN:GROup:ALARm:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of FlexO Group alarm.
	GRPDOWN: FlexO Group Down
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current status of FlexO Group alarm.
	PRESENT, indicates that at least one alarm has occurred in the last second.
	ABSENT, indicates that no alarm occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:GRO:ALAR:CURR? GRPDOWN
See Also	FETCh:DATA:TELecom:FOTN:GROup:ALARm:HISTory?
	FETCh:DATA:TELecom:FOTN:GROup:ALARm:SEConds?
	FETCh:DATA:TELecom:FOTN:INSTance:ALARm:CURRent?

:FETCh:DATA:TELecom:FOTN:GROup:ALARm:HISTory?

Description	Returns the history state of a FlexO Group Alarm.
	Navigation Path: Results > Alarms/Errors > FlexO > FlexO > Alarms
Syntax	:FETCh:DATA:TELecom:FOTN:GROup:ALARm:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of FlexO Group alarm
	GRPDOWN: FlexO Group Down
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history state of FlexO Group alarm.
	PRESENT, indicates that at least one alarm has occurred.
	ABSENT, indicates that no alarm occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:GRO:ALAR:HIST? GRPDOWN
See Also	FETCh:DATA:TELecom:FOTN:GROup:ALARm:CURRent?
	FETCh:DATA:TELecom:FOTN:GROup:ALARm:SEConds?
	FETCh:DATA:TELecom:FOTN:INSTance:ALARm:HISTory?

:FETCh:DATA:TELecom:FOTN:GROup:ALARm:SEConds?

Description	Returns the number of seconds within which the FlexO Group alarm occurred.
	Navigation Path: Results > Alarms/Errors > FlexO > FlexO > Alarms > Seconds
Syntax	:FETCh:DATA:TELecom:FOTN:GROup:ALARm:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of FlexO Group alarm
	GRPDOWN: FlexO Group Down
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds within which the FlexO Group alarm occurred.
Example(s)	FETC:DATA:TEL:FOTN:GRO:ALAR:SEC? GRPDOWN
See Also	FETCh:DATA:TELecom:FOTN:GROup:ALARm:CURRent?
	FETCh:DATA:TELecom:FOTN:GROup:ALARm:HISTory?
	FETCh:DATA:TELecom:FOTN:INSTance:ALARm:SEConds?

:FETCh:DATA:TELecom:FOTN:INSTance:ALARm:CURRent?

Description	Returns the current state of a FlexO Instance Alarm.
	Navigation Path: Results > Alarms/Errors > FlexO > FlexO > Group > Alarms
Syntax	:FETCh:DATA:TELecom:FOTN:INSTance:ALARm:CURRent? <wsp><Instance ID>, <Alarm>
Parameter(s)	**Instance ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Specify the instance ID from which we want to retrieve the information
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of FlexO instance alarm.
	LOM: Loss Of Multiframe
	OOM: Out Of Multiframe
	GIDM: Group ID Mismatch
	IIDM: Instance ID Mismatch
	MAPMismatch: MAP Mismatch
	RPF: Remote PHY Fault
	EXCESINSTSKEW: Excessive Instance Skew alarm
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current status of FlexO instance alarm.
	PRESENT, indicates that at least one alarm has occurred in the last second.
	ABSENT, indicates that no alarm occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:INST:ALAR:CURR? 28,LOM
See Also	FETCh:DATA:TELecom:FOTN:INSTance:ALARm:HISTory?
	FETCh:DATA:TELecom:FOTN:INSTance:ALARm:SEConds?
	FETCh:DATA:TELecom:FOTN:GROup:ALARm:CURRent?

:FETCh:DATA:TELecom:FOTN:INSTance:ALARm:HISTory?

Description	Returns the history state of a FlexO instance Alarm.
	Navigation Path: Results > Alarms/Errors > FlexO > FlexO > Group > Alarms
Syntax	:FETCh:DATA:TELecom:FOTN:INSTance:ALARm:HISTory? <wsp><Instance ID>, <Alarm>
Parameter(s)	**Instance ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Specify the instance ID from which we want to retrieve the information
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of FlexO instance alarm.
	LOM: Loss Of Multiframe
	OOM: Out Of Multiframe
	GIDM: Group ID Mismatch
	IIDM: Instance ID Mismatch
	MAPMismatch: MAP Mismatch
	RPF: Remote PHY Fault
	EXCESINSTSKEW: Excessive Instance Skew alarm
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history status of FlexO instance alarm.
	PRESENT, indicates that at least one alarm has occurred in the last second.
	ABSENT, indicates that no alarm occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:INST:ALAR:HIST? 28,LOM
See Also	FETCh:DATA:TELecom:FOTN:INSTance:ALARm:CURRent?
	FETCh:DATA:TELecom:FOTN:INSTance:ALARm:SEConds?
	ETCh:DATA:TELecom:FOTN:GROup:ALARm:HISTory?

:FETCh:DATA:TELecom:FOTN:INSTance:ALARm:SEConds?

Description
This query returns the number of seconds within which the FlexO instance alarm occurred.

Navigation Path: Results > Alarms/Errors > FlexO > FlexO > Group > Alarms > Seconds

Syntax
:FETCh:DATA:TELecom:FOTN:INSTance:ALARm:SEConds? <wsp><Instance ID>, <Alarm>

Parameter(s)
Instance ID:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Specify the instance ID from which we want to retrieve the information

Alarm:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the type of FlexO instance alarm.

LOM: Loss Of Multiframe

OOM: Out Of Multiframe

GIDM: Group ID Mismatch

IIDM: Instance ID Mismatch

MAPMismatch: MAP Mismatch

RPF: Remote PHY Fault

EXCESINSTSKEW: Excessive Instance Skew alarm

Response Syntax
<Seconds>

Response(s)
Seconds:

The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of seconds within which the FlexO instance alarm occurred.

Example(s)
FETC:DATA:TEL:FOTN:INST:ALAR:SEC?28,LOM

See Also
FETCh:DATA:TELecom:FOTN:INSTance:ALARm:HISTory?

FETCh:DATA:TELecom:FOTN:INSTance:ALARm:CURRent?

FETCh:DATA:TELecom:FOTN:GROup:ALARm:SEConds?

:FETCh:DATA:TELecom:FOTN:INSTance:ERRor:COUNt?

Description	Returns the count of FlexO instance Error.
	Navigation Path: Results > Alarms/Errors > FlexO > FlexO > Group > Errors > Count
Syntax	:FETCh:DATA:TELecom:FOTN:INSTance:ERRor:COUNt? <wsp><Instance ID>, <Error>
Parameter(s)	**Instance ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Specify the instance ID from which we want to retrieve the information.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of FlexO instance error.
	MFAS: Multi-frame error
	OHCRC: Invalid OH CRC error
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of FlexO instance error
Example(s)	FETC:DATA:TEL:FOTN:INST:ERR:COUN?28,OHCRC
See Also	FETCh:DATA:TELecom:FOTN:INSTance:ERRor:CURRent?
	FETCh:DATA:TELecom:FOTN:INSTance:ERRor:HISTory?
	FETCh:DATA:TELecom:FOTN:INSTance:ERRor:RATe?
	FETCh:DATA:TELecom:FOTN:INSTance:ERRor:SEConds?

:FETCh:DATA:TELecom:FOTN:INSTance:ERRor:CURRent?

Description	Returns the current state of a FlexO instance Error.
	Navigation Path: Results > Alarms/Errors > FlexO > FlexO > Group > Errors
Syntax	:FETCh:DATA:TELecom:FOTN:INSTance:ERRor:CURRent? <wsp><Instance ID>, <Error>
Parameter(s)	**Instance ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Specify the instance ID from which we want to retrieve the information.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of FlexO instance error.
	MFAS: Multi-frame error
	OHCRC: Invalid OH CRC error
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current status of FlexO instance error.
	PRESENT, indicates that at least one alarm has occurred in the last second.
	ABSENT, indicates that no alarm occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:INST:ERR:CURR?28,OHCRC
See Also	FETCh:DATA:TELecom:FOTN:INSTance:ERRor:COUNt?
	FETCh:DATA:TELecom:FOTN:INSTance:ERRor:HISTory?
	FETCh:DATA:TELecom:FOTN:INSTance:ERRor:RATe?
	FETCh:DATA:TELecom:FOTN:INSTance:ERRor:SEConds?

:FETCh:DATA:TELecom:FOTN:INSTance:ERRor:HISTory?

Description	Returns the history state of a FlexO instance Error.
	Navigation Path: Results > Alarms/Errors > FlexO > FlexO > Group > Errors
Syntax	:FETCh:DATA:TELecom:FOTN:INSTance:ERRor:HISTory? <wsp><Instance ID>, <Error>
Parameter(s)	**Instance ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Specify the instance ID from which we want to retrieve the information.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of FlexO instance error.
	MFAS: Multi-frame error
	OHCRC: Invalid OH CRC error
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history status of FlexO instance error.
	PRESENT, indicates that at least one alarm has occurred in the last second.
	ABSENT, indicates that no alarm occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:FOTN:INST:ERR:HIST?28,OHCRC
See Also	FETCh:DATA:TELecom:FOTN:INSTance:ERRor:CURRent?
	FETCh:DATA:TELecom:FOTN:INSTance:ERRor:COUNt?
	FETCh:DATA:TELecom:FOTN:INSTance:ERRor:RATe?
	FETCh:DATA:TELecom:FOTN:INSTance:ERRor:SEConds?

:FETCh:DATA:TELecom:FOTN:INSTance:ERRor:RATe?

Description	Returns the current rate of a FlexO instance Error.
	Navigation Path: Results > Alarms/Errors > FlexO > FlexO > Group > Errors > Rate
Syntax	:FETCh:DATA:TELecom:FOTN:INSTance:ERRor:RATe? <wsp><Instance ID>, <Error>
Parameter(s)	**Instance ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Specify the instance ID from which we want to retrieve the information.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of FlexO instance error.
	MFAS: Multi-frame error
	OHCRC: Invalid OH CRC error
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current rate of a FlexO instance error.
Example(s)	FETC:DATA:TEL:FOTN:INST:ERR:RAT?28,OHCRC
See Also	FETCh:DATA:TELecom:FOTN:INSTance:ERRor:CURRent?
	FETCh:DATA:TELecom:FOTN:INSTance:ERRor:COUNt?
	FETCh:DATA:TELecom:FOTN:INSTance:ERRor:HISTory?
	FETCh:DATA:TELecom:FOTN:INSTance:ERRor:SEConds?

:FETCh:DATA:TELecom:FOTN:INSTance:ERRor:SEConds?

Description	Returns the number of seconds of FlexO instance Error.
	Navigation Path: Results > Alarms/Errors > FlexO > FlexO > Group > Errors > Seconds
Syntax	:FETCh:DATA:TELecom:FOTN:INSTance:ERRor:SEConds? <wsp><Instance ID>, <Error>
Parameter(s)	**Instance ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Specify the instance ID from which we want to retrieve the information.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of FlexO instance error.
	MFAS: Multi-frame error
	OHCRC: Invalid OH CRC error
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds of FlexO instance error.
Example(s)	FETC:DATA:TEL:FETH:PHY:ERR:SEC?28,OHCRC
See Also	FETCh:DATA:TELecom:FOTN:INSTance:ERRor:CURRent?
	FETCh:DATA:TELecom:FOTN:INSTance:ERRor:COUNt?
	FETCh:DATA:TELecom:FOTN:INSTance:ERRor:HISTory?
	FETCh:DATA:TELecom:FOTN:INSTance:ERRor:RATe?

:FETCh:DATA:TELecom:GFP:ALARm:CHANnel:CURRent?

Description	This query returns the current status of GFP (Payload) alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > GFP > Alarms
Syntax	:FETCh:DATA:TELecom:GFP:ALARm:CHANnel:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	CMF: GFP-User-Define CMF
	DCI: GFP-DCI
	FDI: GFP-FDI
	LOCCS: GFP-LOCCS
	LOCS: GFP-LOCS
	RDI: GFP-RDI
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:GFP:ALAR:CHAN:CURR? LOCS
See Also	FETCh:DATA:TELecom:GFP:ALARm:CHANnel:HISTory?

:FETCh:DATA:TELecom:GFP:ALARm:CHANnel:HISTory?

Description	This query returns the history status of GFP (Payload) alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > GFP > Alarms
Syntax	:FETCh:DATA:TELecom:GFP:ALARm:CHANnel:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	CMF: GFP-User-Define CMF
	DCI: GFP-DCI
	FDI: GFP-FDI
	LOCCS: GFP-LOCCS
	LOCS: GFP-LOCS
	RDI: GFP-RDI
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:GFP:ALAR:CHAN:HIST? LOCS
See Also	FETCh:DATA:TELecom:GFP:ALARm:CHANnel:CURRent?

:FETCh:DATA:TELecom:GFP:ALARm:CHANnel:SEConds?

Description	This query returns the number of seconds within which GFP (Payload) alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > GFP > Alarms
Syntax	:FETCh:DATA:TELecom:GFP:ALARm:CHANnel:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	CMF: GFP-User-Define CMF
	DCI: GFP-DCI
	FDI: GFP-FDI
	LOCCS: GFP-LOCCS
	LOCS: GFP-LOCS
	RDI: GFP-RDI
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:GFP:ALAR:CHAN:SEC? LOCS
See Also	FETCh:DATA:TELecom:GFP:ALARm:CHANnel:CURRent?

:FETCh:DATA:TELecom:GFP:ALARm:FRAMe:CURRent?

Description	his query returns the current status of GFP (Core Header) alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > GFP > Alarms
Syntax	:FETCh:DATA:TELecom:GFP:ALARm:FRAMe:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	EXM: GFP-EXM
	LFD: GFP-LFD
	UPM: GFP-UPM
Response Syntax	<current>
Response(s)	**current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:GFP:ALAR:FRAM:CURR? LFD
See Also	FETCh:DATA:TELecom:GFP:ALARm:FRAMe:HISTory?

:FETCh:DATA:TELecom:GFP:ALARm:FRAMe:HISTory?

Description	This query returns the history status of GFP (Core Header) alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > GFP > Alarms
Syntax	:FETCh:DATA:TELecom:GFP:ALARm:FRAMe:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	EXM: GFP-EXM
	LFD: GFP-LFD
	UPM: GFP-UPM
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:GFP:ALAR:FRAM:HIST? LFD
See Also	FETCh:DATA:TELecom:GFP:ALARm:FRAMe:CURRent?

:FETCh:DATA:TELecom:GFP:ALARm:FRAMe:SEConds?

Description	This query returns the number of seconds within which GFP (Core Header) alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > GFP > Alarms
Syntax	:FETCh:DATA:TELecom:GFP:ALARm:FRAMe:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	EXM: GFP-EXM
	LFD: GFP-LFD
	UPM: GFP-UPM
Response Syntax	<seconds>
Response(s)	**seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:GFP:ALAR:FRAM:SEC? LFD
See Also	FETCh:DATA:TELecom:GFP:ALARm:FRAMe:CURRent?

:FETCh:DATA:TELecom:GFP:ERRor:CHANnel:COUNt?

Description	This query returns the count of GFP (Payload) errors.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > GFP > Errors
Syntax	:FETCh:DATA:TELecom:GFP:ERRor:CHANnel:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	TCORRect: GFP-tHEC-CORR
	SUPERBLOCKCORR: GFP-SB-CORR
	ECORRect: GFP-eHEC-CORR
	SUPERBLOCKUNCORR: GFP-SB-UNCORR
	GFP10BERR: GFP-10B_ERR
	PFCS: GFP-pFCS
Response Syntax	<COUNT>
Response(s)	**COUNT**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	FETC:DATA:TEL:GFP:ERR:CHAN:COUN? TCORR
See Also	FETCh:DATA:TELecom:GFP:ERRor:CHANnel:RATE?

:FETCh:DATA:TELecom:GFP:ERRor:CHANnel:CURRent?

Description	This query returns the current status of GFP (Payload) error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > GFP > Errors
Syntax	:FETCh:DATA:TELecom:GFP:ERRor:CHANnel:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	TCORRect: GFP-tHEC-CORR
	SUPERBLOCKCORR: GFP-SB-CORR
	ECORRect: GFP-eHEC-CORR
	SUPERBLOCKUNCORR: GFP-SB-UNCORR
	GFP10BERR: GFP-10B_ERR
	PFCS: GFP-pFCS
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:GFP:ERR:CHAN:CURR? TCORR
See Also	FETCh:DATA:TELecom:GFP:ERRor:CHANnel:HISTory?

:FETCh:DATA:TELecom:GFP:ERRor:CHANnel:HISTory?

Description	This query returns the history status of GFP (Payload) error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > GFP > Errors
Syntax	:FETCh:DATA:TELecom:GFP:ERRor:CHANnel:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	TCORRect: GFP-tHEC-CORR
	SUPERBLOCKCORR: GFP-SB-CORR
	ECORRect: GFP-eHEC-CORR
	SUPERBLOCKUNCORR: GFP-SB-UNCORR
	GFP10BERR: GFP-10B_ERR
	PFCS: GFP-pFCS
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history status of error Analysis for Channel.
	PRESENT, indicates that at least one GFP error is present.
	ABSENT, indicates that there is no GFP error
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:GFP:ERR:CHAN:HIST? TCORR
See Also	FETCh:DATA:TELecom:GFP:ERRor:CHANnel:CURRent?

:FETCh:DATA:TELecom:GFP:ERRor:CHANnel:RATE?

Description	This query returns the current rate of GFP (Payload) error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > GFP > Errors
Syntax	:FETCh:DATA:TELecom:GFP:ERRor:CHANnel:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	TCORRect: GFP-tHEC-CORR
	SUPERBLOCKCORR: GFP-SB-CORR
	ECORRect: GFP-eHEC-CORR
	SUPERBLOCKUNCORR: GFP-SB-UNCORR
	GFP10BERR: GFP-10B_ERR
	PFCS: GFP-pFCS
Response Syntax	<RATE>
Response(s)	**RATE**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	FETC:DATA:TEL:GFP:ERR:CHAN:RATE? TCORR
See Also	FETCh:DATA:TELecom:GFP:ERRor:CHANnel:COUNt?

:FETCh:DATA:TELecom:GFP:ERRor:CHANnel:SEConds?

Description	This query returns the number of seconds within which GFP (Payload) error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > GFP > Errors
Syntax	:FETCh:DATA:TELecom:GFP:ERRor:CHANnel:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	TCORRect: GFP-tHEC-CORR
	SUPERBLOCKCORR: GFP-SB-CORR
	ECORRect: GFP-eHEC-CORR
	SUPERBLOCKUNCORR: GFP-SB-UNCORR
	GFP10BERR: GFP-10B_ERR
	PFCS: GFP-pFCS
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:GFP:ERR:CHAN:SEC? TCORR
See Also	FETCh:DATA:TELecom:GFP:ERRor:CHANnel:CURRent?

:FETCh:DATA:TELecom:GFP:ERRor:FRAMe:COUNt?

Description	This query returns the count of GFP (Core Header and Payload) errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > GFP > Errors
Syntax	:FETCh:DATA:TELecom:GFP:ERRor:FRAMe:COUNt? <wsp><Error>
Parameter(s)	**Error**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: For Core Header: CORRectable: GFP-cHEC-CORR UCORrectable: GFP-cHEC-UNCORR For Payload: EUCORRect: GFP-eHEC-UNCORR PFCS: GFP-pFCS TUCORRect: GFP-tHEC-UNCORR
Response Syntax	<COUNT>
Response(s)	**COUNT**: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	FETC:DATA:TEL:GFP:ERR:FRAM:COUN? CORR
See Also	FETCh:DATA:TELecom:GFP:ERRor:FRAMe:RATE?

:FETCh:DATA:TELecom:GFP:ERRor:FRAMe:CURRent?

Description	This query returns the current status of GFP (Core Header and Payload) error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > GFP > Errors
Syntax	:FETCh:DATA:TELecom:GFP:ERRor:FRAMe:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	For Core Header:
	CORRectable: GFP-cHEC-CORR
	UCORrectable: GFP-cHEC-UNCORR
	For Payload:
	EUCORRect: GFP-eHEC-UNCORR
	PFCS: GFP-pFCS
	TUCORRect: GFP-tHEC-UNCORR
Response Syntax	<current>
Response(s)	**current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:GFP:ERR:FRAM:CURR? CORR
See Also	FETCh:DATA:TELecom:GFP:ERRor:FRAMe:HISTory?

:FETCh:DATA:TELecom:GFP:ERRor:FRAMe:HISTory?

Description	This query returns the history status of GFP (Core Header and Payload) error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > GFP > Errors
Syntax	:FETCh:DATA:TELecom:GFP:ERRor:FRAMe:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	For Core Header:
	CORRectable: GFP-cHEC-CORR
	UCORrectable: GFP-cHEC-UNCORR
	For Payload:
	EUCORRect: GFP-eHEC-UNCORR
	PFCS: GFP-pFCS
	TUCORRect: GFP-tHEC-UNCORR
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:GFP:ERR:FRAM:HIST? CORR
See Also	FETCh:DATA:TELecom:GFP:ERRor:FRAMe:CURRent?

:FETCh:DATA:TELecom:GFP:ERRor:FRAMe:RATE?

Description	This query returns the current rate of GFP (Core Header and Payload) error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > GFP > Errors
Syntax	:FETCh:DATA:TELecom:GFP:ERRor:FRAMe:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	For Core Header:
	CORRectable: GFP-cHEC-CORR
	UCORrectable: GFP-cHEC-UNCORR
	For Payload:
	EUCORRect: GFP-eHEC-UNCORR
	PFCS: GFP-pFCS
	TUCORRect: GFP-tHEC-UNCORR
Response Syntax	<RATE>
Response(s)	**RATE**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	FETC:DATA:TEL:GFP:ERR:FRAM:RATE? CORR
See Also	FETCh:DATA:TELecom:GFP:ERRor:FRAMe:COUNt?

:FETCh:DATA:TELecom:GFP:ERRor:FRAMe:SEConds?

Description	This query returns the number of seconds within which GFP (Core Header and Payload) error occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > GFP > Errors
Syntax	:FETCh:DATA:TELecom:GFP:ERRor:FRAMe:SEConds? <wsp><Error>
Parameter(s)	**Error**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: For Core Header: CORRectable: GFP-cHEC-CORR UCORrectable: GFP-cHEC-UNCORR For Payload: EUCORRect: GFP-eHEC-UNCORR PFCS: GFP-pFCS TUCORRect: GFP-tHEC-UNCORR
Response Syntax	<seconds>
Response(s)	**seconds**: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:GFP:ERR:FRAM:SEC? CORR
See Also	FETCh:DATA:TELecom:GFP:ERRor:FRAMe:RATE?

:FETCh:DATA:TELecom:OPTical:ALARm:PORT:GLOBal:CURRent?

Description	This query returns the current status of Interface (Parallel - global) alarm.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarm/Errors > Interface > Alarms
Syntax	:FETCh:DATA:TELecom:OPTical:ALARm:PORT:GLOBal:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOS
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OPT:ALAR:PORT:TYPE LOS
	FETC:DATA:TEL:OPT:ALAR:PORT:GLOB:CURR? LOS
See Also	FETCh:DATA:TELecom:CAUI:ALARm:LANE:HISTory?
	FETCh:DATA:TELecom:CAUI:ALARm:LANE:CURRent?
	FETCh:DATA:TELecom:CAUI:ALARm:LANE:SEConds?

:FETCh:DATA:TELecom:OPTical:ALARm:PORT:GLOBal:HISTory ?

Description	This query returns the history status of Interface (Parallel - global) alarm.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarm/Errors > Interface > Alarms
Syntax	:FETCh:DATA:TELecom:OPTical:ALARm:PORT:GLOBal:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOS
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OPT:ALAR:PORT:TYPE LOS
	FETC:DATA:TEL:OPT:ALAR:PORT:GLOB:HIST? LOS
See Also	FETCh:DATA:TELecom:CAUI:ALARm:LANE:HISTory?
	FETCh:DATA:TELecom:CAUI:ALARm:LANE:CURRent?
	FETCh:DATA:TELecom:CAUI:ALARm:LANE:SEConds?

:FETCh:DATA:TELecom:OPTical:ALARm:RX:CURRent?

Description	This query returns the current status of optical Interface (serial/parallel) alarm.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarm/Errors > Interface > Alarms
Syntax	:FETCh:DATA:TELecom:OPTical:ALARm:RX:CURRent? <wsp><Lane>, <Alarm>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number. Use lane 0 for a serial interface.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	FREQuency: Frequency (serial interfaces)
	LOS: LOS (serial/parallel interfaces)
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OPT:ALAR:RX:CURR? 1, LOS
See Also	FETCh:DATA:TELecom:CAUI:ALARm:LANE:HISTory?
	FETCh:DATA:TELecom:CAUI:ALARm:LANE:CURRent?
	FETCh:DATA:TELecom:CAUI:ALARm:LANE:SEConds?

:FETCh:DATA:TELecom:OPTical:ALARm:RX:HISTory?

Description	This query returns the history status of optical Inteface (serial/parallel) alarm.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarm/Errors > Interface > Alarm
Syntax	:FETCh:DATA:TELecom:OPTical:ALARm:RX:HISTory?[<wsp><Lane>], <Alarm>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number. Use lane 0 for a serial interface.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	FREQuency: Frequency (serial interfaces)
	LOS: LOS (serial/parallel interfaces)
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OPT:ALAR:RX:HIST? 1, LOS
See Also	FETCh:DATA:TELecom:CAUI:ALARm:LANE:HISTory?
	FETCh:DATA:TELecom:CAUI:ALARm:LANE:CURRent?
	FETCh:DATA:TELecom:CAUI:ALARm:LANE:SEConds?

:FETCh:DATA:TELecom:OPTical:ALARm:RX:SEConds?

Description	This query returns the number of seconds within which optical Interface (serial/parallel) alarm occurred.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarm/Errors > Interface
Syntax	:FETCh:DATA:TELecom:OPTical:ALARm:RX:SEConds? <wsp><Lane>, <Alarm>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number. Use lane 0 for a serial interface.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	FREQuency: Frequency (serial interfaces)
	LOS: LOS (serial/parallel interfaces)
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OPT:ALAR:RX:SEC? 1, LOS
See Also	FETCh:DATA:TELecom:CAUI:ALARm:LANE:HISTory?
	FETCh:DATA:TELecom:CAUI:ALARm:LANE:CURRent?
	FETCh:DATA:TELecom:CAUI:ALARm:LANE:SEConds?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:CURRent?

Description	This query returns the current status of ODU alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU > Alarms
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:CURRent? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOFLom: LOFLOM
	OAIS: AIS
	OBDi: BDI
	OBSD: BSD
	OBSF: BSF
	OFSD: FSD
	OFSF: FSF
	OLCK: LOCK
	OOCI: OCI
	OTIM: TIM
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<Current>

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:CURRent?

Response(s)	Current:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU1:CURR? OAIS
	FETC:DATA:TEL:OTN:ALAR:ODU100:CURR? OAIS, 3
See Also	FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:SEConds?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:CURRent?

Description	This query returns the current status of ODU1e/2e/3e1/3e2 alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 > Alarms
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOFLom: LOFLOM
	OAIS: AIS
	OBDi: BDI
	OBSD: BSD
	OBSF: BSF
	OFSD: FSD
	OFSF: FSF
	OLCK: LOCK
	OOCI: OCI
	OTIM: TIM
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU3:E1:CURR? OAIS
See Also	FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:SEConds?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:HISTory?

Description	This query returns the history status of ODU1e/2e/3e1/3e2 alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 > Alarms
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOFLom: LOFLOM
	OAIS: AIS
	OBDi: BDI
	OBSD: BSD
	OBSF: BSF
	OFSD: FSD
	OFSF: FSF
	OLCK: LOCK
	OOCI: OCI
	OTIM: TIM
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU3:E1:HIST? OAIS
See Also	FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:SEConds?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:SEConds?

Description	This query returns the number of seconds within which ODU1e/2e/3e1/3e2 alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 > Alarms
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOFLom: LOFLOM
	OAIS: AIS
	OBDi: BDI
	OBSD: BSD
	OBSF: BSF
	OFSD: FSD
	OFSF: FSF
	OLCK: LOCK
	OOCI: OCI
	OTIM: TIM
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU3:E1:SEC? OAIS
See Also	FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1. .n]:CURRent?

Description	This query returns the current status of ODU1e/2e/3e1/3e2 TCM alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 TCM > Alarms
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	TBDI: BDI
	TBIAE: BIAE
	TIAE: IAE
	TLTC: LTC
	TTIM: TIM
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU3:E1:TCM1:CURR? TLTC
See Also	FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:SEConds?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1.
.n]:HISTory?

Description	This query returns the history status of ODU1e/2e/3e1/3e2 TCM alarm. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 TCM > Alarms NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: TBDI: BDI TBIAE: BIAE TIAE: IAE TLTC: LTC TTIM: TIM
Response Syntax	<History>
Response(s)	**History**: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the history alarm status: PRESENT: At least one alarm has occurred during the test. ABSENT: No alarm has occurred during the test. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU3:E1:TCM1:HIST? TLTC
See Also	FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:SEConds?

Description	This query returns the number of seconds within which ODU1e/2e/3e1/3e2 TCM alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 TCM > Alarms
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	TBDI: BDI
	TBIAE: BIAE
	TIAE: IAE
	TLTC: LTC
	TTIM: TIM
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU3:E1:TCM1:SEC? TLTC
See Also	FETCh:DATA:TELecom:OTN:ERRor:[1..n]:E[1..n]:TCM[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:CURRent?

Description	This query returns the current status of ODU1f/2f alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1f/2f > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	OAIS: AIS
	OBDi: BDI
	OBSD: BSD
	OBSF: BSF
	OFSD: FSD
	OFSF: FSF
	OLCK: LCK
	OOCI: OCI
	OTIM: TIM
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU1:F:CURR? OAIS
See Also	FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:SEConds?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:HISTory?

Description	This query returns the history status of ODU1f/2f alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1f/2f > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	OAIS: AIS
	OBDi: BDI
	OBSD: BSD
	OBSF: BSF
	OFSD: FSD
	OFSF: FSF
	OLCK: LCK
	OOCI: OCI
	OTIM: TIM
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU1:F:HIST? OAIS
See Also	FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:SEConds?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:SEConds?

Description	This query returns the number of seconds within which ODU1f/2f alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1f/2f > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	OAIS: AIS
	OBDi: BDI
	OBSD: BSD
	OBSF: BSF
	OFSD: FSD
	OFSF: FSF
	OLCK: LCK
	OOCI: OCI
	OTIM: TIM
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU1:F:SEC? OAIS
See Also	FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:CURRent?

Description	This query returns the current status of ODU1f/2f TCM alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1f/2f TCM > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	TBDI: BDI
	TBIAE: BIAE
	TIAE: IAE
	TLTC: LTC
	TTIM: TIM
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU1:F:TCM1:CURR? TLTC
See Also	FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:SEConds?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:HISTory?

Description	This query returns the history status of ODU1f/2f TCM alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1f/2f TCM > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	TBDI: BDI
	TBIAE: BIAE
	TIAE: IAE
	TLTC: LTC
	TTIM: TIM
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU1:F:TCM1:HIST? TLTC
See Also	FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:SEConds?

Description	This query returns the number of seconds within which ODU1f/2f TCM alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1f/2f TCM > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	TBDI: BDI
	TBIAE: BIAE
	TIAE: IAE
	TLTC: LTC
	TTIM: TIM
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU1:F:TCM1:SEC? TLTC
See Also	FETCh:DATA:TELecom:OTN:ERRor:[1..n]:E[1..n]:TCM[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:HISTory?

Description	This query returns the history status of the Optical Data Unit (ODU) alarm.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test > OTN BERT > Results > Alarms/Errors > ODU
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:HISTory? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of Optical Data Unit (ODU) alarm.
	OAIS, ODU - Alarm Indication Signal
	OBDi, ODU - Backward Defect indication
	OLCK, ODU - LOCK
	OOCI, ODU - Open Connection Indication
	OFSF, ODU - Forward Signal Fail
	OBSF, ODU - Backward Signal Fail
	OTIM, ODU - Trace Identification Mismatch
	OFSD, ODU - Forward Signal Degrade
	OBSD: ODU - Backward Signal Degrade
	LOFLom, ODU-Loss of Frame Loss of Multiframe
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<History>

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:HISTory?

Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history status of the Optical Data Unit (ODU) alarm.
	PRESENT, indicates that at least one alarm has occurred.
	ABSENT, indicates that no alarm occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU1:HIST? OAIS
	FETC:DATA:TEL:OTN:ALAR:ODU100:HIST? OAIS, 3
See Also	FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:SEConds?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:SEConds?

Description	This query returns the number of seconds within which the Optical Data Unit (ODU) alarm occurred.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test > OTN BERT > Results > Alarms/Errors > ODU
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:SEConds? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of Optical Data Unit (ODU) alarm.
	OAIS: ODU - Alarm Indication Signal
	OBDi: ODU - Backward Defect indication
	OLCK: ODU - LOCK
	OOCI: ODU - Open Connection Indication
	OFSF: ODU - Forward Signal Fail
	OBSF: ODU - Backward Signal Fail
	OTIM: ODU - Trace Identification Mismatch
	OFSD: ODU-FSD (ODU - Forward Signal Degrade
	OBSD: ODU - Backward Signal Degrade
	LOFLom: ODU-Loss of Frame Loss of Multiframe
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<Seconds>

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:SEConds?

Response(s)	Seconds:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds of the Optical Data Unit (ODU) alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU1:SEC? OAIS
	FETC:DATA:TEL:OTN:ALAR:ODU100:SEC? OAIS, 3
See Also	FETCH:DATA:TELecom:OTN:ALARm:ODU[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:CUR Rent?

Description	This query returns the current status of ODU TCM alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU TCM > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	TBDI: BDI
	TBIAE: BIAE
	TIAE: IAE
	TLTC: LTC
	TTIM: TIM
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU1:TCM1:CURR? TLTC
See Also	FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:SEConds?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:HISTory?

Description	This query returns the history status of ODU TCM alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU TCM > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	TBDI: BDI
	TBIAE: BIAE
	TIAE: IAE
	TLTC: LTC
	TTIM: TIM
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU1:TCM1:HIST? TLTC
See Also	FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:SEC onds?

Description	This query returns the number of seconds within which ODU TCM alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU TCM > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	TBDI: BDI
	TBIAE: BIAE
	TIAE: IAE
	TLTC: LTC
	TTIM: TIM
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:ODU1:TCM1:SEC? TLTC
See Also	FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:CURRent?

Description	This query returns the current status of OPU / OPU3e1/e2 alarm.
	At *RST condition, this value is device dependent.
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OTUC, OPU300 for OTUCN.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:CURRent? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOOMFI
	OAIS: AIS
	OCSF: CSF
	OMSim: MSIM
	OOMFI
	OPLM: PLM
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<Current>

:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:CURRent?

Response(s)	Current:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OPU1:CURR? OPLM
	FETC:DATA:TEL:OTN:ALAR:OPU100:CURR? OPLM, 3
See Also	FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:E:CURRent?

Description	This query returns the current status of OPU1e/2e alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OPU1e/2e > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:E:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	OAIS: AIS
	OCSF: CSF
	OMSim: MSIM
	OPLM: PLM
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OPU1:E:CURR? OPLM
See Also	FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:E:HISTory?

Description	This query returns the history status of OPU1e/2e alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OPU1e/2e > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:E:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	OAIS: AIS
	OCSF: CSF
	OMSim: MSIM
	OPLM: PLM
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OPU1:E:HIST? OPLM
See Also	FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:E:SEConds?

Description	This query returns the number of seconds within which OPU1e/2e alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OPU1e/2e > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:E:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	OAIS: AIS
	OCSF: CSF
	OMSim: MSIM
	OPLM: PLM
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OPU1:E:SEC? OPLM
See Also	FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:F:CURRent?

Description	This query returns the current status of OPU1f/2f alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OPU1f/2f > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:F:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	OAIS: AIS
	OCSF: CSF
	OMSim: MSIM
	OPLM: PLM
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OPU1:F:CURR? OPLM
See Also	FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:F:HISTory?

Description	This query returns the history status of OPU1f/2f alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OPU1f/2f > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:F:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	OAIS: AIS
	OCSF: CSF
	OMSim: MSIM
	OPLM: PLM
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OPU1:F:HIST? OPLM
See Also	FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:F:SEConds?

Description	This query returns the number of seconds within which OPU1f/2f alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OPU1f/2f > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:F:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	OAIS: AIS
	OCSF: CSF
	OMSim: MSIM
	OPLM: PLM
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OPU1:F:SEC? OPLM
See Also	FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:HISTory?

Description	This query returns the history status of OPU / OPU3e1/e2 alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OPU / OPU3e1/e2 > Alarms
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OTUC, OPU300 for OTUCN.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:HISTory? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOOMFI
	OAIS: AIS
	OCSF: CSF
	OMSim: MSIM
	OOMFI
	OPLM: PLM
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<History>

:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:HISTory?

Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OPU1:HIST? OPLM
	FETC:DATA:TEL:OTN:ALAR:OPU100:HIST? OPLM, 3
See Also	FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:SEConds?

Description	This query returns the number of seconds within which OPU / OPU3e1/e2 alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OPU / OPU3e1/e2 > Alarms
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OTUC, OPU300 for OTUCN.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OPU[1..n]:SEConds? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOOMFI
	OAIS: AIS
	OCSF: CSF
	OMSim: MSIM
	OOMFI
	OPLM: PLM
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OPU1:SEC? OPLM
	FETC:DATA:TEL:OTN:ALAR:OPU100:SEC? OPLM, 3
See Also	FETCH:DATA:TELecom:OTN:ALARm:OPU[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:CURRent?

Description	This query returns the current status of OTU alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTU > Alarms
	NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCN.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOF
	LOM
	LOFLom: LOFLOM
	OAIS: AIS
	OBDi: BDI
	OBIae: BIAE
	OIAE: IAE
	OOF
	OOM
	OTIM: TIM
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OTU3:CURR? OAIS
See Also	FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:CURRent?

Description	This query returns the current status of OTU1e/2e/3e1/3e2 alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTU1e/2e/3e1/3e2 > Alarms
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOF
	LOM
	OAIS: AIS
	OBDi: BDI
	OBIae: BIAE
	OIAE: IAE
	OOF
	OOM
	OTIM: TIM
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OTU3:E1:CURR? OAIS
See Also	FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:HISTory ?

Description	This query returns the history status of OTU1e/2e/3e1/3e2 alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTU1e/2e/3e1/3e2 > Alarms
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOF
	LOM
	OAIS: AIS
	OBDi: BDI
	OBIae: BIAE
	OIAE: IAE
	OOF
	OOM
	OTIM: TIM
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OTU3:E1:HIST? OAIS
See Also	FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:SEConds?

:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:SEConds?

Description	This query returns the number of seconds within which OTU1e/2e/3e1/3e2 alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTU1e/2e/3e1/3e2 > Alarms
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOF
	LOM
	OAIS: AIS
	OBDi: BDI
	OBIae: BIAE
	OIAE: IAE
	OOF
	OOM
	OTIM: TIM
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OTU3:E1:SEC? OAIS
See Also	FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:F:CURRent?

Description	This query returns the current status of OTU1f/2f alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTU1f/2f > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:F:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOF
	LOM
	OAIS: AIS
	OBDi: BDI
	OBIae: BIAE
	OIAE: IAE
	OOF
	OOM
	OTIM: TIM
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OTU1:F:CURR? OAIS
See Also	FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:F:HISTory?

Description	This query returns the history status of OTU1f/2f alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTU1f/2f > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:F:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOF
	LOM
	OAIS: AIS
	OBDi: BDI
	OBIae: BIAE
	OIAE: IAE
	OOF
	OOM
	OTIM: TIM
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OTU1:F:HIST? OAIS
See Also	FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:SEConds?

:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:F:SEConds?

Description	This query returns the number of seconds within which OTU1f/2f alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTU1f/2f > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:F:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOF
	LOM
	OAIS: AIS
	OBDi: BDI
	OBIae: BIAE
	OIAE: IAE
	OOF
	OOM
	OTIM: TIM
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OTU1:F:SEC? OAIS
See Also	FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:HISTory?

Description	This query returns the history status of OTU alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTU > Alarms
	NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCN.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOF
	LOM
	LOFLom: LOFLOM
	OAIS: AIS
	OBDi: BDI
	OBIae: BIAE
	OIAE: IAE
	OOF
	OOM
	OTIM: TIM
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OTU3:HIST? OAIS
See Also	FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:SEConds?

:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:SEConds?

Description	This query returns the number of seconds within which OTU alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTU > Alarms
	NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCN.
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOF
	LOM
	LOFLom: LOFLOM
	OAIS: AIS
	OBDi: BDI
	OBIae: BIAE
	OIAE: IAE
	OOF
	OOM
	OTIM: TIM
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:OTU3:SEC? OAIS
See Also	FETCh:DATA:TELecom:OTN:ALARm:OTU[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ALARm:PHYSical:CURRent?

Description	This query returns the current status of OTL (per lane) alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTL > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:PHYSical:CURRent? <wsp><Lane>, <Alarm>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOF
	LOR
	OOF
	OOR
	SKEW: Exc. Skew
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:PHYS:CURR? 1, SKEW
	FETC:DATA:TEL:OTN:ALAR:PHYS:CURR? 1, OOF
See Also	FETCh:DATA:TELecom:OTN:ERRor:PHYSical:HISTory?

:FETCh:DATA:TELecom:OTN:ALARm:PHYSical:GLOBal:CURRent?

Description	This query returns the current status of OTL (global) alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTL > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:PHYSical:GLOBal:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOF
	LOL
	LOR
	OOF
	OOR
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:PHYS:GLOB:CURR? LOL
See Also	FETCh:DATA:TELecom:OTN:ERRor:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELecom:OTN:ALARm:PHYSical:GLOBal:HISTory ?

Description	This query returns the history status of OTL (global) alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTL > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:PHYSical:GLOBal:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOF
	LOL
	LOR
	OOF
	OOR
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:PHYS:GLOB:HIST? LOL
See Also	FETCh:DATA:TELecom:OTN:ERRor:PHYSical:GLOBal:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:PHYSical:GLOBal:SEConds?

Description	This query returns the number of seconds within which OTL (global) alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTL > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:PHYSical:GLOBal:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOF
	LOL
	LOR
	OOF
	OOR
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:PHYS:GLOB:SEC? LOL
See Also	FETCh:DATA:TELecom:OTN:ERRor:PHYSical:SEConds?

:FETCh:DATA:TELecom:OTN:ALARm:PHYSical:HISTory?

Description	This query returns the history status of OTL (per lane) alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTL > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:PHYSical:HISTory? <wsp><Lane>, <Alarm>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane for the history status of physical alarm. The range for the virtual lane is from 0 to 19.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOF
	LOR
	OOF
	OOR
	SKEW: Exc. Skew
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ALAR:PHYS:HIST? 1, SKEW
	FETC:DATA:TEL:OTN:ALAR:PHYS:HIST? 1, LOF
See Also	FETCh:DATA:TELecom:OTN:ERRor:PHYSical:CURRent?

:FETCh:DATA:TELecom:OTN:ALARm:PHYSical:SEConds?

Description	This query returns the number of seconds within which OTL (per lane) alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTL > Alarms
Syntax	:FETCh:DATA:TELecom:OTN:ALARm:PHYSical:SEConds? <wsp><Lane>, <Alarm>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane for the number of seconds of physical alarm. The range for the virtual lane is from 0 to 19.
	Alarm:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LOF
	LOR
	OOF
	OOR
	SKEW: Exc. Skew
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ALAR:PHYS:SEC? 1, SKEW
	FETC:DATA:TEL:OTN:ALAR:PHYS:SEC? 1, OOR
See Also	FETCh:DATA:TELecom:OTN:ERRor:PHYSical:RATE?

:FETCh:DATA:TELecom:OTN:ERRor:FEC:COUNt?

Description	This query returns the count of FEC errors.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > FEC > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:FEC:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FCBit: FEC-CORR-BIT
	FCCW: FEC-CORR-CW
	FCSTRESS: FCSTRESS
	FCSYmb: FEC-CORR-SYMB
	FUCW: FEC-UNCORR-CW
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:MAN:TYPE FCCW
	SOUR:DATA:TEL:OTN:ERR:FEC:AMO 15
	SOUR:DATA:TEL:OTN:ERR:FEC:INJ
	FETC:DATA:TEL:OTN:ERR:FEC:COUN? FCCW
See Also	FETCh:DATA:TELecom:OTN:ERRor:FEC:CURRent?

:FETCh:DATA:TELecom:OTN:ERRor:FEC:CURRent?

Description	This query returns the current status of FEC error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > FEC > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:FEC:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FCBit: FEC-CORR-BIT
	FCCW: FEC-CORR-CW
	FCSTRESS: FCSTRESS
	FCSYmb: FEC-CORR-SYMB
	FUCW: FEC-UNCORR-CW
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:MAN:TYPE FCCW
	SOUR:DATA:TEL:OTN:ERR:FEC:AMO 15
	SOUR:DATA:TEL:OTN:ERR:FEC:INJ
	FETC:DATA:TEL:OTN:ERR:FEC:CURR? FCCW
See Also	FETCh:DATA:TELecom:OTN:ERRor:FEC:HISTory?

:FETCh:DATA:TELecom:OTN:ERRor:FEC:HISTory?

Description	This query returns the history status of FEC error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > FEC > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:FEC:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FCBit: FEC-CORR-BIT
	FCCW: FEC-CORR-CW
	FCSTRESS: FCSTRESS
	FCSYmb: FEC-CORR-SYMB
	FUCW: FEC-UNCORR-CW
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:MAN:TYPE FCCW
	SOUR:DATA:TEL:OTN:ERR:FEC:AMO 15
	SOUR:DATA:TEL:OTN:ERR:FEC:INJ
	FETC:DATA:TEL:OTN:ERR:FEC:HIST? FCCW
See Also	FETCh:DATA:TELecom:OTN:ERRor:FEC:CURRent?

:FETCh:DATA:TELecom:OTN:ERRor:FEC:RATE?

Description	This query returns the current rate of FEC error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > FEC > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:FEC:RATE? <wsp><Error>
Parameter(s)	**Error**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FCBit: FEC-CORR-BIT FCCW: FEC-CORR-CW FCSTRESS: FCSTRESS FCSYmb: FEC-CORR-SYMB FUCW: FEC-UNCORR-CW
Response Syntax	<Rate>
Response(s)	**Rate**: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the current error rate.
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:MAN:TYPE FCCW SOUR:DATA:TEL:OTN:ERR:FEC:AMO 15 SOUR:DATA:TEL:OTN:ERR:FEC:INJ FETC:DATA:TEL:OTN:ERR:FEC:RATE? FCCW
See Also	FETCh:DATA:TELecom:OTN:ERRor:FEC:CURRent?

:FETCh:DATA:TELecom:OTN:ERRor:FEC:SEConds?

Description	This query returns the number of seconds within which FEC error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > FEC > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:FEC:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FCBit: FEC-CORR-BIT
	FCCW: FEC-CORR-CW
	FCSTRESS: FCSTRESS
	FCSYmb: FEC-CORR-SYMB
	FUCW: FEC-UNCORR-CW
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:MAN:TYPE FCCW
	SOUR:DATA:TEL:OTN:ERR:FEC:AMO 15
	SOUR:DATA:TEL:OTN:ERR:FEC:INJ
	FETC:DATA:TEL:OTN:ERR:FEC:SEC? FCCW
See Also	FETCh:DATA:TELecom:OTN:ERRor:FEC:CURRent?

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:COUNt?

Description	TThis query returns the count of ODU errors.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU > Errors
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:COUNt? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	OBIP8: BIP-8
	OBEI: BEI
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	FETC:DATA:TEL:OTN:ERR:ODU1:COUN? OBIP8
	FETC:DATA:TEL:OTN:ERR:ODU100:COUN? OBIP8, 3
See Also	FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:RATE?

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:CURRent?

Description	This query returns the current status of ODU error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU > Errors
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:CURRent? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	OBIP8: BIP-8
	OBEI: BEI
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ERR:ODU1:CURR? OBIP8
	FETC:DATA:TEL:OTN:ERR:ODU100:CURR? OBIP8, 3
See Also	FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:COUNt?

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:COUNt?

Description	This query returns the count of ODU1e/2e/3e1/3e2 errors.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 > Errors
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	OBIP8: BIP-8
	OBEI: BEI
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:INJ
	FETC:DATA:TEL:OTN:ERR:ODU3:E1:COUN? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:CURRent?

Description	This query returns the current status of ODU1e/2e/3e1/3e2 error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 > Errors
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	OBIP8: BIP-8
	OBEI: BEI
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:INJ
	FETC:DATA:TEL:OTN:ERR:ODU3:E1:CURR? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:HISTory?

Description	This query returns the history status of ODU1e/2e/3e1/3e2 error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 > Errors
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	OBIP8: BIP-8
	OBEI: BEI
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:INJ
	FETC:DATA:TEL:OTN:ERR:ODU3:E1:HIST? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:RATE?

Description	This query returns the current rate of ODU1e/2e/3e1/3e2 error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 > Errors
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	OBIP8: BIP-8
	OBEI: BEI
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:INJ
	FETC:DATA:TEL:OTN:ERR:ODU3:E1:RATE? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:SEConds?

Description	This query returns the number of seconds within which ODU1e/2e/3e1/3e2 error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 > Errors
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:SEConds? \<wsp>\<Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a \<CHARACTER PROGRAM DATA> element.
	Selects the error:
	OBIP8: BIP-8
	OBEI: BEI
Response Syntax	\<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a \<NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:INJ
	FETC:DATA:TEL:OTN:ERR:ODU3:E1:SEC? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:COUNt?

Description	This query returns the count of ODU1e/2e/3e1/3e2 TCM errors.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 TCM > Errors
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	TBIP8: BIP-8
	TBEI: BEI
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:INJ
	FETC:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:COUN? TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:CURRent?

Description	This query returns the current status of ODU1e/2e/3e1/3e2 TCM error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 TCM > Errors
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	TBIP8: BIP-8
	TBEI: BEI
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:INJ
	FETC:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:CURR? TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1.. n]:HISTory?

Description	This query returns the history status of ODU1e/2e/3e1/3e2 TCM error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 TCM > Errors
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	TBIP8: BIP-8
	TBEI: BEI
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:INJ
	FETC:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:HIST? TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:RATE?

Description	This query returns the current rate of ODU1e/2e/3e1/3e2 TCM error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 TCM > Errors
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	TBIP8: BIP-8
	TBEI: BEI
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:INJ
	FETC:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:RATE? TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1.. n]:SEConds?

Description	This query returns the number of seconds within which ODU1e/2e/3e1/3e2 TCM error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1e/2e/3e1/3e2 TCM > Errors
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	TBIP8: BIP-8
	TBEI: BEI
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:INJ
	FETC:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:SEC? TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:COUNt?

Description	This query returns the count of ODU1f/2f errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > ODU1f/2f > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:COUNt? <wsp><Error>
Parameter(s)	**Error**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: OBEI: BEI OBIP8: BIP-8
Response Syntax	<Count>
Response(s)	**Count**: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU1:F:INJ FETC:DATA:TEL:OTN:ERR:ODU1:F:COUN? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:CURRent?

Description	This query returns the current status of ODU1f/2f error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1f/2f > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	OBEI: BEI
	OBIP8: BIP-8
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:INJ
	FETC:DATA:TEL:OTN:ERR:ODU1:F:CURR? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:HISTory?

Description	This query returns the history status of ODU1f/2f error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1f/2f > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	OBEI: BEI
	OBIP8: BIP-8
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:INJ
	FETC:DATA:TEL:OTN:ERR:ODU1:F:HIST? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:RATE?

Description	This query returns the current rate of ODU1f/2f error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1f/2f > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	OBEI: BEI
	OBIP8: BIP-8
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:INJ
	FETC:DATA:TEL:OTN:ERR:ODU1:F:RATE? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:SEConds?

Description	This query returns the number of seconds within which ODU1f/2f error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1f/2f > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	OBEI: BEI
	OBIP8: BIP-8
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:INJ
	FETC:DATA:TEL:OTN:ERR:ODU1:F:SEC? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:COUNt?

Description	This query returns the count of ODU1f/2f TCM errors.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1f/2f TCM > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	TBEI: BEI
	TBIP8: BIP-8
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:INJ
	FETC:DATA:TEL:OTN:ERR:ODU1:F:TCM1:COUN? TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:CURRent?

Description	This query returns the current status of ODU1f/2f TCM error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1f/2f TCM > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	TBEI: BEI
	TBIP8: BIP-8
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:INJ
	FETC:DATA:TEL:OTN:ERR:ODU1:F:TCM1:CURR? TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:HIS Tory?

Description	This query returns the history status of ODU1f/2f TCM error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1f/2f TCM > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	TBEI: BEI
	TBIP8: BIP-8
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:INJ
	FETC:DATA:TEL:OTN:ERR:ODU1:F:TCM1:HIST? TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:RATE?

Description	This query returns the current rate of ODU1f/2f TCM error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1f/2f TCM > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	TBEI: BEI
	TBIP8: BIP-8
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:INJ
	FETC:DATA:TEL:OTN:ERR:ODU1:F:TCM1:RATE? TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:SE Conds?

Description	This query returns the number of seconds within which ODU1f/2f TCM error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU1f/2f TCM > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	TBEI: BEI
	TBIP8: BIP-8
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:INJ
	FETC:DATA:TEL:OTN:ERR:ODU1:F:TCM1:SEC? TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:HISTory?

Description	This query returns the history status of ODU error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU > Errors
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:HISTory? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	OBIP8: BIP-8
	OBEI: BEI
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ERR:ODU1:HIST? OBIP8
	FETC:DATA:TEL:OTN:ERR:ODU100:HIST? OBIP8, 3
See Also	FETCH:DATA:TELecom:OTN:ERRor:ODU[1..n]:SEConds?

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:RATE?

Description	This query returns the current rate of ODU error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU > Errors
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:RATE? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	OBIP8: BIP-8
	OBEI: BEI
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	FETC:DATA:TEL:OTN:ERR:ODU1:RATE? OBIP8
	FETC:DATA:TEL:OTN:ERR:ODU100:RATE? OBIP8, 3
See Also	FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:COUNt?

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:SEConds?

Description	This query returns the number of seconds within which ODU error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU > Errors
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:SEConds? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	OBIP8: BIP-8
	OBEI: BEI
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:OTN:ERR:ODU1:SEC? OBIP8
	FETC:DATA:TEL:OTN:ERR:ODU100:SEC? OBIP8, 3
See Also	FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:COUNt?

Description	This query returns the count of ODU TCM errors.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU TCM > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	TBEI: BEI
	TBIP8: BIP-8
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	FETC:DATA:TEL:OTN:ERR:ODU1:TCM1:COUN? TBIP8
See Also	FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:SEConds?

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:CURRent?

Description	This query returns the current status of ODU TCM error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU TCM > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	TBEI: BEI
	TBIP8: BIP-8
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ERR:ODU1:TCM1:CURR? TBIP8
See Also	FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:HISTory?

Description	This query returns the history status of ODU TCM error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU TCM > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	TBEI: BEI
	TBIP8: BIP-8
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ERR:ODU1:TCM1:HIST? TBIP8
See Also	FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:RATE?

Description	This query returns the current rate of ODU TCM error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU TCM > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	TBEI: BEI
	TBIP8: BIP-8
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	FETC:DATA:TEL:OTN:ERR:ODU1:TCM1:RATE? TBIP8
See Also	FETCH:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:SEConds?

:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:SECo nds?

Description	This query returns the number of seconds within which ODU TCM error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU TCM > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	TBEI: BEI
	TBIP8: BIP-8
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:OTN:ERR:ODU1:TCM1:SEC? TBIP8
See Also	FETCh:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:SEConds?

:FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:COUNt?

Description	This query returns the count of OPU / OPU3e1/e2 errors.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OPU / OPU3e1/e2 > Errors
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	OMFI
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	FETC:DATA:TEL:OTN:ERR:OPU1:COUNT? OMFI
See Also	FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:CURRent?

Description	This query returns the current status of OPU / OPU3e1/e2 error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OPU / OPU3e1/e2 > Errors
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	OMFI
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ERR:OPU1:CURR? OMFI
See Also	FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:HISTory?

Description	This query returns the history status of OPU / OPU3e1/e2 error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OPU / OPU3e1/e2 > Errors
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	OMFI
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ERR:OPU1:HIST? OMFI
See Also	FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:RATE?

Description	This query returns the current rate of OPU / OPU3e1/e2 error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OPU / OPU3e1/e2 > Errors
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	OMFI
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	FETC:DATA:TEL:OTN:ERR:OPU1:RATE? OMFI
See Also	FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:SEConds?

Description	This query returns the number of seconds within which OPU / OPU3e1/e2 error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OPU / OPU3e1/e2 > Errors
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	OMFI
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:OTN:ERR:OPU1:SEC? OMFI
See Also	FETCh:DATA:TELecom:OTN:ERRor:OPU[1..n]:HISTory?

:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:COUNt?

Description	This query returns the count of OTU errors.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTU > Errors
	NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCn.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FAS
	MFAS
	OBEI: BEI
	OBIP8: BIP-8
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	FETC:DATA:TEL:OTN:ERR:OTU3:COUN? OBIP8
See Also	FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:CURRent?

Description	This query returns the current status of OTU error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTU > Errors
	NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCn.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FAS
	MFAS
	OBEI: BEI
	OBIP8: BIP-8
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ERR:OTU3:CURR? OBIP8
See Also	FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:SEConds?

:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:COUNt?

Description	This query returns the count of OTU1e/2e/3e1/3e2 errors.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTU1e/2e/3e1/3e2 > Errors
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FAS
	MFAS
	OBEI: BEI
	OBIP8: BIP-8
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:INJ
	FETC:DATA:TEL:OTN:ERR:OTU3:E1:COUN? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:CURRent?

Description	This query returns the current status of OTU1e/2e/3e1/3e2 error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTU1e/2e/3e1/3e2 > Errors
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FAS
	MFAS
	OBEI: BEI
	OBIP8: BIP-8
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:INJ
	FETC:DATA:TEL:OTN:ERR:OTU3:E1:CURR? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:HISTory?

Description	This query returns the history status of OTU1e/2e/3e1/3e2 error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTU1e/2e/3e1/3e2 > Errors
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FAS
	MFAS
	OBEI: BEI
	OBIP8: BIP-8
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:INJ
	FETC:DATA:TEL:OTN:ERR:OTU3:E1:HIST? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:RATE?

Description	This query returns the current rate of OTU1e/2e/3e1/3e2 error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTU1e/2e/3e1/3e2 > Errors
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FAS
	MFAS
	OBEI: BEI
	OBIP8: BIP-8
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:INJ
	FETC:DATA:TEL:OTN:ERR:OTU3:E1:RATE? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:SEConds?

Description	This query returns the number of seconds within which OTU1e/2e/3e1/3e2 error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTU1e/2e/3e1/3e2 > Errors
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FAS
	MFAS
	OBEI: BEI
	OBIP8: BIP-8
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:INJ
	FETC:DATA:TEL:OTN:ERR:OTU3:E1:SEC? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:COUNt?

Description	This query returns the count of OTU1f/2f errors.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTU1f/2f > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FAS
	MFAS
	OBEI: BEI
	OBIP8: BIP-8
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AMO 15
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:INJ
	FETC:DATA:TEL:OTN:ERR:OTU1:F:COUN? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:CURRent?

Description	This query returns the current status of OTU1f/2f error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTU1f/2f > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FAS
	MFAS
	OBEI: BEI
	OBIP8: BIP-8
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AMO 15
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:INJ
	FETC:DATA:TEL:OTN:ERR:OTU1:F:CURR? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:HISTory?

Description	This query returns the history status of OTU1f/2f error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTU1f/2f > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FAS
	MFAS
	OBEI: BEI
	OBIP8: BIP-8
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AMO 15
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:INJ
	FETC:DATA:TEL:OTN:ERR:OTU1:F:HIST? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:RATE?

Description	This query returns the current rate of OTU1f/2f error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTU1f/2f > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FAS
	MFAS
	OBEI: BEI
	OBIP8: BIP-8
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AMO 15
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:INJ
	FETC:DATA:TEL:OTN:ERR:OTU1:F:RATE? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:SEConds?

Description	This query returns the number of seconds within which OTU1f/2f error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTU1f/2f > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FAS
	MFAS
	OBEI: BEI
	OBIP8: BIP-8
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AMO 15
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:INJ
	FETC:DATA:TEL:OTN:ERR:OTU1:F:SEC? OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:INJect

:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:HISTory?

Description	This query returns the history status of OTU error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTU > Errors
	NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCn.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FAS
	MFAS
	OBEI: BEI
	OBIP8: BIP-8
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ERR:OTU3:HIST? OBIP8
See Also	FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:RATE?

Description	This query returns the current rate of OTU error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTU > Errors
	NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCn.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FAS
	MFAS
	OBEI: BEI
	OBIP8: BIP-8
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	FETC:DATA:TEL:OTN:ERR:OTU3:RATE? OBIP8
See Also	FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:COUNt?

:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:SEConds?

Description	This query returns the number of seconds within which OTU error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTU > Errors
	NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCn.
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FAS
	MFAS
	OBEI: BEI
	OBIP8: BIP-8
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:OTN:ERR:OTU3:SEC? OBIP8
See Also	FETCh:DATA:TELecom:OTN:ERRor:OTU[1..n]:CURRent?

:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:COUNt:TOTal?

Description	This query returns the total count of OTL errors.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTL > Errors - Total
	Navigation Path: Functions > 40G Advanced > Lanes Mapping & Skew > Error - Total
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:COUNt:TOTal? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FAS
	LLM: Invalid Marker
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	FETC:DATA:TEL:OTN:ERR:PHYS:COUN:TOT? FAS
See Also	FETCh:DATA:TELecom:OTN:ERRor:PHYSical:COUNt?

:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:COUNt?

Description	This query returns the count of OTL (per lane) errors.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTL > Errors
	Navigation Path: Functions > 40G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:COUNt? <wsp><Lane>, <Error>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FAS
	LLM: Invalid Marker
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	FETC:DATA:TEL:OTN:ERR:PHYS:COUN? 1, FAS
	FETC:DATA:TEL:OTN:ERR:PHYS:COUN? 1, LLM
See Also	FETCh:DATA:TELecom:OTN:ERRor:PHYSical:RATE?

:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:CURRent?

Description	This query returns the current status of OTL (per lane) error. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > OTL > Errors Navigation Path: Functions > 40G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:CURRent? <wsp><Lane>, <Error>
Parameter(s)	**Lane**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the lane number. **Error**: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error: FAS LLM: Invalid Marker
Response Syntax	<Current>
Response(s)	**Current**: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the current error status: PRESENT: An error has occurred in the last second. ABSENT: No error has occurred in the last second. INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ERR:PHYS:CURR? 1, FAS FETC:DATA:TEL:OTN:ERR:PHYS:CURR? 1, LLM
See Also	FETCh:DATA:TELecom:OTN:ERRor:PHYSical:HIStory?

:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:GLOBal:CURRent?

Description	This query returns the current status of OTL (global) error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTL > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:GLOBal:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Select the error:
	FAS
	LLM: Invalid Marker
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ERR:PHYS:GLOB:CURR? FAS
See Also	FETCh:DATA:TELecom:OTN:ERRor:PHYSical:GLOBal:HISTory?

:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:GLOBal:HISTory?

Description	This query returns the history status of OTL (global) error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTL > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:GLOBal:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FAS
	LLM: Invalid Marker
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ERR:PHYS:GLOB:HIST?? FAS

:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:HISTory?

Description	This query returns the history status of OTL (per lane) error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTL > Errors
	Navigation Path: Functions > 40G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:HISTory? <wsp><Lane>, <Error>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FAS
	LLM: Invalid Marker
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ERR:PHYS:HIST? 1, FAS
	FETC:DATA:TEL:OTN:ERR:PHYS:HIST? 1, LLM
See Also	FETCh:DATA:TELecom:OTN:ERRor:PHYSical:CURRent?

:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:RATE:TOTal?

Description	This query returns the total rate of OTL error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTL > Errors - Total
	Navigation Path: Functions > 40G Advanced > Lanes Mapping & Skew > Error - Total
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:RATE:TOTal? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FAS
	LLM: Invalid Marker
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	FETC:DATA:TEL:OTN:ERR:PHYS:RATE:TOT? FAS
See Also	FETCh:DATA:TELecom:OTN:ERRor:PHYSical:RATE?

:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:RATE?

Description	This query returns the current rate of OTL (per lane) error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTL > Errors
	Navigation Path: Functions > 40G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:RATE? <wsp><Lane>, <Error>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane for the current rate of physical error. The range for the virtual lane is from 0 to 19.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FAS
	LLM: Invalid Marker
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	FETC:DATA:TEL:OTN:ERR:PHYS:RATE? 1, FAS
	FETC:DATA:TEL:OTN:ERR:PHYS:RATE? 1, LLM
See Also	FETCh:DATA:TELecom:OTN:ERRor:PHYSical:COUNt?

:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:SEConds?

Description	This query returns the number of seconds within which OTL (per lane) error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > OTL > Errors
	Navigation Path: Functions > 40G Advanced > Lanes Mapping & Skew > Error
Syntax	:FETCh:DATA:TELecom:OTN:ERRor:PHYSical:SEConds? <wsp><Lane>, <Error>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane for the number of seconds of physical error. The range for the virtual lane is from 0 to 19.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FAS
	LLM: Invalid Marker
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:OTN:ERR:PHYS:SEC? 1, FAS
	FETC:DATA:TEL:OTN:ERR:PHYS:SEC? 1, LLM
See Also	FETCh:DATA:TELecom:OTN:ERRor:PHYSical:RATE?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:ALARm:CURRent?

Description	This query returns the current status of GMP alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > GMP > Alarms - OOS
	Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Alarms - Client Frequency
	Navigation Path: Results > Alarms/Errors > ODUflex > BER > Alarms - Client Frequency
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:ALARm:CURRent? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	GMPOOS: OOS
	CFRequency: Client Frequency
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ODU4:GMP:RX:ALAR:CURR? GMPOOS
	FETC:DATA:TEL:OTN:ODU4:GMP:RX:ALAR:CURR? GMPOOS, 3
See Also	FETCH:DATA:TELecom:OTN:ODU:GMP:RX:ALARm:HISTory?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:ALARm:HISTory?

Description	This query returns the history status of GMP alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > GMP > Alarms - OOS
	Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Alarms - Client Frequency
	Navigation Path: Results > Alarms/Errors > ODUflex > BER > Alarms - Client Frequency
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:ALARm:HISTory? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	GMPOOS: OOS
	CFRequency: Client Frequency
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ODU4:GMP:RX:ALAR:HIST? GMPOOS
	FETC:DATA:TEL:OTN:ODU4:GMP:RX:ALAR:HIST? GMPOOS, 3
See Also	FETCH:DATA:TELecom:OTN:ODU:GMP:RX:ALARm:CURRent?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:ALARm:SECo nds?

Description	This query returns the number of seconds within which GMP alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > GMP > Alarms - OOS
	Navigation Path: Results > Alarms/Errors > Ethernet > Ethernet > Alarms - Client Frequency
	Navigation Path: Results > Alarms/Errors > ODUflex > BER > Alarms - Client Frequency
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:ALARm:SEConds? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	GMPOOS: OOS
	CFRequency: Client Frequency
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:OTN:ODU4:GMP:RX:ALAR:SEC? GMPOOS
	FETC:DATA:TEL:OTN:ODU4:GMP:RX:ALAR:SEC? GMPOOS, 3
See Also	FETCh:DATA:TELecom:OTN:ODU:GMP:RX:ALARm:HISTory?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:ERRor:COUNt?

Description	This query returns the count of GMP errors.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU > GMP > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:ERRor:COUNt? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CMCRC8: Cm-CRC-8
	CNDCRC5: CnD-CRC-5
	CMCRC6: Cm-CRC-6
	CNDCRC9: CnD-CRC-9
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	FETC:DATA:TEL:OTN:ODU4:GMP:RX:ERR:COUN? CMCRC8
	FETC:DATA:TEL:OTN:ODU4:GMP:RX:ERR:COUN? CMCRC8, 3
See Also	FETCH:DATA:TELecom:OTN:ODU:GMP:RX:ERRor:HISTory?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:ERRor:CURRent?

Description	This query returns the current status of GMP error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU > GMP > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:ERRor:CURRent? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CMCRC8: Cm-CRC-8
	CNDCRC5: CnD-CRC-5
	CMCRC6: Cm-CRC-6
	CNDCRC9: CnD-CRC-9
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ODU4:GMP:RX:ERR:CURR? CMCRC8
	FETC:DATA:TEL:OTN:ODU4:GMP:RX:ERR:CURR? CMCRC8, 3
See Also	FETCh:DATA:TELecom:OTN:ODU:GMP:RX:ERRor:HISTory?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:ERRor:HISTory?

Description	This query returns the history status of GMP error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU > GMP > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:ERRor:HISTory? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CMCRC8: Cm-CRC-8
	CNDCRC5: CnD-CRC-5
	CMCRC6: Cm-CRC-6
	CNDCRC9: CnD-CRC-9
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:OTN:ODU4:GMP:RX:ERR:HIST? CMCRC8
	FETC:DATA:TEL:OTN:ODU4:GMP:RX:ERR:HIST? CMCRC8, 3
See Also	FETCh:DATA:TELecom:OTN:ODU:GMP:RX:ERRor:CURRent?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:ERRor:RATE?

Description	This query returns the current rate of GMP error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU > GMP > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:ERRor:RATE? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CMCRC8: Cm-CRC-8
	CNDCRC5: CnD-CRC-5
	CMCRC6: Cm-CRC-6
	CNDCRC9: CnD-CRC-9
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	FETC:DATA:TEL:OTN:ODU4:GMP:RX:ERR:RATE? CMCRC8
	FETC:DATA:TEL:OTN:ODU4:GMP:RX:ERR:RATE? CMCRC8, 3
See Also	FETCh:DATA:TELecom:OTN:ODU:GMP:RX:ERRor:HISTory?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:ERRor:SEConds?

Description	This query returns the number of seconds within which GMP error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > ODU > GMP > Errors
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:GMP:RX:ERRor:SEConds? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CMCRC8: Cm-CRC-8
	CNDCRC5: CnD-CRC-5
	CMCRC6: Cm-CRC-6
	CNDCRC9: CnD-CRC-9
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:OTN:ODU4:GMP:RX:ERR:SEC? CMCRC8
	FETC:DATA:TEL:OTN:ODU4:GMP:RX:ERR:SEC? CMCRC8, 3
See Also	FETCh:DATA:TELecom:OTN:ODU:GMP:RX:ERRor:HISTory?

:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:IPDV:CURRent?

Description	This query returns the current status of PTP alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > PTP > Alarms - Unusable
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:IPDV:CURRent? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	PTSUNUSABLE: Unusable
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:IPDV:CURRent? PTSUNUSABLE
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SYNMessage:CURRent?

:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:IPDV:HISTory ?

Description	This query returns the history status of PTP alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > PTP > Alarms - Unusable
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:IPDV:HISTory? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	PTSUNUSABLE: Unusable
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:IPDV:HISTory? PTSUNUSABLE
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SYNMessage:HISTory?

:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:IPDV:SECond?

Description	This query returns the number of seconds within which PTP alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > PTP > Alarms - Unusable
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:IPDV:SECond? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	PTSUNUSABLE: Unusable
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:IPDV:SECond? PTSUNUSABLE
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SYNMessage:SECond?

:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:MESSage:CURRent?

Description	This query returns the current status of PTP alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > PTP > Alarms - Domain Mismatch | Loss Announce | QL Mismatch
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:MESSage:CURRent? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	DOMAINMISM: Domain Mismatch
	PTSLOSANN: Loss Announce
	QLMISM: QL Mismatch
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:MESSage:CURRent? PTSLOSANN
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:IPDV:CURRent?

:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:MESSage:HIStory?

Description	This query returns the history status of PTP alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > PTP > Alarms - Domain Mismatch | Loss Announce | QL Mismatch
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:MESSage:HISTory? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	DOMAINMISM: Domain Mismatch
	PTSLOSANN: Loss Announce
	QLMISM: QL Mismatch
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:MESSage:HISTory? PTSLOSANN
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:IPDV:HISTory?

:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:MESSage:SECond?

Description	This query returns the number of seconds within which PTP alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > PTP > Alarms - Domain Mismatch | Loss Announce | QL Mismatch
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:MESSage:SECond? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	QLMISM: QL Mismatch
	PTSLOSANN: Loss Announce
	DOMAINMISM: Domain Mismatch
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:MESSage:SECond? PTSLOSANN
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:IPDV:SECond?

:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SYNMessage :CURRent?

Description	This query returns the current status of PTP alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > PTP > Alarms - Loss Sync
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SYNMessage:CURRent? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	PTSSYNCLOS: Loss Sync
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SYNMessage:CURRent? PTSSYNCLOS
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:IPDV:HISTory?

:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SYNMessage :HISTory?

Description	This query returns the history status of PTP alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > PTP > Alarms - Loss Sync
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SYNMessage:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	PTSSYNCLOS: Loss Sync
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SYNMessage:HISTory? PTSSYNCLOS
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SYNMessage:HISTory?

:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SYNMessage :SECond?

Description	This query returns the number of seconds within which PTP alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > PTP > Alarms - Loss Sync
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SYNMessage:SECond? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	PTSSYNCLOS: Loss Sync
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SYNMessage:SECond? PTSSYNCLOS
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:IPDV:CURRent?

:FETCh:DATA:TELecom:PACKetsync:SYNCe:ALARm:CURRent?

Description	This query returns the current status of SyncE alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > SyncE > Alarms
Syntax	:FETCh:DATA:TELecom:PACKetsync:SYNCe:ALARm:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	ESMCLOSS: ESMC Loss
	QLMISMATCH: QL Mismatch
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:PACK:SYNC:ALAR:CURR? ESMCLOSS
See Also	FETCh:DATA:TELecom:PACKetsync:SYNCe:ALARm:HISTory?

:FETCh:DATA:TELecom:PACKetsync:SYNCe:ALARm:HISTory?

Description	This query returns the history status of SyncE alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > SyncE > Alarms
Syntax	:FETCh:DATA:TELecom:PACKetsync:SYNCe:ALARm:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	ESMCLOSS: ESMC Loss
	QLMISMATCH: QL Mismatch
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:PACK:SYNC:ALAR:HIST? ESMCLOSS
See Also	FETCh:DATA:TELecom:PACKetsync:SYNCe:ALARm:SEConds?

:FETCh:DATA:TELecom:PACKetsync:SYNCe:ALARm:SEConds?

Description	This query returns the number of seconds within which SyncE alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > SyncE > Alarms
Syntax	:FETCh:DATA:TELecom:PACKetsync:SYNCe:ALARm:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	ESMCLOSS: ESMC Loss
	QLMISMATCH: QL Mismatch
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:PACK:SYNC:ALAR:SEC? ESMCLOSS
See Also	FETCH:DATA:TELecom:PACKetsync:SYNCe:ALARm:CURRent?

:FETCh:DATA:TELecom:PACKetsync:SYNCe:ESMC:RX:RATE:VERDict?

Description	This query returns ESMC Rx Rate Verdict status.
	At *RST condition, this value is set to down.
	Navigation Path: Test App > SyncE > Setup > Results > Summary > ESMC Port1 > ESMC RX Rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:SYNCe:ESMC:RX:RATE:VERDict?
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns ESMC Rx rate verdict status.
	PASS, verdict is Pass.
	FAIL, verdict is Fail.
Example(s)	FETC:DATA:TEL:PACK:SYNC:ESMC:RX:RATE:VERD?
See Also	FETCh:DATA:TELecom:TEST:STATus:VERDict?

:FETCh:DATA:TELecom:PACKetsync:SYNCe:RX:LAST:QL:VERDict?

Description	This query returns RX Last QL Verdict status.
	At *RST condition, this value is set to down.
	Navigation Path: Test App > SyncE > Result> Summary > ESMC-Port 1> RX>Last QL Message
Syntax	:FETCh:DATA:TELecom:PACKetsync:SYNCe:RX:LAST:QL:VERDict?
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns Rx Last QL verdict status.
	PASS, verdict is Pass.
	FAIL, verdict is Fail.
Example(s)	FETC:DATA:TEL:PACK:SYNC:RX:LAST:QL:VERD?
See Also	FETCh:DATA:TELecom:PACKetsync:SYNCe:ESMC:RX:RATE:VERDict?

:FETCh:DATA:TELecom:PATTern:ALARm:PATTern:CURRent?

Description	This query returns the current status of BER alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > BER > Alarms
	Navigation Path: Results > Alarms/Errors > BER > Alarms
Syntax	:FETCh:DATA:TELecom:PATTern:ALARm:PATTern:CURRent? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	NTRaffic: No Traffic
	PLOSs: Pattern Loss
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:PATT:ALAR:PATT:CURR? PLOS
See Also	FETCh:DATA:TELecom:PATTern:ALARm:PATTern:SEConds?

:FETCh:DATA:TELecom:PATTern:ALARm:PATTern:HISTory?

Description	This query returns the history status of BER alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > BER > Alarms
	Navigation Path: Results > Alarms/Errors > BER > Alarms
Syntax	:FETCh:DATA:TELecom:PATTern:ALARm:PATTern:HISTory? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	NTRaffic: No Traffic
	PLOSs: Pattern Loss
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:PATT:ALAR:PATT:HIST? PLOS
See Also	FETCh:DATA:TELecom:PATTern:ALARm:PATTern:CURRent?

:FETCh:DATA:TELecom:PATTern:ALARm:PATTern:SEConds?

Description	This query returns the number of seconds within which BER alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > BER > Alarms
	Navigation Path: Results > Alarms/Errors > BER > Alarms
Syntax	:FETCh:DATA:TELecom:PATTern:ALARm:PATTern:SEConds? <wsp><Alarm>,[<Channel Number or Client ID>]
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	NTRaffic: No Traffic
	PLOSs: Pattern Loss
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:PATT:ALAR:PATT:SEC? PLOS
See Also	FETCh:DATA:TELecom:PATTern:ALARm:PATTern:HISTory?

:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:COUNt?

Description	This query returns the count of BER errors.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > BERT/BER > Errors
	Navigation Path: Results > Alarms/Errors > BER > Errors
Syntax	:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:COUNt? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BIT: Bit Error
	MISMATCH0: Mismatch '0'
	MISMATCH1: Mismatch '1'
	PATTern: Pattern Error
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE BIT
	SOUR:DATA:TEL:PATT:ERR:PATT:AMO 25
	SOUR:DATA:TEL:PATT:ERR:PATT:INJ
	FETC:DATA:TEL:PATT:ERR:PATT:COUN? BIT
See Also	FETCH:DATA:TELecom:PATTern:ERRor:PATTern:HISTory?

:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:CURRent?

Description	This query returns the current status of BER error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > BERT/BER > Errors
	Navigation Path: Results > Alarms/Errors > BER > Errors
Syntax	:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:CURRent? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BIT: Bit Error
	MISMATCH0: Mismatch '0'
	MISMATCH1: Mismatch '1'
	PATTern: Pattern Error
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<Current>

:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:CURRent?

Response(s) Current:

The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.

Returns the current error status:

PRESENT: An error has occurred in the last second.

ABSENT: No error has occurred in the last second.

INACTIVE: No test result available.

Example(s) SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE BIT

SOUR:DATA:TEL:PATT:ERR:PATT:AMO 25

SOUR:DATA:TEL:PATT:ERR:PATT:INJ

FETC:DATA:TEL:PATT:ERR:PATT:CURR? BIT

See Also FETCh:DATA:TELecom:PATTern:ERRor:PATTern:RATE?

:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:HISTory?

Description	This query returns the history status of BER error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > BERT/BER > Errors
	Navigation Path: Results > Alarms/Errors > BER > Errors
Syntax	:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:HISTory? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BIT: Bit Error
	MISMATCH0: Mismatch '0'
	MISMATCH1: Mismatch '1'
	PATTern: Pattern Error
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<History>

:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:HISTory?

Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE BIT
	SOUR:DATA:TEL:PATT:ERR:PATT:AMO 25
	SOUR:DATA:TEL:PATT:ERR:PATT:INJ
	FETC:DATA:TEL:PATT:ERR:PATT:HIST? BIT
See Also	FETCh:DATA:TELecom:PATTern:ERRor:PATTern:COUNt?

:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:RATE?

Description	This query returns the current rate of BER error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > BERT/BER > Errors
	Navigation Path: Results > Alarms/Errors > BER > Errors
Syntax	:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:RATE? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BIT: Bit Error
	MISMATCH0: Mismatch '0'
	MISMATCH1: Mismatch '1'
	PATTern: Pattern Error
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE BIT
	SOUR:DATA:TEL:PATT:ERR:PATT:AMO 25
	SOUR:DATA:TEL:PATT:ERR:PATT:INJ
	FETC:DATA:TEL:PATT:ERR:PATT:RATE? BIT
See Also	FETCh:DATA:TELecom:PATTern:ERRor:PATTern:CURRent?

:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:SEConds?

Description	This query returns the number of seconds within which BER error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > BERT/BER > Errors
	Navigation Path: Results > Alarms/Errors > BER > Errors
Syntax	:FETCh:DATA:TELecom:PATTern:ERRor:PATTern:SEConds? <wsp><Error>,[<Channel Number or Client ID>]
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	BIT: Bit Error
	MISMATCH0: Mismatch '0'
	MISMATCH1: Mismatch '1'
	PATTern: Pattern Error
	Channel Number or Client ID:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Optional parameter, applicable to Multi-Channel OTN and FlexO BERT only.
	For Multi-Channel OTN, selects the channel number.
	For FlexO BERT, selects the client ID.
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE BIT
	SOUR:DATA:TEL:PATT:ERR:PATT:AMO 25
	SOUR:DATA:TEL:PATT:ERR:PATT:INJ
	FETC:DATA:TEL:PATT:ERR:PATT:SEC? BIT
See Also	FETCH:DATA:TELecom:PATTern:ALARm:PATTern:SEConds?

:FETCh:DATA:TELecom:PDH:ALARm:E[1..n]:CURRent?

Description	This query returns the current status of E1/E2/E3/E4 alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > E1/E2/E3/E4 > Alarms
Syntax	:FETCh:DATA:TELecom:PDH:ALARm:E[1..n]:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	AIS
	CLOMf: CRC LOMF
	LOF3: LOF
	LOMF
	RAI
	RAIM: RAI MF
	TS16ais: TS16 AIS
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:PDH:ALAR:E1:CURR? AIS
See Also	SOURce:DATA:TELecom:PDH:ALARm:E[1..n]:TYPE
	SOURce:DATA:TELecom:PDH:ALARm:E[1..n]

:FETCh:DATA:TELecom:PDH:ALARm:E[1..n]:HISTory?

Description	This query returns the history status of E1/E2/E3/E4 alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > E1/E2/E3/E4 > Alarms
Syntax	:FETCh:DATA:TELecom:PDH:ALARm:E[1..n]:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	AIS
	CLOMf: CRC LOMF
	LOF3: LOF
	LOMF
	RAI
	RAIM: RAI MF
	TS16ais: TS16 AIS
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:PDH:ALAR:E1:HIST? AIS
See Also	SOURce:DATA:TELecom:PDH:ALARm:E[1..n]:TYPE
	SOURce:DATA:TELecom:PDH:ALARm:E[1..n]

:FETCh:DATA:TELecom:PDH:ALARm:E[1..n]:SEConds?

Description	This query returns the number of seconds within which E1/E2/E3/E4 alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > E1/E2/E3/E4 > Alarms
Syntax	:FETCh:DATA:TELecom:PDH:ALARm:E[1..n]:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	AIS
	CLOMf: CRC LOMF
	LOF3: LOF
	LOMF
	RAI
	RAIM: RAI MF
	TS16ais: TS16 AIS
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:PDH:ALAR:E1:SEC? AIS
See Also	SOURce:DATA:TELecom:PDH:ALARm:E[1..n]:TYPE
	SOURce:DATA:TELecom:PDH:ALARm:E[1..n]

:FETCh:DATA:TELecom:PDH:ERRor:E[1..n]:COUNt?

Description	This query returns the count of E1/E2/E3/E4 errors.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > E1/E2/E3/E4 > Errors
Syntax	:FETCh:DATA:TELecom:PDH:ERRor:E[1..n]:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CRC4: CRC-4 (E1)
	EBIT: E-Bit (E1)
	FAS
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	FETC:DATA:TEL:PDH:ERR:E1:COUN? FAS
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOunt
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:INJect

:FETCh:DATA:TELecom:PDH:ERRor:E[1..n]:CURRent?

Description
This query returns the current status of E1/E2/E3/E4 error.

At *RST condition, this value is device dependent.

Navigation Path: Results > Alarms/Errors > E1/E2/E3/E4 > Errors

Syntax
:FETCh:DATA:TELecom:PDH:ERRor:E[1..n]:CURRent? <wsp><Error>

Parameter(s)
Error:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the error:

CRC4: CRC-4 (E1)

EBIT: E-Bit (E1)

FAS

Response Syntax
<Current>

Response(s)
Current:

The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.

Returns the current error status:

PRESENT: An error has occurred in the last second.

ABSENT: No error has occurred in the last second.

INACTIVE: No test result available.

Example(s)
FETC:DATA:TEL:PDH:ERR:E1:CURR? FAS

See Also
SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE

SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOunt

SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:INJect

:FETCh:DATA:TELecom:PDH:ERRor:E[1..n]:HISTory?

Description	This query returns the history status of E1/E2/E3/E4 error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > E1/E2/E3/E4 > Errors
Syntax	:FETCh:DATA:TELecom:PDH:ERRor:E[1..n]:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CRC4: CRC-4 (E1)
	EBIT: E-Bit (E1)
	FAS
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:PDH:ERR:E1:HIST? FAS
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOunt
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:INJect

:FETCh:DATA:TELecom:PDH:ERRor:E[1..n]:RATE?

Description	This query returns the current rate of E1/E2/E3/E4 error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > E1/E2/E3/E4 > Errors
Syntax	:FETCh:DATA:TELecom:PDH:ERRor:E[1..n]:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CRC4: CRC-4 (E1)
	EBIT: E-Bit (E1)
	FAS
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	FETC:DATA:TEL:PDH:ERR:E1:RATE? FAS
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOunt
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:INJect

:FETCh:DATA:TELecom:PDH:ERRor:E[1..n]:SEConds?

Description	This query returns the number of seconds within which E1/E2/E3/E4 error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > E1/E2/E3/E4 > Errors
Syntax	:FETCh:DATA:TELecom:PDH:ERRor:E[1..n]:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	CRC4: CRC-4 (E1)
	EBIT: E-Bit (E1)
	FAS
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:PDH:ERR:E1:SEC? FAS
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOunt
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:INJect

:FETCh:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:CURRent?

Description	This query returns the current status of STS/AU Path alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > STS/AU Path > Alarms
Syntax	:FETCh:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm (SONET | SDH):
	AIS: AIS-P | AU-AIS
	EPCD1: ERDI-PCD | HP-ERDI-C
	EPPD1: ERDI-PPD | HP-ERDI-PD
	EPSD1: ERDI-PSD | HP-ERDI-SD
	LOM: H4-LOM | H4-LOM
	LOP: LOP-P | AU-LOP
	PDI: PDI-P (SONET only)
	PLM: PLM-P | HP-PLM
	RDI: RDI-P | HP-RDI
	TIM: TIM-P | HP-TIM
	UNEQ: UNEQ-P | HP-UNEQ
Response Syntax	<Current>

:FETCh:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:CURRent?

Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH:TYPE AIS
	SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH ON
	FETC:DATA:TEL:SDHS:ALAR:HOP:PATH:CURR? AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE
	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:HISTory ?

Description	This query returns the history status of STS/AU Path alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > STS/AU Path > Alarms
Syntax	:FETCh:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm (SONET | SDH):
	AIS: AIS-P | AU-AIS
	EPCD1: ERDI-PCD | HP-ERDI-C
	EPPD1: ERDI-PPD | HP-ERDI-PD
	EPSD1: ERDI-PSD | HP-ERDI-SD
	LOM: H4-LOM | H4-LOM
	LOP: LOP-P | AU-LOP
	PDI: PDI-P (SONET only)
	PLM: PLM-P | HP-PLM
	RDI: RDI-P | HP-RDI
	TIM: TIM-P | HP-TIM
	UNEQ: UNEQ-P | HP-UNEQ
Response Syntax	<History>

:FETCh:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:HISTory ?

Response(s)	History:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH:TYPE AIS
	SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH ON
	FETC:DATA:TEL:SDHS:ALAR:HOP:PATH:HIST? AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE
	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:SEConds?

Description	This query returns the number of seconds within which STS/AU Path alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > STS/AU Path > Alarms
Syntax	:FETCh:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm (SONET | SDH):
	AIS: AIS-P | AU-AIS
	EPCD1: ERDI-PCD | HP-ERDI-C
	EPPD1: ERDI-PPD | HP-ERDI-PD
	EPSD1: ERDI-PSD | HP-ERDI-SD
	LOM: H4-LOM | H4-LOM
	LOP: LOP-P | AU-LOP
	PDI: PDI-P (SONET only)
	PLM: PLM-P | HP-PLM
	RDI: RDI-P | HP-RDI
	TIM: TIM-P | HP-TIM
	UNEQ: UNEQ-P | HP-UNEQ
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH:TYPE AIS
	SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH ON
	FETC:DATA:TEL:SDHS:ALAR:HOP:PATH:SEC? AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE
	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:CURRent ?

Description	This query returns the current status of STS/AU Path TCM alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > STS/AU Path TCM > Alarms
Syntax	:FETCh:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LIAIS: TC-IAIS-P	HPTC-IAIS
	LLTC: TC-LTC-P	HPTC-LTC
	LODI: TC-ODI-P	HPTC-ODI
	LRDI: TC-RDI-P	HPTC-RDI
	LTIM: TC-TIM-P	HPTC-TIM
	LUNEQ: TC-UNEQ-P	HPTC-UNEQ
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM:TYPE LIAIS
	SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM ON
	FETC:DATA:TEL:SDHS:ALAR:HOP:TCM:CURR? LIAIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE
	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:HISTory?

Description	This query returns the history status of STS/AU Path TCM alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > STS/AU Path TCM > Alarms
Syntax	:FETCh:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LIAIS: TC-IAIS-P | HPTC-IAIS
	LLTC: TC-LTC-P | HPTC-LTC
	LODI: TC-ODI-P | HPTC-ODI
	LRDI: TC-RDI-P | HPTC-RDI
	LTIM: TC-TIM-P | HPTC-TIM
	LUNEQ: TC-UNEQ-P | HPTC-UNEQ
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM:TYPE LIAIS
	SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM ON
	FETC:DATA:TEL:SDHS:ALAR:HOP:TCM:HIST? LIAIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE
	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:SEConds ?

Description	This query returns the number of seconds within which STS/AU Path TCM alarm occurred. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > STS/AU Path TCM > Alarms
Syntax	:FETCh:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the alarm: LIAIS: TC-IAIS-P | HPTC-IAIS LLTC: TC-LTC-P | HPTC-LTC LODI: TC-ODI-P | HPTC-ODI LRDI: TC-RDI-P | HPTC-RDI LTIM: TC-TIM-P | HPTC-TIM LUNEQ: TC-UNEQ-P | HPTC-UNEQ
Response Syntax	<Seconds>
Response(s)	**Seconds**: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of seconds in alarm.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM:TYPE LIAIS SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM ON FETC:DATA:TEL:SDHS:ALAR:HOP:TCM:SEC? LIAIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELecom:SDHSonet:ALARm:LINE:CURRent?

Description	This query returns the current status of Line/MS alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Line/MS > Alarms
Syntax	:FETCh:DATA:TELecom:SDHSonet:ALARm:LINE:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	AIS: AIS-L | MS-AIS
	RDI: RDI-L | MS-RDI
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LINE:TYPE AIS
	SOUR:DATA:TEL:SDHS:ALAR:LINE ON
	FETC:DATA:TEL:SDHS:ALAR:LINE:CURR? AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:LINE:TYPE
	SOURce:DATA:TELecom:SDHSonet:ALARm:LINE

:FETCh:DATA:TELecom:SDHSonet:ALARm:LINE:HISTory?

Description	This query returns the history status of Line/MS alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Line/MS > Alarms
Syntax	:FETCh:DATA:TELecom:SDHSonet:ALARm:LINE:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	AIS: AIS-L | MS-AIS
	RDI: RDI-L | MS-RDI
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LINE:TYPE AIS
	SOUR:DATA:TEL:SDHS:ALAR:LINE ON
	FETC:DATA:TEL:SDHS:ALAR:LINE:HIST? AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:LINE:TYPE
	SOURce:DATA:TELecom:SDHSonet:ALARm:LINE

:FETCh:DATA:TELecom:SDHSonet:ALARm:LINE:SEConds?

Description	This query returns the number of seconds within which Line/MS alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Line/MS > Alarms
Syntax	:FETCh:DATA:TELecom:SDHSonet:ALARm:LINE:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	AIS: AIS-L | MS-AIS
	RDI: RDI-L | MS-RDI
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LINE:TYPE AIS
	SOUR:DATA:TEL:SDHS:ALAR:LINE ON
	FETC:DATA:TEL:SDHS:ALAR:LINE:SEC? AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:LINE:TYPE
	SOURce:DATA:TELecom:SDHSonet:ALARm:LINE

:FETCh:DATA:TELecom:SDHSonet:ALARm:LOP:PATH:CURRent?

Description	This query returns the current status of VT/TU Path alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > VT/TU > Alarms
Syntax	:FETCh:DATA:TELecom:SDHSonet:ALARm:LOP:PATH:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm (SONET | SDH):
	AIS: AIS-V | TU-AIS
	EVCD: ERDI-VCD | LP-ERDI-CD
	EVPD: ERDI-VPD | LP-ERDI-PD
	EVSD: ERDI-VSD | LP-ERDI-SD
	LPRFi: RFI-V | LP-RFI
	PLM: PLM-V | LP-PLM
	RDI: RDI-V | LP-RDI
	TIM: TIM-V | LP-TIM
	TULop: LOP-V | TU-LOP
	UNEQp: UNEQ-V | LP-UNEQ
Response Syntax	<Current>

:FETCh:DATA:TELecom:SDHSonet:ALARm:LOP:PATH:CURRent ?

Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH:TYPE AIS
	SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH ON
	FETC:DATA:TEL:SDHS:ALAR:LOP:PATH:CURR? AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE
	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELecom:SDHSonet:ALARm:LOP:PATH:HISTory?

Description	This query returns the history status of VT/TU Path alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > VT/TU > Alarms
Syntax	:FETCh:DATA:TELecom:SDHSonet:ALARm:LOP:PATH:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm (SONET | SDH):
	AIS: AIS-V | TU-AIS
	EVCD: ERDI-VCD | LP-ERDI-CD
	EVPD: ERDI-VPD | LP-ERDI-PD
	EVSD: ERDI-VSD | LP-ERDI-SD
	LPRFi: RFI-V | LP-RFI
	PLM: PLM-V | LP-PLM
	RDI: RDI-V | LP-RDI
	TIM: TIM-V | LP-TIM
	TULop: LOP-V | TU-LOP
	UNEQp: UNEQ-V | LP-UNEQ
Response Syntax	<History>

:FETCh:DATA:TELecom:SDHSonet:ALARm:LOP:PATH:HISTory?

Response(s)   **History**:

The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.

Returns the history alarm status:

PRESENT: At least one alarm has occurred during the test.

ABSENT: No alarm has occurred during the test.

INACTIVE: No test result available.

Example(s)   SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH:TYPE AIS

SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH ON

FETC:DATA:TEL:SDHS:ALAR:LOP:PATH:HIST? AIS

See Also   SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE

SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELecom:SDHSonet:ALARm:LOP:PATH:SEConds?

Description	This query returns the number of seconds within which VT/TU Path alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > VT/TU > Alarms
Syntax	:FETCh:DATA:TELecom:SDHSonet:ALARm:LOP:PATH:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm (SONET | SDH):
	AIS: AIS-V | TU-AIS
	EVCD: ERDI-VCD | LP-ERDI-CD
	EVPD: ERDI-VPD | LP-ERDI-PD
	EVSD: ERDI-VSD | LP-ERDI-SD
	LPRFi: RFI-V | LP-RFI
	PLM: PLM-V | LP-PLM
	RDI: RDI-V | LP-RDI
	TIM: TIM-V | LP-TIM
	TULop: LOP-V | TU-LOP
	UNEQp: UNEQ-V | LP-UNEQ
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH:TYPE AIS
	SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH ON
	FETC:DATA:TEL:SDHS:ALAR:LOP:PATH:SEC? AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE
	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:CURRent ?

Description	This query returns the current status of VT/TU Path TCM alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > VT/TU Path TCM > Alarms
Syntax	:FETCh:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LIAIS: TC-AIS-V | LPTC-AIS
	LLTC: TC-LTC-V | LPTC-LTC
	LODI: TC-ODI-V | LPTC-ODI
	LRDI: TC-RDI-V | LPTC-RDI
	LTIM: TC-TIM-V | LPTC-TIM
	LUNEQ: TC-UNEQ-V | LPTC-UNEQ
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM:TYPE LIAIS
	SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM ON
	FETC:DATA:TEL:SDHS:ALAR:LOP:TCM:CURR? AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE
	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:HISTory?

Description	This query returns the history status of VT/TU Path TCM alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > VT/TU Path TCM > Alarms
Syntax	:FETCh:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LIAIS: TC-AIS-V | LPTC-AIS
	LLTC: TC-LTC-V | LPTC-LTC
	LODI: TC-ODI-V | LPTC-ODI
	LRDI: TC-RDI-V | LPTC-RDI
	LTIM: TC-TIM-V | LPTC-TIM
	LUNEQ: TC-UNEQ-V | LPTC-UNEQ
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM:TYPE LIAIS
	SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM ON
	FETC:DATA:TEL:SDHS:ALAR:LOP:TCM:HIST? AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE
	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:SEConds?

Description	This query returns the number of seconds within which VT/TU Path TCM alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > VT/TU Path TCM > Alarms
Syntax	:FETCh:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	LIAIS: TC-AIS-V | LPTC-AIS
	LLTC: TC-LTC-V | LPTC-LTC
	LODI: TC-ODI-V | LPTC-ODI
	LRDI: TC-RDI-V | LPTC-RDI
	LTIM: TC-TIM-V | LPTC-TIM
	LUNEQ: TC-UNEQ-V | LPTC-UNEQ
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM:TYPE LIAIS
	SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM ON
	FETC:DATA:TEL:SDHS:ALAR:LOP:TCM:SEC? AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE
	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH:CURRent?

Description	This query returns the current status of TU-3 Path alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > TU-3 > Alarms
Syntax	:FETCh:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm (SDH):
	AIS: TU-AIS
	ECD: LP-ERDI-CD
	EPD: LP-ERDI-PD
	ESD: LP-ERDI-SD
	LOP: TU-LOP
	LPPLm: LP-PLM
	LPRDi: LP-RDI
	LPTim: LP-TIM
	UNEQ: LP-UNEQ
Response Syntax	<Current>

:FETCh:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH:CURRent?

Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH:TYPE AIS
	SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH ON
	FETC:DATA:TEL:SDHS:ALAR:LOPT:PATH:CURR? AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE
	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH:HISTory?

Description	This query returns the history status of TU-3 Path alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > TU-3 > Alarms
Syntax	:FETCh:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm (SDH):
	AIS: TU-AIS
	ECD: LP-ERDI-CD
	EPD: LP-ERDI-PD
	ESD: LP-ERDI-SD
	LOP: TU-LOP
	LPPLm: LP-PLM
	LPRDi: LP-RDI
	LPTim: LP-TIM
	UNEQ: LP-UNEQ
Response Syntax	<History>

:FETCh:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH:HISTory?

Response(s)	History:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH:TYPE AIS
	SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH ON
	FETC:DATA:TEL:SDHS:ALAR:LOPT:PATH:HIST? AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE
	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH:SEConds?

Description	This query returns the number of seconds within which TU-3 Path alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > TU-3 > Alarms
Syntax	:FETCh:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm (SDH):
	AIS: TU-AIS
	ECD: LP-ERDI-CD
	EPD: LP-ERDI-PD
	ESD: LP-ERDI-SD
	LOP: TU-LOP
	LPPLm: LP-PLM
	LPRDi: LP-RDI
	LPTim: LP-TIM
	UNEQ: LP-UNEQ
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH:TYPE AIS
	SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH ON
	FETC:DATA:TEL:SDHS:ALAR:LOPT:PATH:SEC? AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE
	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:FETCh:DATA:TELecom:SDHSonet:ALARm:SECTion:CURRent?

Description	This query returns the current status of Section/RS alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Section/RS > Alarms
Syntax	:FETCh:DATA:TELecom:SDHSonet:ALARm:SECTion:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm (SONET | SDH):
	LOF1: LOF-S | RS-LOF
	SEF1: SEF
	TIMS: TIM-S | RS-TIM
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:SECT:TYPE LOF1
	SOUR:DATA:TEL:SDHS:ALAR:SECT ON
	FETC:DATA:TEL:SDHS:ALAR:SECT:CURR? LOF1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:SECTion:TYPE
	SOURce:DATA:TELecom:SDHSonet:ALARm:SECTion

:FETCh:DATA:TELecom:SDHSonet:ALARm:SECTion:HISTory?

Description	This query returns the history status of Section/RS alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Section/RS > Alarms
Syntax	:FETCh:DATA:TELecom:SDHSonet:ALARm:SECTion:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm (SONET | SDH):
	LOF1: LOF-S | RS-LOF
	SEF1: SEF
	TIMS: TIM-S | RS-TIM
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:SECT:TYPE LOF1
	SOUR:DATA:TEL:SDHS:ALAR:SECT ON
	FETC:DATA:TEL:SDHS:ALAR:SECT:HIST? LOF1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:SECTion:TYPE
	SOURce:DATA:TELecom:SDHSonet:ALARm:SECTion

:FETCh:DATA:TELecom:SDHSonet:ALARm:SECTion:SEConds?

Description	This query returns the number of seconds within which Section/RS alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Section/RS > Alarms
Syntax	:FETCh:DATA:TELecom:SDHSonet:ALARm:SECTion:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm (SONET | SDH):
	LOF1: LOF-S	RS-LOF
	SEF1: SEF
	TIMS: TIM-S	RS-TIM
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:SECT:TYPE LOF1
	SOUR:DATA:TEL:SDHS:ALAR:SECT ON
	FETC:DATA:TEL:SDHS:ALAR:SECT:SEC? LOF1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:SECTion:TYPE
	SOURce:DATA:TELecom:SDHSonet:ALARm:SECTion

:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:COUNt?

Description	This query returns the count of High Order Path (HOP) error.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Alarms/Errors > SONET > STS > Errors
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Alarms/Errors > SDH > AU > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of HOP (High Order Path) error.
	B3: B3 (ERROR)
	REI: Remote Error Indicator - Path
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of High Order Path (HOP) error.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:MAN:TYPE B3
	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:INJ
	FETC:DATA:TEL:SDHS:ERR:HOP:PATH:COUN? B3
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:CURRent?

Description	This query returns the current status of High Order Path (HOP) error.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Alarms/Errors > SONET > STS > Errors
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Alarms/Errors > SDH > AU > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of HOP (High Order Path) error.
	B3: B3 (ERROR)
	REI: Remote Error Indicator - Path
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current status of High Order Path (HOP) error.
	PRESENT, indicates that at least one error has occurred in the last second.
	ABSENT, indicates that there is no error.
	INACTIVE, indicates that the test is not running.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:MAN:TYPE B3
	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:INJ
	FETC:DATA:TEL:SDHS:ERR:HOP:PATH:CURR? B3
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:HISTory?

Description	This query returns the history status of High Order Path (HOP) error.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Alarms/Errors > SONET > STS > Errors
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Alarms/Errors > SDH > AU > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of HOP (High Order Path) error.
	B3: B3 (ERROR)
	REI: Remote Error Indicator - Path
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history status High Order Path (HOP) error.
	PRESENT, indicates that at least one error has occurred.
	ABSENT, indicates that no error occurred.
	INACTIVE, indicates that the test did not run yet.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:MAN:TYPE B3
	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:INJ
	FETC:DATA:TEL:SDHS:ERR:HOP:PATH:HIST? B3
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:RATE?

Description	This query returns the current rate of High Order Path (HOP) error.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Alarms/Errors > SONET > STS > Errors
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Alarms/Errors > SDH > AU > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of HOP (High Order Path) error.
	B3: B3 (ERROR)
	REI: Remote Error Indicator - Path
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current rate of High Order Path (HOP) error.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:MAN:TYPE B3
	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:INJ
	FETC:DATA:TEL:SDHS:ERR:HOP:PATH:RATE? B3
See Also	SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:MANual:TYPE
	SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:AMOunt
	SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:SEConds ?

Description	This query returns the number of seconds within which High Order Path (HOP) error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Alarms/Errors > SONET > STS > Errors
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Alarms/Errors > SDH > AU > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of HOP (High Order Path) error.
	B3: B3 (ERROR)
	REI: Remote Error Indicator - Path
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds of High Order Path (HOP) error.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:MAN:TYPE B3
	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:INJ
	FETC:DATA:TEL:SDHS:ERR:HOP:PATH:SEC? B3
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:COUNt?

Description

This query returns the count of STS/AU Path TCM errors.

At *RST condition, this value is device dependent.

Navigation Path: Results > Alarms/Errors > STS/AU Path TCM > Errors

Syntax

:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:COUNt? <wsp><Error>

Parameter(s)

Error:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the error:

LIEC: TC-IEC-P | HPTC-IEC

LOEI: TC-OEI-P | HPTC-OEI

LREI: TC-REI-P | HPTC-REI

LVIOL: TC-VIOL-P | HPTC-VIOL

Response Syntax

<Count>

Response(s)

Count:

The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the count of errors.

Example(s)

SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:MAN:TYPE LOEI

SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AMO 15

SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:INJ

FETC:DATA:TEL:SDHS:ERR:HOP:TCM:COUN? LIEC

See Also

SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE

SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt

SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:CURRent?

Description	This query returns the current status of STS/AU Path TCM error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > STS/AU Path TCM > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	LIEC: TC-IEC-P | HPTC-IEC
	LOEI: TC-OEI-P | HPTC-OEI
	LREI: TC-REI-P | HPTC-REI
	LVIOL: TC-VIOL-P | HPTC-VIOL
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:MAN:TYPE LOEI
	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:INJ
	FETC:DATA:TEL:SDHS:ERR:HOP:TCM:CURR? LIEC
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:HISTory?

Description	This query returns the history status of STS/AU Path TCM error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > STS/AU Path TCM > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	LIEC: TC-IEC-P | HPTC-IEC
	LOEI: TC-OEI-P | HPTC-OEI
	LREI: TC-REI-P | HPTC-REI
	LVIOL: TC-VIOL-P | HPTC-VIOL
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:MAN:TYPE LOEI
	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:INJ
	FETC:DATA:TEL:SDHS:ERR:HOP:TCM:HIST? LIEC
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:RATE?

Description	This query returns the current rate of STS/AU Path TCM error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > STS/AU Path TCM > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	LIEC: TC-IEC-P | HPTC-IEC
	LOEI: TC-OEI-P | HPTC-OEI
	LREI: TC-REI-P | HPTC-REI
	LVIOL: TC-VIOL-P | HPTC-VIOL
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:MAN:TYPE LOEI
	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:INJ
	FETC:DATA:TEL:SDHS:ERR:HOP:TCM:RATE? LIEC
See Also	SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:MANual:TYPE
	SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:AMOunt
	SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:SEConds?

Description	This query returns the number of seconds within which STS/AU Path TCM error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > STS/AU Path TCM > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	LIEC: TC-IEC-P | HPTC-IEC
	LOEI: TC-OEI-P | HPTC-OEI
	LREI: TC-REI-P | HPTC-REI
	LVIOL: TC-VIOL-P | HPTC-VIOL
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:MAN:TYPE LOEI
	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:INJ
	FETC:DATA:TEL:SDHS:ERR:HOP:TCM:SEC? LIEC
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:LINE:COUNt?

Description	This query returns the count of Line/MS errors.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Line/MS > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LINE:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	B2
	REI: REI-L | MS-REI
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:MAN:TYPE B2
	SOUR:DATA:TEL:SDHS:ERR:LINE:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LINE:INJ
	FETC:DATA:TEL:SDHS:ERR:LINE:COUN? B2
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:MANual:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AMOunt
	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:LINE:CURRent?

Description	This query returns the current status of Line/MS error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Line/MS > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LINE:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	B2
	REI: REI-L | MS-REI
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:MAN:TYPE B2
	SOUR:DATA:TEL:SDHS:ERR:LINE:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LINE:INJ
	FETC:DATA:TEL:SDHS:ERR:LINE:CURR? B2
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:MANual:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AMOunt
	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:LINE:HISTory?

Description	This query returns the history status of Line/MS error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Line/MS > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LINE:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	B2
	REI: REI-L | MS-REI
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:MAN:TYPE B2
	SOUR:DATA:TEL:SDHS:ERR:LINE:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LINE:INJ
	FETC:DATA:TEL:SDHS:ERR:LINE:HIST? B2
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:MANual:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AMOunt
	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:LINE:RATE?

Description	This query returns the current rate of Line/MS error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Line/MS > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LINE:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	B2
	REI: REI-L | MS-REI
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:MAN:TYPE B2
	SOUR:DATA:TEL:SDHS:ERR:LINE:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LINE:INJ
	FETC:DATA:TEL:SDHS:ERR:LINE:RATE? B2
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:MANual:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AMOunt
	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:LINE:SEConds?

Description	This query returns the number of seconds within which Line/MS error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Line/MS > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LINE:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	B2
	REI: REI-L | MS-REI
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:MAN:TYPE B2
	SOUR:DATA:TEL:SDHS:ERR:LINE:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LINE:INJ
	FETC:DATA:TEL:SDHS:ERR:LINE:SEC? B2
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:MANual:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AMOunt
	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:COUNt?

Description	This query returns the count of VT/TU Path error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > VT/TU > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error (SONET | SDH):
	BIP2: BIP-2
	LPRei: REI-V | LP-REI
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:MAN:TYPE BIP2
	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:INJ
	FETC:DATA:TEL:SDHS:ERR:LOP:PATH:COUN? BIP2
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:CURRent?

Description	This query returns the current status of VT/TU Path error.
	At *RST condition, this value is device dependent.
	Navigation Results > Alarms/Errors > VT/TU > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error (SONET | SDH):
	BIP2: BIP-2
	LPRei: REI-V	LP-REI
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:MAN:TYPE BIP2
	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:INJ
	FETC:DATA:TEL:SDHS:ERR:LOP:PATH:CURR? BIP2
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE?
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt?
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:HISTory?

Description	This query returns the history status of VT/TU Path error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > VT/TU > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error (SONET | SDH):
	BIP2: BIP-2
	LPRei: REI-V | LP-REI
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:MAN:TYPE BIP2
	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:INJ
	FETC:DATA:TEL:SDHS:ERR:LOP:PATH:HIST? BIP2
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE?
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt?
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:RATE?

Description	This query returns the current rate of VT/TU Path error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > VT/TU > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error (SONET | SDH):
	BIP2: BIP-2
	LPRei: REI-V | LP-REI
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:MAN:TYPE BIP2
	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:INJ
	FETC:DATA:TEL:SDHS:ERR:LOP:PATH:RATE? BIP2
See Also	SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:MANual:TYPE?
	SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:AMOunt?
	SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:SEConds?

Description	This query returns the number of seconds within which VT/TU Path error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > VT/TU > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error (SONET | SDH):
	BIP2: BIP-2
	LPRei: REI-V | LP-REI
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:MAN:TYPE BIP2
	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:INJ
	FETC:DATA:TEL:SDHS:ERR:LOP:PATH:SEC? BIP2
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:COUNt?

Description	This query returns the count of VT/TU Path TCM errors.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > VT/TU Path TCM > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	LOEI: TC-OEI-V | LPTC-OEI
	LREI: TC-REI-V | LPTC-REI
	LVIOL: TC-VIOL-V | LPTC-VIOL
	LIEC (not supported)
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:TYPE LOEI
	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:INJ
	FETC:DATA:TEL:SDHS:ERR:LOP:TCM:COUN? LOEI
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:CURRent?

Description	This query returns the current status of VT/TU Path TCM error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > VT/TU Path TCM > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	LOEI: TC-OEI-V | LPTC-OEI
	LREI: TC-REI-V | LPTC-REI
	LVIOL: TC-VIOL-V | LPTC-VIOL
	LIEC (not supported)
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:TYPE LOEI
	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:INJ
	FETC:DATA:TEL:SDHS:ERR:LOP:TCM:CURR? LOEI
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:HISTory?

Description	This query returns the history status of VT/TU Path TCM error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > VT/TU Path TCM > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	LOEI: TC-OEI-V | LPTC-OEI
	LREI: TC-REI-V | LPTC-REI
	LVIOL: TC-VIOL-V | LPTC-VIOL
	LIEC (not supported)
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:TYPE LOEI
	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:INJ
	FETC:DATA:TEL:SDHS:ERR:LOP:TCM:HIST? LOEI
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:RATE?

Description	This query returns the current rate of VT/TU Path TCM error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > VT/TU Path TCM > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	LOEI: TC-OEI-V | LPTC-OEI
	LREI: TC-REI-V | LPTC-REI
	LVIOL: TC-VIOL-V | LPTC-VIOL
	LIEC (not supported)
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:TYPE LOEI
	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:INJ
	FETC:DATA:TEL:SDHS:ERR:LOP:TCM:RATE? LOEI
See Also	SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:MANual:TYPE
	SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:AMOunt
	SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:SEConds?

Description	This query returns the number of seconds within which VT/TU Path TCM error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > VT/TU Path TCM > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	LOEI: TC-OEI-V | LPTC-OEI
	LREI: TC-REI-V | LPTC-REI
	LVIOL: TC-VIOL-V | LPTC-VIOL
	LIEC (not supported)
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:TYPE LOEI
	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:INJ
	FETC:DATA:TEL:SDHS:ERR:LOP:TCM:SEC? LOEI
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:COUNt?

Description	This query returns the count of TU-3 Path error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > TU-3 > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:COUNt? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	B3
	REI: LP-REI
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:MAN:TYPE B3
	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:INJ
	FETC:DATA:TEL:SDHS:ERR:LOPT:PATH:COUN? B3
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:CURRent?

Description	This query returns the current status of TU-3 Path error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > TU-3 > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	B3
	REI: LP-REI
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:MAN:TYPE B3
	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:INJ
	FETC:DATA:TEL:SDHS:ERR:LOPT:PATH:CURR? B3
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:HISTory ?

Description	This query returns the history status of TU-3 Path error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > TU-3 > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	B3
	REI: LP-REI
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:MAN:TYPE B3
	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:INJ
	FETC:DATA:TEL:SDHS:ERR:LOPT:PATH:HIST? B3
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:RATE?

Description	This query returns the current rate of TU-3 Path error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > TU-3 > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	B3
	REI: LP-REI
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:MAN:TYPE B3
	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:INJ
	FETC:DATA:TEL:SDHS:ERR:LOPT:PATH:RATE? B3
See Also	SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:MANual:TYPE
	SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:AMOunt
	SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:SEConds?

Description	This query returns the number of seconds within which TU-3 Path error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > TU-3 > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	B3
	REI: LP-REI
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:MAN:TYPE B3
	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:INJ
	FETC:DATA:TEL:SDHS:ERR:LOPT:PATH:SEC? B3
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:SECTion:COUNt?

Description	This query returns the count of Section/RS errors. At *RST condition, this value is device dependent. Navigation Path: Results > Alarms/Errors > Section/RS > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:SECTion:COUNt? <wsp><Error>
Parameter(s)	**Error**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error (SONET | SDH): B1 FAS: FAS-S | RS-FAS
Response Syntax	<Count>
Response(s)	**Count**: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the count of errors.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:MAN:TYPE B1 SOUR:DATA:TEL:SDHS:ERR:SECT:AMO 15 SOUR:DATA:TEL:SDHS:ERR:SECT:INJ FETC:DATA:TEL:SDHS:ERR:SECT:COUN? B1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:MANual:TYPE SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AMOunt SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:SECTion:CURRent?

Description	This query returns the current status of Section/RS error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Section/RS > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:SECTion:CURRent? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error (SONET | SDH):
	B1
	FAS: FAS-S | RS-FAS
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:MAN:TYPE B1
	SOUR:DATA:TEL:SDHS:ERR:SECT:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:SECT:INJ
	FETC:DATA:TEL:SDHS:ERR:SECT:CURR? B1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:MANual:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AMOunt
	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:SECTion:HISTory?

Description	This query returns the history status of Section/RS error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Section/RS > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:SECTion:HISTory? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error (SONET | SDH):
	B1
	FAS: FAS-S | RS-FAS
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:MAN:TYPE B1
	SOUR:DATA:TEL:SDHS:ERR:SECT:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:SECT:INJ
	FETC:DATA:TEL:SDHS:ERR:SECT:HIST? B1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:MANual:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AMOunt
	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:SECTion:RATE?

Description	This query returns the current rate of Section/RS error.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Section/RS > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:SECTion:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error (SONET | SDH):
	B1
	FAS: FAS-S | RS-FAS
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:MAN:TYPE B1
	SOUR:DATA:TEL:SDHS:ERR:SECT:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:SECT:INJ
	FETC:DATA:TEL:SDHS:ERR:SECT:RATE? B1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:MANual:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AMOunt
	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:INJect

:FETCh:DATA:TELecom:SDHSonet:ERRor:SECTion:SEConds?

Description	This query returns the number of seconds within which Section/RS error occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Section/RS > Errors
Syntax	:FETCh:DATA:TELecom:SDHSonet:ERRor:SECTion:SEConds? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error (SONET | SDH):
	B1
	FAS: FAS-S | RS-FAS
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:MAN:TYPE B1
	SOUR:DATA:TEL:SDHS:ERR:SECT:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:SECT:INJ
	FETC:DATA:TEL:SDHS:ERR:SECT:SEC? B1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:MANual:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AMOunt
	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:INJect

:FETCh:DATA:TELecom:SOAM:ALARm:CURRent?

Description	This query returns the current status of an OAM alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarm/Errors > S-OAM/MPLS-TP OAM > Alarms
Syntax	:FETCh:DATA:TELecom:SOAM:ALARm:CURRent? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	AIS
	CCMLEV: Unexp MEG Lvl
	CCMLOC: Loss Continuity
	CCMMEP: Unexp MEP
	CCMMIS: Mismerge
	CCMPER: Unexp Period
	CFDI: C-FDI
	CLOS: C-LOS
	CRDI: C-RDI
	LCK
	RDI
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:SOAM:ALARm:CURR? CCMLOC
See Also	FETCh:DATA:TELecom:SOAM:ALARm:SEConds?

:FETCh:DATA:TELecom:SOAM:ALARm:HISTory?

Description	This query returns the history status of an OAM alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarm/Errors > S-OAM/MPLS-TP OAM > Alarms
Syntax	:FETCh:DATA:TELecom:SOAM:ALARm:HISTory? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	AIS
	CCMLEV: Unexp MEG Lvl
	CCMLOC: Loss Continuity
	CCMMEP: Unexp MEP
	CCMMIS: Mismerge
	CCMPER: Unexp Period
	CFDI: C-FDI
	CLOS: C-LOS
	CRDI: C-RDI
	LCK
	RDI
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:SOAM:ALARm:HIST? CcmLoc
See Also	FETCh:DATA:TELecom:SOAM:ALARm:CURRent?

:FETCh:DATA:TELecom:SOAM:ALARm:SEConds?

Description	This query returns the number of seconds within which OAM alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarm/Errors > S-OAM/MPLS-TP OAM > Alarms
Syntax	:FETCh:DATA:TELecom:SOAM:ALARm:SEConds? <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm:
	AIS
	CCMLEV: Unexp MEG Lvl
	CCMLOC: Loss Continuity
	CCMMEP: Unexp MEP
	CCMMIS: Mismerge
	CCMPER: Unexp Period
	CFDI: C-FDI
	CLOS: C-LOS
	CRDI: C-RDI
	LCK
	RDI
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	FETC:DATA:TEL:SOAM:ALARm:SEC? CcmLoc
See Also	FETCh:DATA:TELecom:SOAM:ALARm:HISTory?

:INPut:TELecom:BACKplane:ALARm:STATus:CURRent?

Description	This query returns the current status of Clock alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Clock > Alarms
Syntax	:INPut:TELecom:BACKplane:ALARm:STATus:CURRent?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current alarm status:
	PRESENT: An alarm has occurred in the last second.
	ABSENT: No alarm has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	INP:TEL:BACK:ALAR:STAT:CURR?
See Also	INPut:TELecom:BACKplane:ALARm:STATus:HISTory?

:INPut:TELecom:BACKplane:ALARm:STATus:HISTory?

Description	This query returns the history status of Clock alarm.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Clock > Alarms
Syntax	:INPut:TELecom:BACKplane:ALARm:STATus:HISTory?
Response Syntax	<History>
Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history alarm status:
	PRESENT: At least one alarm has occurred during the test.
	ABSENT: No alarm has occurred during the test.
	INACTIVE: No test result available.
Example(s)	INP:TEL:BACK:ALAR:STAT:HIST?
See Also	INPut:TELecom:BACKplane:ALARm:STATus:SEConds?

:INPut:TELecom:BACKplane:ALARm:STATus:SEConds?

Description	This query returns the number of seconds within which Clock alarm occurred.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Clock > Alarms
Syntax	:INPut:TELecom:BACKplane:ALARm:STATus:SEConds?
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in alarm.
Example(s)	INP:TEL:BACK:ALAR:STAT:SEC?
See Also	INPut:TELecom:BACKplane:ALARm:STATus:CURRent?

:SENSe:DATA:TELecom:FETHernet:POAM:BOAM:CSLPi:ENABle

Description	This command enables/disables the FlexE Path OAM Basic Oam CS_LPI monitoring
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Path OAM > CS_LPI Monitoring
Syntax	:SENSe:DATA:TELecom:FETHernet:POAM:BOAM:CSLPi:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Seconds>
Example(s)	SENS:DATA:TEL:FETH:POAM:BOAM:CSLP:ENAB OFF
	SENS:DATA:TEL:FETH:POAM:BOAM:CSLP:ENAB?
	Returns: 0

:SENSe:DATA:TELecom:FETHernet:POAM:BOAM:CSLPi:ENABle?

Description	This query returns the enable/disable status of FlexE Path OAM Basic Oam CS_LPI Monitoring
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Path OAM > CS_LPI Monitoring
Syntax	:SENSe:DATA:TELecom:FETHernet:POAM:BOAM:CSLPi:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SENS:DATA:TEL:FETH:POAM:BOAM:CSLP:ENAB OFF
	SENS:DATA:TEL:FETH:POAM:BOAM:CSLP:ENAB?
	Returns: 0

:SENSe:DATA:TELecom:OTN:OPU[1..n]:MSIM

Description	This command enables/disables the Optical Payload Unit-MSIM Monitoring status.
	At *RST condition, this value is set to OFF.
	Navigation Path: Test > OTN BERT > Results > Alarms/Errors > ODU > OPU > MSIM Monitoring
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:MSIM <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the OPU-PLM (Optical Payload Unit-MSIM Monitoring status).
	ON, enables the Optical Payload Unit-MSIM Monitoring status.
	OFF, disables the Optical Payload Unit-MSIM Monitoring status.
Response Syntax	<Status>
Example(s)	SENS:DATA:TEL:OTN:OPU1:MSIM ON
	SENS:DATA:TEL:OTN:OPU1:MSIM?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:MSIM?

Description	This query returns the status of the Optical Payload Unit-MSIM Monitoring status.
	At *RST condition, this value is set to OFF.
	Navigation Path: Test > OTN BERT > Results > Alarms/Errors > ODU > OPU > MSIM Monitoring
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:MSIM?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the Optical Payload Unit-MSIM Monitoring status.
	1, Optical Payload Unit-MSIM Monitoring status is enabled.
	0, Optical Payload Unit-MSIM Monitoring status is disabled.
Example(s)	SENS:DATA:TEL:OTN:OPU1:MSIM ON
	SENS:DATA:TEL:OTN:OPU1:MSIM?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OPU[1..n]:PCODe

:SOURce:DATA:TELecom:CPRI:ALARm:DEFect

Description	This command selects the continuous CPRI alarm Defect to be injected.
	At *RST condition, this Defect type LOF.
	Navigation Path: Results > Alarms/Errors > Injection > CPRI > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:ALARm:DEFect[<wsp><Alarm>]
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	LOF
	RLOS: R-LOS
	RLOF: R-LOF
	RAI
	SDI
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:CPRI:ALAR:DEF LOF
See Also	SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:RATE

:SOURce:DATA:TELecom:CPRI:ALARm:DEFect?

Description	This query returns the continuous CPRI alarm Defect to be injected. At *RST condition, this Defect type LOF. Navigation Path: Results > Alarms/Errors > Injection > CPRI > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:ALARm:DEFect?
Response Syntax	<Alarm>
Response(s)	**Alarm**: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the alarm to be injected: LOF RLOS: R-LOS RLOF: R-LOF RAI SDI
Example(s)	SOUR:DATa:TEL:CPRI:ALAR:DEF?
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFect?

:SOURce:DATA:TELecom:CPRI:ALARm:GENerate

Description	This command enables/disables the continuous CPRI alarm injection.
	At *RST condition, this value is set to off.
	Navigation Path: Results > Alarms/Errors > Injection > CPRI > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:CPRI:ALARm:GENerate <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<Alarm>
Example(s)	SOUR:DATA:TEL:CPRI:ALAR:GEN ON
See Also	SOURce:DATA:TELecom:CPRI:ALARm:GENerate?

:SOURce:DATA:TELecom:CPRI:ALARm:GENerate?

Description	This query returns the enable/disable status of the continuous CPRI alarm injection.
	At *RST condition, this value is set to off.
	Navigation Path: Results > Alarms/Errors > Injection > CPRI > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:CPRI:ALARm:GENerate?
Response Syntax	<set>
Response(s)	**set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status.
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:CPRI:ALAR:GEN ON?
See Also	SOURce:DATA:TELecom:CPRI:ALARm:GENerate ON

:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated

Description	This command enables/disables the Rate/Max Rate CPRI error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > CPRI > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<set>
Example(s)	SOUR:DATA:TEL:CPRI:ERR:AUT ON
See Also	SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated

:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:CONTinuous

Description	This command selects the automated CPRI error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > CPRI > Error > Mode
Syntax	:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:CONTinuous <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<set>
Example(s)	SOUR:DATA:TEL:CPRI:ERR:AUT:CONT ON
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFect?

:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:CONTinuous?

Description	This query returns the automated CPRI error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > CPRI > Error > Mode
Syntax	:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:CONTinuous?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:CPRI:ERR:AUT:CONT?
	Returns Injection: ON/OFF
See Also	SOURce:DATA:TELecom:CPRI:VERDict:ENABle

:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:DEFect

Description	This command sets the automated CPRI error Defect to be injected.
	At *RST condition, this Defect type FAS.
	Navigation Path: Results > Alarms/Errors > Injection > CPRI > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:DEFect <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	FAS
Response Syntax	<Mode>
Example(s)	SOUR:DATa:TEL:CPRI:ERR:AUT:DEF FAS
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFect?

:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:DEFect?

Description	This query returns the automated CPRI error Defect to be injected.
	At *RST condition, this Defect type FAS.
	Navigation Path: Results > Alarms/Errors > Injection > CPRI > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:DEFect?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	FAS
Example(s)	SOUR:DATa:TEL:CPRI:ERR:AUT:DEF?
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFect?

:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:RATE

Description	This command sets the automated CPRI error Rate to be injected.
	At *RST condition, this value is set to 1.0E-07.
	Navigation Path: Results > Alarms/Errors > Injection > CPRI > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:RATE[<wsp><RATE>]
Parameter(s)	RATE:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected:
	1.0E-07 to 5.0E-01
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
	DEFault: Default rate
Response Syntax	<Error>
Example(s)	SOUR:DATa:TEL:CPRI:ERR:AUT:RATE
See Also	SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:RATE

:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:RATE?

Description	This query returns the automated CPRI error Rate to be injected.
	At *RST condition, this value is set to 1.0E-07.
	Navigation Path:Results > Alarms/Errors > Injection > CPRI > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
	DEFault: Default rate
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATa:TEL:CPRI:ERR:AUT:RATE?
See Also	SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:RATE?

:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate CPRI error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > CPRI > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:CPRI:ERRor:AUTomated?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:CPRI:ERR:AUT ON
	SOUR:DATA:TEL:CPRI:ERR:AUT?
See Also	SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated?

:SOURce:DATA:TELecom:CPRI:ERRor:MANual:AMOunt

Description	This command sets the manual CPRI error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > CPRI > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:CPRI:ERRor:MANual:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Inject>
Example(s)	SOUR:DATa:TEL:CPRI:ERR:MAN:AMO
See Also	SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:AMOunt

:SOURce:DATA:TELecom:CPRI:ERRor:MANual:AMOunt?

Description	This query returns the manual CPRI error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > _ > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:CPRI:ERRor:MANual:AMOunt?[<wsp><Vaue>]
Parameter(s)	**Vaue**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATa:TEL:CPRI:ERR:MAN:AMO?
See Also	SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:AMOunt?

:SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFect

Description	This command sets the manual CPRI error Defect to be injected.
	At *RST condition, this defect type is FAS.
	Navigation Path: Results > Alarms/Errors > Injection > CPRI > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFect <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	FAS
	66BBLOCK
	SYNCHEADER
Response Syntax	<Amount>
Example(s)	SOUR:DATa:TEL:CPRI:ERR:MAN:DEF FAS
See Also	SOURce:DATA:TELecom:CPRI:ALARm:DEFect?

:SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFect?

Description	This query returns the manual CPRI error Defect to be injected.
	At *RST condition, this defect type is FAS.
	Navigation Path: Results > Alarms/Errors > Injection > _ > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFect?
Response Syntax	<Defect>
Response(s)	**Defect**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	FAS
Example(s)	SOUR:DATa:TEL:CPRI:ERR:MAN:DEF?
See Also	SOURce:DATA:TELecom:CPRI:ALARm:DEFect?

:SOURce:DATA:TELecom:CPRI:ERRor:MANual:INJect

Description	This command enables/disables the manual CPRI error injection.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > _ > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:CPRI:ERRor:MANual:INJect
Response Syntax	<Defect>
Example(s)	SOUR:DATA:TEL:CPRI:ERR:MAN:INJect
See Also	SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:INJect

:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AMOunt

Description	This command sets the amount of RS-FEC error to be injected for CPRI 24.3G.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Global Injection > Layer (RS-FEC) > Amount
Syntax	:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of FEC error to be injected.
	DEFault: Default amount of RS-FEC error
	MAXimum: Greatest supported amount
	MINimum: Smallest supported amount
Response Syntax	<Defect>
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:AMO 50
	SOUR:DATA:TEL:CPRI:FEC:ERR:AMO?
	Returns: 50
See Also	SOURce:DATA:TELecom:CPRI:FEC:ERRor:MANual:TYPE
	SOURce:DATA:TELecom:CPRI:FEC:ERRor:AMOunt
	SOURce:DATA:TELecom:CPRI:FEC:ERRor:INJect

:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AMOunt?

Description	This query returns the manual RS-FEC error Amount to be injected for CPRI 24.3G.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > Layer (RS-FEC) > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AMOunt?[<wsp><Amount>]
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:AMO 50
	SOUR:DATA:TEL:CPRI:FEC:ERR:AMO?
	Returns: 50
See Also	SOURce:DATA:TELecom:CPRI:FEC:ERRor:MANual:TYPE
	SOURce:DATA:TELecom:CPRI:FEC:ERRor:AMOunt
	SOURce:DATA:TELecom:CPRI:FEC:ERRor:INJect

:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated

Description	This command enables/disables the rate/Max Rate RS-FEC error injection for CPRI 24.3G.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Layer (RS-FEC) > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:AUT OFF
	SOUR:DATA:TEL:CPRI:FEC:ERR:AUT?
	Returns: 0
See Also	SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated:CONTinuous

:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated:CONTinuous

Description	This command sets the automated RS-FEC error Mode for CPRI 24.3G: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Layer (RS-FEC) > Error > Mode
Syntax	:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated:CONTinuous <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:AUT:CONT OFF
	SOUR:DATA:TEL:CPRI:FEC:ERR:AUT:CONT?
	Returns: 0
See Also	SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated

:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated:CONTinuous?

Description	This query returns the automated RS-FEC error Mode for CPRI 24.3G: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Layer (RS-FEC) > Error > Mode
Syntax	:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated:CONTinuous?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:AUT:CONT ON
	SOUR:DATA:TEL:CPRI:FEC:ERR:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated?

:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated:RATE

Description	This command serts the automated RS-FEC error Rate to be injected for CPRI 24.3G.
	At *RST condition, this value is set to 1.0E-04.
	Navigation Path: Results > Alarms/Errors > Injection > Layer (RS-FEC) > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of FEC error to be injected.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
	DEFault: Default rate
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:AUT:RATE MIN
See Also	SOURce:DATA:TELecom:CPRI:FEC:ERRor:AMOunt

:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated:RATE?

Description	This query returns the automated RS-FEC error Rate to be injected for CPRI 24.3G. At *RST condition, this value is set to 1.0E-02. Navigation Path: Results > Alarms/Errors > Injection > Layer (RS-FEC) > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	**Rate**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest rate MINimum: Smallest rate DEFault: Default rate
Response Syntax	<Error>
Response(s)	**Error**: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:AUT:RATE
See Also	SOURce:DATA:TELecom:CPRI:FEC:ERRor:AMOunt?

:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated:TYPE

Description	This command selects the automated RS-FEC error Defect to be injected for CPRI 24.3G.
	At *RST condition, this value is set to FSERR.
	Navigation Path: Results > Alarms/Errors > Injection > Layer (RS-FEC) > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated:TYPE \<wsp>\<Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a \<CHARACTER PROGRAM DATA> element.
	Selects the FEC error to be injected:
	FCCW: FEC-COR-CW
	FUCW: FEC-UNCOR-CW
	FSERR: Pre-FEC-SYMB
Response Syntax	\<Error>
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:AUT:TYPE FSERR
See Also	SOURce:DATA:TELecom:CPRI:FEC:ERRor:MANual:TYPE

:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated:TYPE?

Description	This query returns the automated RS-FEC error Defect to be injected for CPRI 24.3G.
	At *RST condition, this value is set to FSERR.
	Navigation Path: Results > Alarms/Errors > Injection > Layer (RS-FEC) > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the FEC error to be injected:
	FCCW: FEC-COR-CW
	FUCW: FEC-UNCOR-CW
	FSERR: Pre-FEC-SYMB
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:AUT:TYPE?
See Also	SOURce:DATA:TELecom:CPRI:FEC:ERRor:MANual:TYPE?

:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated?

Description	This query returns the enable/disable status of the rate/Max Rate RS-FEC error injection for CPRI 24.3G.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Layer (RS-FEC) > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status.
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:AUT ON
	SOUR:DATA:TEL:CPRI:FEC:ERR:AUT?
	Returns: 0
See Also	SOURce:DATA:TELecom:CPRI:FEC:ERRor:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:CPRI:FEC:ERRor:INJect

Description	This command enables/disables the manual RS-FEC error injection for CPRI 24.3G.
	This command is an event and has no associated # RST condition or query form.
	Navigation Path: Results > Alarms/Errors > Injection > Layer (RS-FEC) > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:CPRI:FEC:ERRor:INJect
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:INJ
See Also	SOURce:DATA:TELecom:CPRI:FEC:ERRor:MANual:TYPE?
	SOURce:DATA:TELecom:CPRI:FEC:ERRor:AMOunt?

:SOURce:DATA:TELecom:CPRI:FEC:ERRor:MANual:TYPE

Description	This command selects the manual RS-FEC error defect to be injected for CPRI 24.3G
	At *RST condition, this value is set to FSERR.
	Navigation Path: Alarms/Errors > Injection > Layer (RS-FEC) > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:FEC:ERRor:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the FEC error to be injected:
	FCCW: FEC-COR-CW
	FUCW: FEC-UNCOR-CW
	FSERR: Pre-FEC-SYMB
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:MAN:TYPE FUCW
	SOUR:DATA:TEL:CPRI:FEC:ERR:MAN:TYPE?
	Returns: FUCW
See Also	SOUR:DATA:TELecom:CPRI:FEC:ERRor:MANual:TYPE
	SOUR:DATA:TELecom:CPRI:FEC:ERRor:AMOunt
	SOUR:DATA:TELecom:CPRI:FEC:ERRor:INJect

:SOURce:DATA:TELecom:CPRI:FEC:ERRor:MANual:TYPE?

Description	This query returns the manual RS-FEC error Defect to be injected for CPRI 24.3G.
	At *RST condition, this value is set to FSERR.
	Navigation Path: Alarms/Errors > Injection > Layer (RS-FEC) > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:FEC:ERRor:MANual:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the FEC error to be injected:
	FCCW: FEC-COR-CW
	FUCW: FEC-UNCOR-CW
	FSERR: Pre-FEC-SYMB
Example(s)	SOUR:DATA:TEL:CPRI:FEC:ERR:MAN:TYPE FSERR
	SOUR:DATA:TEL:CPRI:FEC:ERR:MAN:TYPE?
	Returns: FSERR
See Also	SOUR:DATA:TELecom:CPRI:FEC:ERRor:MANual:TYPE
	SOUR:DATA:TELecom:CPRI:FEC:ERRor:AMOunt
	SOUR:DATA:TELecom:CPRI:FEC:ERRor:INJect

:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated

Description	This command enables/disables the Rate/Max Rate Interface (CPRI) error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated <wsp><Inject>
Parameter(s)	**Inject**: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:CPRI:INT:ERR:AUT ON
See Also	SOURce:DATA:TELecom:CPRI:ERRor:AUTomated

:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:CONTinuous

Description	This command sets the automated Interface (CPRI) error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Mode
Syntax	:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:CONTinuous <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:CPRI:INT:ERR:AUT:CONT ON
See Also	SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:INJect

:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:CONTinuous?

Description	This query returns the automated Interface (CPRI) error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Mode
Syntax	:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:CONTinuous?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:CPRI:INT:ERR:AUT:CONT?
See Also	SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated?

:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:RATE

Description	This command sets the automated Interface (CPRI) error Rate to be injected.
	At *RST condition, this value is set to 1.0E-04.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:RATE <wsp><RATE>
Parameter(s)	RATE:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected. Range is 1.0E-09 to 2.2E-04.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
	DEFault: Default rate
Response Syntax	<Mode>
Example(s)	SOUR:DATa:TEL:CPRI:INT:ERR:AUT:RATE
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFect?

:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:R ATE?

Description	This query returns the automated Interface (CPRI) error Rate to be injected.
	At *RST condition, this value is set to 1.0E-09.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
	DEFault: Default rate
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATa:TEL:CPRI:INT:ERR:AUT:RATE?
See Also	SOURce:DATA:TELecom:CPRI:RTD:TOFFset

:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:TYPE

Description	This command selects the automated Interface (CPRI) error Defect to be injected.
	At *RST condition, this Defect type CV.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:TYPE <wsp><Defect>
Parameter(s)	**Defect**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	CV: Code Violation
	K307: K30.7
	66BBlock: 66B Block
	SYNCHEADER: Sync Header
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:CPRI:INT:ERR:AUT:TYPE CV
See Also	SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:TYPE?

:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:TYPE?

Description	This query returns the automated Interface (CPRI) error Defect to be injected.
	At *RST condition, this Defect type CV.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:TYPE?
Response Syntax	<Defect>
Response(s)	**Defect**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	CV: Code Violation
	K307: K30.7
	66BBLOCK: 66B Block
	SYNCHEADER: Sync Header
Example(s)	SOUR:DATA:TEL:CPRI:INT:ERR:AUT:TYPE CV
	SOUR:DATA:TEL:CPRI:INT:ERR:AUT:TYPE?
	Returns: CV
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFect?

:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate Interface (CPRI) error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated?
Response Syntax	\<Status\>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA\> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:CPRI:INT:ERR:AUT?
See Also	SOURce:DATA:TELecom:CPRI:ERRor:AUTomated?

:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:AMOunt

Description	This command sets the manual Interface (CPRI) error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Status>
Example(s)	SOUR:DATa:TEL:CPRI:INT:ERR:MAN:AMO
See Also	SOURce:DATA:TELecom:CPRI:RTD:TOFFset

:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:AMOunt?

Description	This query returns the manual Interface (CPRI) error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:AMOunt?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATa:TEL:CPRI:INT:ERR:MAN:AMO?
See Also	SOURce:DATA:TELecom:CPRI:RTD:TOFFset?

:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:INJect

Description	This command enables/disables the manual Interface (CPRI) error injection.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:INJect
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:CPRI:INT:ERR:MAN:INJ
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:INJect

:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:TYPE

Description	This command selects the manual Interface (CPRI) error Defect to be injected.
	At *RST condition, this Defect type CV.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:TYPE <wsp><Defect>
Parameter(s)	**Defect**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	CV: Code Violation
	K307: K30.7
	66BBlock: 66B Block
	SYNCHEADER: Sync Header
Response Syntax	<Amount>
Example(s)	SOUR:DATa:TEL:CPRI:INT:ERR:MAN:TYPE CV
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:AMOunt

:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:TYPE ?

Description	This query returns the manual Interface (CPRI) error Defect to be injected.
	At *RST condition, this Defect type CV.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:TYPE?
Response Syntax	<Defect>
Response(s)	**Defect**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	CV: Code Violation
	K307: K30.7
	66BBLOCK: 66B Block
	SYNCHEADER: Sync Header
Example(s)	SOUR:DATa:TEL:CPRI:INT:ERR:MAN:TYPE?
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFect?

:SOURce:DATA:TELecom:CPRI:OBSai:ALARm:DEFect

Description	This command selects the continuous OBSAI alarm Defect to be injected.
	At *RST condition, this defect type is LOF.
	Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:ALARm:DEFect[<wsp><Alarm>]
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	LOF
Response Syntax	<Defect>
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:ALAR:DEF LOF
See Also	SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:RATE

:SOURce:DATA:TELecom:CPRI:OBSai:ALARm:DEFect?

Description	This query returns the continuous OBSAI alarm Defect to be injected.
	At *RST condition, this Defect type LOF.
	Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:ALARm:DEFect?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm to be injected:
	LOF
Example(s)	SOUR:DATa:TEL:CPRI:OBSAI:ALAR:DEF?
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFect?

:SOURce:DATA:TELecom:CPRI:OBSai:ALARm:GENerate

Description	This command enables/disables the continuous OBSAI alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:ALARm:GENerate \<wsp>\<Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a \<BOOLEAN PROGRAM DATA> element.
	SStarts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	\<Alarm>
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:ALAR:GEN ON
See Also	SOURce:DATA:TELecom:CPRI:ALARm:GENerate?

:SOURce:DATA:TELecom:CPRI:OBSai:ALARm:GENerate?

Description	This query returns the enable/disable status of the continuous OBSAI alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:ALARm:GENerate?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:ALAR:GEN ON?
See Also	SOURce:DATA:TELecom:CPRI:ALARm:GENerate ON

:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated

Description	This command enables/disables the Rate/Max Rate OBSAI error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:ERR:AUT ON
See Also	SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated

:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated:CONTinuous

Description	This command sets the automated OBSAI error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Error > Mode
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated:CONTinuous <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:ERR:AUT:CONT ON
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFect?

:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated:CONTinuous?

Description	This query returns the automated OBSAI error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Error > Mode
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated:CONTinuous?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:ERR:AUT:CONT?
See Also	SOURce:DATA:TELecom:CPRI:VERDict:ENABle

:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated:DEFect

Description	This command selects the automated OBSAI error Defect to be injected.
	At *RST condition, this value is set to FAS.
	Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated:DEFect <wsp><Defect>
Parameter(s)	**Defect**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	FAS
Response Syntax	<Set>
Example(s)	SOUR:DATa:TEL:CPRI:ERR:AUT:DEF FAS
See Also	SOURce[1..n]:DATA:TELecom:CPRI:ERRor:MANual:DEFect

:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated:DEFect?

Description	This query returns the automated OBSAI error Defect to be injected.
	At *RST condition, this value is set to FAS.
	Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated:DEFect?
Response Syntax	<Defect>
Response(s)	**Defect**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	FAS
Example(s)	SOUR:DATa:TEL:CPRI:OBSAI:ERR:AUT:DEF?
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFect?

:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated:RATE

Description	This command sets the automated OBSAI error Rate to be injected.
	At *RST condition, this value is set to 1.0E-04.
	Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
	DEFault: Default rate
Response Syntax	<Defect>
Example(s)	SOUR:DATa:TEL:CPRI:OBSAI:ERR:AUT:RATE 1.0E-04
See Also	SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:RATE

:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated:RATE ?

Description	This query returns the automated OBSAI error Rate to be injected.
	At *RST condition, this value is set to 1.0E-07.
	Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
	DEFault: Default rate
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATa:TEL:CPRI:OBSAI:ERR:AUT:RATE?
See Also	SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated:RATE?

:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate OBSAI error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:AUTomated?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:ERR:AUT ON
	SOUR:DATA:TEL:CPRI:OBSAI:ERR:AUT?
See Also	SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated?

:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:MANual:AMOunt

Description	This command sets the manual OBSAI error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:MANual:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Status>
Example(s)	SOUR:DATa:TEL:CPRI:OBSAI:ERR:MAN:AMO 1
See Also	SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:AMOunt

:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:MANual:AMOunt ?

Description	This query returns the manual OBSAI error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:MANual:AMOunt?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATa:TEL:CPRI:OBSAI:ERR:MAN:AMO?
See Also	SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:AMOunt?

:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:MANual:DEFect

Description	This command selects the automated OBSAI error Defect to be injected.
	At *RST condition, this Defect type FAS.
	Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:MANual:DEFect <wsp><Defect>
Parameter(s)	**Defect**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	FAS
Response Syntax	<Amount>
Example(s)	SOUR:DATa:TEL:CPRI:ERR:MAN:DEF FAS
See Also	SOURce[1..n]:DATA:TELecom:CPRI:ALARm:DEFect

:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:MANual:DEFect?

Description	This query returns the automated OBSAI error Defect to be injected.
	At *RST condition, this Defect type FAS.
	Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:MANual:DEFect?
Response Syntax	<Defect>
Response(s)	**Defect**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	FAS
Example(s)	SOUR:DATa:TEL:CPRI:OBSAI:ERR:MAN:DEF?
See Also	SOURce:DATA:TELecom:CPRI:ALARm:DEFect?

:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:MANual:INJect

Description	This command enables/disables the manual OBSAI error injection.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > OBSAI > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:ERRor:MANual:INJect
Response Syntax	<Defect>
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:ERR:MAN:INJect
See Also	SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:INJect

:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:AUTomated

Description	This command enables/disables the Rate/Max Rate Interface (OBSAI) error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:AUTomated <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<Defect>
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:INT:ERR:AUT ON
See Also	SOURce:DATA:TELecom:CPRI:ERRor:AUTomated

:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:AUTomated:CONTinuous

Description	This command sets the automated Interface (OBSAI) error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Mode
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:AUTomated:CONTinuous <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Defect>
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:INT:ERR:AUT:CONT ON
See Also	SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:INJect

:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:AUTomated:CONTinuous?

Description	This query returns the automated Interface (OBSAI) error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Mode
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:AUTomated:CONTinuous?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:INT:ERR:AUT:CONT?
See Also	SOURce:DATA:TELecom:CPRI:INTerface:ERRor:AUTomated?

:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:AUTomated:RATE

Description	This command sets the automated Interface (OBSAI) error Rate to be injected.
	At *RST condition, this value is set to 1.0E-04.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
	DEFault: Default rate
Response Syntax	<Set>
Example(s)	SOUR:DATa:TEL:CPRI:OBSAI:INT:ERR:AUT:RATE
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFect?

:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:AUTomated:RATE?

Description	This query returns the automated Interface (OBSAI) error Rate to be injected.
	At *RST condition, this value is set to 1.0E-09.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
	DEFault: Default rate
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error.
Example(s)	SOUR:DATa:TEL:CPRI:OBSAI:INT:ERR:AUT:RATE?
See Also	SOURce:DATA:TELecom:CPRI:RTD:TOFFset

:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:AUTomated:TYPE

Description	This command selects the automated Interface (OBSAI) error Defect to be injected. At *RST condition, this Defect type CV. Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:AUTomated:TYPE <wsp><Defect>
Parameter(s)	**Defect**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: CV: Code Violation K307: K30.7
Response Syntax	<Rate>
Example(s)	SOUR:DATa:TEL:CPRI:OBSAI:INT:ERR:MAN:TYPE CV
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:AMOunt

:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:AUTomated:TYPE?

Description	This query returns the automated Interface (OBSAI) error Defect to be injected.
	At *RST condition, this Defect type CV.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:AUTomated:TYPE?
Response Syntax	<Defect>
Response(s)	**Defect**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	CV: Code Violation
	K307: K30.7
Example(s)	SOUR:DATa:TEL:CPRI:OBSAI:INT:ERR:MAN:TYPE CV
	SOUR:DATa:TEL:CPRI:OBSAI:INT:ERR:MAN:TYPE?
	Returns: CV
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFect?

:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate Interface (OBSAI) error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:AUTomated?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:INT:ERR:AUT?
See Also	SOURce:DATA:TELecom:CPRI:ERRor:AUTomated?

:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:MANua l:AMOunt

Description	This command sets the manual Interface (OBSAI) error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:MANual:AMOunt[<wsp><Amount>]
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Status>
Example(s)	SOUR:DATa:TEL:CPRI:OBSAI:INT:ERR:MAN:AMO
See Also	SOURce:DATA:TELecom:CPRI:RTD:TOFFset

:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:MANual:AMOunt?

Description	This query returns the manual Interface (OBSAI) error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:MANual:AMOunt?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error.
Example(s)	SOUR:DATa:TEL:CPRI:OBSAI:INT:ERR:MAN:AMO?
See Also	SOURce:DATA:TELecom:CPRI:RTD:TOFFset?

:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:MANual:INJect

Description	This command enables/disables the manual Interface (OBSAI) error injection.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:MANual:INJect
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:CPRI:OBSAI:INT:ERR:MAN:INJ
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:INJect

:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:MANual:TYPE

Description	This command selects the manual Interface (OBSAI) error Defect to be injected.
	At *RST condition, this Defect type CV.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:MANual:TYPE <wsp><Defect>
Parameter(s)	**Defect**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	CV: Code Violation
	K307: K30.7
Response Syntax	<Amount>
Example(s)	SOUR:DATa:TEL:CPRI:OBSAI:INT:ERR:MAN:TYPE CV
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:AMOunt

:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:MANual:TYPE?

Description	This query returns the manual Interface (OBSAI) error Defect to be injected.
	At *RST condition, this Defect type CV.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:CPRI:OBSai:INTerface:ERRor:MANual:TYPE?
Response Syntax	<Defect>
Response(s)	**Defect**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	CV: Code Violation
	K307: K30.7
Example(s)	SOUR:DATa:TEL:CPRI:OBSAI:INT:ERR:MAN:TYPE?
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:DEFect?

:SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]

Description	This command enables/disables the continuous DS1/DS3 alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:DSN:ALARm:DS[1..n] <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<Defect>
Example(s)	SOUR:DATA:TEL:DSN:ALAR:DS1 ON
See Also	SOURce:DATA:TELecom:PDH:ALARm:E[1..n]:TYPE
	SOURce:DATA:TELecom:PDH:ALARm:E[1..n]?

:SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE

Description	This command selects the continuous DS1/DS3 alarm Defect to be injected.
	At *RST condition, this value is set to AIS.
	Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	AIS
	IDLE1: Idle (DS3)
	OOF
	RAI: RAI (DS1)
	RDI: RDI (DS3)
Response Syntax	<Defect>
Example(s)	SOUR:DATA:TEL:DSN:ALAR:DS1:TYPE AIS
See Also	SOURce:DATA:TELecom:PDH:ALARm:E[1..n]:TYPE?

:SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE?

Description	This query returns the continuous DS1/DS3 alarm Defect to be injected.
	At *RST condition, this value is set to AIS.
	Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm to be injected:
	AIS
	IDLE1: Idle (DS3)
	OOF
	RAI: RAI (DS1)
	RDI: RDI (DS3)
Example(s)	SOUR:DATA:TEL:DSN:ALAR:DS1:TYPE AIS
	SOUR:DATA:TEL:DSN:ALAR:DS1:TYPE?
	Returns: AIS
See Also	SOURce:DATA:TELecom:PDH:ALARm:E[1..n]:TYPE

:SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]?

Description	This query returns the enable/disable status of the continuous DS1/DS3 alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status.
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:DSN:ALAR:DS1 ON
	SOUR:DATA:TEL:DSN:ALAR:DS1?
	Returns: 1
See Also	SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE
	SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]

:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AMOunt

Description	This command sets the manual DS1/DS3 error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection >DS1/DS3 > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected. Choices are 1 through 50.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:DSN:ERR:DS1:AMO 15
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AMOunt?

:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AMOunt?

Description	This query returns the manual DS1/DS3 error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AMOunt?[<wsp><Amount>]
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:DSN:ERR:DS1:AMO 15
	SOUR:DATA:TEL:DSN:ERR:DS1:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AMOunt

:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated

Description	This command enables/disables the Rate/Max Rate DS1/DS3 error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:DSN:ERR:DS1:AUT ON
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:TYPE
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:RATE
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated?

:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:CONTinuous

Description	This command selects the automated DS1/DS3 error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Error > Mode
Syntax	:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:CONTinuous <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode: ON for Max Rate and OFF for Rate.
	ON: Enabled
	OFF: Disabled
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:DSN:ERR:DS1:AUT:CONT ON
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:TYPE
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:CONtinuous?

Description	This query returns the automated DS1/DS3 error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Error > Mode
Syntax	:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:CONTinuous?
Response Syntax	\<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:DSN:ERR:DS1:AUT:TYPE CRC6
	SOUR:DATA:TEL:DSN:ERR:DS1:AUT:CONT ON
	SOUR:DATA:TEL:DSN:ERR:DS1:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:TYPE
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:CONTinuous

:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:RATE

Description	This command sets the automated DS1/DS3 error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
	DEFault: Default rate
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:DSN:ERR:DS1:AUT:RATE 1.0E-09
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:TYPE
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:RATE?
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated

:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:RATE?

Description	This query returns the automated DS1/DS3 error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
	DEFault: Default rate
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:DSN:ERR:DS1:AUT:TYPE CRC6
	SOUR:DATA:TEL:DSN:ERR:DS1:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:DSN:ERR:DS1:AUT:RATE?
	Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:TYPE
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:RATE
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated

:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:TYPE

Description	This command selects the automated DS1/DS3 error Defect to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	CBIT: CP-Bit (DS3)
	CRC6: CRC-6 (DS1)
	FBIT: F-Bit (DS3)
	FEBE: FEBE (DS3)
	FRBIT: Framing Bit (DS1)
	OOF
	PBIT: P-Bit (DS3)
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:DSN:ERR:DS1:AUT:TYPE CRC6
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:TYPE?
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:RATE
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated

:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:TYPE?

Description	This query returns the manual DS1/DS3 error Defect to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	CBIT: CP-Bit (DS3)
	CRC6: CRC-6 (DS1)
	FBIT: F-Bit (DS3)
	FEBE: FEBE (DS3)
	FRBIT: Framing Bit (DS1)
	OOF
	PBIT: P-Bit (DS3)
Example(s)	SOUR:DATA:TEL:DSN:ERR:DS1:AUT:TYPE CRC6
	SOUR:DATA:TEL:DSN:ERR:DS1:AUT:TYPE?
	Returns: CRC6
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:TYPE
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:RATE
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated

:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate DS1/DS3 error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AUTomated?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status.
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:DSN:ERR:DS1:AUT:TYPE CRC6
	SOUR:DATA:TEL:DSN:ERR:DS1:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:DSN:ERR:DS1:AUT ON
	SOUR:DATA:TEL:DSN:ERR:DS1:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:TYPE
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:RATE
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated

:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:INJect

Description	This command enables/disables the manual DS1/DS3 error injection.
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:INJect
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:DSN:ERR:DS1:MAN:TYPE CRC6
	SOUR:DATA:TEL:DSN:ERR:DS1:AMO 15
	SOUR:DATA:TEL:DSN:ERR:DS1:INJ
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:AMOunt

:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:MANual:TYPE

Description	This command selects the manual DS1/DS3 error Defect to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	CBIT: CP-Bit (DS3)
	CRC6: CRC-6 (DS1)
	FBIT: F-Bit (DS3)
	FEBE: FEBE (DS3)
	FRBIT: Framing Bit (DS1)
	OOF
	PBIT: P-Bit (DS3)
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:DSN:ERR:DS1:MAN:TYPE CRC6
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:MANual:TYPE?

:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:MANual:TYPE?

Description	This query returns the manual _ error Defect to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > DS1/DS3 > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:MANual:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected.
	CBIT: CP-Bit (DS3)
	CRC6: CRC-6 (DS1)
	FBIT: F-Bit (DS3)
	FEBE: FEBE (DS3)
	FRBIT: Framing Bit (DS1)
	OOF
	PBIT: P-Bit (DS3)
Example(s)	SOUR:DATA:TEL:DSN:ERR:DS1:MAN:TYPE CRC6
	SOUR:DATA:TEL:DSN:ERR:DS1:MAN:TYPE?
	Returns: CRC6
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS[1..n]:MANual:TYPE

:SOURce:DATA:TELecom:ELECtrical:ALARm:PORT

Description	This command enables/disables the continuous electrical Interface alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:ELECtrical:ALARm:PORT <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enabled
	OFF: Disabed
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:ELEC:ALAR:PORT ON
	SOUR:DATA:TEL:ELEC:ALAR:PORT?
	Returns: 1
See Also	SOURce:DATA:TELecom:ELECtrical:ALARm:PORT:TYPE?

:SOURce:DATA:TELecom:ELECtrical:ALARm:PORT:TYPE?

Description	This query returns the continuous Interface (Electrical) alarm Defect to be injected.
	At *RST condition, this value is set to LOS.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:ELECtrical:ALARm:PORT:TYPE?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm to be injected:
	LOS
Example(s)	SOUR:DATA:TEL:ELEC:ALAR:PORT:TYPE?
	Returns: LOS
See Also	SOURce:DATA:TELecom:OPTical:ALARm:PORT?

:SOURce:DATA:TELecom:ELECtrical:ALARm:PORT?

Description	This query returns the enable/disable status of the continuous electrical Interface alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:ELECtrical:ALARm:PORT?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status.
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ELEC:ALAR:PORT ON
	SOUR:DATA:TEL:ELEC:ALAR:PORT?
	Returns: 1
See Also	SOURce:DATA:TELecom:ELECtrical:ALARm:PORT:TYPE?

:SOURce:DATA:TELecom:ELECtrical:ERRor:AMOunt

Description	This command sets the manual Interface (Electrical) error Amount to be injected.
	At *RST condition, this value is set to MINimum.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:ELECtrical:ERRor:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected. Choices are 1 through 50.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ELEC:ERR:MAN:TYPE BPV
	SOUR:DATA:TEL:ELEC:ERR:AMO 15
	SOUR:DATA:TEL:ELEC:ERR:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOunt?

:SOURce:DATA:TELecom:ELECtrical:ERRor:AMOunt?

Description	This query returns the manual Interface (Electrical) error Amount to be injected.
	At *RST condition, this value is set to MINimum.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:ELECtrical:ERRor:AMOunt?[<wsp><Error>]
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error.
Example(s)	SOUR:DATA:TEL:ELEC:ERR:MAN:TYPE BPV
	SOUR:DATA:TEL:ELEC:ERR:AMO 15
	SOUR:DATA:TEL:ELEC:ERR:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOunt

:SOURce:DATA:TELecom:ELECtrical:ERRor:AUTomated

Description	This command enables/disables the Rate/Max Rate Interface (Electrical) error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:ELECtrical:ERRor:AUTomated <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:ELEC:ERR:AUT:TYPE BPV
	SOUR:DATA:TEL:ELEC:ERR:AUT ON
	SOUR:DATA:TEL:ELEC:ERR:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:TYPE
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:RATE
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated?

:SOURce:DATA:TELecom:ELECtrical:ERRor:AUTomated:RATE

Description	TThis command sets the automated Interface (Electrical) error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:ELECtrical:ERRor:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:ELEC:ERR:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:ELEC:ERR:AUT:RATE?
	Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:TYPE
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:RATE?
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated

:SOURce:DATA:TELecom:ELECtrical:ERRor:AUTomated:RATE?

Description	This query returns the automated Interface (Electrical) error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:ELECtrical:ERRor:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error.
Example(s)	SOUR:DATA:TEL:ELEC:ERR:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:ELEC:ERR:AUT:RATE?
	Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:TYPE
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:RATE
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated

:SOURce:DATA:TELecom:ELECtrical:ERRor:AUTomated:TYPE

Description	This command selects the automated Interface (Electrical) error Defect to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:ELECtrical:ERRor:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	BPV
	EXZ
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:ELEC:ERR:AUT:TYPE BPV
	SOUR:DATA:TEL:ELEC:ERR:AUT:TYPE?
	Returns: BPV
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:TYPE?
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:RATE
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated

:SOURce:DATA:TELecom:ELECtrical:ERRor:AUTomated:TYPE?

Description	This query returns the automated Interface (Electrical) error Defect to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:ELECtrical:ERRor:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	BPV
	EXZ
Example(s)	SOUR:DATA:TEL:ELEC:ERR:AUT:TYPE BPV
	SOUR:DATA:TEL:ELEC:ERR:AUT:TYPE?
	Returns: BPV
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:TYPE
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:RATE
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated

:SOURce:DATA:TELecom:ELECtrical:ERRor:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate Interface (Electrical) error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:ELECtrical:ERRor:AUTomated?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ELEC:ERR:AUT:TYPE BPV
	SOUR:DATA:TEL:ELEC:ERR:AUT ON
	SOUR:DATA:TEL:ELEC:ERR:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:TYPE
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated:RATE
	SOURce:DATA:TELecom:DSN:ERRor:DS1:AUTomated

:SOURce:DATA:TELecom:ELECtrical:ERRor:INJect

Description	This command enables/disables the manual Interface (Electrical) error injection.
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:ELECtrical:ERRor:INJect
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:ELEC:ERR:MAN:TYPE BPV
	SOUR:DATA:TEL:ELEC:ERR:AMO 15
	SOUR:DATA:TEL:ELEC:ERR:INJ
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOunt

:SOURce:DATA:TELecom:ELECtrical:ERRor:MANual:TYPE

Description	This command selects the manual Interface (Electrical) error Defect to be injected.
	At *RST condition, this value is set to BPV.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:ELECtrical:ERRor:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	BPV
	EXZ
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:ELEC:ERR:MAN:TYPE BPV
	SOUR:DATA:TEL:ELEC:ERR:MAN:TYPE?
	Returns: BPV
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE?

:SOURce:DATA:TELecom:ELECtrical:ERRor:MANual:TYPE?

Description	This query returns the manual Interface (Electrical) error Defect to be injected.
	At *RST condition, this value is set to BPV.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:ELECtrical:ERRor:MANual:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	BPV
	EXZ
Example(s)	SOUR:DATA:TEL:ELEC:ERR:MAN:TYPE BPV
	SOUR:DATA:TEL:ELEC:ERR:MAN:TYPE?
	Returns: BPV
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:ALANes

Description	This command enables/disables the selection of all lanes for transcoding error injection purposes.
	At *RST condition, the value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Transcoding > All Lanes
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:ALANes <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables the selection of all lanes.
	ON: Selects all lanes
	OFF: Unselects all lanes
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:ALAN ON
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:LANE

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:ALANes?

Description	This query returns the enable/disable selection status of all lanes for transcoding error injection purposes.
	At *RST condition, the value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (Transcoding) > All Lanes
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:ALANes?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable selection status of all lanes.
	1: All lanes are enabled.
	0: None or not all lanes are enabled.
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:ALAN?
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:LANE?

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated

Description	This command enables/disables the Rate/Max Rate Transcoding (per Lane) error injection.
	At *RST condition, the value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:AUT ON
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:CONTinuous

Description	This command sets the automated Transcoding (per Lane) error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, the value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Mode
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:CONTinuous <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:AUT:CONT ON
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:CONTinuous

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:CONTinuous?

Description	This query returns the automated Transcoding (per Lane) error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, the value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Mode
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:CONTinuous?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:AUT:CONT?
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:RATE

Description	This command sets the automated Transcoding (per Lane) error Rate to be injected.
	At *RST condition, the value is set to 1.0E-04.
	Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:AUT:RATE 1.0E-09
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:RATE

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:RATE?

Description	This query returns the automated Transcoding (per Lane) error Rate to be injected.
	At *RST condition, the value is set to 1.0E-04.
	Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:AUT:RATE?
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:RATE?

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:TYPE

Description	This command selects the automated Transcoding (per Lane) error Defect to be injected.
	At *RST condition, the value is set to Invalid Flag.
	Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	OTNBIP8: OTN BIP-8
	PCSBIP8MASK: PCS BIP-8 Mask
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:AUT:TYPE OTNBIP8
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:TYPE

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:TYPE?

Description	This query returns the automated Transcoding (per Lane) error Defect to be injected.
	At *RST condition, the value is set to Invalid Flag.
	Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	OTNBIP8: OTN BIP-8
	PCSBIP8MASK: PCS BIP-8 Mask
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:AUT:TYPE OTNBIP8
	SOUR:DATA:TEL:EOTN:TRAN:ERR:AUT:TYPE? Returns: OTNBIP8
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:TYPE?

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate Transcoding (per Lane) error injection.
	At *RST condition, the value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of EOTN automated error generation.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:AUT?
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated?

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated

Description	This command enables/disables the Rate/Max Rate Transcoding (global) error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:GLOB:AUT ON
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:CONTinuous

Description	This command sets the automated Transcoding (global) error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Mode
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:CONTinuous <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:GLOB:AUT:CONT ON
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:CONTinuous

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:CONTinuous?

Description	This query returns the automated Transcoding (global) error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Mode
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:CONTinuous?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:GLOB:AUT:CONT?
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:RATE

Description	This command sets the automated Transcoding (global) error Rate to be injected.
	At *RST condition, the value is set to 1.0E-04.
	Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:GLOB:AUT:RATE 1.0E-09
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:RATE

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:RATE?

Description	This query returns the automated Transcoding (global) error Rate to be injected.
	At *RST condition, the value is set to 1.0E-04.
	Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	Rate:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Rate>
Response(s)	Rate:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:GLOB:AUT:RATE?
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:RATE?

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:TYPE

Description	This command selects the automated Transcoding (global) error Defect to be injected.
	At *RST condition, the value is set to Inv. Flag.
	Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	INVALFLAG: Inv. Flag
	MSEQV
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:GLOB:AUT:TYPE MSEQV
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:TYPE

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:TYPE?

Description	This query returns the automated Transcoding (global) error Defect to be injected.
	At *RST condition, the value is set to Inv. Flag.
	Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	INVALFLAG: Inv. Flag
	MSEQV
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:GLOB:AUT:TYPE?
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated:TYPE?

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate Transcoding (global) error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:AUTomated?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:GLOB:AUT?
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:AUTomated?

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:MANual:AMOunt

Description	This command sets the manual Transcoding (global) error Amount to be injected.
	At *RST condition, the value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:MANual:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:GLOB:MAN:AMO 25
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:MANual:AMOunt

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:MANual:AMOunt?

Description	This query returns the manual Transcoding (global) error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:MANual:AMOunt?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:GLOB:MAN:AMO?
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:MANual:AMOunt?

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:MANual:INJect

Description	This command enables/disables the manual Transcoding (global) error injection.
	This command is not associated with any *RST condition.
	Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:MANual:INJect
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:GLOB:MAN:INJ
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:MANual:INJect

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:MANual:TYPE

Description	This command selects the manual Transcoding (global) error Defect to be injected.
	At *RST condition, the value is set to Inv. Flag.
	Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	INVALFLAG: Inv. Flag
	MSEQV
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:GLOB:MAN:TYPE MSEQV
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:MANual:TYPE

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:MA Nual:TYPE?

Description	This query returns the manual Transcoding (global) error Defect to be injected.
	At *RST condition, the value is set to Inv. Flag.
	Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:MANual:TYPE?
Response Syntax	\<Error\>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA\> element.
	Returns the error to be injected:
	INVALFLAG: Inv. Flag
	MSEQV
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:GLOB:MAN:TYPE?
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:MANual:TYPE?

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:LANE

Description	This command enables/disables the selection of a lane for Transcoding error injection purposes.
	At *RST condition, the value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (Transcoding) > Lane
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:LANE <wsp><Lane>, <Set>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selets the lane number.
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables a lane.
	ON: Enables the particular lane.
	OFF: Disables the particular lane.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:LANE 1, ON
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:ALANes

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:LANE?

Description	This query returns the enables/disables selection stutus of a lane for Transcoding error injection purposes.
	At *RST condition, the value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (Transcoding) > Lane
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:LANE? <wsp><Lane>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects a lane number.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable selection status of a particular lane.
	1: Particular lane is enabled.
	0: Particular lane is disabled.
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:LANE? 1
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:ALANes?

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:MANual:AMOunt

Description	This command sets the manual Transcoding (per Lane) error Amount to be injected.
	At *RST condition, the value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:MANual:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:MAN:AMO 25
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:MANual:AMOunt

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:MANual:AMOunt?

Description	This query returns the manual Transcoding (per Lane) error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:MANual:AMOunt?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:MAN:AMO?
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:MANual:AMOunt?

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:MANual:IN Ject

Description	This command enables/disables the manual Transcoding (per Lane) error injection. This is an event and not associated with any *RST condition. Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:MANual:INJect
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:MAN:INJ
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:MANual:INJect

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:MANual:TYPE

Description	This command selects the automated Transcoding (per Lane) error Defect to be injected.
	At *RST condition, the value is set to Invalid Flag.
	Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	OTNBIP8: OTN BIP-8
	PCSBIP8MASK: PCS BIP-8 Mask
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:MAN:TYPE PCSBIP8MASK
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:MANual:TYPE

:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:MANual:TYPE?

Description	This query returns the automated Transcoding (per Lane) error Defect to be injected.
	At *RST condition, the value is set to Invalid Flag.
	Navigation Path: Results > Alarms/Errors > Injection > Transcoding > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:MANual:TYPE?
Response Syntax	\<Error\>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA\> element.
	Returns the error to be injected:
	OTNBIP8: OTN BIP-8
	PCSBIP8MASK: PCS BIP-8 Mask
Example(s)	SOUR:DATA:TEL:EOTN:TRAN:ERR:MAN:TYPE?
See Also	SOURce:DATA:TELecom:EOTN:TRANscode:ERRor:GLOBal:MANual:TYPE?

:SOURce:DATA:TELecom:ETHernet:ALARm:LRATe

Description	This command enables/disables the continuous Ethernet alarm injection (rates up to 25G or FlexE client).
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Alarm > Continuous > Inject
	Navigation Path: Results > Alarms/Errors > Injection > FLexE - Client > Ethernet > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:ALARm:LRATe <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON, Enables alarm generation.
	OFF, Disables alarm generation.
Response Syntax	<Error>
Example(s)	SOURce:DATA:TELecom:ETHernet:ALARm:LRATe:TYPE LDOWN
	SOURce:DATA:TELecom:ETHernet:ALARm:LRATe ON
	SOURce:DATA:TELecom:ETHernet:ALARm:LRATe?
	Return: 1
See Also	SOURce:DATA:TELecom:ETHernet:ALARm:LRATe:TYPE

:SOURce:DATA:TELecom:ETHernet:ALARm:LRATe:TYPE

Description	This command selects the continuous alarm Defect to be injected (rates up to 25G or FlexE client).
	*RST condition, Value is set to LDOWN.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Alarm > Continuous > Defect
	Navigation Path: Results > Alarms/Errors > Injection > FLexE - Client > Ethernet > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ALARm:LRATe:TYPE <wsp><Alarm Type>
Parameter(s)	**Alarm Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	LDOWn: Link Down
	LFAult: Local Fault
	RFAult: Remote Fault
Response Syntax	<Error>
Example(s)	SOURce:DATA:TELecom:ETHernet:ALARm:LRATe:TYPE LDOWN
	SOURce:DATA:TELecom:ETHernet:ALARm:LRATe:TYPE?
	Returns: LDOWN
See Also	SOURce:DATA:TELecom:ETHernet:ALARm:LRATe

:SOURce:DATA:TELecom:ETHernet:ALARm:LRATe:TYPE?

Description	This query returns the continuous alarm Defect to be injected (rates up to 25G or FlexE client).
	*RST condition, Value is set to LDOWN.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Alarm > Continuous > Defect
	Navigation Path: Results > Alarms/Errors > Injection > FLexE - Client > Ethernet > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ALARm:LRATe:TYPE?
Response Syntax	<Alarm type>
Response(s)	**Alarm type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm to be injected:
	LDOWn: Link Down
	LFAult: Local Fault
	RFAult: Remote Fault
Example(s)	SOURce:DATA:TELecom:ETHernet:ALARm:LRATe:TYPE LDOWN
	SOURce:DATA:TELecom:ETHernet:ALARm:LRATe:TYPE?
	Returns: LDOWN
See Also	SOURce:DATA:TELecom:ETHernet:ALARm:LRATe?

:SOURce:DATA:TELecom:ETHernet:ALARm:LRATe?

Description	This query returns the enable/disable status of the continuous Ethernet alarm injection (rates up to 25G or FlexE client).
	This query is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Alarm > Continuous > Inject
	Navigation Path: Results > Alarms/Errors > Injection > FLexE - Client > Ethernet > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:ALARm:LRATe?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status.
	1, Alarm generation is enabled.
	0, Alarm generation is disabled.
Example(s)	SOURce:DATA:TELecom:ETHernet:ALARm:LRATe:TYPE LDOWN
	SOURce:DATA:TELecom:ETHernet:ALARm:LRATe ON
	SOURce:DATA:TELecom:ETHernet:ALARm:LRATe?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ALARm:LRATe:TYPE?

:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical

Description	This command enables/disables the continuous Ethernet (40G and up) alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:ALAR:PHYS ON
	SOUR:DATA:TEL:ETH:ALAR:PHYS?
	Returns: 1
See Also	SOURce:DATA:TELecom:OPTical:ALARm:PORT:AUTomated
	SOURce:DATA:TELecom:OPTical:ALARm:PORT:AUTomated?

:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical:TYPE

Description	This command selects the continuous Ethernet (40G and up) alarm Defect to be injected.
	At *RST condition, this value is set to LDOWn.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	LDOWn: Link Down
	LFAult: Local Fault
	RFAult: Remote Fault
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:ALAR:PHYS:TYPE LFA
	SOUR:DATA:TEL:ETH:ALAR:PHYS:TYPE?
	Returns: LFAULT
See Also	SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical:TYPE?

:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical:TYPE?

Description	This query returns the continuous Ethernet (40G and up) alarm Defect to be injected.
	At *RST condition, this value is set to LDOWn.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical:TYPE?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm to be injected:
	LDOWn: Link Down
	LFAult: Local Fault
	RFAult: Remote Fault
Example(s)	SOUR:DATA:TEL:ETH:ALAR:PHYS:TYPE LFA
	SOUR:DATA:TEL:ETH:ALAR:PHYS:TYPE?
	Returns: LFAULT
See Also	SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical:TYPE

:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical?

Description	This query returns the enable/disable status of the continuous Ethernet (40G and up) alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status.
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:ALAR:PHYS OFF
	SOUR:DATA:TEL:ETH:ALAR:PHYS?
	Returns: 0
See Also	SOURce:DATA:TELecom:OPTical:ALARm:PORT:AUTomated
	SOURce:DATA:TELecom:OPTical:ALARm:PORT:AUTomated?

:SOURce:DATA:TELecom:ETHernet:ALARm:THReshold

Description	This command sets the Alarm Threshold value.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > PCS Lanes > PCS Lanes > Skew Alarm Threshold
	Navigation Path: Results > Alarms/Errors > RS-FEC > Skew Alarm Threshold
	Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Skew Alarm Threshold
Syntax	:SOURce:DATA:TELecom:ETHernet:ALARm:THReshold <wsp><Threshold>
Parameter(s)	**Threshold**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets Skew Alarm Threshold.
	MAXimum
	MINimum
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:ETH:ALAR:THR 20
See Also	SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane:TX

:SOURce:DATA:TELecom:ETHernet:ALARm:THReshold:DEFault

Description	This command resets the Alarm Threshold value to its default value.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > PCS Lanes > PCS Lanes > Skew Alarm Threshold Default (button)
	Navigation Path: Results > Alarms/Errors > RS-FEC > Skew Alarm Threshold Default (button)
	Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Skew Alarm Threshold Default (button)
Syntax	:SOURce:DATA:TELecom:ETHernet:ALARm:THReshold:DEFault
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:ETH:ALAR:THR:DEF
See Also	SOURce:DATA:TELecom:ETHernet:ALARm:THReshold

:SOURce:DATA:TELecom:ETHernet:ALARm:THReshold?

Description	This query returns the Alarm Threshold value.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > PCS Lanes > PCS Lanes > Skew Alarm Threshold
	Navigation Path: Results > Alarms/Errors > RS-FEC > Skew Alarm Threshold
	Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Skew Alarm Threshold
Syntax	:SOURce:DATA:TELecom:ETHernet:ALARm:THReshold?[<wsp><Threshold>]
Parameter(s)	**Threshold**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Return the skew alarm threshold.
	MAXimum
	MINimum
Response Syntax	<Skew Alarm Threshold>
Response(s)	**Skew Alarm Threshold**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Skew Alarm Threshold.
Example(s)	SOUR:DATA:TEL:ETH:ALAR:THR 20
	SOUR:DATA:TEL:ETH:ALAR:THR?
	Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane:TX?

:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AMOunt

Description	This command sets the manual Ethernet/PCS error Amount to be injected (rates up to 25G or FlexE client).
	At *RST condition, this value is set to MINimum.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet/PCS > Error > Manual > Amount
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AMOunt <wsp><Amount>
Parameter(s)	Amount:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected.
	MAXimum: Biggest supported amount
	MINimum: Smallest supported amount
	DEFault: Default amount
Response Syntax	<Skew Alarm Threshold>
Example(s)	SOUR:DATA:TEL:ETH:ERR:LRATe:AMO 50
	SOUR:DATA:TEL:ETH:ERR:LRATe:AMO?
	Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt?
	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:INJect

:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AMOunt?

Description	This query returns the manual Ethernet/PCS error Amount to be injected (rates up to 25G or FlexE client).
	At *RST condition, this value is set to MINimum.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet/PCS > Error > Manual > Amount
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AMOunt?[<wsp><Amount>]
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:ETH:ERR:LRATe:AMO 50
	SOUR:DATA:TEL:ETH:ERR:LRATe:AMO?
	Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:TYPE?
	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt
	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:INJect

:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated

Description	This command enables/disables the Rate/Max Rate Ethernet/PCS error injection (rates up to 25G or FlexE client).
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet/PCS > Error > Rate/Max Rate > Inject
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON,Enables the Atomated error type.
	OFF,Disables the Atomated error type.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:ETH:ERR:LRATe:AUT ON
	SOUR:DATA:TEL:ETH:ERR:LRATe:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:CONTinuous

:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated: CONTinuous

Description	This command sets the automated Ethernet/PCS error Mode (rates up to 25G or FlexE client): ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet/PCS > Error > Mode
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated:CONTinuous <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode: ON for Max Rate and OFF for Rate.
	ON,Enables the continuous rate.
	OFF,Disables the continuous rate.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:ETH:ERR:LRATe:AUT:CONT OFF
	SOUR:DATA:TEL:ETH:ERR:LRATe:AUT:CONT?
	Returns: 0
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:RATE?

:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated: CONTinuous?

Description	This query returns the automated Ethernet/PCS error Mode (rates up to 25G or FlexE client): ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet/PCS > Error > Mode
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated:CONTinuous?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode: ON for Max Rate and OFF for Rate.
	1, Continuous rate is enabled.
	0, Continuous rate is disabled.
Example(s)	SOUR:DATA:TEL:ETH:ERR:LRATe:AUT:CONT ON
	SOUR:DATA:TEL:ETH:ERR:LRATe:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated

:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated: RATE

Description	This command sets the automated Ethernet/PCS error Rate to be injected (rates up to 25G or FlexE client).
	At *RST condition, this value is set to 1.0E-04.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet/PCS > Error > Rate > Rate
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
	DEFault: Default value
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:ERR:LRATe:AUT:RATE MIN
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt

:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated: RATE?

Description	This query returns the automated Eternet/PCS error Rate to be injected (rates up to 25G or FlexE client).
	At *RST condition, this value is set to 1.0E-04.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet/PCS > Error > Rate > Rate
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:ETH:ERR:LRATe:AUT:RATE?
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt?

:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated: TYPE

Description	This command selects the automated Ethernet/PCS error Defect to be injected (rates up to 25G or FlexE client).
	At *RST condition, this value is set to FCS.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet/PCS > Error > Rate/Max Rate > Defect
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	BLOCk: Block
	SYMBol: Symbol
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:ETH:ERR:LRATe:AUT:TYPE SYMBOL
	SOUR:DATA:TEL:ETH:ERR:LRATe:AUT:TYPE?
	Returns: SYMBOL
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:MANual:TYPE?

:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated: TYPE?

Description	This query returns the automated Ethernet/PCS error Defect to be injected (rates up to 25G or FlexE client).
	At *RST condition, this value is set to FCS.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet/PCS > Error > Rate/Max Rate > Defect
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	BLOCk: Block
	SYMBol: Symbol
Example(s)	SOUR:DATA:TEL:ETH:ERR:LRATe:AUT:TYPE SYMBOL
	SOUR:DATA:TEL:ETH:ERR:LRATe:AUT:TYPE?
	Returns: SYMBOL
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:MANual:TYPE?

:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate Ethernet/PCS error injection (rates up to 25G or FlexE client).
	This query is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet/PCS > Error > Rate/Max Rate > Inject
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:AUTomated?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status.
	1, Automated error type is Enabled.
	0, Automated error type is Disabled.
Example(s)	SOUR:DATA:TEL:ETH:ERR:LRATe:AUT ON
	SOUR:DATA:TEL:ETH:ERR:LRATe:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:INJect

Description	This command enables/disables the manual Ethernet/PCS error injection (rates up to 25G or FlexE client).
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet/PCS > Error > Manual > Inject
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:INJect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:ERR:LRATe:INJ
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:TYPE?
	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt

:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:MANual:TYPE

Description	This command selects the manual Ethernet/PCS error Defect to be injected (rates up to 25G or FlexE client).
	At *RST condition, this value is set to FCS.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet/PCS > Error > Manual > Defect
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	BLOCk: Block
	SYMBol: Symbol
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:ERR:LRATe:MAN:TYPE SYMBOL
	SOUR:DATA:TEL:ETH:ERR:LRATe:MAN:TYPE?
	Returns: SYMBOL
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt
	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:INJect

:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:MANual:TYPE?

Description	This query returns the manual Ethernet/PCS error Defect to be injected (rates up to 25G or FlexE client).
	At *RST condition, this value is set to FCS.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet/PCS > Error > Manual > Defect
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:MANual:TYPE?
Response Syntax	\<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	BLOCk: Block
	SYMBol: Symbol
Example(s)	SOUR:DATA:TEL:ETH:ERR:LRATe:MAN:TYPE SYMBOL
	SOUR:DATA:TEL:ETH:ERR:LRATe:MAN:TYPE?
	Returns: SYMBOL
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt
	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:INJect

:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt

Description	This command sets the manual Ethernet error Amount to be injected.
	At *RST condition, this value is set to MINimum.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Error > Amount
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Amount
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:AMO 50
	SOUR:DATA:TEL:ETH:ERR:MAC:AMO?
	Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt?
	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:INJect

:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt?

Description	This query returns the manual Ethernet error Amount to be injected.
	At *RST condition, this value is set to MINimum.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Error > Amount
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Amount
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt?[<wsp><Amount>]
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:AMO 50
	SOUR:DATA:TEL:ETH:ERR:MAC:AMO?
	Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:TYPE?
	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt
	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:INJect

:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated

Description	This command enables/disables the Rate/Max Rate Ethernet error injection.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Error > Rate/Max Rate > Inject
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enabled
	OFF: Disabled
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:AUT OFF
	SOUR:DATA:TEL:ETH:ERR:MAC:AUT?
	Returns: 0
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:CONTinuous

:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:CONTinuous

Description	This command sets the automated Ethernet error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Error > Mode
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:CONTinuous <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode: ON for Max Rate and OFF for Rate.
	ON: Enabled
	OFF: Disabled
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:AUT:CONT OFF
	SOUR:DATA:TEL:ETH:ERR:MAC:AUT:CONT?
	Returns: 0
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:RATE?

:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:CONTinuous?

Description	This query returns the automated Ethernet error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Error > Rate/Max Rate > Inject
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:CONTinuous?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode: ON for Max Rate and OFF for Rate.
	1, Returns the status of continuous rate as ON.
	0, Returns the status of continuous rate as OFF.
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:AUT:CONT ON
	SOUR:DATA:TEL:ETH:ERR:MAC:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated

:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:RATE

Description	This command sets the automated Ethernet error Rate to be injected.
	At *RST condition, this value is set to 1.0E-04.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Error > Rate > Rate
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
	DEFault: Default rate
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:AUT:RATE MIN
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt

:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:RATE?

Description	This query returns the automated Ethernet error Rate to be injected.
	At *RST condition, this value is set to 1.0E-04.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Error > Rate > Rate
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
	DEFault: Default rate
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:AUT:RATE?
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt?

:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:TYPE

Description	This command selects the automated Ethernet error Defect to be injected.
	At *RST condition, this value is set to FCS.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Error > Rate/Max Rate > Defect
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:TYPE <wsp><Defect>
Parameter(s)	**Defect**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	FCS
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:AUT:TYPE FCS
	SOUR:DATA:TEL:ETH:ERR:MAC:AUT:TYPE?
	Returns: FCS
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:TYPE?

:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:TYPE?

Description	This query returns the automated Ethernet error Defect to be injected.
	At *RST condition, this value is set to FCS.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Error > Rate/Max Rate > Defect
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	FCS
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:AUT:TYPE?
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:MANual:TYPE?

:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate Ethernet error injection.
	This query is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Error > Rate/Max Rate > Inject
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated?
Response Syntax	\<Set\>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA\> element.
	Returns the enable/disable injection status.
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:AUT ON
	SOUR:DATA:TEL:ETH:ERR:MAC:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:INJect

Description	This command enables/disables the manual Ethernet error injection.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Error > Inject
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:INJect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:INJ
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:TYPE?
	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt

:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:MANual:TYPE

Description	This command selects the manual Ethernet error Defect to be injected.
	At *RST condition, this value is set to FCS.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Error > Defect
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	FCS
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:MAN:TYPE?
	Returns: FCS
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt
	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:INJect

:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:MANual:TYPE ?

Description	This query returns the manual Ethernet error Defect to be injected.
	At *RST condition, this value is set to FCS.
	Navigation Path: Results > Alarms/Errors > Injection > Ethernet > Error > Defect
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > Ethernet > Error > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:MANual:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	FCS
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:MAN:TYPE?
	Returns: FCS
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt
	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:INJect

:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:OVERsize

Description	This command allows monitoring of the Oversize frame errors.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Ethernet > Oversized Monitoring
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:OVERsize <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Allows monitoring of the Oversize frame errors.
	ON, sets the oversize frame error to ON.
	OFF, sets the oversize frame error to OFF.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:OVER ON
	SOUR:DATA:TEL:ETH:ERR:MAC:OVER?
	Returns: 1
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:MAC:CURRent?

:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:OVERsize?

Description	This query returns the status of the monitoring of the Oversize frame errors.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Ethernet > Oversized Monitoring
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:MAC:OVERsize?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the monitoring of Oversize frame errors.
	1, oversize frame error is ON.
	0, oversize frame error is OFF.
Example(s)	SOUR:DATA:TEL:ETH:ERR:MAC:OVER ON
	SOUR:DATA:TEL:ETH:ERR:MAC:OVER?
	Returns: 1
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:MAC:CURRent?

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:ALANes

Description	This command enables/disables the selection of all lanes for PCS error injection purposes.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > PCS > All Lanes
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > All Lanes
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:ALANes <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables the selection of all lanes.
	ON: Selects all lanes
	OFF: Unselects all lanes
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:ALAN ON
	SOUR:DATA:TEL:ETH:ERR:PHYS:ALAN?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:LANE?

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:ALANes?

Description	This query returns the enable/disable selection status of all lanes for PCS error injection purposes.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > PCS > All Lanes
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > All Lanes
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:ALANes?
Response Syntax	<Lane>
Response(s)	**Lane**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable selection status of all lanes.
	1: All lanes are enabled.
	0: None or not all lanes are enabled.
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:ALAN ON
	SOUR:DATA:TEL:ETH:ERR:PHYS:ALAN?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:LANE

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt

Description	This command sets the amount of physical error to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Global Injection > Layer (PCS/FEC/RS-FEC) > Amount
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected.
	DEFault: Default amount of physical error
	MAXimum: Grestest supported amount
	MINimum: Smalles supported amount
Response Syntax	<Lane>
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:AMO 50
	SOUR:DATA:TEL:ETH:ERR:PHYS:AMO?
	Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE?
	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt?
	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:INJect

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt?

Description	This query returns the manual Ethernet / PCS/ RS-FEC Lanes error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > PCS > Error > Manual > Amount
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt?[<wsp><Amount>]
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:AMO 50
	SOUR:DATA:TEL:ETH:ERR:PHYS:AMO?
	Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE
	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt
	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:INJect

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated

Description	This command enables/disables the Rate/Max Rate Ethernet / PCS / RS-FEC Lanes error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > PCS > Error > Rate/Max Rate > Inject
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated \<wsp>\<Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a \<CHARACTER PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	\<Amount>
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:AUT OFF
	SOUR:DATA:TEL:ETH:ERR:PHYS:AUT?
	Returns: 0
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:CONTinuous

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:CONTinuous

Description	This command sets the automated Ethernet / PCS / RS-FEC Lanes error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > PCS > Error > Mode
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:CONTinuous <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:AUT:CONT OFF
	SOUR:DATA:TEL:ETH:ERR:PHYS:AUT:CONT?
	Returns: 0
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:CONTinuous?

Description	This query returns the automated Ethernet / PCS / RS-FEC Lanes error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > PCS > Error > Mode
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:CONTinuous?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:AUT:CONT ON
	SOUR:DATA:TEL:ETH:ERR:PHYS:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated?

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:RATE

Description	This command sets the automated Ethernet / PCS / RS-FEC Lanes error Rate to be injected.
	At *RST condition, this value is set to 1.0E-04.
	Navigation Path: Results > Alarms/Errors > Injection > PCS > Error > Rate > Rate
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
	DEFault: Default rate
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:AUT:RATE MIN
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:RATE?

Description	This query returns the automated Ethernet / PCS / RS-FEC Lanes error Rate to be injected.
	At *RST condition, this value is set to 1.0E-02.
	Navigation Path: Results > Alarms/Errors > Injection > PCS > Error > Rate > Rate
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest rate
	MINimum: Smallest rate
	DEFault: Default rate
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:AUT:RATE?
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt?

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:TYPE

Description	This command selects the automated Ethernet / PCS / RS-FEC Lanes error Defect to be injected.
	At *RST condition, this value is set to Invalid Marker.
	Navigation Path: Results > Alarms/Errors > Injection > PCS > Error > Rate/Max Rate > Defect
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	SSelects the error to be injected:
	BIP8: PCS BIP-8
	BLOCk: Block or 66B Block for 40G/100G/400G
	FCCW: FEC-COR-CW
	FSERR: FEC-SYMB
	FUCW: FEC-UNCOR-CW
	INVALIDMARKER: Inv. Marker
	ICWM: Invalid Codeword Marker
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:AUT:TYPE BLOCK
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:TYPE?

Description	This query returns the automated Ethernet / PCS / RS-FEC Lanes error Defect to be injected.
	At *RST condition, this value is set to Invalid Marker.
	Navigation Path: Results > Alarms/Errors > Injection > PCS > Error > Rate/Max Rate > Defect
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	BIP8: PCS BIP-8
	BLOCk: Block or 66B Block for 40G/100G/400G
	FCCW: FEC-COR-CW
	FSERR: FEC-SYMB
	FUCW: FEC-UNCOR-CW
	INVALIDMARKER: Inv. Marker
	ICWM: Invalid Codeword Marker
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:AUT:TYPE?
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE?

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate Ethernet / PCS / RS-FEC Lanes error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > PCS > Error > Rate/Max Rate > Inject
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:AUT ON
	SOUR:DATA:TEL:ETH:ERR:PHYS:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:INJect

Description	This command enables/disables the manual Ethernet / PCS / RS-FEC Lanes error injection.
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Results > Alarms/Errors > Injection > PCS > Error > Manual > Inject
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:INJect
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:INJ
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:TYPE?
	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt?

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:LANE

Description	This command enables/disables the selection of a lane for PCS / RS-FEC error injection purposes.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > PCS > Lane
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Lane
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:LANE <wsp><Lane>, <Set>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the lane number for which injection is to be done for PCS errors.
	Set:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the per lane status for PCS errors.
	ON, Enables the particular lane.
	OFF, Disables the particular lane.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:LANE 1, ON
	SOUR:DATA:TEL:ETH:ERR:PHYS:LANE? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:ALANes?

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:LANE?

Description	This query returns the enable/disable selection status of a lane for PCS / RS-FEC error injection purposes.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > PCS > Lane
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Lane
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:LANE? <wsp><Lane>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the lane number for which injection is to be done for PCS errors.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of particular lane for PCS errors.
	1, Status of a particular lane is enabled.
	0, Status of a particular lane is disabled.
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:LANE 1, ON
	SOUR:DATA:TEL:ETH:ERR:PHYS:LANE? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:ALANes

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE

Description	This command selects the manual Ethernet / PCS / RS-FEC Lanes error Defect to be injected.
	At *RST condition, this value is set to INVALIDMARKER.
	Navigation Path: Results > Alarms/Errors > Injection > PCS > Error > Manual > Defect
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	BIP8: PCS BIP-8
	BLOCk: Block or 66B Block for 40G/100G/400G
	FCCW: FEC-COR-CW
	FSERR: FEC-SYMB
	FUCW: FEC-UNCOR-CW
	INVALIDMARKER: Inv. Marker
	ICWM: Invalid Codeword Marker
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:MAN:TYPE BLOC
	SOUR:DATA:TEL:ETH:ERR:PHYS:MAN:TYPE?
	Returns: BLOCk
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE
	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt
	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:INJect

:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE?

Description	This query returns the manual Ethernet / PCS / RS-FEC Lanes error Defect to be injected.
	At *RST condition, this value is set to BLOCk.
	Navigation Path: Results > Alarms/Errors > Injection > PCS > Error > Manual > Defect
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	BIP8: PCS BIP-8
	BLOCk: Block or 66B Block for 40G/100G/400G
	FCCW: FEC-COR-CW
	FSERR: FEC-SYMB
	FUCW: FEC-UNCOR-CW
	INVALIDMARKER: Inv. Marker
	ICWM: Invalid Codeword Marker
Example(s)	SOUR:DATA:TEL:ETH:ERR:PHYS:MAN:TYPE BLOC
	SOUR:DATA:TEL:ETH:ERR:PHYS:MAN:TYPE?
	Returns: BLOCk
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE
	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt
	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:INJect

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:ALANes

Description	This command enables/disables the selection of all lanes for RS-FEC error injection purposes.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Lane - All
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:ALANes <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables the selection of all lanes.
	ON: Selects all lanes
	OFF: Unselects all lanes
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:ALAN ON
	SOUR:DATA:TEL:ETH:ERR:RSF:ALAN?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:LANE?

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:ALANes?

Description	This query returns the enable/disable selection status of all lanes for RS-FEC error injection purposes.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Lane - All
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:ALANes?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable selection status of all lanes.
	1: All lanes are enabled.
	0: None or not all lanes are enabled.
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:ALAN ON
	SOUR:DATA:TEL:ETH:ERR:RSF:ALAN?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:LANE

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated

Description	This command enables/disables the Rate/Max Rate RS-FEC error injection for selected lane(s).
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:AUT OFF
	SOUR:DATA:TEL:ETH:ERR:RSF:AUT?
	Returns: 0
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated:CONTinuous

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated:CONTinuous

Description	This command sets the automated RS-FEC error mode for selected lane(s): ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated:CONTinuous <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:AUT:CONT OFF
	SOUR:DATA:TEL:ETH:ERR:RSF:AUT:CONT?
	Returns: 0
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated: CONTinuous?

Description	This query returns the automated RS-FEC error mode for selected lane(s): ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Mode
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated:CONTinuous?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:AUT:CONT ON
	SOUR:DATA:TEL:ETH:ERR:RSF:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated?

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated:RATE

Description	This command sets the automated RS-FEC error injection rate for selected lane(s).
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:AUT:RATE MIN
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:PHYSical:AUTomated:CONTinuous

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated: RATE?

Description	This query returns the automated RS-FEC error injection rate for selected lane(s).
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest rate
	MINimum: Smallest rate
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:AUT:RATE?
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated: TYPE

Description	This command selects the automated RS-FEC error Defect for selected lane(s).
	At *RST condition, this value is set to Invalid Marker.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	FCCW: FEC-COR-CW
	FUCW: FEC-UNCOR-CW
	FCSYmb: FEC-SYMB
	FECINVALIDMARKER: FEC Inv. Marker
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:AUT:TYPE FCCW
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:TYPE

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated: TYPE?

Description	This query returns the automated RS-FEC error Defect for selected lane(s).
	At *RST condition, this value is set to Invalid Marker.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	FCCW: FEC-COR-CW
	FUCW: FEC-UNCOR-CW
	FCSYmb: FEC-SYMB
	FECINVALIDMARKER: FEC Inv. Marker
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:AUT:TYPE?
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:TYPE?

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate RS-FEC error injection for selected lane(s).
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:AUT ON
	SOUR:DATA:TEL:ETH:ERR:RSF:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:LANE

Description	This command enables/disables the selection of a lane for RS-FEC error injection purposes.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Lane
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:LANE <wsp><Lane>, <Set>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects a lane number.
	Set:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Enables/disables the selected lane for coming error injections.
	ON: Enables the particular lane.
	OFF: Disables the particular lane.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:LANE 1, ON
	SOUR:DATA:TEL:ETH:ERR:RSF:LANE? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:ALANes?

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:LANE?

Description	This query returns the enable/disable selection status of a lane for RS-FEC error injection purposes.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Lane
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:LANE? <wsp><Lane>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects a lane number.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status of a lane for error injection.
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:LANE 1, ON
	SOUR:DATA:TEL:ETH:ERR:RSF:LANE? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:ALANes

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:AMOunt

Description	This command sets the amount of physical error to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Global Injection > Layer (RS-FEC) > Amount
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected.
	DEFault: Default amount of physical error
	MAXimum: Grestest supported amount
	MINimum: Smalles supported amount
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:MAN:AMO 50
	SOUR:DATA:TEL:ETH:ERR:RSF:MAN:AMO?
	Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:INJect

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:AMOunt?

Description	This query returns the manual RS-FEC error Amount to be injected for selected lane(s).
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:AMOunt?[<wsp><Amount>]
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:MAN:AMO 50
	SOUR:DATA:TEL:ETH:ERR:RSF:MAN:AMO?
	Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:INJect

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:INJect

Description	This command enables/disables the manual RS-FEC error injection for selected lane(s).
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:INJect
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:MAN:INJ
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:TYPE?
	SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:AMOunt?

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:TYPE

Description	This command selects the manual RS-FEC error Defect to be injected for selected lane(s).
	At *RST condition, this value is set to Invalid Marker.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	FCCW: FEC-COR-CW
	FUCW: FEC-UNCOR-CW
	FCSYmb: FEC-SYMB
	FECINVALIDMARKER: FEC Inv. Marker
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:MAN:TYPE FUCW
	SOUR:DATA:TEL:ETH:ERR:RSF:MAN:TYPE?
	Returns: FUCW

:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:TYPE?

Description	This query returns the manual RS-FEC error Defect to be injected for selected lane(s).
	At *RST condition, this value is set to Invalid Marker.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Selects the error to be injected:
	FCCW: FEC-COR-CW
	FUCW: FEC-UNCOR-CW
	FCSYmb: FEC-SYMB
	FECINVALIDMARKER: FEC Inv. Marker
Example(s)	SOUR:DATA:TEL:ETH:ERR:RSF:MAN:TYPE FUCW
	SOUR:DATA:TEL:ETH:ERR:RSF:MAN:TYPE?
	Returns: FUCW
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:RSFec:MANual:INJect

:SOURce:DATA:TELecom:ETHernet:PCS:ALARm:PHYSical

Description	This command enables/disables the continuous PCS (400G) alarm generation.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Global Injection > PCS > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:PCS:ALARm:PHYSical <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:ETH:PCS:ALAR:PHYS OFF
	SOUR:DATA:TEL:ETH:PCS:ALAR:PHYS?
	Returns: 0
See Also	SOUR:DATA:TEL:ETH:ALAR:PHYS OFF
	SOUR:DATA:TEL:ETH:ALAR:PHYS?

:SOURce:DATA:TELecom:ETHernet:PCS:ALARm:PHYSical:TYPE

Description	This command selects the continuous PCS (400G) alarm Defect to be injected.
	At *RST condition, this value is set to LDSERR.
	Navigation Path: Results > Alarms/Errors > Global Injection > PCS > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:PCS:ALARm:PHYSical:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	LDSERR: L Deg SER Rcd
	RDSER: R Deg SER
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:ETH:PCS:ALAR:PHYS:TYPE RDSER
	SOUR:DATA:TEL:ETH:PCS:ALAR:PHYS:TYPE?
	Returns: RDSER
See Also	SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical:TYPE

:SOURce:DATA:TELecom:ETHernet:PCS:ALARm:PHYSical:TYPE?

Description	This query returns the enable/disable status of the continuous PCS (400G) alarm Defect to be injected.
	At *RST condition, this value is set to LDSERR.
	Navigation Path: Results > Alarms/Errors > Global Injection > PCS > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:ETHernet:PCS:ALARm:PHYSical:TYPE?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm to be injected:
	LDSERR: L Deg SER Rcd
	RDSER: R Deg SER
Example(s)	SOUR:DATA:TEL:ETH:PCS:ALAR:PHYS:TYPE RDSER
	SOUR:DATA:TEL:ETH:PCS:ALAR:PHYS:TYPE?
	Returns: RDSER
See Also	SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical:TYPE?

:SOURce:DATA:TELecom:ETHernet:PCS:ALARm:PHYSical?

Description	This query returns the enable/disable status of the continuous PCS (400G) alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Global Injection > PCS > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:ETHernet:PCS:ALARm:PHYSical?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:PCS:ALAR:PHYS OFF
	SOUR:DATA:TEL:ETH:PCS:ALAR:PHYS?
	Returns: 0
See Also	SOUR:DATA:TEL:ETH:ALAR:PHYS OFF
	SOUR:DATA:TEL:ETH:ALAR:PHYS?

:SOURce:DATA:TELecom:ETHernet:WIS:PLMuneq

Description	This command enables/disables the Payload Label Mismatch - Path/Unequipped - Path (PLM-P / UNEQ-P) generation.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > WIS > PLM-P/UNEQ-P (10GEWAN)
Syntax	:SOURce:DATA:TELecom:ETHernet:WIS:PLMuneq <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:ETH:WIS:PLM ON
	SOUR:DATA:TEL:ETH:WIS:PLM?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:WIS:TRACe?

:SOURce:DATA:TELecom:ETHernet:WIS:PLMuneq?

Description	This query returns the status of Payload Label Mismatch - Path/Unequipped - Path (PLM-P / UNEQ-P) generation.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > WIS > PLM-P/UNEQ-P (10GEWAN)
Syntax	:SOURce:DATA:TELecom:ETHernet:WIS:PLMuneq?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of Plm/Uneq.
	1, Plm/Uneq enabled.
	0, Plm/Uneq disabled.
Example(s)	SOUR:DATA:TEL:ETH:WIS:PLM ON
	SOUR:DATA:TEL:ETH:WIS:PLM?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:WIS:TRACe

:SOURce:DATA:TELecom:FETHernet:PHY:ALARm

Description	This command enables/disables the continuous FlexE - Group alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Alarms > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ALARm <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: enables alarm injection
	OFF: disables alarm injection
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:PHY:ALAR ON
	SOUR:DATA:TEL:FETH:PHY:ALAR?
	Returns: 1
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:AUT
	SOUR:DATA:TEL:FETH:PHY:ERR:AUT?
	SOUR:DATA:TEL:FETH:PHY:ALAR?

:SOURce:DATA:TELecom:FETHernet:PHY:ALARm:SPHY

Description	This command selects the PHY number for FlexE - Group alarm injection.
	At *RST condition, this value is set to 0.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Alarm > PHY
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ALARm:SPHY <wsp><Phynumber>, <Status>
Parameter(s)	**Phynumber**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the PHY number.
	Status:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Enables/disables a PHY for injection.
	ON: sets selected phy injection to on
	OFF: sets selected phy injection to off
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:PHY:ALAR:SPHY 2, ON
	SOUR:DATA:TEL:FETH:PHY:ALAR:SPHY?
	Returns: 1
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:SPHY
	SOUR:DATA:TEL:FETH:PHY:ERR:SPHY?
	SOUR:DATA:TEL:FETH:PHY:ALAR:SPHY?

:SOURce:DATA:TELecom:FETHernet:PHY:ALARm:SPHY?

Description	This query returns if the PHY number is selected for FlexE - Group alarm injection.
	At *RST condition, this value is set to 0.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Alarm > PHY
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ALARm:SPHY? <wsp><Phynumber>
Parameter(s)	**Phynumber**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the PHY number.
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disables status of a PHY for injection.
Example(s)	LINS:SOUR:DATA:TEL:FETH:PHY:ALAR:SPHY 2, ON
	LINS:SOUR:DATA:TEL:FETH:PHY:ALAR:SPHY?
	Returns: 1
See Also	LINS:SOUR:DATA:TEL:FLEXE:PHY:ERR:SEL?
	LINS:SOUR:DATA:TEL:FLEXE:PHY:ALAR:SELP?

:SOURce:DATA:TELecom:FETHernet:PHY:ALARm:TYPE

Description	This command selects the continuous FlexE - Group alarm Defect to be injected.
	At *RST condition, this alarm type is set to REMPHYFAULT
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Alarms > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ALARm:TYPE <wsp><Alarmtype>
Parameter(s)	**Alarmtype**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	LOSSFLOCK: Loss of OH Frame Lock
	LOSSMFLOCK: Loss of OH MF Lock
	REMPHYFAULT: Remote PHY Fault
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:PHY:ALAR:TYPE LOSSFLOCK
	SOUR:DATA:TEL:FETH:PHY:ALAR:TYPE?
	Returns: LOSSFLOCK
See Also	SOUR:DATA:TEL:FETH:PHY:ALAR:TYPE?
	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:TYPE
	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:TYPE?

:SOURce:DATA:TELecom:FETHernet:PHY:ALARm:TYPE?

Description	This query returns the continuous FlexE - Group alarm Defect to be injected.
	At *RST condition, this Defect type REMPHYFAULT
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Alarms > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ALARm:TYPE?
Response Syntax	<Alarmtype>
Response(s)	**Alarmtype**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns FlexE Group PHY alarm.
	REMPHYFAULT: Remote PHY Fault
	LOSSFLOCK: Loss of OH Frame Lock
	LOSSMFLOCK: Loss of OH MF Lock
Example(s)	SOUR:DATA:TEL:FETH:PHY:ALAR:TYPE LOSSFLOCK
	SOUR:DATA:TEL:FETH:PHY:ALAR:TYPE?
	Returns: LOSSFLOCK
See Also	SOUR:DATA:TEL:FETH:PHY:ALAR:TYPE
	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:TYPE
	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:TYPE?

:SOURce:DATA:TELecom:FETHernet:PHY:ALARm?

Description	This query returns the enable/disable status of the continuous FlexE - Group alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Alarms > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ALARm?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status.
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:FETH:PHY:ALAR ON
	SOUR:DATA:TEL:FETH:PHY:ALAR?
	Returns: 1
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:AUT
	SOUR:DATA:TEL:FETH:PHY:ERR:AUT?
	SOUR:DATA:TEL:FETH:PHY:ALAR

:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated

Description	This command enables/disables the Rate/Max Rate FlexE - Group error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:AUT ON
	SOUR:DATA:TEL:FETH:PHY:ERR:AUT?
	Returns: 1
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:AUT?

:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:CONTinuous

Description	This command sets the automated FlexE - Group error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > Mode
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:CONTinuous \<wsp>\<Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a \<BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	\<Status>
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:CONT ON
	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:CONT ?
	Returns: 1

:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:CONTinuous?

Description	This query returns the automated FlexE - Group error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > Mode
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:CONTinuous?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:CONT ON
	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:CONT ?
	Returns: 1

:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:RATE

Description	This command sets the automated FlexE - Group error Rate to be injected.
	At *RST condition, this value is set to 1.0E-4.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:RATE MAX
	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:RATE?
	Returns: 1.0E-2
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:RATE?

:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:RATE?

Description	This query returns the automated FlexE - Group error Rate to be injected.
	At *RST condition, this value is set to 1.0E-4.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	Rate:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
	DEFault: Default rate
Response Syntax	<Rate>
Response(s)	Rate:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:RATE MAX
	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:RATE?
	Returns: 1.0E-2
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:RATE

:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:TYPE

Description	This command selects the automated FlexE - Group error Defect to be injected.
	At *RST condition, this Defect type is set to OHCRC
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:TYPE <wsp><Defect>
Parameter(s)	**Defect**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	OHCRC
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:TYPE OHCRC
	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:TYPE?
	Returns: OHCRC
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:TYPE?

:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:TYPE?

Description	This query returns the automated FlexE - Group error Defect to be injected.
	At *RST condition, this Defect type OHCRC.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated:TYPE?
Response Syntax	<Defect>
Response(s)	**Defect**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	OHCRC
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:TYPE OHCRC
	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:TYPE?
	Returns: OHCRC
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:AUT:TYPE

:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate FlexE - Group error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:AUTomated?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:AUT ON
	SOUR:DATA:TEL:FETH:PHY:ERR:AUT?
	Returns: 1
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:AUT

:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:MANual:AMOunt

Description	This command sets the manual FlexE - Group error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:MANual:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:MAN:AMO 12
	SOUR:DATA:TEL:FETH:PHY:ERR:MAN:AMO?
	Returns: 12
	SOUR:DATA:TEL:FETH:PHY:ERR:MAN:AMO MAX
	SOUR:DATA:TEL:FETH:PHY:ERR:MAN:AMO? MAX
	Returns: 50
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:MAN:AMO?

:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:MANual:AMOunt?

Description	This query returns the manual FlexE - Group error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:MANual:AMOunt?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:MAN:AMO 12
	SOUR:DATA:TEL:FETH:PHY:ERR:MAN:AMO?
	Returns: 12
	SOUR:DATA:TEL:FETH:PHY:ERR:MAN:AMO MAX
	SOUR:DATA:TEL:FETH:PHY:ERR:MAN:AMO? MAX
	Returns: 50
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:MAN:AMO

:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:MANual:INJect

Description	This command enables/disables the manual FlexE - Group error injection.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:MANual:INJect
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:SEL 2, on
	SOUR:DATA:TEL:FETH:PHY:ERR:MAN:INJ
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:SEL

:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:MANual:TYPE

Description	This command selects the manual FlexE Group error Defect to be injected.
	At *RST condition, this value is set to OHCRC
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	OHCRC
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:MAN:TYPE OHCRC
	SOUR:DATA:TEL:FETH:GRO:PHY:ERR:MAN:TYPE?
	Returns: OHCRC
See Also	SOUR:DATA:TEL:FETH:GRO:PHY:ERR:MAN:TYPE?

:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:MANual:TYPE?

Description	This query returns the manual FlexE Group error Defect to be injected.
	At *RST condition, this value is set to OHCRC
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:MANual:TYPE?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	OHCRC
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:MAN:TYPE OHCRC
	SOUR:DATA:TEL:FETH:GRO:PHY:ERR:MAN:TYPE?
	Returns: OHCRC
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:MAN:TYPE

:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:SPHY

Description	This command selects the PHY number for FlexE - Group error injection.
	At *RST condition, this value is set to 0.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > PHY
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:SPHY <wsp><Phynumber>, <Status>
Parameter(s)	**Phynumber**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the PHY number.
	Status:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Enables/disables a PHY for injection.
	ON: sets selected phy injection to on
	OFF: sets selected phy injection to off
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:SPHY 2, ON
	SOUR:DATA:TEL:FETH:PHY:ERR:SPHY? 2
	Returns: 1
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:SPHY?
	SOUR:DATA:TEL:FETH:PHY:ALAR:SPHY
	SOUR:DATA:TEL:FETH:PHY:ALAR:SPHY?

:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:SPHY?

Description	This query returns if the PHY number is selected for FlexE - Group error injection.
	At *RST condition, this value is set to 0.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Error > PHY
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:ERRor:SPHY? <wsp><Phynumber>
Parameter(s)	**Phynumber**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the PHY number.
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disables status of a PHY for injection.
Example(s)	SOUR:DATA:TEL:FETH:PHY:ERR:SPHY 2, ON
	SOUR:DATA:TEL:FETH:PHY:ERR:SPHY? 2
	Returns: 1
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:SPHY
	SOUR:DATA:TEL:FETH:PHY:ALAR:SPHY
	SOUR:DATA:TEL:FETH:PHY:ALAR:SPHY?

:SOURce:DATA:TELecom:FETHernet:PHY:SINStance

Description	This command selects the Instance number for FlexE - Group alarm/ error injection.
	At *RST condition, this value is set to 0.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Alarm/Error > PHY / Instance
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:SINStance <wsp><PHY>, <Instance>, <Status>
Parameter(s)	**PHY**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the PHY number.
	Instance:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Instance number.
	Status:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Enables/disables a Instance for injection.
	ON: sets selected instance injection to on
	OFF: sets selected Instance injection to off
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:PHY:SINS 1,0,ON
	SOUR:DATA:TEL:FETH:PHY:SINS? 1,0
	Returns: 1
See Also	SOUR:DATA:TEL:FETH:PHY:ERR:SPHY
	SOUR:DATA:TEL:FETH:PHY:ERR:SPHY?
	SOUR:DATA:TEL:FETH:PHY:ALAR:SPHY?

:SOURce:DATA:TELecom:FETHernet:PHY:SINStance?

Description	This query returns if the Instance number is selected for FlexE - Group alarm/error injection.
	At *RST condition, this value is set to 0.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Group > Alarm/Error > PHY / Instance
Syntax	:SOURce:DATA:TELecom:FETHernet:PHY:SINStance? <wsp><PHY>, <Instance>
Parameter(s)	**PHY**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the PHY number.
	Instance:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Instance number.
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disables status of a Instance for injection.
Example(s)	SOUR:DATA:TEL:FETH:PHY:SINS 1,0,ON
	SOUR:DATA:TEL:FETH:PHY:SINS? 1,0
	Returns: 1
See Also	LINS:SOUR:DATA:TEL:FLEXE:PHY:ERR:SEL?
	LINS:SOUR:DATA:TEL:FLEXE:PHY:ALAR:SELP?

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm

Description	This command enables/disables the continuous FlexE - Path OAM Basic OAM alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Alarms > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: enables alarm injection
	OFF: disables alarm injection
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ALAR ON
	SOUR:DATA:TEL:FETH:POAM:BOAM:ALAR?
	Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm?

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm:TYPE

Description	This command selects the continuous FlexE - Path OAM Basic OAM alarm Defect to be injected.
	At *RST condition, this alarm type is set to REMPHYFAULT
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Alarms > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm:TYPE <wsp><Alarm Type>
Parameter(s)	**Alarm Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	BCSLF: Basic OAM Client Signal Local Fault
	BCSLPI: Basic OAM Client Signal Low Power Indication
	BCSRF: Basic OAM Client Signal Remote Fault
	BLOCONT: Basic OAM Loss Of Continuity
	BRDI: Basic OAM Remote Defect Indication
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ALAR:TYPE BCSLF
	SOUR:DATA:TEL:FETH:POAM:BOAM:ALAR:TYPE?
	Returns: BCSLF
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm:TYPE?

Description	This query returns the continuous FlexE - Path OAM Basic OAM alarm Defect to be injected.
	At *RST condition, this Defect type BLOCONT
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Alarms > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm:TYPE?
Response Syntax	<Alarm Type>
Response(s)	**Alarm Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns FlexE Path OAM BOAM alarm.
	BCSLF: Basic OAM Client Signal Local Fault
	BCSLPI: Basic OAM Client Signal Low Power Indication
	BCSRF: Basic OAM Client Signal Remote Fault
	BLOCONT: Basic OAM Loss Of Continuity
	BRDI: Basic OAM Remote Defect Indication
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ALAR:TYPE BCSLF
	SOUR:DATA:TEL:FETH:POAM:BOAM:ALAR:TYPE?
	Returns: BCSLF
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm:TYPE

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm?

Description	This query returns the enable/disable status of the continuous FlexE - Path OAM Basic OAM alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Alarms > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status.
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ALAR ON
	SOUR:DATA:TEL:FETH:POAM:BOAM:ALAR?
	Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ALARm

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated

Description	This command enables/disables the Rate/Max Rate FlexE - Path OAM Basic OAM error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated <wsp><Inject>
Parameter(s)	**Inject**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT ON SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT? Returns: ON
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated?

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:CONTinuous

Description	This command sets the automated FlexE - Path OAM Basic OAM error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Mode
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:CONTinuous <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT:CONT ON
	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:CONTinuous?

Description	This query returns the automated FlexE - Path OAM Basic OAM error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Mode
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:CONTinuous?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT:CONT ON
	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:CONTinuous

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:RATE

Description	This command sets the automated FlexE - Path OAM Basic OAM error Rate to be injected.
	At *RST condition, this value is set to 1.0E-4.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT:RATE MAX
	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT:RATE?
	Returns: 1.0E-2
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:RATE?

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:RATE?

Description	This query returns the automated FlexE - Path OAM Basic OAM error Rate to be injected.
	At *RST condition, this value is set to 1.0E-4.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	Rate:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
	DEFault: Default rate
Response Syntax	<Rate>
Response(s)	Rate:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT:RATE MAX
	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT:RATE?
	Returns: 1.0E-2
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:RATE

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:TYPE

Description	This command selects the automated FlexE - Path OAM Basic OAM error Defect to be injected.
	At *RST condition, this Defect type is set to BBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Rate/Max Rate >Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:TYPE <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	BBIP8: Basic OAM Bit Interleaved Parity
	BREI: Basic OAM Remote Error Indication
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT:TYPE BREI
	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT:TYPE?
	Returns: BREI
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:TYPE?

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:TYPE?

Description	This query returns the automated FlexE - Path OAM Basic OAM error Defect to be injected.
	At *RST condition, this Defect type OHCRC.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:TYPE?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	BBIP8: Basic OAM Bit Interleaved Parity
	BREI: Basic OAM Remote Error Indication
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT:TYPE BREI
	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT:TYPE?
	Returns: BREI
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated:TYPE

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate FlexE - Path OAM Basic OAM error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated?
Response Syntax	\<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT ON
	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:AMOunt

Description	This command sets the manual FlexE - Path OAM Basic OAM error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:AMO 12
	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:AMO?
	Returns: 12
	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:AMO MAX
	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:AMO?
	Returns: 50
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:AMOunt?

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:AMOunt?

Description	This query returns the manual FlexE - Path OAM Basic OAM error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:AMOunt?[\<wsp>\<Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a \<CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	\<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a \<NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:AMO 12
	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:AMO?
	Returns: 12
	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:AMO? MAX
	Returns: 50
	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:AMO MAX
	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:AMO?
	Returns: 50
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:AMOunt

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:INJect

Description	This command enables/disables the manual FlexE - Path OAM Basic OAM error injection.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:INJect
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:INJ
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:AUTomated

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:TYPE

Description	This command selects the manual FlexE - Path OAM Basic OAM error Defect to be injected.
	At *RST condition, this Defect type is set to BBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Manual >Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:TYPE <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	BBIP8: Basic OAM Bit Interleaved Parity
	BREI: Basic OAM Remote Error Indication
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:TYPE BREI
	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:TYPE?
	Returns: BREI
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:TYPE?

:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:TYPE?

Description	This query returns the manual FlexE - Path OAM Basic OAM error Defect to be injected.
	At *RST condition, this Defect type is set to BBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Manual >Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:TYPE?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	BBIP8: Basic OAM Bit Interleaved Parity
	BREI: Basic OAM Remote Error Indication
Example(s)	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:TYPE BREI
	SOUR:DATA:TEL:FETH:POAM:BOAM:ERR:MAN:TYPE?
	Returns: BREI
See Also	SOURce:DATA:TELecom:FETHernet:POAM:BOAM:ERRor:MANual:TYPE

:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated

Description	This command enables/disables the Rate/Max Rate FlexE - Path OAM error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:FETH:POAM:ERR:AUT ON
	SOUR:DATA:TEL:FETH:POAM:ERR:AUT?
	Returns: ON

:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated :CONTinuous

Description	This command sets the automated FlexE - Path OAM error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Mode
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated:CONTinuous <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:FETH:POAM:ERR:AUT:CONT ON
	SOUR:DATA:TEL:FETH:POAM:ERR:AUT:CONT?
	Returns: 1

:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated :CONTinuous?

Description	This query returns the automated FlexE - Path OAM error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Mode
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated:CONTinuous?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:FETH:POAM:ERR:AUT:CONT ON
	SOUR:DATA:TEL:FETH:POAM::ERR:AUT:CONT?
	Returns: 1

:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated:RATE

Description	This command sets the automated FlexE - Path OAMerror Rate to be injected.
	At *RST condition, this value is set to 1.0E-4.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:FETH:POAM:ERR:AUT:RATE MAX
	SOUR:DATA:TEL:FETH:POAM:ERR:AUT:RATE?
	Returns: 1.0E-2

:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated :RATE?

Description	This query returns the automated FlexE - Path OAM error Rate to be injected.
	At *RST condition, this value is set to 1.0E-4.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
	DEFault: Default rate
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:FETH:POAM:ERR:AUT:RATE MAX
	SOUR:DATA:TEL:FETH:POAM:ERR:AUT:RATE?
	Returns: 1.0E-2

:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated :TYPE

Description	This command selects the automated FlexE - Path OAM error Defect to be injected.
	At *RST condition, this Defect type is set to BBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Rate/Max Rate >Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated:TYPE <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	CRC4: Cyclic Redundancy Check over 4 bits
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:FETH:POAM:ERR:AUT:TYPE CRC4
	SOUR:DATA:TEL:FETH:POAM:ERR:AUT:TYPE?
	Returns: CRC4

:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated :TYPE?

Description	This query returns the automated FlexE - Path OAM error Defect to be injected.
	At *RST condition, this Defect type OHCRC.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated:TYPE?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Selects the error to be injected:
	CRC4: Cyclic Redundancy Check over 4 bits
Example(s)	SOUR:DATA:TEL:FETH:POAM:ERR:AUT:TYPE CRC4
	SOUR:DATA:TEL:FETH:POAM:ERR:AUT:TYPE?
	Returns: CRC4

:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated ?

Description	This query returns the enable/disable status of the Rate/Max Rate FlexE - Path OAM error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:AUTomated?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:FETH:POAM:ERR:AUT ON
	SOUR:DATA:TEL:FETH:POAM:ERR:AUT?
	Returns: 1

:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:AMOunt

Description	This command sets the manual FlexE - Path OAM error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:FETH:POAM:ERR:MAN:AMO 12
	SOUR:DATA:TEL:FETH:POAM:ERR:MAN:AMO?
	Returns: 12
	SOUR:DATA:TEL:FETH:POAM:ERR:MAN:AMO MAX
	SOUR:DATA:TEL:FETH:POAM:ERR:MAN:AMO?
	Returns: 50

:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:AMOunt?

Description	This query returns the manual FlexE - Path OAM error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:AMOunt?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:FETH:POAM:ERR:MAN:AMO 12
	SOUR:DATA:TEL:FETH:POAM:ERR:MAN:AMO?
	Returns: 12
	SOUR:DATA:TEL:FETH:POAM:ERR:MAN:AMO MAX
	SOUR:DATA:TEL:FETH:POAM:ERR:MAN:AMO?
	Returns: 50

:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:INJect

Description	This command enables/disables the manual FlexE - Path OAMerror injection.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:INJect
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:FETH:POAM:ERR:MAN:INJ

:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:TYPE

Description	This command selects the manual FlexE - Path OAM error Defect to be injected.
	At *RST condition, this Defect type is set to BBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Manual >Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:TYPE <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	CRC4: Cyclic Redundancy Check over 4 bits
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:FETH:POAM:ERR:MAN:TYPE BREI
	SOUR:DATA:TEL:FETH:POAM:ERR:MAN:TYPE?
	Returns: BREI

:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:TYPE?

Description	This query returns the manual FlexE - Path OAM error Defect to be injected.
	At *RST condition, this Defect type is set to BBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - POAM > Error > Manual >Defect
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:ERRor:MANual:TYPE?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Selects the error to be injected:
	CRC4: Cyclic Redundancy Check over 4 bits
Example(s)	SOUR:DATA:TEL:FETH:POAM:ERR:MAN:TYPE CRC4
	SOUR:DATA:TEL:FETH:POAM:ERR:MAN:TYPE?
	Returns: BREI

:SOURce:DATA:TELecom:FIBer:ALARm:RSFec

Description	This command enables/disables the continuous RS-FEC (64G) alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC> Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:FIBer:ALARm:RSFec <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:FIB:ALAR:RSF ON
See Also	SOURce:DATA:TELecom:FIBer:ERRor:RSFec:MANual:TYPE

:SOURce:DATA:TELecom:FIBer:ALARm:RSFec:TYPE?

Description	This query returns the continuous Fiber Channel RS-FEC (64G) alarm Defect to be injected.
	At *RST condition, this value is set to RD.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:FIBer:ALARm:RSFec:TYPE?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm to be injected:
	RD: Remote Degrade
Example(s)	SOUR:DATA:TEL:FIB:ALAR:RSF:TYPE?
	Returns: RD
See Also	SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical:TYPE

:SOURce:DATA:TELecom:FIBer:ALARm:RSFec?

Description	This query returns the enable/disable status of the continuous RS-FEC (64G) alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC> Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:FIBer:ALARm:RSFec?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status.
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:FIB:ALAR:RSF ON
	SOUR:DATA:TEL:FIB:ALAR:RSF?
	Returns: 1
See Also	SOURce:DATA:TELecom:FIBer:ALARm:RSFec:TYPE?

:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated

Description	This command enables/disables the Rate/Max Rate Fibre Channel error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Fibre Channel > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:FIB:ERR:AUT ON
	SOUR:DATA:TEL:FIB:ERR:AUT?
	Returns: ON
See Also	SOURce:DATA:TELecom:CPRI:ERRor:AUTomated

:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:CONTinuous

Description	This command selects the automated Fibre Channel error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Fibre Channel > Error > Mode
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:CONTinuous <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:FIB:ERR:AUT:CONT ON
	SOUR:DATA:TEL:FIB:ERR:AUT:CONT?
	Returns: ON
See Also	SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:CONTinuous

:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:CONTinuous?

Description	This query returns the automated Fibre Channel error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Test > Fiber Channel > Results > Layer (Fibre Channel) > Type (Errors) > Mode (MaxRate)
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:CONTinuous?
Response Syntax	<Get>
Response(s)	**Get**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:FIB:ERR:AUT:CONT ON
	SOUR:DATA:TEL:FIB:ERR:AUT:CONT?
	Returns: ON
See Also	SOURce:DATA:TELecom:CPRI:ERRor:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:RATE

Description	This command sets the automated Fibre Channel error Rate to be injected.
	At *RST condition, this value is set to 0.0001.
	Navigation Path: Results > Alarms/Errors > Injection > Fibre Channel > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:RATE <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the rate of error to be injected.
Response Syntax	<Get>
Example(s)	SOUR:DATA:TEL:FIB:ERR:AUT:RATE 0.00065
	SOUR:DATA:TEL:FIB:ERR:AUT:RATE?
	Returns: 0.00065
See Also	FETCh:DATA:TELecom:FIBer:ERRor:PHYSical:RATE

:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:RATE?

Description	This query returns the automated Fibre Channel error Rate to be injected.
	At *RST condition, this value is set to 0.0001.
	Navigation Path: Results > Alarms/Errors > Injection > Fibre Channel > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:RATE?
Response Syntax	<Get>
Response(s)	**Get**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:FIB:ERR:AUT:RATE 0.00065
	SOUR:DATA:TEL:FIB:ERR:AUT:RATE?
	Returns: 0.00065
See Also	FETCh:DATA:TELecom:FIBer:ERRor:PHYSical:RATE?

:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:TYPE

Description	This command sets the automated Fibre Channel error Defect to be injected.
	At *RST condition, this value is set to FCS.
	Navigation Path: Results > Alarms/Errors > Injection > Fibre Channel > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:TYPE <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	FCS
Response Syntax	<Get>
Example(s)	SOUR:DATA:TEL:FIB:ERR:AUT:TYPE FCS
	SOUR:DATA:TEL:FIB:ERR:AUT:TYPE?
	Returns: FCS
See Also	SOURce:DATA:TELecom:FIBer:ERRor:MANual:TYPE

:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:TYPE?

Description	This query returns the manual Fibre Channel error Defect to be injected.
	At *RST condition, this value is set to FCS.
	Navigation Path: Results > Alarms/Errors > Injection > Fibre Channel > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:TYPE?
Response Syntax	<Get>
Response(s)	**Get**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	FCS
Example(s)	SOUR:DATA:TEL:FIB:ERR:AUT:TYPE FCS
	SOUR:DATA:TEL:FIB:ERR:AUT:TYPE?
	Returns: FCS
See Also	SOURce:DATA:TELecom:FIBer:ERRor:MANual:TYPE?

:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate Fibre Channel error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Fibre Channel > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:AUTomated?
Response Syntax	<Get>
Response(s)	**Get**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:FIB:ERR:AUT ON
	SOUR:DATA:TEL:FIB:ERR:AUT?
	Returns: ON
See Also	SOURce:DATA:TELecom:CPRI:ERRor:AUTomated?

:SOURce:DATA:TELecom:FIBer:ERRor:MANual:AMOunt

Description	This command sets the manual Fibre Channel error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > Fibre Channel > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:MANual:AMOunt <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the amount of error to be injected.
Response Syntax	<Get>
Example(s)	SOUR:DATA:TEL:FIB:ERR:MAN:AMO 30
	SOUR:DATA:TEL:FIB:ERR:MAN:AMO?
	Returns: 30
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:AMOunt

:SOURce:DATA:TELecom:FIBer:ERRor:MANual:AMOunt?

Description	This query returns the manual Fibre Channel error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > Fibre Channel > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:MANual:AMOunt?
Response Syntax	<Get>
Response(s)	**Get**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:FIB:ERR:MAN:AMO 25
	SOUR:DATA:TEL:FIB:ERR:MAN:AMO?
	Returns: 25
See Also	SOURce:DATA:TELecom:CPRI:ERRor:MANual:AMOunt?

:SOURce:DATA:TELecom:FIBer:ERRor:MANual:INJect

Description	This command enables/disables the manual Fibre Channel error injection.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > Fibre Channel > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:MANual:INJect
Response Syntax	<Get>
Example(s)	SOUR:DATA:TEL:FIB:ERR:MAN:INJ
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:LRATe:INJect

:SOURce:DATA:TELecom:FIBer:ERRor:MANual:TYPE

Description	This command sets the manual Fibre Channel error Defect to be injected.
	At *RST condition, this value is set to FCS.
	Navigation Path: Results > Alarms/Errors > Injection > Fibre Channel > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:MANual:TYPE <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	FCS
Response Syntax	<Get>
Example(s)	SOUR:DATA:TEL:FIB:ERR:MAN:TYPE FCS
	SOUR:DATA:TEL:FIB:ERR:MAN:TYPE?
	Returns: FCS
See Also	SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:TYPE

:SOURce:DATA:TELecom:FIBer:ERRor:MANual:TYPE?

Description	This query returns the manual Fibre Channel error Defect to be injected.
	At *RST condition, this value is set to FCS.
	Navigation Path: Results > Alarms/Errors > Injection > Fibre Channel > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:MANual:TYPE?
Response Syntax	<Get>
Response(s)	**Get**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	FCS
Example(s)	SOUR:DATA:TEL:FIB:ERR:MAN:TYPE FCS
	SOUR:DATA:TEL:FIB:ERR:MAN:TYPE?
	Returns: FCS
See Also	SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:TYPE?

:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated

Description	This command enables/disables the Rate/Max Rate RS-FEC error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<Get>
Example(s)	SOUR:DATA:TEL:FIB:ERR:RSF:AUT ON
	SOUR:DATA:TEL:FIB:ERR:RSF:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:FIBer:ERRor:AUTomated

:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:CONTinuous

Description	This command selects the automated RE-FEC error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Mode
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:CONTinuous \<wsp>\<Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a \<BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode: ON for Max Rate and OFF for Rate.
	ON: Enabled
	OFF: Disabled
Response Syntax	\<Get>
Example(s)	SOUR:DATA:TEL:FIB:ERR:RSF:AUT:CONT ON
	SOUR:DATA:TEL:FIB:ERR:RSF:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:FIB:ERRor:AUTomated:CONTinuous

:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:CONTinuous?

Description	This query returns the automated RS-FEC error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Mode
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:CONTinuous?
Response Syntax	<GET>
Response(s)	**GET**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode: ON for Max Rate and OFF for Rate.
	1, Continuous RS-FEC error is enabled.
	0, Continuous RS-FEC error is disabled.
Example(s)	SOUR:DATA:TEL:FIB:ERR:RSF:AUT:CONT ON
	SOUR:DATA:TEL:FIB:ERR:RSF:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:FIBer:ERRor:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:RATE

Description	This command sets the automated RS-FEC error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected. Choices are 1.0E-09 to 1.0E-02.
	MAXimum, sets error rate to maximum.
	MINimum, sets error rate to minimum.
Response Syntax	<GET>
Example(s)	SOUR:DATA:TEL:FIB:ERR:RSF:AUT:TYPE FCCW
	SOUR:DATA:TEL:FIB:ERR:RSF:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:FIB:ERR:RSF:AUT:RATE?
	Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:RATE?

:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:RATE?

Description	This query returns the automated RS-FEC error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:FIB:ERR:RSF:AUT:TYPE FCCW
	SOUR:DATA:TEL:FIB:ERR:RSF:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:FIB:ERR:RSF:AUT:RATE?
	Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:RATE?

:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:TYPE

Description	This command sets the automated RS-FEC error Defect to be injected. At *RST condition, this value is set to FCCW. Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:TYPE <wsp><Type>
Parameter(s)	**Type**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the error to be injected: FUCW: FEC-UNCOR-CW FCCW: FEC-COR-CW FSERR: FEC-SYMB
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:FIB:ERR:RSF:AUT:TYPE FUCW SOUR:DATA:TEL:FIB:ERR:RSF:AUT:TYPE? Returns: FUCW
See Also	SOURce:DATA:TELecom:FIBer:ERRor:RSFec:MANual:TYPE

:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:TYPE?

Description	This query returns the manual RS-FEC error Defect to be injected.
	At *RST condition, this value is set to FCCW.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:TYPE?
Response Syntax	<Get>
Response(s)	**Get**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	FUCW: FEC-UNCOR-CW
	FCCW: FEC-COR-CW
	FSERR: FEC-SYMB
Example(s)	SOUR:DATA:TEL:FIB:ERR:RSF:AUT:TYPE FUCW
	SOUR:DATA:TEL:FIB:ERR:RSF:AUT:TYPE?
	Returns: FUCW
See Also	SOURce:DATA:TELecom:FIBer:ERRor:RSFec:MANual:TYPE?

:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate RS-FEC error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated?
Response Syntax	<Get>
Response(s)	**Get**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status.
	1, automated RS-FEC is enabled.
	0, automated RS-FEC is disabled.
Example(s)	SOUR:DATA:TEL:FIB:ERR:RSF:AUT ON
	SOUR:DATA:TEL:FIB:ERR:RSF:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:FIBer:ERRor:AUTomated?

:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:MANual:AMOunt

Description	This command sets the manual RS-FEC error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:MANual:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected. Choices are 1 to 50.
	MAXimum: The maximum value.
	MINimum: The minimum value.
	DEFault: The default value.
Response Syntax	<Get>
Example(s)	SOUR:DATA:TEL:FIB:ERR:RSF:MAN:TYPE FCCW
	SOUR:DATA:TEL:FIB:ERR:RSF:MAN:AMO 15
	SOUR:DATA:TEL:FIB:ERR:RSF:MAN:AMO?
	Return 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:FEC:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:FEC:AMOunt?

:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:MANual:AMOunt ?

Description	This query returns the manual RS-FEC error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:MANual:AMOunt?[<wsp><Amount>]
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of Forward Error Correction (FEC) error.
Example(s)	SOUR:DATA:TEL:FIB:ERR:RSF:MAN:TYPE FCCW
	SOUR:DATA:TEL:FIB:ERR:RSF:MAN:AMO 15
	SOUR:DATA:TEL:FIB:ERR:RSF:MAN:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:FEC:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:FEC:AMOunt?

:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:MANual:INJect

Description	This command enables/disables the manual RS-FEC error injection.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:MANual:INJect
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:FIB:ERR:RSF:MAN:INJ
See Also	SOURce:DATA:TELecom:FIBer:ERRor:MANual:INJect

:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:MANual:TYPE

Description	This command sets the manual RS-FEC error Defect to be injected.
	At *RST condition, this value is set to FCCW.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:MANual:TYPE <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	FUCW: FEC-UNCOR-CW
	FCCW: FEC-COR-CW
	FSERR: FEC-SYMB
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:FIB:ERR:RSF:MAN:TYPE FUCW
	SOUR:DATA:TEL:FIB:ERR:RSF:MAN:TYPE?
	Returns: FUCW
See Also	SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:TYPE

:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:MANual:TYPE?

Description	This query returns the manual RS-FEC error Defect to be injected.
	At *RST condition, this value is set to FCCW.
	Navigation Path: Results > Alarms/Errors > Injection > RS-FEC > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:FIBer:ERRor:RSFec:MANual:TYPE?
Response Syntax	<GET>
Response(s)	**GET**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	FUCW: FEC-UNCOR-CW
	FCCW: FEC-COR-CW
	FSERR: FEC-SYMB
Example(s)	SOUR:DATA:TEL:FIB:RSF:ERR:MAN:TYPE FUCW
	SOUR:DATA:TEL:FIB:RSF:ERR:MAN:TYPE?
	Returns: FUCW
See Also	SOURce:DATA:TELecom:FIBer:ERRor:RSFec:AUTomated:TYPE?

:SOURce:DATA:TELecom:FOTN:FEC:ALANes

Description	This command enables/disables the selection of all lanes for FEC alarms/errors injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (FEC) > All Lanes
Syntax	:SOURce:DATA:TELecom:FOTN:FEC:ALANes <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables the selection of all lanes.
	ON: Selects all lanes
	OFF: Unselects all lanes
Response Syntax	<GET>
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ALAN ON
See Also	SOURce:DATA:TELecom:FOTN:FEC:LANE

:SOURce:DATA:TELecom:FOTN:FEC:ALANes?

Description	This query returns the enable/disable selection status of all lanes for FEC alarms/errors injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (FEC) > All Lanes
Syntax	:SOURce:DATA:TELecom:FOTN:FEC:ALANes?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable selection status of all lanes.
	1: All lanes are enabled.
	0: None or not all lanes are enabled.
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ALAN?
See Also	SOURce:DATA:TELecom:FOTN:FEC:LANE?

:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AMOunt

Description	This command sets the manual FEC error Amount to be injected for FlexO BERT. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AMOunt <wsp><Amount>
Parameter(s)	**Amount**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ERR:AMO 1
See Also	SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated

:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AMOunt?

Description	This query returns the manual FEC error Amount to be injected for FlexO BERT.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AMOunt?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ERR:AMO?
See Also	SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated?

:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated

Description	This command enables/disables the Rate/Max Rate FEC error injection for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error generation.
	OFF: Disables error generation.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ERR:AUT ON
See Also	SOURce:DATA:TELecom:FOTN:FEC:ERRor:AMOunt

:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated:CONTi nuous

Description	This command sets the automated FEC error Mode: ON for Max Rate and OFF for Rate for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Mode
Syntax	:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated:CONTinuous <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ERR:AUT:CONT ON
See Also	SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated

:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated:CONTinuous?

Description	This query returns the automated FEC error Mode: ON for Max Rate and OFF for Rate for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Mode
Syntax	:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated:CONTinuous?
Response Syntax	\<Set\>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA\> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ERR:AUT:CONT?
See Also	SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated?

:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated:RATE

Description	This command sets the automated FEC error Rate to be injected for FlexO BERT.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ERR:AUT:RATE 1.0E-09
See Also	SOURce:DATA:TELecom:FOTN:FEC:ERRor:AMOunt

:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated:RATE?

Description	This query returns the automated FEC error Rate to be injected for FlexO BERT. At *RST condition, this value is set to device-dependent. Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	**Value**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current injection rate is returned. MAXimum: Biggest supported value MINimum: Smallest supported value DEFault: Default value.
Response Syntax	<Rate>
Response(s)	**Rate**: The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ERR:AUT:RATE?
See Also	SOURce:DATA:TELecom:FOTN:FEC:ERRor:AMOunt

:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated:TYPE

Description	This command selects the automated FEC error Defect to be injected for FlexO BERT.
	At *RST condition, this value is set to FCSYmb.
	Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	FCSYmb: FEC correctable symbol error
	FCCW: FEC correctable code word error
	FUCW: FEC uncorrectable code word error
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ERR:AUT:TYPE FCSY
See Also	SOURce:DATA:TELecom:FOTN:FEC:ERRor:MANual:TYPE

:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated:TYPE?

Description	This query returns the automated FEC error Defect to be injected for FlexO BERT.
	At *RST condition, this value is set to FAS.
	Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	FCSYmb: FEC correctable symbol error
	FCCW: FEC correctable code word error
	FUCW: FEC uncorrectable code word error
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ERR:AUT:TYPE?
See Also	SOURce:DATA:TELecom:FOTN:FEC:ERRor:MANual:TYPE?

:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate FEC error injection for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ERR:AUT?
See Also	SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:FOTN:FEC:ERRor:INJect

Description	This command triggers the manual FEC error injection for FlexO BERT.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:FOTN:FEC:ERRor:INJect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ERR:INJ
See Also	SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated

:SOURce:DATA:TELecom:FOTN:FEC:ERRor:MANual:TYPE

Description	This command selects the manual FEC error Defect to be injected for FlexO BERT.
	At *RST condition, this value is set to FCSYmb error.
	Navigation Path: Results > Alarms/Errors > Injection >FEC > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:FOTN:FEC:ERRor:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	FCSYmb: FEC correctable symbol error
	FCCW: FEC correctable code word error
	FUCW: FEC uncorrectable code word error
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ERR:MAN:TYPE FCSY
See Also	SOURce:DATA:TELecom:FOTN:FEC:ERRor:AUTomated:TYPE

:SOURce:DATA:TELecom:FOTN:FEC:ERRor:MANual:TYPE?

Description	This query returns the manual FEC error Defect to be injected for FlexO BERT.
	At *RST condition, this value is set to FCSYmb error.
	Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:FOTN:FEC:ERRor:MANual:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	FCSYmb: FEC correctable symbol error
	FCCW: FEC correctable code word error
	FUCW: FEC uncorrectable code word error

:SOURce:DATA:TELecom:FOTN:FEC:LANE

Description	This command enables/disables the selection of a lane for FEC alarms/errors injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (FEC) > Lane
Syntax	:SOURce:DATA:TELecom:FOTN:FEC:LANE <wsp><Lane>, <Set>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects a lane number.
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the OTL per lane status.
	ON: Enables the lane.
	OFF: Disables the lane.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:FOTN:FEC:LANE 1, ON
See Also	SOURce:DATA:TELecom:FOTN:FEC:ALANes

:SOURce:DATA:TELecom:FOTN:FEC:LANE?

Description	This query returns the enable/disable selection status of a lane for FEC alarms/errors injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (FEC) > Lane
Syntax	:SOURce:DATA:TELecom:FOTN:FEC:LANE? <wsp><Lane>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects a lane number.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the selection status of a lane.
	1: The lane is enabled.
	0: The lane is disabled.
Example(s)	SOUR:DATA:TEL:FOTN:FEC:LANE? 1
See Also	SOURce:DATA:TELecom:FOTN:FEC:ALANes?

:SOURce:DATA:TELecom:FOTN:FLXO:ALARm

Description	This command enables/disables the continuous FlexO alarm injection for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > FlexO > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ALARm <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:ALAR ON
See Also	SOURce:DATA:TELecom:FOTN:FLXO:‚ÄãALARm:TYPE

:SOURce:DATA:TELecom:FOTN:FLXO:ALARm:TYPE

Description	This command selects the continuous FlexO alarm to be injected for FlexO BERT.
	At *RST condition, this value is set to LOM.
	Navigation Path: Results > Alarms/Errors > Injection > FlexO > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ALARm:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	GIDM: GroupIDMismatch
	IIDM: InstanceIDMismatch
	LOM: LossOfMultiframe
	MAPM: MAPMismatch
	OOM: OutOfMultiframe
	RPF: RemotePhyFault
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:ALAR:TYPE GIDM
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ALARm

:SOURce:DATA:TELecom:FOTN:FLXO:ALARm:TYPE?

Description	This command selects the continuous FlexO alarm Defect to be injected for FlexO BERT.
	At *RST condition, this value is set to LOM.
	Navigation Path: Results > Alarms/Errors > Injection > FlexO > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ALARm:TYPE?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Selects the alarm to be injected:
	GIDM: GroupIDMismatch
	IIDM: InstanceIDMismatch
	LOM: LossOfMultiframe
	MAPM: MAPMismatch
	OOM: OutOfMultiframe
	RPF: RemotePhyFault
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:ALAR:TYPE LOM
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ALARm?

:SOURce:DATA:TELecom:FOTN:FLXO:ALARm?

Description	This query return the enable/disable status of the continuous FlexO alarm injection for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > FlexO > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ALARm?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:ALAR ON
See Also	SOURce:DATA:TELecom:FOTN:FLXO:‚ÄãALARm:TYPE?

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated

Description	This command enables/disables the Rate/Max Rate FlexO error injection for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FlexO > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error injection.
	ON: Enables error generation.
	OFF: Disables error generation.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:FLXO:ERR:AUT ON
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:CONTinuous
	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:RATE
	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:TYPE

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:CONTinuous

Description	This command sets the automated FlexO error Mode: ON for Max Rate and OFF for Rate for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FlexO > Error > Mode
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:CONTinuous <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:ERR:AUT:CONT ON
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:TYPE
	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:RATE
	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:CONTinuous?

Description	This query returns the automated FlexO error Mode: ON for MAx Rate and OFF for Rate for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FlexO > Error > Mode
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:CONTinuous?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:ERR:AUT:CONT?
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:TYPE?
	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:RATE?
	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated?

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:RATE

Description	This command sets the automated FlexO error Rate to be injected for FlexO BERT.
	At *RST condition, this value is set to device-dependant.
	Navigation Path: Results > Alarms/Errors > Injection > FlexO > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value
	DEFault: Default value.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:ERR:AUT:RATE 1.0E-09
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:TYPE
	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:CONTinuous
	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:RATE ?

Description	This query returns the automated FlexO error Rate to be injected for FlexO BERT.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Injection > FlexO > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:ERR:AUT:RATE?
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:TYPE?
	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:CONTinuous?
	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated?

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:TYPE

Description	This command selects the automated FlexO error Defect to be injected for FlexO BERT.
	At *RST condition, this value is set to MFAS.
	Navigation Path: Results > Alarms/Errors > Injection > FlexO > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	MFAS: MFAS
	OHCRC: OH CRC
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:ERR:AUT:TYPE MFAS
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:CONTinuous
	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:RATE
	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:TYPE ?

Description	This query returns the automated FlexO error Defect to be injected for FlexO BERT.
	At *RST condition, this value is set to MFAS.
	Navigation Path: Results > Alarms/Errors > Injection > FlexO > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	MFAS: MFAS
	OHCRC: OH CRC
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:AUT:TYPE?
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:CONTinuous?
	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:RATE?
	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated?

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate FlexO error injection for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FlexO > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:ERR:AUT?
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:CONTinuous?
	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:RATE?
	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:AUTomated:TYPE?

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:AMOunt

Description	This command sets the manual FlexO error amount to be injected for FlexO BERT.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > FlexO > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected. Choices are 1 through 50.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:ERR:MAN:AMO 5
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:INJect
	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:TYPE

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:AMOunt?

Description	This query returns the manual FlexO error amount to be injected for FlexO BERT.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > FlexO > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:AMOunt?[<wsp><Amount>]
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the amount of error to be injected. Choices are 1 through 50.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of errors to be injected.
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:ERR:MAN:AMO?
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:INJect
	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:TYPE?

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:INJect

Description	This command triggers the manual FlexO error injection for FlexO BERT.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > FlexO > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:INJect
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:ERR:INJ
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:AMOunt
	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:TYPE

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:TYPE

Description	This command selects the manual FlexO error Defect to be injected for FlexO BERT.
	At *RST condition, this value is set to MFAS error.
	Navigation Path: Results > Alarms/Errors > Injection > FlexO > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	MFAS : MFAS
	OHCRC: OH CRC
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:FLXO:MAN:TYPE MFAS
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:INJect
	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:AMOunt

:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:TYPE?

Description	This query returns the mantal FlexO error Defect to be injected for FlexO BERT.
	At *RST condition, this value is set to MFAS.
	Navigation Path: Results > Alarms/Errors > Injection > FlexO > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	MFAS
	OH CRC
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:ERR:MAN:TYPE?
See Also	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:INJect
	SOURce:DATA:TELecom:FOTN:FLXO:ERRor:MANual:AMOunt?

:SOURce:DATA:TELecom:FOTN:FLXO:INSTance

Description	This command enables/disables the selection of an instance for alarms/errors injection purposes for FlexO BERT.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (FlexO) > Instance
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:INSTance <wsp><Instance>, <Set>
Parameter(s)	**Instance**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects an instance number.
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables the Instance.
	ON: Enables the instance.
	OFF: Disables the instance.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:INST 1,ON
See Also	SOURce:DATA:TELecom:FOTN:FOIC:LANE

:SOURce:DATA:TELecom:FOTN:FLXO:INSTance?

Description	This command enables/disables the selection of an instance for alarms/errors injection purposes for FlexO BERT.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (FlexO) > Instance
Syntax	:SOURce:DATA:TELecom:FOTN:FLXO:INSTance? <wsp><Instance>
Parameter(s)	**Instance**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects an instance number.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enables/disables status of an Instance.
Example(s)	SOUR:DATA:TEL:FOTN:FLXO:INST 1,ON
See Also	SOURce:DATA:TELecom:FOTN:FOIC:LANE

:SOURce:DATA:TELecom:FOTN:FOIC:ALANes

Description	This command enables/disables the selection of all lanes for alarms/errors FOIC injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (FOIC) > All Lanes
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:ALANes <wsp><Set>
Parameter(s)	**Set**: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables the selection of all lanes. ON: Selects all lanes OFF: Unselects all lanes
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:ALAN ON
See Also	SOURce:DATA:TELecom:FOTN:FOIC:‚ÄãLANE

:SOURce:DATA:TELecom:FOTN:FOIC:ALANes?

Description	This query returns the enables/disable selection status of all lanes for alarms/errors FOIC injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (FOIC) > All Lanes
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:ALANes?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable selection status of all lanes.
	1: All lanes are enabled.
	0: None or not all lanes are enabled.
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:ALAN?
See Also	SOURce:DATA:TELecom:FOTN:FOIC:‚ÄãLANE

:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AMOunt

Description	This command sets the manual FOIC error amount to be injected for FlexO BERT.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > FOIC > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected. Choices are 1 through 50.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:ERR:AMO 1
See Also	SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated

:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AMOunt?

Description	This query returns the manual FOIC erreor amount to be injected for FlexO BERT.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > FOIC > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AMOunt?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optionnal. If no token is specified, the current amount is returned,
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<AMount>
Response(s)	**AMount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:ERR:AMO?
See Also	SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated?

:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated

Description	This command enables/disables the Rate/Max Rate FOIC error injection for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FOIC > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error injection.
	ON: Enables error generation.
	OFF: Disables error generation.
Response Syntax	<AMount>
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:FOIC:ERR:AUT ON
See Also	SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AMount

:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:CONTinuous

Description	This command sets the automated FEC error Mode: ON for Max Rate and OFF for Rate for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FOIC > Error > Mode
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:CONTinuous <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<AMount>
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:ERR:AUT:CONT ON
See Also	SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated

:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:CONTinuous?

Description	This query returns the automated FOIC error MOde: ON for Max Rate and OFF for Rate for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FOIC > Error > Mode
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:CONTinuous?
Response Syntax	\<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:ERR:AUT:CONT?
See Also	SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated?

:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:RATE

Description	This command sets the automated FOIC error Rate to be injected.
	At *RST condition, this value is set to device-dependant.
	Navigation Path: Results > Alarms/Errors > Injection > FOIC > Rate > Rate
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: BIggest supported value.
	MINimum: Smallest supported value
	DEFault: Default value.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FEC:ERR:AUT:RATE 1.0E-09
See Also	SOURce:DATA:TEL:FOTN:FEC:ERRor:AMount

:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:RATE ?

Description	This query returns the automated FOIC error Rate to be injected for FlexO BERT.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Injection > FOIC > Rate > Rate
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:ERR:AUT:RATE?
See Also	SOURce:DATA:TELecom:FOTN:FEC:ERRor:AMOunt

:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:TYPE

Description	This command selects the automated FOIC error Defect to be injected for FlexO BERT.
	At *RST condition, this value is set to INVMARKER
	Navigation Path: Results > Alarms/Errors > Injection > FOIC > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	INVMARKER: Inv. Marker
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:ERR:AUT:TYPE INVMARKER
See Also	SOURce:DATA:TELecom:FOTN:FEC:ERRor:MANual:TYPE

:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:TYPE?

Description	This query returns the automated FOIC error Defect to be injected for FlexO BERT.
	At *RST condition, this value is set to INVMARKER.
	Navigation Path: Results> Alarms/Errors > Injection > FOIC > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	INVMARKER: Inv. Marker
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:AUT:TYPE?
See Also	SOURce:DATA:TELecom:FOTN:FOIC:ERRor:MANual:TYPE?

:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate FOIC error injection for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FOIC > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:ERR:AUT?
See Also	SOURce:DATA:TELecom:FOTN:FOIC:ERRor:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:INJect

Description	This command triggers the manual FOIC error injection for FlexO BERT.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > FOIC > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:INJect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:ERR:INJ

:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:MANual:TYPE

Description	This command selects the manual FOIC error Defect to be injected.
	At *RST condition, this value is set to INVMARKER error.
	Navigation Path: Results > Alarms/Errors > Injection > FOIC > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	INVMARKER: Inv. Marker
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:ERR:MAN:TYPE INVMARKER
See Also	SOUR:DATA:TEL:FOTN:FEC:ERR:MAN:TYPE

:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:MANual:TYPE?

Description	This query returns the mantal FOIC error Defect to be injected for FlexO BERT.
	At *RST condition, this value is set to INVMARKER.
	Navigation Path: Results > Alarms/Errors > Injection > FOIC > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:ERRor:MANual:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	INVMARKER: Inv. Marker
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:ERR:MAN:TYPE?
See Also	SOUR:DATA:TEL:FOTN:FEC:ERR:MAN:TYPE

:SOURce:DATA:TELecom:FOTN:FOIC:LANE

Description	This command enables/disables the selection of a lane for FOIC alarms/errors inejction purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (FOIC) > Lane
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:LANE <wsp><Lane>, <Set>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects a lane number.
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the FOIC per lane status.
	ON: Enables the lane.
	OFF: Disables the lane.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:LANE 1,ON
See Also	SOURce:DATA:TELecom:OTN:LANE

:SOURce:DATA:TELecom:FOTN:FOIC:LANE:SKEW:THReshold

Description	This command sets the FOIC excessive lane skew alarm threshold.
	At *RST condition, this value is set to 180 ns.
	Navigation Path: Results > Alarm/Errors > FOICx.y > Skew Alarm Threshold (ns)
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:LANE:SKEW:THReshold <wsp><SkewAlarmThreshold>
Parameter(s)	**SkewAlarmThreshold**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the value of the FOIC excessive lane skew alarm threshold in nanosecond.
	DEFault: To set the default FOIC excessive lane skew alarm threshold
	MINimum: To set the minimum FOIC excessive lane skew alarm threshold
	MAXimum: To set the maximum FOIC excessive lane skew alarm threshold
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:LANE:SKEW:THR 100
	SOUR:DATA:TEL:FOTN:FOIC:LANE:SKEW:THR?
	Returns: 100
	SOUR:DATA:TEL:FOTN:FOIC:LANE:SKEW:THR DEF
	SOUR:DATA:TEL:FOTN:FOIC:LANE:SKEW:THR?
	Returns: 180
See Also	SOURce:DATA:TELecom:FOTN:FOIC:LANE:SKEW:THReshold?

:SOURce:DATA:TELecom:FOTN:FOIC:LANE:SKEW:THReshold?

Description	This query gets the FOIC excessive lane skew alarm threshold configured value,
	At *RST condition, this value is set to 180 ns.
	Navigation Path: Results > Alarm/Errors > FOICx.y > Skew Alarm Threshold (ns)
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:LANE:SKEW:THReshold?[<wsp><Limit>]
Parameter(s)	**Limit**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	When not specified, returns the configured FOIC excessive lane skew alarm threshold value in nanosecond.
	DEFault: Not supported on the query.
	MINimum: Returns the minimum value that can be configured.
	MAXimum: Returns the maximum value that can be configured.
Response Syntax	<ThresholdValue>
Response(s)	**ThresholdValue**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the configured FOIC excessive lane skew alarm threshold value or the minimum/maximum value when the corresponding parameter is used.
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:LANE:SKEW:THR 100
	SOUR:DATA:TEL:FOTN:FOIC:LANE:SKEW:THR?
	Returns: 100
See Also	SOURce:DATA:TELecom:FOTN:FOIC:LANE:SKEW:THReshold
	SOURce:DATA:TELecom:FOTN:FOIC:LANE:SKEW:THReshold:RESet

:SOURce:DATA:TELecom:FOTN:FOIC:LANE?

Description	This query returns the enable/disable seletion status of a lane for FOIC alarms/errors injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (FOIC) > Lane
Syntax	:SOURce:DATA:TELecom:FOTN:FOIC:LANE? <wsp><Lane>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects a lane number.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the selection status of a lane.
	1: The lane is enabled.
	0: The lane is disabled.
Example(s)	SOUR:DATA:TEL:FOTN:FOIC:LAN? 1
See Also	SOUR:DATA:TEL:OTN:OTL:LANE?

:SOURce:DATA:TELecom:GFP:ALARm:CHANnel

Description	This command enables/disables the periodic GFP (Payload) alarm injection.
	At *RST condition, this value is OFF.
	Navigation Path:Results > Alarms/Errors > Injection > GFP > Alarm > Periodic > Inject
Syntax	:SOURce:DATA:TELecom:GFP:ALARm:CHANnel <wsp><SET>
Parameter(s)	**SET**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the periodic alarm Injection.
	ON: Enables the alarm injection.
	OFF: Disables the alarm injection.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:GFP:ALAR:CHAN ON
	SOUR:DATA:TEL:GFP:ALAR:CHAN?
	Returns: 1
See Also	SOURce:DATA:TELecom:GFP:ALARm:CHANnel:UPI?

:SOURce:DATA:TELecom:GFP:ALARm:CHANnel:PERiod

Description	This command selects the periodic GFP (Payload) alarm Period for injection.
	At *RST condition, this value is set to 100 ms.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Alarm > Periodic > Period
Syntax	:SOURce:DATA:TELecom:GFP:ALARm:CHANnel:PERiod <wsp><Period>
Parameter(s)	**Period**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the period. Choices are 10 to 1200 ms.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:GFP:ALAR:CHAN:PER 100
	SOUR:DATA:TEL:GFP:ALAR:CHAN:PER?
	Returns: 100
See Also	SOURce:DATA:TELecom:GFP:ALARm:CHANnel:TYPE?

:SOURce:DATA:TELecom:GFP:ALARm:CHANnel:PERiod?

Description	This query returns the periodic GFP (Payload) alarm Period for injection.
	At *RST condition, this value is set to 100 ms.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Alarm > Periodic > Period
Syntax	:SOURce:DATA:TELecom:GFP:ALARm:CHANnel:PERiod?[<wsp><Period>]
Parameter(s)	**Period**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Returns the period used for injection.
	This parameter is optional. If no token is specified, the current injection period is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Period>
Response(s)	**Period**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns alarm period associated with client management frames.
Example(s)	SOUR:DATA:TEL:GFP:ALAR:CHAN:PER 100
	SOUR:DATA:TEL:GFP:ALAR:CHAN:PER?
	Returns: 100
See Also	SOURce:DATA:TELecom:GFP:ALARm:CHANnel:TYPE

:SOURce:DATA:TELecom:GFP:ALARm:CHANnel:TYPE

Description	This command selects the periodic GFP (Payload) alarm Defect to be injected.
	At *RST condition, this value is set to LOCS.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Alarm > Periodic > Defect
Syntax	:SOURce:DATA:TELecom:GFP:ALARm:CHANnel:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	DCI: GFP-DCI
	FDI: GFP-FDI
	LOCCS: GFP-LOCCS
	LOCS: GFP-LOCS
	RDI: GFP-RDI
	UDCMF: GFP-UserDefined CMF
Response Syntax	<Period>
Example(s)	SOUR:DATA:TEL:GFP:ALAR:CHAN:TYPE LOCS
	SOUR:DATA:TEL:GFP:ALAR:CHAN:TYPE?
	Returns: LOCS
See Also	SOURce:DATA:TELecom:GFP:ALARm:CHANnel:PERiod?

:SOURce:DATA:TELecom:GFP:ALARm:CHANnel:TYPE?

Description	This query returns the periodic GFP (Payload) alarm Defect to be injected.
	At *RST condition, this value is set to LOCS.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Alarm > Periodic > Defect
Syntax	:SOURce:DATA:TELecom:GFP:ALARm:CHANnel:TYPE?
Response Syntax	\<Type\>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA\> element.
	Returns the alarm to be injected:
	DCI: GFP-DCI
	FDI: GFP-FDI
	LOCCS: GFP-LOCCS
	LOCS: GFP-LOCS
	RDI: GFP-RDI
	UDCMF: GFP-UserDefined CMF
Example(s)	SOUR:DATA:TEL:GFP:ALAR:CHAN:TYPE LOCS
	SOUR:DATA:TEL:GFP:ALAR:CHAN:TYPE?
	Returns: LOCS
See Also	SOURce:DATA:TELecom:GFP:ALARm:CHANnel:PERiod

:SOURce:DATA:TELecom:GFP:ALARm:CHANnel:UPI

Description	This command selects the periodic GFP (Payload) alarm User-Defined UPI for injection.
	At *RST condition, this value is set to 0000 0000.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Alarm > Periodic > User-Defined UPI
Syntax	:SOURce:DATA:TELecom:GFP:ALARm:CHANnel:UPI <wsp><UPI>
Parameter(s)	UPI:
	The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the User-Defined UPI.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:GFP:ALAR:CHAN:UPI 0
	SOUR:DATA:TEL:GFP:ALAR:CHAN:UPI?
	Returns: 0
See Also	SOURce:DATA:TELecom:GFP:ALARm:CHANnel?

:SOURce:DATA:TELecom:GFP:ALARm:CHANnel:UPI?

Description	This query returns the periodic GFP (Payload) alarm User-Defined UPI for injection.
	At *RST condition, this value is set to 0000 0000.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Alarm > Periodic > User-Defined UPI
Syntax	:SOURce:DATA:TELecom:GFP:ALARm:CHANnel:UPI?[<wsp><UPI>]
Parameter(s)	**UPI**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current value is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<VALUE>
Response(s)	**VALUE**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the client management frames UPI value when User-defined CMF is selected
Example(s)	SOUR:DATA:TEL:GFP:ALAR:CHAN:UPI 0
	SOUR:DATA:TEL:GFP:ALAR:CHAN:UPI?
	Returns: 0
See Also	SOURce:DATA:TELecom:GFP:ALARm:CHANnel

:SOURce:DATA:TELecom:GFP:ALARm:CHANnel?

Description	This query returns the enable/disable status of the periodic GFP (Payload) alarm injection.
	At *RST condition, this value is OFF.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Alarm > Periodic > Inject
Syntax	:SOURce:DATA:TELecom:GFP:ALARm:CHANnel?
Response Syntax	<VALUE>
Response(s)	**VALUE**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status.
	1: Generation enabled
	0: Generation disabled
Example(s)	SOUR:DATA:TEL:GFP:ALAR:CHAN ON
	SOUR:DATA:TEL:GFP:ALAR:CHAN?
	Returns: 1
See Also	SOURce:DATA:TELecom:GFP:ALARm:CHANnel:UPI

:SOURce:DATA:TELecom:GFP:ALARm:FRAMe

Description	This command enables/disables the continuous GFP (Core Header) alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:GFP:ALARm:FRAMe <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<VALUE>
Example(s)	SOUR:DATA:TEL:GFP:ALAR:FRAM ON
	SOUR:DATA:TEL:GFP:ALAR:FRAM?
	Returns: 1
See Also	SOURce:DATA:TELecom:GFP:ALARm:FRAMe:TYPE?

:SOURce:DATA:TELecom:GFP:ALARm:FRAMe:TYPE

Description	This command selects the continuous GFP (Core Header) alarm Defect to be injected.
	At *RST condition, this value is set to GFP-LFD.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:GFP:ALARm:FRAMe:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	LFD: GFP-LFD
Response Syntax	<VALUE>
Example(s)	SOUR:DATA:TEL:GFP:ALAR:FRAM:TYPE LFD
	SOUR:DATA:TEL:GFP:ALAR:FRAM:TYPE?
	Returns: LFD
See Also	SOURce:DATA:TELecom:GFP:ALARm:FRAMe?

:SOURce:DATA:TELecom:GFP:ALARm:FRAMe:TYPE?

Description	This query returns the continuous GFP (Core Header) alarm Defect to be injected.
	At *RST condition, this value is set to GFP-LFD.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:GFP:ALARm:FRAMe:TYPE?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm to be injected:
	LFD: GFP-LFD
Example(s)	SOUR:DATA:TEL:GFP:ALAR:FRAM:TYPE LFD
	SOUR:DATA:TEL:GFP:ALAR:FRAM:TYPE?
	Returns: LFD
See Also	SOURce:DATA:TELecom:GFP:ALARm:FRAMe

:SOURce:DATA:TELecom:GFP:ALARm:FRAMe?

Description	This query returns the enable/disable status of the continuous GFP (Core Header) alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:GFP:ALARm:FRAMe?
Response Syntax	<SET>
Response(s)	**SET**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status.
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:GFP:ALAR:FRAM ON
	SOUR:DATA:TEL:GFP:ALAR:FRAM?
	Returns: 1
See Also	SOURce:DATA:TELecom:GFP:ALARm:FRAMe:TYPE

:SOURce:DATA:TELecom:GFP:CONFig:CMF

Description	This command enables/disables the CMF.
	At *RST condition, this value is ON.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Results > Alarms/Errors > GFP-F > CMF
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > Alarms/Errors > GFP-T > CMF
Syntax	:SOURce:DATA:TELecom:GFP:CONFig:CMF <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<SET>
Example(s)	SOUR:DATA:TEL:GFP:CONF:CMF ON
	SOUR:DATA:TEL:GFP:CONF:CMF?
	Returns: 1
See Also	SOURce:DATA:TELecom:GFP:CHANnel:CONFig:TYPE?

:SOURce:DATA:TELecom:GFP:CONFig:CMF?

Description	This query returns the status of CMF.
	At *RST condition, this value is OFF.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Results > Alarms/Errors > GFP-F > CMF
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > Alarms/Errors > GFP-T > CMF
Syntax	:SOURce:DATA:TELecom:GFP:CONFig:CMF?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the CMF.
	1, returns the CMF as ON.
	0, returns the CMF as OFF.
Example(s)	SOUR:DATA:TEL:GFP:CONF:CMF ON
	SOUR:DATA:TEL:GFP:CONF:CMF?
	Returns: 1
See Also	SOURce:DATA:TELecom:GFP:CHANnel:CONFig:TYPE

:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AMOunt

Description	This command sets the manual GFP (Payload) error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected. Choices are 1 to 50.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:GFP:ERR:CHAN:AMO 50
	SOUR:DATA:TEL:GFP:ERR:CHAN:AMO?
	Returns: 50
See Also	SOURce:DATA:TELecom:GFP:ERRor:CHANnel:MANual:TYPE?

:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AMOunt?

Description	This query returns the manual GFP (Payload) error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AMOunt?[<wsp><Amount>]
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
Response Syntax	<AMOUNT>
Response(s)	**AMOUNT**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns amount for the GFP manual error to be geneeated for Channel.
Example(s)	SOUR:DATA:TEL:GFP:ERR:CHAN:AMO 50
	SOUR:DATA:TEL:GFP:ERR:CHAN:AMO?
	Returns: 50
See Also	SOURce:DATA:TELecom:GFP:ERRor:CHANnel:MANual:TYPE

:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated

Description	This command enables/disables the Rate/Max Rate GFP (Payload) error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Rate/Max Rate > Inject
	This query returns the enable/disable status of the Rate/Max Rate GFP error injection.
	Returns the enable/disable injection status.
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables the error injection.
	OFF: Disables the error injection.
Response Syntax	<AMOUNT>
Example(s)	SOUR:DATA:TEL:GFP:ERR:CHAN:AUT ON
	SOUR:DATA:TEL:GFP:ERR:CHAN:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:CONTinuous

Description	This command sets the automated GFP (Payload) error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Mode
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:CONTinuous <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<AMOUNT>
Example(s)	SOUR:DATA:TEL:GFP:ERR:CHAN:AUT:CONT ON
	SOUR:DATA:TEL:GFP:ERR:CHAN:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated?

:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:CONTinuous?

Description	This query returns the automated GFP (Payload) error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Mode
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:CONTinuous?
Response Syntax	<SET>
Response(s)	**SET**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:GFP:ERR:CHAN:AUT:CONT ON
	SOUR:DATA:TEL:GFP:ERR:CHAN:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated

:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:RATE

Description	This command sets the automated GFP (Payload) error Rate to be injected.
	At *RST condition, this value is set to 1.0E-01.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
Response Syntax	<SET>
Example(s)	SOUR:DATA:TEL:GFP:ERR:CHAN:AUT:RATE 1.2E-09
	SOUR:DATA:TEL:GFP:ERR:CHAN:AUT:RATE?
	Returns: 1.2E-09
See Also	SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:TYPE?

:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:RATE?

Description	This query returns the automated GFP (Payload) error Rate to be injected.
	At *RST condition, this value is set to 1.0E-01.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Returns the rate of error to be injected.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<RATE>
Response(s)	**RATE**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the injection rate for the selected GFP automated error for Channel.
Example(s)	SOUR:DATA:TEL:GFP:ERR:CHAN:AUT:RATE 1.2E-09
	SOUR:DATA:TEL:GFP:ERR:CHAN:AUT:RATE?
	Returns: 1.2E-09
See Also	SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:TYPE

:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:TYPE

Description	This command selects the automated GFP (Payload) error Defect to be injected.
	At *RST condition, this value is set to tHEC-CORRectable.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	CODERR: GFP-10B_ERR
	ECORRect: GFP-eHEC-CORR
	EUCORRect: GFP-eHEC-UNCORR
	PFCS: GFP-pFCS
	SUCORRPRE: GFP-SB-CORR (Pre)
	SUCORRPOST: GFP-SB-CORR (Post)
	SUUNCORR: GFP-SB-UNCORR
	TCORRect: GFP-tHEC-CORR
	TUCORRect: GFP-tHEC-UNCORR
Response Syntax	<RATE>
Example(s)	SOUR:DATA:TEL:GFP:ERR:CHAN:AUT:TYPE TCORR
	SOUR:DATA:TEL:GFP:ERR:CHAN:AUT:TYPE?
	Returns: TCORR
See Also	SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:RATE?

:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:TYPE?

Description	This query returns the automated GFP (Payload) error Defect to be injected.
	At *RST condition, this value is set to tHEC-CORRectable.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:TYPE?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	CODERR: GFP-10B_ERR
	ECORRect: GFP-eHEC-CORR
	EUCORRect: GFP-eHEC-UNCORR
	PFCS: GFP-pFCS
	SUCORRPRE: GFP-SB-CORR (Pre)
	SUCORRPOST: GFP-SB-CORR (Post)
	SUUNCORR: GFP-SB-UNCORR
	TCORRect: GFP-tHEC-CORR
	TUCORRect: GFP-tHEC-UNCORR
Example(s)	SOUR:DATA:TEL:GFP:ERR:CHAN:AUT:TYPE TCORR
	SOUR:DATA:TEL:GFP:ERR:CHAN:AUT:TYPE?
	Returns: TCORR
See Also	SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:RATE

:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate GFP (Payload) error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated?
Response Syntax	<SET>
Response(s)	**SET**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:GFP:ERR:CHAN:AUT ON
	SOUR:DATA:TEL:GFP:ERR:CHAN:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated:CONTinuous

:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:INJect

Description	This command enables/disables the manual GFP (Payload) error injection.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:INJect
Response Syntax	<SET>
Example(s)	SOUR:DATA:TEL:GFP:ERR:CHAN:INJ
See Also	SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AUTomated?

:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:MANual:TYPE

Description	This command selects the manual GFP (Payload) error Defect to be injected.
	At *RST condition, this value is set to tHEC-CORRectable.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	CODERR: GFP-10B_ERR
	ECORRect: GFP-eHEC-CORR
	EUCORRect: GFP-eHEC-UNCORR
	PFCS: GFP-pFCS
	SUCORRPRE: GFP-SB-CORR (Pre)
	SUCORRPOST: GFP-SB-CORR (Post)
	SUUNCORR: GFP-SB-UNCORR
	TCORRect: GFP-tHEC-CORR
	TUCORRect: GFP-tHEC-UNCORR
Response Syntax	<SET>
Example(s)	SOUR:DATA:TEL:GFP:ERR:CHAN:MAN:TYPE TCORR
	SOUR:DATA:TEL:GFP:ERR:CHAN:MAN:TYPE?
	Returns: TCORR
See Also	SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AMOunt?

:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:MANual:TYPE?

Description	This query returns the manual GFP (Payload) error Defect to be injected.
	At *RST condition, this value is set to tHEC-CORRectable.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:CHANnel:MANual:TYPE?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	CODERR: GFP-10B_ERR
	ECORRect: GFP-eHEC-CORR
	EUCORRect: GFP-eHEC-UNCORR
	PFCS: GFP-pFCS
	SUCORRPRE: GFP-SB-CORR (Pre)
	SUCORRPOST: GFP-SB-CORR (Post)
	SUUNCORR: GFP-SB-UNCORR
	TCORRect: GFP-tHEC-CORR
	TUCORRect: GFP-tHEC-UNCORR
Example(s)	SOUR:DATA:TEL:GFP:ERR:CHAN:MAN:TYPE TCORR
	SOUR:DATA:TEL:GFP:ERR:CHAN:MAN:TYPE?
	Returns: TCORR
See Also	SOURce:DATA:TELecom:GFP:ERRor:CHANnel:AMOunt

:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AMOunt

Description	This command sets the manual GFP (Core Header) error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected. Choices are 1 to 50.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:GFP:ERR:FRAM:AMO 40
	SOUR:DATA:TEL:GFP:ERR:FRAM:AMO?
	Returns: 40
See Also	SOURce:DATA:TELecom:GFP:ERRor:FRAMe:MANual:TYPE?

:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AMOunt?

Description	This query returns the manual GFP (Core Header) error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AMOunt?[<wsp><Amount>]
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of GFP error for manual injection for Frame.
Example(s)	SOUR:DATA:TEL:GFP:ERR:FRAM:AMO 40
	SOUR:DATA:TEL:GFP:ERR:FRAM:AMO?
	Returns: 40
See Also	SOURce:DATA:TELecom:GFP:ERRor:FRAMe:MANual:TYPE

:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated

Description	This command enables/disables the Rate/Max Rate GFP (Core Header) error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: disables error injection.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:GFP:ERR:FRAM:AUT ON
	SOUR:DATA:TEL:GFP:ERR:FRAM:AUT?
	Returns: 1
See Also	SOURce:TELecom:GFP:ERRor:CHANnel:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated:CONTinuous

Description	This command sets the automated GFP (Core Header) error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Mode
	This query returns the automated GFP error Mode: ON for Max Rate and OFF for Rate.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated:CONTinuous <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:GFP:ERR:FRAM:AUT:CONT ON
	SOUR:DATA:TEL:GFP:ERR:FRAM:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated?

:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated:CONTinuous?

Description	This query returns the automated GFP (Core Header) error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Mode
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated:CONTinuous?
Response Syntax	<SET>
Response(s)	**SET**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:GFP:ERR:FRAM:AUT:CONT ON
	SOUR:DATA:TEL:GFP:ERR:FRAM:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated

:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated:RATE

Description	This command sets the automated GFP (Core Header) error Rate to be injected.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<SET>
Example(s)	SOUR:DATA:TEL:GFP:ERR:FRAM:AUT:RATE 1.2E-09
	SOUR:DATA:TEL:GFP:ERR:FRAM:AUT:RATE?
	Returns: 1.2E-09
See Also	SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated:TYPE?

:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated:RATE ?

Description	This query returns the automated GFP (Core Header) error Rate to be injected.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current value is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the injection rate for the selected GFP error for Frame.
Example(s)	SOUR:DATA:TEL:GFP:ERR:FRAM:AUT:RATE 1.2E-09
	SOUR:DATA:TEL:GFP:ERR:FRAM:AUT:RATE?
	Returns: 1.2E-09
See Also	SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated:TYPE

:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated:TYPE

Description	This command selects the automated GFP (Core Header) error Defect to be injected.
	At *RST condition, this value is set to GFP-cHEC-CORR error.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	CORRectable: GFP-cHEC-CORR
	UCORrectable: GFP-cHEC-UNCORR
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:GFP:ERR:FRAM:AUT:TYPE CORR
	SOUR:DATA:TEL:GFP:ERR:FRAM:AUT:TYPE?
	Returns: CORR
See Also	SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated:RATE?

:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated:TYPE?

Description	This query returns the automated GFP (Core Header) error Defect to be injected.
	At *RST condition, this value is set to GFP-cHEC-CORR error.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated:TYPE?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	CORRectable: GFP-cHEC-CORR
	UCORrectable: GFP-cHEC-UNCORR
Example(s)	SOUR:DATA:TEL:GFP:ERR:FRAM:AUT:TYPE UCOR
	SOUR:DATA:TEL:GFP:ERR:FRAM:AUT:TYPE?
	Returns: UCOR
See Also	SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated:RATE

:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate GFP (Core Header) error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated?
Response Syntax	<SET>
Response(s)	**SET**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:GFP:ERR:FRAM:AUT ON
	SOUR:DATA:TEL:GFP:ERR:FRAM:AUT?
	Returns: 1
See Also	SOURce:TELecom:GFP:ERRor:CHANnel:AUTomated:CONTinuous

:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:INJect

Description	This command enables/disables the manual GFP (Core Header) error injection.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:INJect
Response Syntax	<SET>
Example(s)	SOUR:DATA:TEL:GFP:ERR:FRAM:INJ
See Also	SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AUTomated?

:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:MANual:TYPE

Description	This command selects the manual GFP (Core Header) error Defect to be injected.
	At *RST condition, this value is set to GFP-cHEC-CORR Frame error.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	CORRectable: GFP-cHEC-CORR
	UCORrectable: GFP-cHEC-UNCORR
Response Syntax	<SET>
Example(s)	SOUR:DATA:TEL:GFP:ERR:FRAM:MAN:TYPE UCOR
	SOUR:DATA:TEL:GFP:ERR:FRAM:MAN:TYPE?
	Returns: UCOR
See Also	SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AMOunt?

:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:MANual:TYPE?

Description	This query returns the manual GFP (Core Header) error Defect to be injected.
	At *RST condition, this value is set to GFP-cHEC-CORR error.
	Navigation Path: Results > Alarms/Errors > Injection > GFP > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:GFP:ERRor:FRAMe:MANual:TYPE?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	CORRectable: GFP-cHEC-CORR
	UCORrectable: GFP-cHEC-UNCORR
Example(s)	SOUR:DATA:TEL:GFP:ERR:FRAM:MAN:TYPE CORR
	SOUR:DATA:TEL:GFP:ERR:FRAM:MAN:TYPE?
	Returns: CORR
See Also	SOURce:DATA:TELecom:GFP:ERRor:FRAMe:AMOunt

:SOURce:DATA:TELecom:OPTical:ALARm:PORT

Description	This command enables/disables the continuous Interface alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:OPTical:ALARm:PORT <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enabled
	OFF: Disabed
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:OPT:ALAR:PORT ON
	SOUR:DATA:TEL:OPT:ALAR:PORT?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical?
	SOURce:DATA:TELecom:OPTical:ALARm:PORT:LANE
	SOURce:DATA:TELecom:OPTical:ALARm:PORT:LANE?

:SOURce:DATA:TELecom:OPTical:ALARm:PORT:ALANes

Description	This command enables/disables the selection of all lanes for alarms injection purposes.
	This command is not associated with any *RST condition.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (Interface) > All lanes
	Navigation Path: Results > Summary (Unframed BERT) > Inject > Layer (Interface) > All lanes
Syntax	:SOURce:DATA:TELecom:OPTical:ALARm:PORT:ALANes <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables the selection of all lanes.
	ON: Selects all lanes
	OFF: Unselects all lanes
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:OPT:ALAR:PORT:ALAN ON
	SOUR:DATA:TEL:OPT:ALAR:PORT:ALAN?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTL:LANE
	SOURce:DATA:TELecom:OPTical:ALARm:PORT:LANE

:SOURce:DATA:TELecom:OPTical:ALARm:PORT:ALANes?

Description	This query returns the enable/disable selection status of all lanes for alarm injection purposes.
	This command is not associated with any *RST condition.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (Interface) > All lanes
	Navigation Path: Results > Summary (Unframed BERT) > Inject > Layer (Interface) > All lanes
Syntax	:SOURce:DATA:TELecom:OPTical:ALARm:PORT:ALANes?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable selection status of all lanes.
	1: All lanes are enabled.
	0: None or not all lanes are enabled.
Example(s)	SOUR:DATA:TEL:OPT:ALAR:PORT:ALAN ON
	SOUR:DATA:TEL:OPT:ALAR:PORT:ALAN?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTL:LANE ?
	SOURce:DATA:TELecom:OPTical:ALARm:PORT:LANE

:SOURce:DATA:TELecom:OPTical:ALARm:PORT:LANE

Description	This command enables/disables the selection of a lane for Interface alarm injection purposes.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > Inject > Interface > Lane
Syntax	:SOURce:DATA:TELecom:OPTical:ALARm:PORT:LANE <wsp><Lane>, <Set>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects a lane number.
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables the selection of a lane.
	ON: Enables the lane.
	OFF: Disables the lane.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OPT:ALAR:PORT:LANE 1, ON
	SOUR:DATA:TEL:OPT:ALAR:PORT:LANE? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTL:ALANes
	SOURce:DATA:TELecom:OPTical:ALARm:PORT:ALANes

:SOURce:DATA:TELecom:OPTical:ALARm:PORT:LANE?

Description	This query returns the enable/disable selection status of a lane for Interface alarm injection purposes.
	At *RST condition, this value is device-dependent.
	Navigation Path: Results > Alarms/Errors > Inject > Interface > Lane
Syntax	:SOURce:DATA:TELecom:OPTical:ALARm:PORT:LANE? <wsp><Lane>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects a lane number.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable selection status of a lane.
	1: The lane is enabled.
	0: The lane is disabled.
Example(s)	SOUR:DATA:TEL:OPT:ALAR:PORT:LANE 1, ON
	SOUR:DATA:TEL:OPT:ALAR:PORT:LANE? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTL:ALANes?
	SOURce:DATA:TELecom:OPTical:ALARm:PORT:ALANes

:SOURce:DATA:TELecom:OPTical:ALARm:PORT:TYPE?

Description	This query returns the continuous Interface (Optical) alarm Defect to be injected.
	At *RST condition, this value is set to LOS.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:OPTical:ALARm:PORT:TYPE?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm to be injected:
	LOS
Example(s)	SOUR:DATA:TEL:OPT:ALAR:PORT:TYPE?
	Returns: LOS
See Also	SOURce:DATA:TELecom:ELECtrical:ALARm:PORT?

:SOURce:DATA:TELecom:OPTical:ALARm:PORT?

Description	This query returns the enable/disable status of the continuous Interface alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Interface > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:OPTical:ALARm:PORT?
Response Syntax	\<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status.
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OPT:ALAR:PORT ON
	SOUR:DATA:TEL:OPT:ALAR:PORT?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:ALARm:PHYSical
	SOURce:DATA:TELecom:OPTical:ALARm:PORT:LANE
	SOURce:DATA:TELecom:OPTical:ALARm:PORT:LANE?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]

Description	This command enables/disables the continuous ODU alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODUn > Alarm > Continuous > Inject
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n] <wsp><Inject>
Parameter(s)	Inject:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:TYPE OFSF
	SOUR:DATA:TEL:OTN:ALAR:ODU1 ON
	SOUR:DATA:TEL:OTN:ALAR:ODU1?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:ACHAnnel

Description	This query returns if LO ODU alarm injection is done on All Channels for Multi-Channel OTN.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODUn > Alarm > Continuous > Channel - All
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:ACHAnnel <wsp><AllChannel>
Parameter(s)	**AllChannel**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:ACHA ON
See Also	SOURce:DATA:TEL:OTN:ALAR:ODU[1..n]:CHAN

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:ACHAnnel?

Description	This query returns if LO ODU alarm injection is done on All Channels for Multi-Channel OTN.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODUn > Alarm > Continuous > Channel - All
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:ACHAnnel?
Response Syntax	<AllChannel>
Response(s)	**AllChannel**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns an indication that the LO ODU alarm injection is done on ALL channels, in the Multi-Channel OTN test application.
	1, injection is done on all channels.
	0, injection is done on a specific channel.
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:ACHA ON
	SOUR:DATA:TEL:OTN:ALAR:ODU1:ACHA?
	Returns: 1
See Also	SOURce:DATA:TEL:OTN:ALAR:ODU[1..n]:CHAN

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:CHANnel

Description	This command selects the channel used for LO ODU alarm injection, when All Channel is not selected, for Multi-Channel OTN.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > ODUn > Alarm > Continuous > Channel
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:CHANnel <wsp><Channel>
Parameter(s)	**Channel**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the channel for alarm injection.
Response Syntax	<AllChannel>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:CHAN 5
See Also	SOURce:DATA:TEL:OTN:ALAR:ODU[1..n]:ACHA

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:CHANnel?

Description	This query returns the channel number or client ID used for alarm injection, when All channels is not selected, for Multi-Channel OTN and FlexO BERT test.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > ODUn > Alarm > Continuous > Channel
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:CHANnel?
Response Syntax	<Channel Number or Client ID>
Response(s)	**Channel Number or Client ID**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the channel number or client ID used for alarm injection, when All channels is not selected, for Multi-Channel OTN and FlexO BERT test
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:CHAN 5
	SOUR:DATA:TEL:OTN:ALAR:ODU1:CHAN?
	Returns: 5
See Also	SOURce:DATA:TEL:OTN:ALAR:ODU[1..n]:ACHA

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]

Description	This command enables/disables the continuous ODU1e/2e/3e1/3e2 alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Alarm > Continuous > Inject
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n] <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<Channel Number or Client ID>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TYPE OFSF
	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1 ON
	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]

Description	This command enables/disables the continuous ODU1e/2e/3e1/3e2 TCM alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Alarm > Continuous > Inject
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n] <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<Channel Number or Client ID>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TCM1:TYPE TLTC
	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TCM1 ON
	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TCM1?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:TYPE

Description	This command selects the continuous ODU1e/2e/3e1/3e2 TCM alarm Defect to be injected.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Alarm > Continuous > Defect
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	TBDI: BDI
	TBIAE: BIAE
	TIAE: IAE
	TLTC: LTC
Response Syntax	<Channel Number or Client ID>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TCM1:TYPE TLTC
	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TCM1:TYPE?
	Returns: TLTC
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:TYPE?

Description	This query returns the continuous ODU1e/2e/3e1/3e2 TCM alarm Defect to be injected.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Alarm > Continuous > Defect
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]:TYPE?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm to be injected:
	TBDI: BDI
	TBIAE: BIAE
	TIAE: IAE
	TLTC: LTC
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TCM1:TYPE TLTC
	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TCM1:TYPE?
	Returns: TLTC
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]?

Description	This query returns the enable/disable status of the continuous ODU1e/2e/3e1/3e2 TCM alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Alarm > Continuous > Inject
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TCM[1..n]?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TCM1:TYPE TLTC
	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1 ON
	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TCM1?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE

Description	This command selects the continuous ODU1e/2e/3e1/3e2 alarm Defect to be injected.
	At *RST condition, this value is set to OAIS.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Alarm > Continuous > Defect
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	LOFLom: LOFLOM
	OAIS: AIS
	OBDi: BDI
	OBSD: BSD
	OBSF: BSF
	OFSD: FSD
	OFSF: FSF
	OLCK: LOCK
	OOCI: OCI
	OTIM: TIM
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TYPE OFSF
	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TYPE?
	Returns: OFSF
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E:[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE?

Description	This query returns the continuous ODU1e/2e/3e1/3e2 alarm Defect to be injected.
	At *RST condition, this value is set to OAIS.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Alarm > Continuous > Defect
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm to be injected:
	LOFLom: LOFLOM
	OAIS: AIS
	OBDi: BDI
	OBSD: BSD
	OBSF: BSF
	OFSD: FSD
	OFSF: FSF
	OLCK: LOCK
	OOCI: OCI
	OTIM: TIM
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TYPE OFSF
	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TYPE?
	Returns: OFSF
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]?

Description	This query returns the enable/disable status of the continuous ODU1e/2e/3e1/3e2 alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Alarm > Continuous > Inject
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1:TYPE OFSF
	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1 ON
	SOUR:DATA:TEL:OTN:ALAR:ODU3:E1?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F

Description	This command enables/disables the Optical Channel Data Unit (ODU) alarm generation for non-standard rates OTU(1/2)f
	At *RST condition, this value is set to OFF.
	Navigation Path: Test > OTN BERT > Results > Alarms/Errors > Global Injection > Layer (ODU(1/2)f) > Type (Alarms) > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F <wsp><Status>
Parameter(s)	Status:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TYPE OFSF
	SOUR:DATA:TEL:OTN:ALAR:ODU1:F ON
	SOUR:DATA:TEL:OTN:ALAR:ODU1:F?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]

Description	This command enables/disables the continuous ODU1f/2f TCM alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n] <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TCM1:TYPE TLTC
	SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TCM1 ON
	SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TCM1:?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]: TYPE

Description	This command selects the continuous ODU1f/2f TCM alarm Defect to be injected.
	At *RST condition, this value is set to OAIS.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	TBDI: BDI
	TBIAE: BIAE
	TIAE: IAE
	TLTC: LTC
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TCM1:TYPE TLTC
	SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TCM1:TYPE?
	Returns: TLTC
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]: TYPE?

Description	This query returns the continuous ODU1f/2f TCM alarm Defect to be injected.
	At *RST condition, this value is set to OAIS.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]:TYPE?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm to be injected:
	TBDI: BDI
	TBIAE: BIAE
	TIAE: IAE
	TLTC: LTC
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TCM1:TYPE TLTC
	SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TCM1:TYPE?
	Returns: TLTC
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]?

Description	This query returns the enable/disable status of the continuous ODU1f/2f TCM alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TCM[1..n]?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TCM1:TYPE TLTC
	SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TCM1 ON
	SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TCM1?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TYPE

Description	This command selects the continuous ODU1f/2f TCM alarm Defect to be injected.
	At *RST condition, this value is set to OAIS.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	OAIS: AIS
	OBDi: BDI
	OBSD: BSD
	OBSF: BSF
	OFSD: FSD
	OFSF: FSF
	OLCK: LCK
	OOCI: OCI
	OTIM: TIM
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TYPE OFSF
	SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TYPE?
	Returns: OFSF
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E:[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TYPE?

Description	This query returns the continuous ODU1f/2f TCM alarm Defect to be injected.
	At *RST condition, this value is set to OAIS.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F:TYPE?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm to be injected:
	OAIS: AIS
	OBDI: BDI
	OBSD: BSD
	OBSF: BSF
	OFSD: FSD
	OFSF: FSF
	OLCK: LCK
	OOCI: OCI
	OTIM: TIM
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TYPE OFSF
	SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TYPE?
	Returns: OFSF
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F?

Description	This query returns the status of the Optical Data Unit (ODU) alarm generation for non-standard rates OTU(1/2)f
	At *RST condition, this value is set to OFF.
	Navigation Path: Test > OTN BERT > Results > Alarms/Errors > Global Injection > Layer (ODU(1/2)f) > Type (Alarm) > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:F?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of Optical Data Unit (ODU) alarm generation.
	1, status of Optical Data Unit (ODU) alarm is enabled
	0, status of Optical Data Unit (ODU) alarm is disabled
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:F:TYPE OFSF
	SOUR:DATA:TEL:OTN:ALAR:ODU1:F ON
	SOUR:DATA:TEL:OTN:ALAR:ODU1:F?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:E[1..n]

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC

Description	This command enables/disables the selection of an OTUC for ODUCn alarms injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (ODUCn) > OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC <wsp><OTUC #>, <Set>
Parameter(s)	**OTUC #**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects OTUC number
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the ODUCn per OTUC status.
	ON: Enables the OTUC.
	OFF: Disables the OTUC.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU200:OTUC 1, ON
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:OTUC

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC:ALL

Description	This command enables/disables the selection of all OTUC for ODUCn alarms injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (ODUCn) > All OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC:ALL <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables the selection of all OTUC.
	ON: Selects all OTUC
	OFF: Unselects all OTUC
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU200:OTUC:ALL ON
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:OTUC:ALL

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC:ALL?

Description	This query returns the enable/disable selection status of all OTUC for ODUCn alarms injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer(ODUCn) > All OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC:ALL?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable selection status of all OTUC.
	1: All OTUC are enabled.
	0: None or not all OTUC are enabled.
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU200:OTUC:ALL?
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:OTUC:ALL?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC?

Description	This query returns the enable/disable selection status of an OTUC for ODUCn alarms injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (ODUCn) > OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC? <wsp><OTUC #>
Parameter(s)	**OTUC #**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects OTUC number
Response Syntax	<Set>
Response(s)	**Set**: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the OTUC status for ODUC alarm injection. 1: The OTUC is enabled. 0: The OTUC is disabled.
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU200:OTUC? 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:OTUC?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]

Description	This command enables/disables the continuous ODU TCM alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n] <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU3:TCM1 ON
	SOUR:DATA:TEL:OTN:ALAR:ODU3:TCM1?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:TYPE

Description	This command selects the continuous ODU TCM alarm Defect to be injected.
	At *RST condition, this value is set to TLTC.
	Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	TBDI: BDI
	TBIAE: BIAE
	TIAE: IAE
	TLTC: LTC
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU3:TCM1:TYPE TLTC
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:TYPE?

Description	This query returns the continuous ODU TCM alarm Defect to be injected.
	At *RST condition, this value is set to TLTC.
	Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:TYPE?
Response Syntax	\<Alarm\>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA\> element.
	Returns the alarm to be injected:
	TBDI: BDI
	TBIAE: BIAE
	TIAE: IAE
	TLTC: LTC
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU3:TCM1:TYPE TLTC
	SOUR:DATA:TEL:OTN:ALAR:ODU3:TCM1:TYPE?
	Returns: TLTC
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]?

Description	This query returns the enable/disable status of the continuous ODU TCM alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU3:TCM1?
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE

Description	This command selects the continuous ODU alarm Defect to be injected.
	At *RST condition, this value is set to OAIS.
	Navigation Path: Results > Alarms/Errors > Injection > ODUn > Alarm > Continuous > Defect
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	OAIS: ODU-AIS
	OBDi: ODU-BDI
	OLCK: ODU-LCK
	OOCI: ODU-OCI
	OFSF: ODU-FSF
	OBSF: ODU-BSF
	OFSD: ODU-FSD
	OBSD: ODU-BSD
	LOFLom, ODU-LOFLOM
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:TYPE OFSF
	SOUR:DATA:TEL:OTN:ALAR:ODU1:TYPE?
	Returns: OFSF
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE?

Description	This query returns the continuous ODU alarm Defect to be injected.
	At *RST condition, this value is set to OAIS.
	Navigation Path: Results > Alarms/Errors > Injection > ODUn > Alarm > Continuous > Defect
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm to be injected:
	OAIS: ODU-AIS
	OBDi: ODU-BDI
	OLCK: ODU-LCK
	OOCI: ODU-OCI
	OFSF: ODU-FSF
	OBSF: ODU-BSF
	OFSD: ODU-FSD
	OBSD: ODU-BSD
	LOFLom, ODU-LOFLOM
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:TYPE OFSF
	SOUR:DATA:TEL:OTN:ALAR:ODU1:TYPE?
	Returns: OFSF
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]?

Description	This query returns the enable/disable status of the continuous ODU alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODUn > Alarm > Continuous > Inject
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]?
Response Syntax	\<Set\>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA\> element.
	Returns the enable/disable injection status.
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ALAR:ODU1:TYPE OFSF
	SOUR:DATA:TEL:OTN:ALAR:ODU1 ON
	SOUR:DATA:TEL:OTN:ALAR:ODU1?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]

Description	This command enables/disables the continuous OPU / OPU3e1/e2 alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Alarm > Continuous > Inject
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n] <wsp><Inject>
Parameter(s)	Inject:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:TYPE OAIS
	SOUR:DATA:TEL:OTN:ALAR:OPU1 ON
	SOUR:DATA:TEL:OTN:ALAR:OPU1?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:ACHAnnel

Description	This command selects if LO OPU alarm injection is done on ALL channels, in the Multi-Channel OTN test application.
	At *RST condition, this value is set to OFF.
	Navigation Path: Test > Multi-Channel OTN > Results > Alarms/Errors > Global Injection > Layer (ODU)
	NOTE: For OPU[1..n], use OPU100 for OPU0 and OPU101 for OPUflex.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:ACHAnnel <wsp><AllChannel>
Parameter(s)	**AllChannel**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:ACHA ON
See Also	SOURce:DATA:TEL:OTN:ALAR:OPU[1..n]:CHAN

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:ACHAnnel?

Description	This query returns if LO OPU alarm injection is done on ALL channels, in the Multi-Channel OTN test application.
	At *RST condition, this value is set to OFF.
	Navigation Path: Test > Multi-Channel OTN > Results > Alarms/Errors > Global Injection > Layer (ODU)
	NOTE: For OPU[1..n], use OPU100 for OPU0 and OPU101 for OPUflex.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:ACHAnnel?
Response Syntax	\<AllChannel\>
Response(s)	**AllChannel**:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA\> element.
	Returns an indication that the LO OPU alarm injection is done on ALL channels, in the Multi-Channel OTN test application.
	1, injection is done on all channels.
	0, injection is done on a specific channel.
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:ACHA ON
	SOUR:DATA:TEL:OTN:ALAR:OPU1:ACHA?
	Returns: 1
See Also	SOURce:DATA:TEL:OTN:ALAR:OPU[1..n]:CHAN

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:CHANnel

Description	This command selects the channel number or client ID used for alarm injection, when command AllCHAnnel is 'OFF', for the Multi-Channel OTN and FlexO BERT test.
	At *RST condition, this value is set to 1.
	Navigation Path: Test > Multi-Channel OTN > Results > Alarms/Errors > Global Injection > Layer (ODU)
	NOTE: For OPU[1..n], use OPU100 for OPU0 and OPU101 for OPUflex.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:CHANnel <wsp><Channel Number or Client ID>
Parameter(s)	**Channel Number or Client ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the channel number or client ID used for alarm injection, when command AllCHAnnel is 'OFF', for the Multi-Channel OTN and FlexO BERT test.
Response Syntax	<AllChannel>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:CHAN 5
See Also	SOURce:DATA:TEL:OTN:ALAR:OPU[1..n]:ACHA

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:CHANnel?

Description	This query returns the channel number or client ID used for alarm injection, when command AllCHAnnel is 'OFF', for the Multi-Channel OTN and FlexO BERT test.
	At *RST condition, this value is set to 1.
	Navigation Path: Test > Multi-Channel OTN > Results > Alarms/Errors > Global Injection > Layer (ODU)
	NOTE: For OPU[1..n], use OPU100 for OPU0 and OPU101 for OPUflex.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:CHANnel?
Response Syntax	<Channel Number or Client ID>
Response(s)	**Channel Number or Client ID**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the channel number or client ID used for alarm injection, when command AllCHAnnel is 'OFF', for the Multi-Channel OTN and FlexO BERT test.
	'n', injection is done on channel or clien ID 'n', when AllCHAnnel is 'OFF'.
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:CHAN 5
	SOUR:DATA:TEL:OTN:ALAR:OPU1:CHAN?
	Returns: 5
See Also	SOURce:DATA:TEL:OTN:ALAR:OPU[1..n]:ACHA

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:E

Description	This command enables/disables the continuous OPU1e/2e alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OPU1e/2e > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:E <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<Channel Number or Client ID>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:E:TYPE OAIS
	SOUR:DATA:TEL:OTN:ALAR:OPU1:E ON
	SOUR:DATA:TEL:OTN:ALAR:OPU1:E?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:E:TYPE

Description	This command selects the continuous OPU1e/2e alarm Defect to be injected.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Injection > OPU1e/2e > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:E:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	OAIS: AIS
	OCSF: CSF
	OMSim: MSIM
Response Syntax	<Channel Number or Client ID>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:E:TYPE OAIS
	SOUR:DATA:TEL:OTN:ALAR:OPU1:E:TYPE?
	Returns: OAIS
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:E:TYPE?

Description	This query returns the continuous OPU1e/2e alarm Defect to be injected.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Injection > OPU1e/2e > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:E:TYPE?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm to be injected:
	OAIS: AIS
	OCSF: CSF
	OMSim: MSIM
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:E:TYPE OAIS
	SOUR:DATA:TEL:OTN:ALAR:OPU1:E:TYPE?
	Returns: OAIS
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:E?

Description	This query returns the enable/disable status of the continuous OPU1e/2e alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OPU1e/2e > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:E?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:E:TYPE OAIS
	SOUR:DATA:TEL:OTN:ALAR:OPU1:E ON
	SOUR:DATA:TEL:OTN:ALAR:OPU1:E?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:F

Description	This command enables/disables the continuous OPU1f/2f alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OPU1f/2f > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:F <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:F:TYPE OAIS
	SOUR:DATA:TEL:OTN:ALAR:OPU1:F ON
	SOUR:DATA:TEL:OTN:ALAR:OPU1:F?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:F:TYPE

Description	This command selects the continuous OPU1f/2f alarm Defect to be injected.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Injection > OPU1f/2f > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:F:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	OAIS: AIS
	OCSF: CSF
	OMSim: MSIM
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:F:TYPE OAIS
	SOUR:DATA:TEL:OTN:ALAR:OPU1:F:TYPE?
	Returns: OAIS
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:F:TYPE?

Description	This query returns the continuous OPU1f/2f alarm Defect to be injected.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Injection > OPU1f/2f > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:F:TYPE?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm to be injected:
	OAIS: AIS
	OCSF: CSF
	OMSim: MSIM
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:F:TYPE OCSF
	SOUR:DATA:TEL:OTN:ALAR:OPU1:F:TYPE?
	Returns: OCSF
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:F?

Description	This query returns the enable/disable status of the continuous OPU1f/2f alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OPU1f/2f > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:F?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:F:TYPE OCSF
	SOUR:DATA:TEL:OTN:ALAR:OPU1:F ON
	SOUR:DATA:TEL:OTN:ALAR:OPU1:F?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:OTUC

Description	This command enables/disables the selection of an OTUC for OPUCn alarms injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (OPUCn) > OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:OTUC <wsp><OTUC #>, <Set>
Parameter(s)	**OTUC #**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects OTUC number
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the ODUCn per OTUC status.
	ON: Enables the OTUC.
	OFF: Disables the OTUC.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU200:OTUC 1, ON
See Also	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:OTUC

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:OTUC:ALL

Description	This command enables/disables the selection of all OTUC for OPUCn alarms injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (OPUCn) > All OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:OTUC:ALL <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables the selection of all OTUC.
	ON: Selects all OTUC
	OFF: Unselects all OTUC
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU200:OTUC:ALL ON
See Also	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:OTUC:ALL

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:OTUC:ALL?

Description	This query returns the enable/disable selection status of all OTUC for OPUCn alarms injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer(OPUCn) > All OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:OTUC:ALL?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable selection status of all OTUC.
	1: All OTUC are enabled.
	0: None or not all OTUC are enabled.
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU200:OTUC:ALL?
See Also	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:OTUC:ALL?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:OTUC?

Description	This query returns the enable/disable selection status of an OTUC for OPUCn alarms injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (OPUCn) > OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:OTUC? <wsp><OTUC #>
Parameter(s)	**OTUC #**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects OTUC number
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the OTUC status for OPUC alarm injection.
	1: The OTUC is enabled.
	0: The OTUC is disabled.
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU200:OTUC? 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:OTUC?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE

Description	This command selects the continuous OPU / OPU3e1/e2 alarm Defect to be injected.
	At *RST condition, this value is set device-dependent.
	Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Alarm > Continuous > Defect
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OTUC, OPU300 for OTUCN.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	OAIS: AIS
	OCSF: CSF
	OMSim: MSIM
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:TYPE OAIS
	SOUR:DATA:TEL:OTN:ALAR:OPU1:TYPE?
	Returns: OAIS
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE?

Description	This query returns the continuous OPU / OPU3e1/e2 alarm Defect to be injected.
	At *RST condition, this value is set device-dependent.
	Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Alarm > Continuous > Defect
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OTUC, OPU300 for OTUCN.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm to be injected:
	OAIS: AIS
	OCSF: CSF
	OMSim: MSIM
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:TYPE OCSF
	SOUR:DATA:TEL:OTN:ALAR:OPU1:TYPE?
	Returns: OCSF
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]?

Description	This query returns the enable/disable status of the continuous OPU / OPU3e1/e2 alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Alarm > Continuous > Inject
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OTUC, OPU300 for OTUCN.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OPU1:TYPE OCSF
	SOUR:DATA:TEL:OTN:ALAR:OPU1 ON
	SOUR:DATA:TEL:OTN:ALAR:OPU1?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]

Description	This command enables/disables the continuous OTU alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OTU > Alarm > Continuous > Inject
	NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCN.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n] <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU3 ON
	SOUR:DATA:TEL:OTN:ALAR:OTU3?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]
	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]?

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]

Description	This command enables/disables the continuous OTU1e/2e/3e1/3e2 alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Alarm > Continuous > Inject
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n] <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU3:E1:TYPE OAIS
	SOUR:DATA:TEL:OTN:ALAR:OTU3:E1 ON
	SOUR:DATA:TEL:OTN:ALAR:OTU3:E1?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]?

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE

Description	This command selects the continuous OTU1e/2e/3e1/3e2 alarm Defect to be injected.
	At *RST condition, this value is set to OAIS.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Alarm > Continuous > Defect
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	LOF
	LOM
	OAIS: AIS
	OBDi: BDI
	OBIae: BIAE
	OIAE: IAE
	OOF
	OOM
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU3:E1:TYPE OAIS
	SOUR:DATA:TEL:OTN:ALAR:OTU3:E1:TYPE?
	Returns: OAIS
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE?

Description	This query returns the continuous OTU1e/2e/3e1/3e2 alarm Defect to be injected.
	At *RST condition, this value is set to OAIS.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Alarm > Continuous > Defect
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm to be injected:
	LOF
	LOM
	OAIS: AIS
	OBDi: BDI
	OBIae: BIAE
	OIAE: IAE
	OOF
	OOM
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU3:E1:TYPE OAIS
	SOUR:DATA:TEL:OTN:ALAR:OTU3:E1:TYPE?
	Returns: OAIS
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]?

Description	This query returns the enable/disable status of the continuous OTU1e/2e/3e1/3e2 alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Alarm > Continuous > Inject
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU3:E1:TYPE OAIS
	SOUR:DATA:TEL:OTN:ALAR:OTU3:E1 ON
	SOUR:DATA:TEL:OTN:ALAR:OTU3:E1?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:F

Description	This command enables/disables the continuous OTU1f/2f alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:F <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU1:F:TYPE OAIS
	SOUR:DATA:TEL:OTN:ALAR:OTU1:F ON
	SOUR:DATA:TEL:OTN:ALAR:OTU1:F?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]?

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:F:TYPE

Description	This command selects the continuous OTU1f/2f alarm Defect to be injected.
	At *RST condition, this value is set to OAIS.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:F:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	LOF
	LOM
	OAIS: AIS
	OBDi: BDI
	OBIae: BIAE
	OIAE: IAE
	OOF
	OOM
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU1:F:TYPE OAIS
	SOUR:DATA:TEL:OTN:ALAR:OTU1:F:TYPE?
	Returns: OAIS
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:F:TYPE?

Description	This query returns the continuous OTU1f/2f alarm Defect to be injected.
	At *RST condition, this value is set to OAIS.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:F:TYPE?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm to be injected:
	LOF
	LOM
	OAIS: AIS
	OBDi: BDI
	OBIae: BIAE
	OIAE: IAE
	OOF
	OOM
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU1:F:TYPE OAIS
	SOUR:DATA:TEL:OTN:ALAR:OTU1:F:TYPE?
	Returns: OAIS
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:F?

Description	This query returns the enable/disable status of the continuous OTU1f/2f alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:F?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU1:F:TYPE OAIS
	SOUR:DATA:TEL:OTN:ALAR:OTU1:F ON
	SOUR:DATA:TEL:OTN:ALAR:OTU1:F?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:E[1..n]

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC

Description	This command enables/disables the selection of an OTUC for OTUCn alarms injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (OTUCn) > OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC <wsp><OTUC #>, <Set>
Parameter(s)	**OTUC #**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects OTUC number
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the OTUCn per OTUC status.
	ON: Enables the OTUC.
	OFF: Disables the OTUC.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU200:OTUC 1, ON
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC:ALL

Description	This command enables/disables the selection of all OTUC for OTUCn alarms injection purposes for FlexO BERT. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Inject > Layer (OTUCn) > All OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC:ALL <wsp><Set>
Parameter(s)	**Set**: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Enables/disables the selection of all OTUC. ON: Selects all OTUC OFF: Unselects all OTUC
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU200:OTUC:ALL ON
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC:ALL

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC:ALL?

Description	This query returns the enable/disable selection status of all OTUC for OTUCn alarms injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer(OTUCn) > All OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC:ALL?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable selection status of all OTUC.
	1: All OTUC are enabled.
	0: None or not all OTUC are enabled.
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU200:OTUC:ALL?
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC:ALL?

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC?

Description	This query returns the enable/disable selection status of an OTUC for OTUCn alarms injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (OTUCn) > OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC? <wsp><OTUC #>
Parameter(s)	**OTUC #**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects OTUC number
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the OTUC status for OTUC alarm injection.
	1: The OTUC is enabled.
	0: The OTUC is disabled.
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU200:OTUC? 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC?

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:TYPE

Description	This command selects the continuous OTU alarm Defect to be injected.
	At *RST condition, this value is set to OAIS.
	Navigation Path: Results > Alarms/Errors > Injection > OTU > Alarm > Continuous > Defect
	NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCN.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	LOF
	LOFLom
	LOM
	OAIS: AIS
	OBDi: BDI
	OBIae: BIAE
	OIAE: IAE
	OOF
	OOM
	OTIM: TIM
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU3:TYPE OAIS
	SOUR:DATA:TEL:OTN:ALAR:OTU3:TYPE?
	Returns: OAIS
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:TYPE?

Description	This query returns the continuous OTU alarm Defect to be injected.
	At *RST condition, this value is set to OAIS.
	Navigation Path: Results > Alarms/Errors > Injection > OTU > Alarm > Continuous > Defect
	NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCN.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:TYPE?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm to be injected:
	LOF
	LOFLom
	LOM
	OAIS: AIS
	OBDi: BDI
	OBIae: BIAE
	OIAE: IAE
	OOF
	OOM
	OTIM: TIM
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU3:TYPE OAIS
	SOUR:DATA:TEL:OTN:ALAR:OTU3:TYPE?
	Returns: OAIS
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]?

Description	This query returns the enable/disable status of the continuous OTU alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OTU > Alarm > Continuous > Inject
	NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCN.
Syntax	:SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ALAR:OTU3 ON
	SOUR:DATA:TEL:OTN:ALAR:OTU3?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]
	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]?

:SOURce:DATA:TELecom:OTN:ERRor:FEC:AMOunt

Description	This command sets the manual FEC error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:FEC:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected. Choices are 1 to 50.
	MAXimum: The maximum value.
	MINimum: The minimum value.
	DEFault: The default value.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:MAN:TYPE FCCW
	SOUR:DATA:TEL:OTN:ERR:FEC:AMO 15
	SOUR:DATA:TEL:OTN:ERR:FEC:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AMOunt?

:SOURce:DATA:TELecom:OTN:ERRor:FEC:AMOunt?

Description	This query returns the manual FEC error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:FEC:AMOunt?[<wsp><Amount>]
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of Forward Error Correction (FEC) error.
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:MAN:TYPE FCCW
	SOUR:DATA:TEL:OTN:ERR:FEC:AMO 15
	SOUR:DATA:TEL:OTN:ERR:FEC:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AMOunt?

:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated

Description	This command enables/disables the Rate/Max Rate FEC error injection
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:TYPE FCCW
	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:FEC:AUT ON
	SOUR:DATA:TEL:OTN:ERR:FEC:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated
	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated?

:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:CONTinuous

Description	This command sets the automated FEC error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Mode
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:CONTinuous <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:TYPE FCCW
	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:CONT ON
	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:CONTinuous
	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:CONTinuous?

Description	This query returns the automated FEC error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Mode
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:CONTinuous?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:TYPE FCCW
	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:CONT ON
	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:CONTinuous
	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:RATE

Description	This command sets the automated FEC error Rate to be injected.
	At *RST condition, this value is set to 1.5E-02.
	Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected. Choices are 1.0E-07 to 1.5E-02.
	MAXimum, sets error rate to maximum.
	MINimum, sets error rate to minimum.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:TYPE FCCW
	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:RATE?
	Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:RATE?

:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:RATE?

Description	This query returns the automated FEC error Rate to be injected.
	At *RST condition, this value is set to 1.5E-02.
	Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:TYPE FCCW
	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:RATE?
	Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:RATE?

:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:TYPE

Description	This command selects the automated FEC error Defect to be injected.
	At *RST condition, this value is set to FCCW.
	Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	FCBit: FEC-CORR-BIT
	FCCW: FEC-CORR-CW
	FCSTRESS: FCSTRESS
	FCSYmb: FEC-CORR-SYMB
	FUCW: FEC-UNCORR-CW
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:TYPE FCCW
	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:TYPE?
	Returns: FCCW
See Also	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:TYPE?

Description	This query returns the automated FEC error Defect to be injected.
	At *RST condition, this value is set to FCCW.
	Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	FCBit: FEC-CORR-BIT
	FCCW: FEC-CORR-CW
	FCSTRESS: FCSTRESS
	FCSYmb: FEC-CORR-SYMB
	FUCW: FEC-UNCORR-CW
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:TYPE FCCW
	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:TYPE?
	Returns: FCCW
See Also	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate FEC error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:FEC:AUTomated?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status.
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:TYPE FCCW
	SOUR:DATA:TEL:OTN:ERR:FEC:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:FEC:AUT ON
	SOUR:DATA:TEL:OTN:ERR:FEC:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated
	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated?

:SOURce:DATA:TELecom:OTN:ERRor:FEC:INJect

Description	This command enables/disables the manual FEC error injection.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:FEC:INJect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:MAN:TYPE FCCW
	SOUR:DATA:TEL:OTN:ERR:FEC:AMO 15
	SOUR:DATA:TEL:OTN:ERR:FEC:INJ
See Also	SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:INJect

:SOURce:DATA:TELecom:OTN:ERRor:FEC:MANual:TYPE

Description	This command selects the manual FEC error Defect to be injected.
	At *RST condition, this value is set to FCCW.
	Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:FEC:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	FCBit: FEC-CORR-BIT
	FCCW: FEC-CORR-CW
	FCSTRESS: FCSTRESS
	FCSYmb: FEC-CORR-SYMB
	FUCW: FEC-UNCORR-CW
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:MAN:TYPE FCCW
	SOUR:DATA:TEL:OTN:ERR:FEC:MAN:TYPE?
	Returns: FCCW
See Also	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:FEC:MANual:TYPE?

Description	This query returns the manual FEC error Defect to be injected.
	At *RST condition, this value is set to FCCW.
	Navigation Path: Results > Alarms/Errors > Injection > FEC > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:FEC:MANual:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	FCBit: FEC-CORR-BIT
	FCCW: FEC-CORR-CW
	FCSTRESS: FCSTRESS
	FCSYmb: FEC-CORR-SYMB
	FUCW: FEC-UNCORR-CW
Example(s)	SOUR:DATA:TEL:OTN:ERR:FEC:MAN:TYPE FCCW
	SOUR:DATA:TEL:OTN:ERR:FEC:MAN:TYPE?
	Returns: FCCW
See Also	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE
	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:ACHAnnel

Description	This command selects if LO ODU error injection is done on All Channels for Multi-Channel OTN.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODUn > Error > Rate/Max Rate > Channel - All
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:ACHAnnel <wsp><AllChannel>
Parameter(s)	**AllChannel**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:ACHA ON
See Also	SOURce:DATA:TEL:OTN:ERR:ODU[1..n]:CHAN

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:ACHAnnel?

Description	This query returns if LO ODU error injection is done on All Channels for Multi-Channel OTN.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODUn > Error > Rate/Max Rate > Channel - All
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:ACHAnnel?
Response Syntax	<AllChannel>
Response(s)	**AllChannel**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable All Channgels selection status:
	1: Injection is done on all channels.
	0: Injection is done on a specific channel.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:ACHA ON
	SOUR:DATA:TEL:OTN:ERR:ODU1:ACHA?
	Returns: 1
See Also	SOURce:DATA:TEL:OTN:ERR:ODU[1..n]:CHAN

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AMOunt

Description	This command sets the manual ODU error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > ODU > Error > Manual > Amount
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<AllChannel>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU1:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AMOunt?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AMOunt?

Description	This query returns the manual ODU error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > ODU > Error > Manual > Amount
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AMOunt?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU1:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AMOunt?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated

Description	This command enables/disables the Rate/Max Rate ODU error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODUn > Error > Rate/Max Rate > Inject
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection
	OFF: Disables error injection
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT ON
	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:CONTinuous

Description	This command sets the automated ODU error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODUn > Error > Mode
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:CONTinuous <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:CONT ON
	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:CONTinuous
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:CONTinuous?

Description	This query returns the automated ODU error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODUn > Error > Mode
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:CONTinuous?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:CONT ON
	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:CONTinuous
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:R ATE

Description	This command sets the automated ODU error Rate to be injected.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Injection > ODUn > Error > Rate > Rate
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Sets to maximum rate.
	MINimum: Sets to minimum rate.
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:RATE?
	Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:RATE?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:R ATE?

Description	This query returns the automated ODU error Rate to be injected.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Injection > ODUn > Error > Rate > Rate
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:RATE?
	Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:RATE?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:CONTinuous

Description	This command sets the automated ODU TCM error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Error > Mode
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:CONTinuous <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:AUT:TCM1:CONT ON
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:CONTinuous?

Description	This query returns the automated ODU TCM error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Error > Mode
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:CONTinuous?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:AUT:TCM1:CONT?
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:CONTinuous

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:RATE

Description	This command sets the automated ODU TCM error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:AUT:TCM1:RATE 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:RATE

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:RATE?

Description	This query returns the automated ODU TCM error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:RATE?[<wsp><Rate>]
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:AUT:TCM1:RATE?
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:RATE?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:TYPE

Description	This command selects the manual ODU TCM error Defect to be injected.
	At *RST condition, this value is set to TBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	TBIP8: BIP-8
	TBEI: BEI
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:AUT:TCM1:TYPE TBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:AUT:TCM1:TYPE?
	Returns: TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:TYPE?

Description	This query returns the manual ODU TCM error Defect to be injected.
	At *RST condition, this value is set to TBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	TBIP8: BIP-8
	TBEI: BEI
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:AUT:TCM1:TYPE?
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE

Description	This command selects the automated ODU error Defect to be injected.
	At *RST condition, this value is set to OBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > ODUn > Error > Rate/Max Rate > Defect
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	OBIP8: ODU-BIP-8
	OBEI: ODU-BEI
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:TYPE?
	Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE?

Description	This query returns the automated ODU error Defect to be injected.
	At *RST condition, this value is set to OBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > ODUn > Error > Rate/Max Rate > Defect
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
	This command selects the automated ODU error Defect to be injected.
	Selects the error to be injected:
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	OBIP8: ODU-BIP-8
	OBEI: ODU-BEI
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:TYPE?
	Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate ODU error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODUn > Error > Rate/Max Rate > Inject
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT ON
	SOUR:DATA:TEL:OTN:ERR:ODU1:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:CHANnel

Description	This command selects the channel number or client ID used for LO ODU error injection, when All Channel is not selected, for Multi-Channel OTN and FlexO BERT test.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > ODUn > Error > Rate/Max Rate > Channel
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:CHANnel <wsp><Channel Number or Client ID>
Parameter(s)	**Channel Number or Client ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the channel number or client ID used for error injection, when All Channel is not selected, for Multi-Channel OTN and FlexO BERT test.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:CHAN 5
See Also	SOURce:DATA:TEL:OTN:ERR:ODU[1..n]:ACHA

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:CHANnel?

Description	This query returns the channel number or client ID used for error injection, when All channels is not selected, for Multi-Channel OTN and FlexO BERT test.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > ODUn > Error > Rate/Max Rate > Channel
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:CHANnel?
Response Syntax	<Channel Number or Client ID>
Response(s)	**Channel Number or Client ID**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the channel number or client ID used for error injection, when All Channel is not selected, for Multi-Channel OTN and FlexO BERT test.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:CHAN 5
	SOUR:DATA:TEL:OTN:ERR:ODU1:CHAN?
	Returns: 5
See Also	SOURce:DATA:TEL:OTN:ERR:ODU[1..n]:ACHA

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt

Description	This command sets the manual ODU1e/2e/3e1/3e2 error Amount to be injected. At *RST condition, this value is set to 1. Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Error > Manual > Amount NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt <wsp><Amount>
Parameter(s)	**Amount**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the amount of error to be injected. Choices are 1 through 50. MAXimum: Biggest supported value. MINimum: Smallest supported value. DEFault: Default value.
Response Syntax	<Channel Number or Client ID>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO 15 SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO? Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt?

Description	This query returns the manual ODU1e/2e/3e1/3e2 error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Error > Manual > Amount
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

Description	This command enables/disables the Rate/Max Rate ODU1e/2e/3e1/3e2 error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Error > Rate/Max Rate > Inject
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT ON
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTinuous

Description	This command sets the automated ODU1e/2e/3e1/3e2 error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Error > Mode
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTinuous <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:CONT ON
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTinuous?

Description	This query returns the automated ODU1e/2e/3e1/3e2 error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Error > Mode
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTinuous?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:CONT ON
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTinuous

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTo mated:RATE

Description	This command sets the automated ODU1e/2e/3e1/3e2 error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Error > Rate > Rate
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum, sets the injection rate for the selected ODU to maximum.
	MINimum, sets the injection rate for the selected ODU to minimum.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:RATE?
	Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE?
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n:E[1..n]]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE?

Description	This query returns the automated ODU1e/2e/3e1/3e2 error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Error > Rate > Rate
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:RATE?
	Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:CONTinuous

Description	This command sets the automated ODU1e/2e/3e1/3e2 TCM error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Error > Mode
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:CONTinuous <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:TYPE TBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:CONT ON
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTo mated:TCM[1..n]:CONTinuous?

Description	This query returns the automated ODU1e/2e/3e1/3e2 TCM error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Error > Mode
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:CONTinuous?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:TYPE TBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:CONT ON
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTinuous

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTo mated:TCM[1..n]:RATE

Description	This command sets the automated ODU1e/2e/3e1/3e2 TCM error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Error > Rate > Rate
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:RATE \<wsp>\<Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a \<DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
Response Syntax	\<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:TYPE TBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:RATE?
	Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE?
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTo mated:TCM[1..n]:RATE?

Description	This query returns the automated ODU1e/2e/3e1/3e2 TCM error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Error > Rate > Rate
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:RATE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:TYPE TBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:RATE?
	Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTo mated:TCM[1..n]:TYPE

Description	This command selects the automated ODU1e/2e/3e1/3e2 TCM error Defect to be injected.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Error > Rate/Max Rate > Defect
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
	Returns the error to be injected:
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	TBIP8: BIP-8
	TBEI: BEI
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:TYPE TBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:TYPE?
	Returns: TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE?
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTo mated:TCM[1..n]:TYPE?

Description	This query returns the automated ODU1e/2e/3e1/3e2 TCM error Defect to be injected.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Error > Rate/Max Rate > Defect
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TCM[1..n]:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	TBIP8: BIP-8
	TBEI: BEI
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:TYPE TBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TCM1:TYPE?
	Returns: TBIP9
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE

Description	This command selects the automated ODU1e/2e/3e1/3e2 error Defect to be injected.
	At *RST condition, this value is set to OBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Error > Rate/Max Rate > Defect
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	OBIP8: BIP-8
	OBEI: BEI
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TYPE?
	Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE?
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTo mated:TYPE?

Description	This query returns the automated ODU1e/2e/3e1/3e2 error Defect to be injected.
	At *RST condition, this value is set to OBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Error > Rate/Max Rate > Defect
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	OBIP8: BIP-8
	OBEI: BEI
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TYPE?
	Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTo mated?

Description	This query returns the enable/disable status of the Rate/Max Rate ODU1e/2e/3e1/3e2 error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Error > Rate/Max Rate > Inject
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated?
Response Syntax	\<Set\>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA\> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT ON
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect

Description	This command enables/disables the manual ODU1e/2e/3e1/3e2 error injection.
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Error > Manual > Inject
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:INJect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:INJ
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANu al:TCM[1..n]:TYPE

Description	This command selects the manual ODU1e/2e/3e1/3e2 TCM error Defect to be injected.
	At *RST condition, this value is set to TBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Error > Manual > Defect
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TCM[1..n]:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	TBIP8: BIP-8
	TBEI: BEI
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TCM1:TYPE TBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TCM1:TYPE?
	Returns: TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TCM[1..n]:TYPE?

Description	This query returns the manual ODU1e/2e/3e1/3e2 TCM error Defect to be injected.
	At *RST condition, this value is set to TBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Error > Manual > Defect
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TCM[1..n]:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	TBIP8: BIP-8
	TBEI: BEI
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TCM1:TYPE TBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TCM1:TYPE?
	Returns: TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE

Description	This command selects the manual ODU1e/2e/3e1/3e2 error Defect to be injected.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Error > Manual > Defect
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE \<wsp>\<Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a \<CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	OBIP8: BIP-8
	OBEI: BEI
Response Syntax	\<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE?
	Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANu al:TYPE?

Description	This query returns the manual ODU1e/2e/3e1/3e2 error Defect to be injected.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 > Error > Manual > Defect
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	OBIP8: BIP-8
	OBEI: BEI
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TYPE?
	Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1 ..n]:AMOunt

Description	This command sets the manual ODU1e/2e/3e1/3e2 TCM error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Error > Manual > Amount
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected. Choices are 1 through 50.
	MAXimum: Grestest supported amount
	MINimum: Smallest supported amount
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TCM1:TYPE TBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1 ..n]:AMOunt?

Description	This query returns the manual ODU1e/2e/3e1/3e2 TCM error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Error > Manual > Amount
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:AMOunt?[<wsp><Amount>]
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TCM1:TYPE TBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1 ..n]:AUTomated

Description	This command enables/disables the Rate/Max Rate ODU1e/2e/3e1/3e2 TCM error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Error > Rate/Max Rate > Inject
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:AUTomated <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:AUT ON
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1 ..n]:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate ODU1e/2e/3e1/3e2 TCM error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Error > Rate/Max Rate > Inject
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:AUTomated?
Response Syntax	\<Set\>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA\> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:AUT ON
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1 ..n]:INJect

Description	This command enables/disables the manual ODU1e/2e/3e1/3e2 TCM error injection.
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1e/2e/3e1/3e2 TCM > Error > Manual > Inject
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:TCM[1..n]:INJect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:MAN:TCM1:TYPE TBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU3:E1:TCM1:INJ
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AMOunt

Description	This command sets the manual ODU1f/2f error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected. Choices are 1 through 50.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AMOunt?

Description	This query returns the manual ODU1f/2f error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AMOunt?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated

Description	This command enables/disables the Rate/Max Rate ODU1f/2f error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated <wsp><Inject>
Parameter(s)	**Inject**: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Starts/stops the automated Rate/Max Rate error Injection. ON: Enables error injection. OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TYPE OBIP8 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:RATE 1.0E-09 SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT ON SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated: CONTinuous

Description	This command sets the automated ODU1f/2f error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f > Error > Mode
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:CONTinuous <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:CONT ON
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated: CONTinuous?

Description	This query returns the automated ODU1f/2f error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f > Error > Mode
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:CONTinuous?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:CONT ON
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTinuous

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated: RATE

Description	This command sets the automated ODU1f/2f error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:RATE?
	Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE?
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n:E[1..n]]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated: RATE?

Description	This query returns the automated ODU1f/2f error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:RATE?
	Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated: TCM[1..n]:CONTinuous

Description	This command sets the automated ODU1f/2f TCM error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Mode
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:CONTinuous <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:TYPE TBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:CONT ON
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated: TCM[1..n]:CONTinuous?

Description	This query returns the automated ODU1f/2f TCM error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Mode
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:CONTinuous?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:TYPE TBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:CONT ON
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:CONTinuous

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated: TCM[1..n]:RATE

Description	This command sets the automated ODU1f/2f TCM error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:TYPE TBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:RATE?
	Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE?
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated: TCM[1..n]:RATE?

Description	This query returns the automated ODU1f/2f TCM error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:RATE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:TYPE TBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:RATE?
	Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated: TCM[1..n]:TYPE

Description	This command selects the automated ODU1f/2f TCM error Defect to be injected.
	At *RST condition, this value is set to TBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	TBEI: BEI
	TBIP8: BIP-8
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:TYPE TBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:TYPE?
	Returns: TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE?
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated: TCM[1..n]:TYPE?

Description	This query returns the automated ODU1f/2f TCM error Defect to be injected.
	At *RST condition, this value is set to TBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:TCM[1..n]:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	TBEI: BEI
	TBIP8: BIP-8
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:TYPE TBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:TYPE?
	Returns: TBIP9
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated: TYPE

Description	This command selects the automated ODU1f/2f error Defect to be injected.
	At *RST condition, this value is set to OBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	OBEI: BEI
	OBIP8: BIP-8
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TYPE?
	Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE?
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated: TYPE?

Description	This query returns the automated ODU1f/2f error Defect to be injected.
	At *RST condition, this value is set to OBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	OBEI: BEI
	OBIP8: BIP-8
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TYPE?
	Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate ODU1f/2f error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:AUTomated?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT ON
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:INJect

Description	This command enables/disables the manual ODU1f/2f error injection.
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:INJect
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:INJ
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:MANual:TCM[1..n]:TYPE

Description	This command selects the manual ODU1f/2f TCM error Defect to be injected.
	At *RST condition, this value is set to OBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:MANual:TCM[1..n]:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	TBEI: BEI
	TBIP8: BIP-8
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TCM1:TYPE TBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TCM1:TYPE?
	Returns: TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:MANual:TCM[1..n]:TYPE?

Description	This query returns the manual ODU1f/2f TCM error Defect to be injected.
	At *RST condition, this value is set to OBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:MANual:TCM[1..n]:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	TBEI: BEI
	TBIP8: BIP-8
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TCM1:TYPE TBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TCM1:TYPE?
	Returns: TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:MANual:TYPE

Description	This command selects the manual ODU1f/2f error Defect to be injected.
	At *RST condition, this value is set to OBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	OBEI: BEI
	OBIP8: BIP-8
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE?
	Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:MANual:TYPE?

Description	This query returns the manual ODU1f/2f error Defect to be injected.
	At *RST condition, this value is set to OBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:MANual:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	OBEI: BEI
	OBIP8: BIP-8
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TYPE?
	Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:AMOunt

Description	This command sets the manual ODU1f/2f TCM error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected. Choices are 1 through 50.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TCM1:TYPE TBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:TCM1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:TCM1:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:AMOunt?

Description	This query returns the manual ODU1f/2f TCM error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:AMOunt?[<wsp><Amount>]
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TCM1:TYPE TBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:TCM1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:TCM1:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:AUTomated

Description	This command enables/disables the Rate/Max Rate ODU1f/2f TCM error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:AUTomated <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:TYPE TBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:TCM1:AUT ON
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:TCM1:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate ODU1f/2f TCM error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:AUTomated?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:TYPE TBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:AUT:TCM1:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:TCM1:AUT ON
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:TCM1:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:INJect

Description	This command enables/disables the manual ODU1f/2f TCM error injection.
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:F:TCM[1..n]:INJect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:F:MAN:TCM1:TYPE TBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:TCM1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU1:F:TCM1:INJ
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:E[1..n]:AMOunt

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:INJect

Description	This command enables/disables the manual ODU error injection.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > ODUn > Error > Manual > Inject
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:INJect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:ODU1:INJ
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:INJect

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TCM[1..n]:TYPE

Description	This command selects the manual ODU TCM error Defect to be injected.
	At *RST condition, this value is set to TBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TCM[1..n]:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	TBIP8: BIP-8
	TBEI: BEI
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:MAN:TCM1:TYPE TBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU3:MAN:TCM1:TYPE?
	Returns: TBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TYPE

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TCM[1..n]:TYPE?

Description	This query returns the manual ODU TCM error Defect to be injected.
	At *RST condition, this value is set to TBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TCM[1..n]:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	TBIP8: BIP-8
	TBEI: BEI
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:MAN:TCM1:TYPE?
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TYPE

Description	This command selects the manual ODU error Defect to be injected.
	At *RST condition, this value is set to OBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > ODUn > Error > Manual > Defect
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	OBIP8: ODU-BIP-8
	OBEI: ODU-BEI
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:MAN:TYPE?
	Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:MANual:TYPE

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TYPE ?

Description	This query returns the manual ODU error Defect to be injected.
	At *RST condition, this value is set to OBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > ODUn > Error > Manual > Defect
	NOTE: For ODU[1..n], use ODU100 for ODU0, ODU101 for ODUflex, ODU200 for ODUC, ODU300 for ODUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	OBIP8: ODU-BIP-8
	OBEI: ODU-BEI
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:ODU1:MAN:TYPE?
	Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:MANual:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:OTUC

Description	This command enables/disables the selection of an OTUC for ODUCn errors injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (ODUCn) > OTUC
	NOTE: For ODU[1..n], use ODU200 for ODUC
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:OTUC <wsp><OTUC #>, <Set>
Parameter(s)	**OTUC #**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects OTUC number
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the ODUCn per OTUC status.
	ON: Enables the OTUC.
	OFF: Disables the OTUC.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU200:OTUC 1, ON
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:OTUC:ALL

Description	This command enables/disables the selection of all OTUC for ODUCn errors injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (ODUCn) > All OTUC
	NOTE: For ODU[1..n], use ODU200 for ODUC
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:OTUC:ALL <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables the selection of all OTUC.
	ON: Selects all OTUC
	OFF: Unselects all OTUC
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU200:OTUC:ALL ON
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC:ALL

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:OTUC:ALL?

Description	This query returns the enable/disable selection status of all OTUC for ODUCn errors injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer(ODUCn) > All OTUC
	NOTE: For ODU[1..n], use ODU200 for ODUC
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:OTUC:ALL?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable selection status of all OTUC.
	1: All OTUC are enabled.
	0: None or not all OTUC are enabled.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU200:OTUC:ALL?
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC:ALL?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:OTUC?

Description	This query returns the enable/disable selection status of an OTUC for ODUCn errors injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (ODUCn) > OTUC
	NOTE: For ODU[1..n], use ODU200 for ODUC
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:OTUC? <wsp><OTU #>
Parameter(s)	**OTU #**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects OTUC number
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the OTUC status for ODUC error injection.
	1: The OTUC is enabled.
	0: The OTUC is disabled.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU200:OTUC? 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AMOunt

Description	This command sets the manual ODU TCM error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected. Choices are 1 to 50.
	MAXimum: Grestest supported amount
	MINimum: Smallest supported amount
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:TCM1:AMO 1
	SOUR:DATA:TEL:OTN:ERR:ODU3:TCM1:AMO?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AMOunt

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AMOunt?

Description	This query returns the manual ODU TCM error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AMOunt?[<wsp><Amount>]
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:TCM1:AMO?
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AMOunt?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AUTomated

Description	This command enables/disables the Rate/Max Rate ODU TCM error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AUTomated <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:TCM1:AUT ON
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate ODU TCM error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AUTomated?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:TCM1:AUT ON
	SOUR:DATA:TEL:OTN:ERR:ODU3:TCM1:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated?

:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:INJect

Description	This command enables/disables the manual ODU TCM error injection.
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Results > Alarms/Errors > Injection > ODU TCM > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:INJect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:ODU3:TCM1:INJ
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:INJect

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:ACHAnnel

Description	This command selects if LO OPU error injection is done on ALL channels, in the Multi-Channel OTN test application.
	At *RST condition, this value is set to OFF.
	Navigation Path: Test > Multi-Channel OTN > Results > Alarms/Errors > Global Injection > Layer (ODU)
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:ACHAnnel <wsp><AllChannel>
Parameter(s)	**AllChannel**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU1:ACHA ON
See Also	SOURce:DATA:TEL:OTN:ERR:OPU[1..n]:CHAN

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:ACHAnnel?

Description	This query returns if LO OPU error injection is done on ALL channels, in the Multi-Channel OTN test application.
	At *RST condition, this value is set to OFF.
	Navigation Path: Test > Multi-Channel OTN > Results > Alarms/Errors > Global Injection > Layer (ODU)
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:ACHAnnel?
Response Syntax	<AllChannel>
Response(s)	**AllChannel**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns an indication that the LO OPU error injection is done on ALL channels, in the Multi-Channel OTN test application.
	1, injection is done on all channels.
	0, injection is done on a specific channel.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU1:ACHA ON
	SOUR:DATA:TEL:OTN:ERR:OPU1:ACHA?
	Returns: 1
See Also	SOURce:DATA:TEL:OTN:ERR:OPU[1..n]:CHAN

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AMOunt

Description	This command sets the manual OPU / OPU3e1/e2 error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Error > Manual > Amount
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected. Choices are 1 through 50.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<AllChannel>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU3:AMO 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AMOunt

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AMOunt?

Description	This query returns the manual OPU / OPU3e1/e2 error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Error > Manual > Amount
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AMOunt?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU3:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AMOunt?

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated

Description

This command enables/disables the Rate/Max Rate OPU / OPU3e1/e2 error injection.

At *RST condition, this value is set to OFF.

Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Error > Rate/Max Rate > Inject

NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.

Syntax

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated <wsp><Inject>

Parameter(s)

Inject:

The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.

Starts/stops the automated Rate/Max Rate error Injection.

ON: Enables error injection.

OFF: Disables error injection.

Response Syntax

<Amount>

Example(s)

SOUR:DATA:TEL:OTN:ERR:OPU3:AUT ON

See Also

SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:CONTinuous

Description	This command sets the automated OPU / OPU3e1/e2 error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Error > Mode
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:CONTinuous <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU3:AUT:CONT ON
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:CONTinuous

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:CONTinuous?

Description	This query returns the automated OPU / OPU3e1/e2 error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Error > Mode
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:CONTinuous?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU3:AUT:CONT 1
	SOUR:DATA:TEL:OTN:ERR:OPU3:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:RATE

Description	This command sets the automated OPU / OPU3e1/e2 error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Error > Rate > Rate
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU3:AUT:RATE 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:RATE

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:RATE?

Description	This query returns the automated OPU / OPU3e1/e2 error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Error > Rate > Rate
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU3:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:OPU3:AUT:RATE?
	Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:RATE?

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:TYPE

Description	This command selects the automated OPU / OPU3e1/e2 error Defect to be injected.
	At *RST condition, this value is set to OMFI.
	Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Error > Rate/Max Rate > Defect
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	OMFI
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU3:AUT:TYPE OMFI
	SOUR:DATA:TEL:OTN:ERR:OPU3:AUT:TYPE?
	Returns: OMFI
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:TYPE

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:TYPE?

Description	This query returns the automated OPU / OPU3e1/e2 error Defect to be injected.
	At *RST condition, this value is set to OMFI.
	Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Error > Rate/Max Rate > Defect
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	OMFI
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU3:AUT:TYPE OMFI
	SOUR:DATA:TEL:OTN:ERR:OPU3:AUT:TYPE?
	Returns: OMFI
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate OPU / OPU3e1/e2 error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Error > Rate/Max Rate > Inject
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:AUTomated?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU3:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated?

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:CHANnel

Description	This command selects the channel number or client ID used for error injection, when command AllCHAnnel is 'OFF', for the Multi-Channel OTN and FlexO BERT test.
	At *RST condition, this value is set to 1.
	Navigation Path: Test > Multi-Channel OTN > Results > Alarms/Errors > Global Injection > Layer (ODU)
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:CHANnel <wsp><Channel Number or Client ID>
Parameter(s)	**Channel Number or Client ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the channel number or client ID used for error injection, when command AllCHAnnel is 'OFF', for the Multi-Channel OTN and FlexO BERT test.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU1:CHAN 5
See Also	SOURce:DATA:TEL:OTN:ERR:OPU[1..n]:ACHA

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:CHANnel?

Description	This query returns the channel number or client ID used for error injection, when command AllCHAnnel is 'OFF', for the Multi-Channel OTN and FlexO BERT test.
	At *RST condition, this value is set to 1.
	Navigation Path: Test > Multi-Channel OTN > Results > Alarms/Errors > Global Injection > Layer (ODU)
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:CHANnel?
Response Syntax	<Channel Number or Client ID>
Response(s)	**Channel Number or Client ID**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the channel number or client ID used for error injection, when command AllCHAnnel is 'OFF', for the Multi-Channel OTN and FlexO BERT test.
	'n', injection is done on channel or client ID 'n', when AllCHAnnel is not selected .
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU1:CHAN 5
	SOUR:DATA:TEL:OTN:ERR:OPU1:CHAN?
	Returns: 5
See Also	SOURce:DATA:TEL:OTN:ERR:OPU[1..n]:ACHA

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:INJect

Description	This command enables/disables the manual OPU / OPU3e1/e2 error injection.
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Error > Manual > Inject
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:INJect
Response Syntax	<Channel Number or Client ID>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU3:INJ
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:INJect

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:MANual:TYPE

Description	This command selects the manual OPU / OPU3e1/e2 error Defect to be injected.
	At *RST condition, this value is set to OMFI.
	Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Error > Manual > Defect
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	OMFI
Response Syntax	<Channel Number or Client ID>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU1:MAN:TYPE OMFI
	SOUR:DATA:TEL:OTN:ERR:OPU1:MAN:TYPE?
	Returns: OMFI
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:MANual:TYPE

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:MANual:TYPE ?

Description	This query returns the manual OPU / OPU3e1/e2 error Defect to be injected.
	At *RST condition, this value is set to OMFI.
	Navigation Path: Results > Alarms/Errors > Injection > OPU / OPU3e1/e2 > Error > Manual > Defect
	NOTE: For OPU[1..n], use OPU100 for OPU0, OPU101 for OPUflex, OPU3 for OPU3e1/e2, OPU200 for OPUC, OPU300 for OPUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:MANual:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	OMFI
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU1:MAN:TYPE OMFI
	SOUR:DATA:TEL:OTN:ERR:OPU1:MAN:TYPE?
	Returns: OMFI
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:MANual:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:OTUC

Description	This command enables/disables the selection of an OTUC for OPUCn errors injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (OPUCn) > OTUC
	NOTE: For OPU[1..n], use OPU200 for OPUC
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:OTUC <wsp><OTUC #>, <Set>
Parameter(s)	**OTUC #**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects OTUC number
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the ODUCn per OTUC status.
	ON: Enables the OTUC.
	OFF: Disables the OTUC.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU200:OTUC 1, ON
See Also	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:OTUC

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:OTUC:ALL

Description	This command enables/disables the selection of all OTUC for OPUCn errors injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (OPUCn) > All OTUC
	NOTE: For OPU[1..n], use OPU200 for OPUC
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:OTUC:ALL <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables the selection of all OTUC.
	ON: Selects all OTUC
	OFF: Unselects all OTUC
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU200:OTUC:ALL ON
See Also	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:OTUC:ALL

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:OTUC:ALL?

Description	This query returns the enable/disable selection status of all OTUC for OPUCn errors injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer(OPUCn) > All OTUC
	NOTE: For OPU[1..n], use OPU200 for OPUC
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:OTUC:ALL?
Response Syntax	<Set>
Response(s)	Set:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable selection status of all OTUC.
	1: All OTUC are enabled.
	0: None or not all OTUC are enabled.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU200:OTUC:ALL?
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:OTUC:ALL?

:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:OTUC?

Description	This query returns the enable/disable selection status of an OTUC for OPUCn errors injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (OPUCn) > OTUC
	NOTE: For OPU[1..n], use OPU200 for OPUC
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OPU[1..n]:OTUC? <wsp><OTUC #>
Parameter(s)	**OTUC #**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects OTUC number
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the OTUC status for ODUC error injection.
	1: The OTUC is enabled.
	0: The OTUC is disabled.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OPU200:OTUC? 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OPU[1..n]:OTUC?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AMOunt

Description	This command sets the manual OTU error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > OTUn > Error > Manual > Amount
	NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected. Choices are 1 through 50.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:AMO MAX
	SOUR:DATA:TEL:OTN:ERR:OTU3:AMO?
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AMOunt?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AMOunt?

Description	This query returns the manual OTU error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > OTUn > Error > Manual > Amount
	NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AMOunt?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:AMO MAX
	SOUR:DATA:TEL:OTN:ERR:OTU3:AMO?
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AMOunt
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AMOunt?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated

Description	This command enables/disables the Rate/Max Rate OTU error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OTUn > Error > Rate/Max Rate > Inject
	NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated <wsp><Inject>
Parameter(s)	Inject:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:AUT ON
	SOUR:DATA:TEL:OTN:ERR:OTU3:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:CONTinuous

Description	This command sets the automated OTU error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OTUn > Error > Mode
	NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:CONTinuous <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:AUT:CONT ON
	SOUR:DATA:TEL:OTN:ERR:OTU3:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:CONTinuous
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:CONTinuous?

Description	This query returns the automated OTU error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OTUn > Error > Mode
	NOTE: For OTU[1..n], use OTU200 for OTUC, OTU300 for OTUCn.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:CONTinuous?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:AUT:CONT ON
	SOUR:DATA:TEL:OTN:ERR:OTU3:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:CONTinuous
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:RATE

Description	This command sets the automated OTU error Rate to be injected.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Injection > OTUn > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:AUT:RATE MIN
	SOUR:DATA:TEL:OTN:ERR:OTU3:AUT:RATE?
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:RATE?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:RATE?

Description	This query returns the automated OTU error Rate to be injected.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Injection > OTUn > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:AUT:RATE MIN
	SOUR:DATA:TEL:OTN:ERR:OTU3:AUT:RATE?
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:RATE?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:TYPE

Description	This command selects the automated OTU error Defect to be injected.
	At *RST condition, this value is set to OBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > OTUn > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	FAS
	MFAS
	OBEI: OTU - BEI
	OBIP8: OTU - BIP-8
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU3:AUT:TYPE?
	Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:TYPE?

Description	This query returns the automated OTU error Defect to be injected.
	At *RST condition, this value is set to OBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > OTUn > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	FAS
	MFAS
	OBEI: OTU - BEI
	OBIP8: OTU - BIP-8
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU3:AUT:TYPE?
	Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate OTU error injection. At *RST condition, this value is set to OFF. Navigation Path: Results > Alarms/Errors > Injection > OTUn > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:AUTomated?
Response Syntax	<Set>
Response(s)	**Set**: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the enable/disable injection status: 1: Enabled 0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:AUT ON SOUR:DATA:TEL:OTN:ERR:OTU3:AUT? Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOunt

Description	This command sets the manual OTU1e/2e/3e1/3e2 error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Error > Manual > Amount
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected. Choices are 1 through 50.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOunt?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOunt?

Description	This query returns the manual OTU1e/2e/3e1/3e2 error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Error > Manual > Amount
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOunt?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOunt

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated

Description	This command enables/disables the Rate/Max Rate OTU1e/2e/3e1/3e2 error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Error > Rate/Max Rate > Inject
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT ON
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:CONTinuous

Description	This command sets the automated OTU1e/2e/3e1/3e2 error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Error > Mode
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
	This query returns the automated OTU1e/2e/3e1/3e2 error Mode: ON for Max Rate and OFF for Rate.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:CONTinuous <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:CONT ON
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:CONTinuous?

Description	This query returns the automated OTU1e/2e/3e1/3e2 error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Error > Mode
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:CONTinuous?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:CONT ON
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:CONTinuous

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTom ated:RATE

Description	This command sets the automated OTU1e/2e/3e1/3e2 error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Error > Rate > Rate
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected. Choices are 1.0E-09 through 6.5E-05.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:RATE?
	Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE?
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE?

Description	This query returns the automated OTU1e/2e/3e1/3e2 error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Error > Rate > Rate
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:RATE?
	Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE

Description	This command selects the automated OTU1e/2e/3e1/3e2 error Defect to be injected.
	At *RST condition, this value is set to OBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Error > Rate/Max Rate > Defect
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	FAS1: FAS
	MFAS
	OBEI: BEI
	OBIP8: BIP-8
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:TYPE?
	Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE?
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE?

Description	This query returns the automated OTU1e/2e/3e1/3e2 error Defect to be injected.
	At *RST condition, this value is set to OBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Error > Rate/Max Rate > Defect
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	FAS1: FAS
	MFAS
	OBEI: BEI
	OBIP8: BIP-8
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:TYPE?
	Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate OTU1e/2e/3e1/3e2 error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Error > Rate/Max Rate > Inject
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT ON
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:INJect

Description	This command enables/disables the manual OTU1e/2e/3e1/3e2 error injection.
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Error > Manual > Inject
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:INJect
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:AMO 15
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:INJ
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOunt

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE

Description	This command selects the manual OTU1e/2e/3e1/3e2 error Defect to be injected.
	At *RST condition, this value is set to OBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Error > Manual > Defect
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	FAS1: FAS
	MFAS
	OBEI: BEI
	OBIP8: BIP-8
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:MAN:TYPE?
	Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE?

Description	This query returns the manual OTU1e/2e/3e1/3e2 error Defect to be injected.
	At *RST condition, this value is set to OBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1e/2e/3e1/3e2 > Error > Manual > Defect
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	FAS1: FAS
	MFAS
	OBEI: BEI
	OBIP8: BIP-8
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU3:E1:MAN:TYPE?
	Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AMOunt

Description	This command sets the manual ODU1f/2f TCM error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > ODU1f/2f TCM > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected. Choices are 1 through 50.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AMO 15
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOunt?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AMOunt?

Description	This query returns the manual OTU1f/2f error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AMOunt?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AMO 15
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOunt

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated

Description	This command enables/disables the Rate/Max Rate OTU1f/2f error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT ON
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated: CONTinuous

Description	This command sets the automated OTU1f/2f error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Error > Mode
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated:CONTinuous <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:CONT ON
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated: CONTinuous?

Description	This query returns the automated OTU1f/2f error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Error > Mode
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated:CONTinuous?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:CONT ON
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:CONTinuous

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated: RATE

Description	This command sets the automated OTU1f/2f error Rate to be injected.
	At *RST condition, this value is set to 6.5E-05.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected. Choices are 1.0E-09 through 6.5E-05.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:RATE?
	Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE?
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated: RATE?

Description	This query returns the automated OTU1f/2f error Rate to be injected.
	At *RST condition, this value is set to 6.5E-05.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:RATE?
	Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated: TYPE

Description	This command selects the automated OTU1f/2f error Defect to be injected.
	At *RST condition, this value is set to OBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	FAS1: FAS
	MFAS
	OBEI: BEI
	OBIP8: BIP-8
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:TYPE?
	Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE?
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated: TYPE?

Description	This query returns the automated OTU1f/2f error Defect to be injected.
	At *RST condition, this value is set to OBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	FAS1: FAS
	MFAS
	OBEI: BEI
	OBIP8: BIP-8
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:TYPE?
	Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate OTU1f/2f error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:AUTomated?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT ON
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:INJect

Description	This command enables/disables the manual OTU1f/2f error injection.
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:INJect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:AMO 15
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:INJ
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:AMOunt

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:MANual:TYPE

Description	This command selects the manual OTU1f/2f error Defect to be injected.
	At *RST condition, this value is set to OBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	FAS
	MFAS
	OBEI: BEI
	OBIP8: BIP-8
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:MAN:TYPE?
	Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:MANual:TYPE?

Description	This query returns the manual OTU1f/2f error Defect to be injected.
	At *RST condition, this value is set to OBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > OTU1f/2f > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:F:MANual:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	FAS
	MFAS
	OBEI: BEI
	OBIP8: BIP-8
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU1:F:MAN:TYPE OBIP8
	SOUR:DATA:TEL:OTN:ERR:OTU1:F:MAN:TYPE?
	Returns: OBIP8
See Also	SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:E[1..n]:MANual:TYPE

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:INJect

Description	This command enables/disables the manual OTU error injection.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > OTUn > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:INJect
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:INJ
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:INJect

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:MANual:TYPE

Description

This command selects the manual OTU error Defect to be injected.

At *RST condition, this value is set to OBIP8.

Navigation Path: Results > Alarms/Errors > Injection > OTUn > Error > Manual > Defect

This query returns the manual OTU error Defect to be injected.

Returns the error to be injected:

Syntax

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:MANual:TYPE <wsp><Error>

Parameter(s)

Error:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the error to be injected:

FAS

MFAS

OBEI: OTU - BEI

OBIP8: OTU - BIP-8

Response Syntax

<Error>

Example(s)

SOUR:DATA:TEL:OTN:ERR:OTU3:MAN:TYPE FAS

SOUR:DATA:TEL:OTN:ERR:OTU3:MAN:TYPE?

Returns: FAS

See Also

SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TYPE

SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:MANual:TYPE?

Description	This query returns the manual OTU error Defect to be injected.
	At *RST condition, this value is set to OBIP8.
	Navigation Path: Results > Alarms/Errors > Injection > OTUn > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:MANual:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	FAS
	MFAS
	OBEI: OTU - BEI
	OBIP8: OTU - BIP-8
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU3:MAN:TYPE FAS
	SOUR:DATA:TEL:OTN:ERR:OTU3:MAN:TYPE?
	Returns: FAS
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TYPE?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC

Description	This command enables/disables the selection of an OTUC for OTUCn errors injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (OTUCn) > OTUC
	NOTE: For OTU[1..n], use OTU200 for OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC <wsp><OTUC #>, <Set>
Parameter(s)	**OTUC #**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects OTUC number
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the OTUCn per OTUC status.
	ON: Enables the OTUC.
	OFF: Disables the OTUC.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU200:OTUC 1, ON
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC:ALL

Description	This command enables/disables the selection of all OTUC for OTUCn errors injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (OTUCn) > All OTUC
	NOTE: For OTU[1..n], use OTU200 for OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC:ALL <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables the selection of all OTUC.
	ON: Selects all OTUC
	OFF: Unselects all OTUC
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU200:OTUC:ALL ON
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC:ALL

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC:ALL?

Description	This query returns the enable/disable selection status of all OTUC for OTUCn errors injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer(OTUCn) > All OTUC
	NOTE: For OTU[1..n], use OTU200 for OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC:ALL?
Response Syntax	<Set>
Response(s)	Set:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable selection status of all OTUC.
	1: All OTUC are enabled.
	0: None or not all OTUC are enabled.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU200:OTUC:ALL?
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC:ALL?

:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC?

Description	This query returns the enable/disable selection status of an OTUC for OTUCn errors injection purposes for FlexO BERT.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (OTUCn) > OTUC
	NOTE: For OTU[1..n], use OTU200 for OTUC
Syntax	:SOURce:DATA:TELecom:OTN:ERRor:OTU[1..n]:OTUC? <wsp><OTUC #>
Parameter(s)	**OTUC #**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects OTUC number
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the OTUC status for OTUC error injection.
	1: The OTUC is enabled.
	0: The OTUC is disabled.
Example(s)	SOUR:DATA:TEL:OTN:ERR:OTU200:OTUC? 1
See Also	SOURce:DATA:TELecom:OTN:ALARm:OTU[1..n]:OTUC?

:SOURce:DATA:TELecom:OTN:OTL:ALANes

Description	This command enables/disables the selection of all lanes for alarms/errors injection purposes.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (OTL) > All Lanes
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ALANes <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables the selection of all lanes.
	ON: Selects all lanes
	OFF: Unselects all lanes
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:OTL:ALAN ON
See Also	SOURce:DATA:TELecom:OTN:OTL:LANE

:SOURce:DATA:TELecom:OTN:OTL:ALANes?

Description	This query returns the enable/disable selection status of all lanes for alarms/errors injection purposes.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (OTL) > All Lanes
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ALANes?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable selection status of all lanes.
	1: All lanes are enabled.
	0: None or not all lanes are enabled.
Example(s)	SOUR:DATA:TEL:OTN:OTL:ALAN?
See Also	SOURce:DATA:TELecom:OTN:OTL:LANE?

:SOURce:DATA:TELecom:OTN:OTL:ALARm

Description	This command enables/disables the continuous OTL alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OTL > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ALARm <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:OTL:ALAR ON
See Also	SOURce:DATA:TELecom:OTN:OTL:GLOBal:ALARm

:SOURce:DATA:TELecom:OTN:OTL:ALARm:TYPE

Description	This command selects the continuous OTL alarm Defect to be injected.
	At *RST condition, this value is set to LOL.
	Navigation Path: Results > Alarms/Errors > Injection > OTL > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ALARm:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	LOF
	LOR
	OOF
	OOR
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:OTL:ALAR:TYPE LOF
See Also	SOURce:DATA:TELecom:OTN:OTL:GLOBal:ALARm:TYPE

:SOURce:DATA:TELecom:OTN:OTL:ALARm:TYPE?

Description	This query returns the continuous OTL alarm Defect to be injected.
	At *RST condition, this value is set to LOL.
	Navigation Path: Results > Alarms/Errors > Injection > OTL > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ALARm:TYPE?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm to be injected:
	LOF
	LOR
	OOF
	OOR
Example(s)	SOUR:DATA:TEL:OTN:OTL:ALAR:TYPE?
See Also	SOURce:DATA:TELecom:OTN:OTL:GLOBal:ALARm:TYPE?

:SOURce:DATA:TELecom:OTN:OTL:ALARm?

Description	This query returns the enable/disable status of the continuous OTL alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OTL > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ALARm?
Response Syntax	<Injection>
Response(s)	**Injection**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status.
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:OTL:ALAR?
See Also	SOURce:DATA:TELecom:OTN:OTL:GLOBal:ALARm?

:SOURce:DATA:TELecom:OTN:OTL:ERRor:AMOunt

Description	This command sets the manual OTL error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > OTL > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ERRor:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected. Choices are 1 through 50.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Injection>
Example(s)	SOUR:DATA:TEL:OTN:OTL:ERR:AMO 1
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AMOunt

:SOURce:DATA:TELecom:OTN:OTL:ERRor:AMOunt?

Description	This query returns the manual OTL error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > OTL > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ERRor:AMOunt?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:OTL:ERR:AMO?
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AMOunt?

:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated

Description	This command enables/disables the Rate/Max Rate OTL error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OTL > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error generation.
	OFF: Disables error generation.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:OTL:ERR:AUT ON
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AUTomated

:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated:CONTinuous

Description	This command sets the automated OTL error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OTL > Error > Mode
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated:CONTinuous <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:OTN:OTL:ERR:AUT:CONT ON
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:CONTinuous

:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated:CONTinuous?

Description	This query returns the automated OTL error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OTL > Error > Mode
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated:CONTinuous?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:OTN:OTL:ERR:AUT:CONT?
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:CONTinuous?

:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated:RATE

Description	This command sets the automated OTL error Rate to be injected.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Injection > OTL > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:OTL:ERR:AUT:RATE 1.0E-09
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:RATE

:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated:RATE?

Description	This query returns the automated OTL error Rate to be injected.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Injection > OTL > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value.
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:OTN:OTL:ERR:AUT:RATE?
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:RATE

:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated:TYPE

Description	This command selects the automated OTL error Defect to be injected.
	At *RST condition, this value is set to FAS.
	Navigation Path: Results > Alarms/Errors > Injection > OTL > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	FAS
	LLM
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:OTN:OTL:ERR:AUT:TYPE FAS
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:TYPE

:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated:TYPE?

Description	This query returns the automated OTL error Defect to be injected.
	At *RST condition, this value is set to FAS.
	Navigation Path: Results > Alarms/Errors > Injection > OTL > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	FAS
	LLM
Example(s)	SOUR:DATA:TEL:OTN:OTL:ERR:AUT:TYPE?
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:AUTomated:TCM[1..n]:TYPE

:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate OTL error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > OTL > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ERRor:AUTomated?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:OTN:OTL:ERR:AUT?
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:TCM[1..n]:AUTomated?

:SOURce:DATA:TELecom:OTN:OTL:ERRor:INJect

Description	This command enables/disables the manual OTL error injection.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > OTL > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ERRor:INJect
Response Syntax	\<Set\>
Example(s)	SOUR:DATA:TEL:OTN:OTL:ERR:INJ
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:INJect

:SOURce:DATA:TELecom:OTN:OTL:ERRor:MANual:TYPE

Description	This command selects the manual OTL error Defect to be injected.
	At *RST condition, this value is set to FAS error.
	Navigation Path: Results > Alarms/Errors > Injection > OTL > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ERRor:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	FAS
	LLM
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:OTL:ERR:MAN:TYPE FAS
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TCM[1..n]:TYPE

:SOURce:DATA:TELecom:OTN:OTL:ERRor:MANual:TYPE?

Description	This query returns the manual OTL error Defect to be injected.
	At *RST condition, this value is set to FAS error.
	Navigation Path: Results > Alarms/Errors > Injection > OTL > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:OTN:OTL:ERRor:MANual:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	FAS
	LLM
Example(s)	SOUR:DATA:TEL:OTN:OTL:ERR:MAN:TYPE?
See Also	SOURce:DATA:TELecom:OTN:ERRor:ODU[1..n]:MANual:TCM[1..n]:TYPE

:SOURce:DATA:TELecom:OTN:OTL:GLOBal:ALARm

Description	This command enables/disables the OTL global alarm generation.
	At *RST condition, this value is set to OFF.
	Navigation Path: Test > OTN BERT > Results > Alarms/Errors > Global Injection > Layer (OTL) > Type (Alarms) > Inject
Syntax	:SOURce:DATA:TELecom:OTN:OTL:GLOBal:ALARm <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:OTL:GLOB:ALAR ON
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]
	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]?

:SOURce:DATA:TELecom:OTN:OTL:GLOBal:ALARm:TYPE

Description	This command selects the type of OTL global alarm.
	At *RST condition, this value is set to LOL.
	Navigation Path: Test > OTN BERT > Results > Alarms/Errors > Global Injection > Layer (OTL) > Type (Alarms) > Defect
Syntax	:SOURce:DATA:TELecom:OTN:OTL:GLOBal:ALARm:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of OTL global alarm.
	LOL
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:OTN:OTL:GLOB:ALAR:TYPE LOL
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:OTL:GLOBal:ALARm:TYPE?

Description	This query returns the type of OTL global alarm.
	At *RST condition, this value is set to LOL.
	Navigation Path: Test > OTN BERT > Results > Alarms/Errors > Global Injection > Layer (OTL) > Type (Alarms) > Defect
Syntax	:SOURce:DATA:TELecom:OTN:OTL:GLOBal:ALARm:TYPE?
Response Syntax	\<Alarm\>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA\> element.
	Returns the type of OTL global alarm.
	LOL, LOL is selected as the OTL alarm.
Example(s)	SOUR:DATA:TEL:OTN:OTL:GLOB:ALAR:TYPE?
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]:TYPE?

:SOURce:DATA:TELecom:OTN:OTL:GLOBal:ALARm?

Description	This query returns the enabled or disabled OTL global alarm generation.
	At *RST condition, this value is set to OFF.
	Navigation Path: Test > OTN BERT > Results > Alarms/Errors > Global Injection > Layer (OTL) > Type (Alarms) > Inject
Syntax	:SOURce:DATA:TELecom:OTN:OTL:GLOBal:ALARm?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of OTL global alarm generation.
	1, global alarm generation is enabled.
	0, global alarm generation is disabled.
Example(s)	SOUR:DATA:TEL:OTN:OTL:GLOB:ALAR?
See Also	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]
	SOURce:DATA:TELecom:OTN:ALARm:ODU[1..n]:TCM[1..n]?

:SOURce:DATA:TELecom:OTN:OTL:LANE

Description	This command enables/disables the selection of a lane for OTL alarms/errors injection purposes.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (OTL) > Lane
Syntax	:SOURce:DATA:TELecom:OTN:OTL:LANE <wsp><Lane>, <Set>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects a lane number.
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the OTL per lane status.
	ON: Enables the lane.
	OFF: Disables the lane.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:OTL:LANE 1, ON
See Also	SOURce:DATA:TELecom:OTN:OTL:ALANes

:SOURce:DATA:TELecom:OTN:OTL:LANE?

Description	This query returns the enable/disable selection status of a lane for OTL alarms/errors injection purposes.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Inject > Layer (OTL) > Lane
Syntax	:SOURce:DATA:TELecom:OTN:OTL:LANE? <wsp><Lane>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects a lane number.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the selection status of a lane.
	1: The lane is enabled.
	0: The lane is disabled.
Example(s)	SOUR:DATA:TEL:OTN:OTL:LANE? 1
See Also	SOURce:DATA:TELecom:OTN:OTL:ALANes?

:SOURce:DATA:TELecom:OTN:OTUC:NUMBer

Description	This command selects the OTUC # used for subsequent OTU/ODU/OPU commands/queries for FlexO test application.
	At *RST condition, this value is set to device-dependent.
Syntax	:SOURce:DATA:TELecom:OTN:OTUC:NUMBer <wsp><OTUC #>
Parameter(s)	**OTUC #**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects OTUC number
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:OTUC:NUMB 1
	SOUR:DATA:TEL:OTN:OTUC:NUMB?
	Returns 1

:SOURce:DATA:TELecom:OTN:OTUC:NUMBer?

Description	This query returns the OTUC # used for subsequent OTU/ODU/OPU commands/queries for FlexO test application. At *RST condition, this value is set to device-dependent.
Syntax	:SOURce:DATA:TELecom:OTN:OTUC:NUMBer?
Response Syntax	<OTUC #>
Response(s)	**OTUC #**: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the selected OTUC number
Example(s)	SOUR:DATA:TEL:OTN:OTUC:NUMB 1 SOUR:DATA:TEL:OTN:OTUC:NUMB? Returns 1

:SOURce:DATA:TELecom:PATTern:ALARm:PATTern

Description	This command enables/disables the continuous BER alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > BER> Alarm > Continuous > Inject
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:PATTern:ALARm:PATTern <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<OTUC #>
Example(s)	SOUR:DATA:TEL:PATT:ALAR:PATT ON
	SOUR:DATA:TEL:PATT:ALAR:PATT?
	Returns: 1
See Also	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE
	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt
	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:INJect

:SOURce:DATA:TELecom:PATTern:ALARm:PATTern:CHANnel

Description	This command selects the channel number or client ID used for pattern alarm injection in the Multi-Channel OTN test application.
	Navigation Path: Results > Summary > BER > Alarms
Syntax	:SOURce:DATA:TELecom:PATTern:ALARm:PATTern:CHANnel <wsp><Channel Number or Client ID>
Parameter(s)	**Channel Number or Client ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the channel number or client ID used for pattern alarm injection for the Multi-Channel OTN and FlexO BERT test.
Response Syntax	<OTUC #>
Example(s)	SOUR:DATA:TEL:PATT:ALAR:PATT:CHAN 5
See Also	SOURce:DATA:TELecom:PATTern:ALARm:PATTern:CHANnel?

:SOURce:DATA:TELecom:PATTern:ALARm:PATTern:CHANnel?

Description	This query returns the channel number or client ID used for pattern error injection for the Multi-Channel OTN and FlexO BERT test. Navigation Path: Results > Summary > BER > Alarms
Syntax	:SOURce:DATA:TELecom:PATTern:ALARm:PATTern:CHANnel?
Response Syntax	<Channel Number or Client ID>
Response(s)	**Channel Number or Client ID**: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the channel number or client ID used for pattern alarm injection for the Multi-Channel OTN and FlexO BERT test.
Example(s)	SOUR:DATA:TEL:PATT:ALAR:PATT:CHAN 3 SOUR:DATA:TEL:PATT:ALAR:PATT:CHAN? Returns 3
See Also	SOURce:DATA:TELecom:PATTern:ALARm:PATTern:CHANnel

:SOURce:DATA:TELecom:PATTern:ALARm:PATTern:TYPE?

Description	This query returns the continuous BER alarm Defect to be injected.
	At *RST condition, this value is set to Pattern Loss.
	Navigation Path: Results > Alarms/Errors > Injection > BER> Alarm > Continuous > Type
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Alarm > Continuous > Type
Syntax	:SOURce:DATA:TELecom:PATTern:ALARm:PATTern:TYPE?
Response Syntax	\<Alarm\>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA\> element.
	Returns the alarm to be injected:
	PLOSs: Pattern Loss
Example(s)	SOUR:DATA:TEL:PATT:ALAR:PATT:TYPE PLOS
	SOUR:DATA:TEL:PATT:ALAR:PATT:TYPE?
	Returns: PLOS
See Also	SOURce:DATA:TELecom:PATTern:ALARm:PATTern:TYPE?
	SOURce:DATA:TELecom:PATTern:ALARm:PATTern

:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt

Description	This command sets the manual BER error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > BER > Error > Manual > Amount
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected. Choices are 1 through 50.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Alarm>
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE BIT
	SOUR:DATA:TEL:PATT:ERR:PATT:AMO 25
	Returns: 25
See Also	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:INJect

:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt?

Description	This query returns the manual BER error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > BER > Error > Manual > Amount
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE BIT
	SOUR:DATA:TEL:PATT:ERR:PATT:AMO?
	Returns: 25
See Also	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:INJect

:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated

Description	This command enables/disables the Rate/Max Rate BER error injection.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Injection > BER > Error > Rate/Max Rate > Inject
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enabled
	OFF: Disabled
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:AUT OFF
	SOUR:DATA:TEL:PATT:ERR:PATT:AUT?
	Returns: 0
See Also	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated:CONTinuous

:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated :CONTinuous

Description	This command selects the automated BER error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Injection > BER > Error > Mode
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Error > Mode
Syntax	:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated:CONTinuous <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode: ON for Max Rate and OFF for Rate.
	ON: Enabled
	OFF: Disabled
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:AUT:CONT OFF
	SOUR:DATA:TEL:PATT:ERR:PATT:AUT:CONT?
	Returns: 0
See Also	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated

:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated :CONTinuous?

Description	This query returns the automated BER error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Injection > BER > Error > Mode
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Error > Mode
Syntax	:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated:CONTinuous?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode: ON for Max Rate and OFF for Rate.
	1, Continuous pattern error is enabled.
	0, Continuous pattern error is disabled.
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:AUT:CONT ON
	SOUR:DATA:TEL:PATT:ERR:PATT:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated?

:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated:RATE

Description	This command sets the automated BER error Rate to be injected.
	At *RST condition, this value is set to 1.0E-04.
	Navigation Path: Results > Alarms/Errors > Injection > BER > Error > Rate > Rate
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum
	MINimum
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:AUT:RATE 1.0E-03
	SOUR:DATA:TEL:PATT:ERR:PATT:AUT:RATE?
	Returns: 1.0E-03
See Also	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt

:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated :RATE?

Description	This query returns the rate of pattern error to be injected.
	At *RST condition, this value is set to 1.0E-04.
	Navigation Path: Results > Alarms/Errors > Injection > BER > Error > Rate > Rate
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current rate of pattern error to inject is returned.
	MAXimum: Biggest rate
	MINimum: Smallest rate
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:AUT:RATE 1.0E-03
	SOUR:DATA:TEL:PATT:ERR:PATT:AUT:RATE?
	Returns: 1.0E-03
See Also	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt?

:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated :TYPE

Description	This command selects the automated BER error Defect to be injected.
	At *RST condition, this value is set to BIT.
	Navigation Path: Results > Alarms/Errors > Injection > BER > Error > Rate/Max Rate > Defect
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	BIT
	PATTern
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:AUT:TYPE BIT
See Also	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE

:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated :TYPE?

Description	This query returns the automated BER error Defect to be injected.
	At *RST condition, this value is set to BIT.
	Navigation Path: Results > Alarms/Errors > Injection > BER > Error > Rate/Max Rate > Defect
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected.
	BIT, bit is selected as automated type pattern error.
	PATTERN, pattern is selected as automated type pattern error.
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:AUT:TYPE?
See Also	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE

:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate BER error injection.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > Injection > BER > Error > Rate/Max Rate > Inject
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status.
	1, automated pattern type is enabled.
	0, sets the automated pattern type is disabled.
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:AUT ON
	SOUR:DATA:TEL:PATT:ERR:PATT:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:CHANnel

Description	This command selects the channel number or client ID used for pattern error injection for the Multi-Channel OTN and FlexO BERT test.
	Navigation Path: Test > BERT > Results > Summary > BER > Errors
Syntax	:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:CHANnel <wsp><Channel Number or Client ID>
Parameter(s)	**Channel Number or Client ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the channel number or client ID used for pattern error injection for the Multi-Channel OTN and FlexO BERT test.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:CHAN 5
See Also	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:CHANnel?

:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:CHANnel?

Description	This query returns the channel used for pattern error injection in the Multi-Channel OTN test application.
	Navigation Path: Test > BERT > Results > Summary > BER > Errors
Syntax	:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:CHANnel?
Response Syntax	<Channel Number or Client ID>
Response(s)	**Channel Number or Client ID**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the channel number or client ID used for pattern error injection for the Multi-Channel OTN and FlexO BERT test.
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:CHAN 3
	SOUR:DATA:TEL:PATT:ERR:PATT:CHAN?
	Returns 3
See Also	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:CHANnel

:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:INJect

Description	This command enables/disables the manual BER error injection.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > BER > Error > Manual > Inject
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:INJect
Response Syntax	<Channel Number or Client ID>
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE BIT
	SOUR:DATA:TEL:PATT:ERR:PATT:INJ
See Also	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated:TYPE?

:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE

Description	This command selects the manual BER error Defect to be injected.
	At *RST condition, this value is set to BIT.
	Navigation Path: Results > Alarms/Errors > Injection > BER > Error > Manual > Defect
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	BIT
	PATTern
Response Syntax	<Channel Number or Client ID>
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE BIT
	SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE?
	Returns: BIT
See Also	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated:TYPE

:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE?

Description	This query returns the manual BER error Defect to be injected.
	At *RST condition, this value is set to BIT.
	Navigation Path: Results > Alarms/Errors > Injection > BER > Error > Manual > Defect
	Navigation Path: Results > Alarms/Errors > Injection > FlexE - Client > BER > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	BIT, bit is selected as the manual type pattern error.
	PATTERN, pattern is selected as the manual type pattern error.
Example(s)	SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE BIT
	SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE?
	Returns: BIT
See Also	SOURce:DATA:TELecom:PATTern:ERRor:PATTern:AUTomated:TYPE?

:SOURce:DATA:TELecom:PDH:ALARm:E[1..n]

Description	This command enables/disables the continuous E1/E2/E3/E4 alarm injection
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:PDH:ALARm:E[1..n] <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:PDH:ALAR:E1 ON
See Also	SOURce:DATA:TELecom:PDH:ALARm:E[1..n]:TYPE
	SOURce:DATA:TELecom:PDH:ALARm:E[1..n]?

:SOURce:DATA:TELecom:PDH:ALARm:E[1..n]:TYPE

Description	This command selects the continuous E1/E2/E3/E4 alarm Defect to be injected.
	At *RST condition, this value is set to AIS.
	Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:PDH:ALARm:E[1..n]:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	AIS
	CLOMf: CRC LOMF
	LOF3: LOF
	LOMF
	RAI
	RAIM: RAI MF
	TS16ais: TS16 AIS
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:PDH:ALAR:E1:TYPE AIS
See Also	SOURce:DATA:TELecom:PDH:ALARm:E[1..n]:TYPE?

:SOURce:DATA:TELecom:PDH:ALARm:E[1..n]:TYPE?

Description	This query returns the continuous E1/E2/E3/E4 alarm Defect to be injected.
	At *RST condition, this value is set to AIS.
	Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:PDH:ALARm:E[1..n]:TYPE?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm to be injected:
	AIS
	CLOMf: CRC LOMF
	LOF3: LOF
	LOMF
	RAI
	RAIM: RAI MF
	TS16ais: TS16 AIS
Example(s)	SOUR:DATA:TEL:PDH:ALAR:E1:TYPE AIS
	SOUR:DATA:TEL:PDH:ALAR:E1:TYPE?
	Returns: AIS
See Also	SOURce:DATA:TELecom:PDH:ALARm:E[1..n]:TYPE

:SOURce:DATA:TELecom:PDH:ALARm:E[1..n]?

Description	This query returns the enable/disable status of the continuous E1/E2/E3/E4 alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:PDH:ALARm:E[1..n]?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:PDH:ALAR:E1:TYPE AIS
	SOUR:DATA:TEL:PDH:ALAR:E1 ON
	SOUR:DATA:TEL:PDH:ALAR:E1?
	Returns: 1
See Also	SOURce:DATA:TELecom:PDH:ALARm:E[1..n]:TYPE
	SOURce:DATA:TELecom:PDH:ALARm:E[1..n]

:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOunt

Description	This command sets the manual E1/E2/E3/E4 error Amount to be injected.
	At *RST condition, this value is set to MINimum.
	Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected. Choices are 1 through 50.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:PDH:ERR:E1:AMO 15
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOunt?

:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOunt?

Description	This query returns the manual E1/E2/E3/E4 error Amount to be injected.
	At *RST condition, this value is set to MINimum.
	Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOunt?[<wsp><Amount>]
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:PDH:ERR:E1:MAN:TYPE FAS
	SOUR:DATA:TEL:PDH:ERR:E1:AMO 15
	SOUR:DATA:TEL:PDH:ERR:E1:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOunt

:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated

Description	This command enables/disables the Rate/Max Rate E1/E2/E3/E4 error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:PDH:ERR:E1:AUT ON
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated?

:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:CONTinuous

Description	This command sets the automated E1/E2/E3/E4 error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Error > Mode
Syntax	:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:CONTinuous <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode: ON for Max Rate and OFF for Rate.
	ON: Enabled
	OFF: Disaled
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:PDH:ERR:E1:AUT:TYPE FAS
	SOUR:DATA:TEL:PDH:ERR:E1:AUT:CONT ON
	SOUR:DATA:TEL:PDH:ERR:E1:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:CONTinuous?

:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:CONTinuous?

Description	This query returns the automated E1/E2/E3/E4 error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Error > Mode
Syntax	:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:CONTinuous?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode: ON for Max Rate and OFF for Rate.
Example(s)	SOUR:DATA:TEL:PDH:ERR:E1:AUT:TYPE FAS
	SOUR:DATA:TEL:PDH:ERR:E1:AUT:CONT ON
	SOUR:DATA:TEL:PDH:ERR:E1:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:CONTinuous

:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:RATE

Description	This command sets the automated E1/E2/E3/E4 error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:PDH:ERR:E1:AUT:RATE 1.0E-09
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:RATE?
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated

:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:RATE ?

Description	This query returns the automated E1/E2/E3/E4 error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:RATE?[<wsp><Rate>]
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:PDH:ERR:E1:AUT:TYPE FAS
	SOUR:DATA:TEL:PDH:ERR:E1:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:PDH:ERR:E1:AUT:RATE?
	Returns: 1.0E-09
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated

:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:TYPE

Description	This command selects the automated E1/E2/E3/E4 error Defect to be injected.
	At *RST condition, this value is set to FAS.
	Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	CRC4: CRC-4 (E1)
	EBIT: E-Bit (E1)
	FAS
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:PDH:ERR:E1:AUT:TYPE FAS
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:TYPE?
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated

:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:TYPE?

Description	This query returns the automated E1/E2/E3/E4 error Defect to be injected.
	At *RST condition, this value is set to FAS.
	Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	CRC4: CRC-4 (E1)
	EBIT: E-Bit (E1)
	FAS
Example(s)	SOUR:DATA:TEL:PDH:ERR:E1:AUT:TYPE FAS
	SOUR:DATA:TEL:PDH:ERR:E1:AUT:TYPE?
	Returns: FAS
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated

:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate E1/E2/E3/E4 error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:PDH:ERR:E1:AUT:TYPE FAS
	SOUR:DATA:TEL:PDH:ERR:E1:AUT:RATE 1.0E-09
	SOUR:DATA:TEL:PDH:ERR:E1:AUT ON
	SOUR:DATA:TEL:PDH:ERR:E1:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:TYPE
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated:RATE
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AUTomated

:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:INJect

Description	This command enables/disables the manual E1/E2/E3/E4 error injection.
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:INJect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:PDH:ERR:E1:MAN:TYPE FAS
	SOUR:DATA:TEL:PDH:ERR:E1:AMO 15
	SOUR:DATA:TEL:PDH:ERR:E1:INJ
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE
	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:AMOunt

:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE

Description	This command selects the manual E1/E2/E3/E4 error Defect to be injected.
	At *RST condition, this value is set to FAS.
	Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	CRC4: CRC-4 (E1)
	EBIT: E-Bit (E1)
	FAS
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:PDH:ERR:E1:MAN:TYPE FAS
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE?

:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE?

Description	This query returns the manual E1/E2/E3/E4 error Defect to be injected.
	At *RST condition, this value is set to FAS.
	Navigation Path: Results > Alarms/Errors > Injection > E1/E2/E3/E4 > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE?
Response Syntax	\<Error\>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA\> element.
	Returns the error to be injected:
	CRC4: CRC-4 (E1)
	EBIT: E-Bit (E1)
	FAS
Example(s)	SOUR:DATA:TEL:PDH:ERR:E1:MAN:TYPE FAS
	SOUR:DATA:TEL:PDH:ERR:E1:MAN:TYPE?
	Returns: FAS
See Also	SOURce:DATA:TELecom:PDH:ERRor:E[1..n]:MANual:TYPE

:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

Description	This command enables/disables the continuous STS/AU Path alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH:TYPE AIS
	SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH ON
	SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE

:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE

Description	This command selects the continuous STS/AU Path alarm Defect to be injected.
	At *RST condition, this value is set to AIS.
	Navigation Results > Alarms/Errors > Injection > STS/AU Path > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm (SONET | SDH) to be injected:
	AIS: AIS-P | AU-AIS
	EPCD1: ERDI-PCD | HP-ERDI-CD
	EPPD1: ERDI-PPD | HP-ERDI-PD
	EPSD1: ERDI-PSD | HP-ERDI-SD
	LOP: LOP-P | AU-LOP
	PDI: PDI-P
	RDI: RDI-P | HP-RDI
	UNEQP1: UNEQ-P | HP-UNEQ
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH:TYPE AIS
	SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH:TYPE?
	Returns: AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE?

Description	This query returns the continuous STS/AU Path alarm Defect to be injected.
	At *RST condition, this value is set to AIS.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm (SONET | SDH) to be injected:
	AIS: AIS-P | AU-AIS
	EPCD1: ERDI-PCD | HP-ERDI-CD
	EPPD1: ERDI-PPD | HP-ERDI-PD
	EPSD1: ERDI-PSD | HP-ERDI-SD
	LOP: LOP-P | AU-LOP
	PDI: PDI-P
	RDI: RDI-P | HP-RDI
	UNEQP1: UNEQ-P | HP-UNEQ
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH:TYPE AIS
	SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH:TYPE?
	Returns: AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH?

:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH?

Description	This query returns the enable/disable status of the continuous STS/AU Path alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status.
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH:TYPE AIS
	SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH ON
	SOUR:DATA:TEL:SDHS:ALAR:HOP:PATH?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:TCM

Description	This command enables/disables the continuous STS/AU Path TCM alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:TCM <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM:TYPE LIAIS
	SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM ON
	SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE

:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:TYPE

Description	This command selects the continuous STS/AU Path TCM alarm Defect to be injected.
	At *RST condition, this value is set to LLTC.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm (SONET | SDH) to be injected:
	LIAIS: TC-IAIS-P | HPTC-IAIS
	LLTC: TC-LTC-P | HPTC-LTC
	LODI: TC-ODI-P | HPTC-ODI
	LRDI: TC-RDI-P | HPTC- RDI
	LUNEQ: TC-UNEQ-P | HPTC-UNEQ
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM:TYPE LIAIS
	SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM:TYPE?
	Returns: LIAIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:TYPE?

Description	This query returns the continuous STS/AU Path TCM alarm Defect to be injected.
	At *RST condition, this value is set to LLTC.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:TCM:TYPE?
Response Syntax	\<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA> element.
	Returns the alarm (SONET | SDH) to be injected:
	LIAIS: TC-IAIS-P | HPTC-IAIS
	LLTC: TC-LTC-P | HPTC-LTC
	LODI: TC-ODI-P | HPTC-ODI
	LRDI: TC-RDI-P | HPTC- RDI
	LUNEQ: TC-UNEQ-P | HPTC-UNEQ
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM:TYPE LIAIS
	SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM:TYPE?
	Returns: LIAIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH?

:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:TCM?

Description	This query returns the enable/disable status of the continuous STS/AU Path TCM alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:TCM?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status.
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM:TYPE LIAIS
	SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM ON
	SOUR:DATA:TEL:SDHS:ALAR:HOP:TCM?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ALARm:LINE

Description	This command enables/disables the continuous Line/MS alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:LINE <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LINE:TYPE AIS
	SOUR:DATA:TEL:SDHS:ALAR:LINE ON
	SOUR:DATA:TEL:SDHS:ALAR:LINE?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:LINE:TYPE

:SOURce:DATA:TELecom:SDHSonet:ALARm:LINE:TYPE

Description	This command selects the continuous Line/MS alarm Defect to be injected.
	At *RST condition, this value is set to AIS.
	Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:LINE:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	AIS: AIS-L | MS-AIS
	RDI: RDI-L | MS-RDI
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LINE:TYPE AIS
	SOUR:DATA:TEL:SDHS:ALAR:LINE:TYPE?
	Returns: AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:LINE

:SOURce:DATA:TELecom:SDHSonet:ALARm:LINE:TYPE?

Description	This query returns the continuous Line/MS alarm Defect to be injected.
	At *RST condition, this value is set to AIS.
	Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:LINE:TYPE?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm to be injected:
	AIS: AIS-L | MS-AIS
	RDI: RDI-L | MS-RDI
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LINE:TYPE AIS
	SOUR:DATA:TEL:SDHS:ALAR:LINE:TYPE?
	Returns: AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:LINE?

:SOURce:DATA:TELecom:SDHSonet:ALARm:LINE?

Description	This query returns the enable/disable status of the continuous Line/MS alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:LINE?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status.
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LINE:TYPE AIS
	SOUR:DATA:TEL:SDHS:ALAR:LINE ON
	SOUR:DATA:TEL:SDHS:ALAR:LINE?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:LINE:TYPE

:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:PATH

Description	This command enables/disables the continuous VT/TU Path alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:PATH <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables and disables the LOP (Low Order Path) alarm generation.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH:TYPE AIS
	SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH ON
	SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:PATH:TYPE

Description	This command selects the continuous VT/TU Path alarm Defect to be injected.
	At *RST condition, this value is set to AIS.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:PATH:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	AIS: AIS-V | TU-AIS
	EVCD: ERDI-VCD | LP-ERDI-CD
	EVPD: ERDI-VPD | LP-ERDI-PD
	EVSD: ERDI-VSD | LP-ERDI-SD
	LPRFi: RFI-V | LP-RFI
	RDI: RDI-V | LP-RDI
	TULop: LOP-V | TU-LOP
	UNEQp: UNEQ-V | LP-UNEQ
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH:TYPE AIS
	SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH:TYPE?
	Returns: AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH?

:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:PATH:TYPE?

Description	This query returns the continuous VT/TU Path alarm Defect to be injected.
	At *RST condition, this value is set to AIS.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:PATH:TYPE?
Response Syntax	\<Alarm\>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA\> element.
	Returns the alarm to be injected:
	AIS: AIS-V | TU-AIS
	EVCD: ERDI-VCD | LP-ERDI-CD
	EVPD: ERDI-VPD | LP-ERDI-PD
	EVSD: ERDI-VSD | LP-ERDI-SD
	LPRFi: RFI-V | LP-RFI
	RDI: RDI-V | LP-RDI
	TULop: LOP-V | TU-LOP
	UNEQp: UNEQ-V | LP-UNEQ
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH:TYPE AIS
	SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH:TYPE?
	Returns: AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:PATH?

Description	This query returns the enable/disable status of the continuous VT/TU Path alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:PATH?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status.
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH:TYPE AIS
	SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH ON
	SOUR:DATA:TEL:SDHS:ALAR:LOP:PATH?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE

:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:TCM

Description	This command enables/disables the continuous VT/TU Path TCM alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:TCM <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM:TYPE LIAIS
	SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM ON
	SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE

:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:TYPE

Description	This command selects the continuous VT/TU Path TCM alarm Defect to be injected.
	At *RST condition, this value is set to LIAIS.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	LIAIS: TC-AIS-V | LPTC-AIS
	LLTC: TC-LTC-V | LPTC-LTC
	LODI: TC-ODI-V | LPTC-ODI
	LRDI: TC-RDI-V | LPTC-RDI
	LUNEQ: TC-UNEQ-V | LPTC-UNEQ
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM:TYPE LIAIS
	SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM:TYPE?
	Returns: LIAIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:TYPE?

Description	This query returns the continuous VT/TU Path TCM alarm Defect to be injected.
	At *RST condition, this value is set to TLTC.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:TCM:TYPE?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm to be injected:
	LIAIS: TC-AIS-V | LPTC-AIS
	LLTC: TC-LTC-V | LPTC-LTC
	LODI: TC-ODI-V | LPTC-ODI
	LRDI: TC-RDI-V | LPTC-RDI
	LUNEQ: TC-UNEQ-V | LPTC-UNEQ
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM:TYPE LIAIS
	SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM:TYPE?
	Returns: LIAIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH?

:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:TCM?

Description	This query returns the enable/disable status of the continuous VT/TU Path TCM alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:LOP:TCM?
Response Syntax	\<Inject\>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA\> element.
	Returns the enable/disable injection status.
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM:TYPE LIAIS
	SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM ON
	SOUR:DATA:TEL:SDHS:ALAR:LOP:TCM?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH

Description	This command enables/disables the continuous TU-3 Path alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH:TYPE AIS
	SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH ON
	SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE

:SOURce:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH:TYPE

Description	This command selects the continuous TU-3 Path alarm Defect to be injected.
	At *RST condition, this value is set to AIS.
	Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Alarm > Continuous > Defect
	This query returns the continuous TU-3 Path alarm Defect to be injected.
	Returns the alarm to be injected:
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	AIS: TU-AIS
	ECD: LP-ERDI-CD
	EPD: LP-ERDI-PD
	ESD: LP-ERDI-SD
	LOP: TU-LOP
	LPRDi: LP-RDI
	UNEQ: LP-UNEQ
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH:TYPE AIS
	SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH:TYPE?
	Returns: AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH

:SOURce:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH:TYPE ?

Description	This query returns the continuous TU-3 Path alarm Defect to be injected.
	At *RST condition, this value is set to AIS.
	Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH:TYPE?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm to be injected:
	AIS: TU-AIS
	ECD: LP-ERDI-CD
	EPD: LP-ERDI-PD
	ESD: LP-ERDI-SD
	LOP: TU-LOP
	LPRDi: LP-RDI
	UNEQ: LP-UNEQ
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH:TYPE AIS
	SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH:TYPE?
	Returns: AIS
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH?

:SOURce:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH?

Description	This query returns the enable/disable status of the continuous TU-3 Path alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:LOPTu:PATH?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status.
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH:TYPE AIS
	SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH ON
	SOUR:DATA:TEL:SDHS:ALAR:LOPT:PATH?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:HOP:PATH:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ALARm:SECTion

Description	This command enables/disables the continuous Section/RS alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:SECTion <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the continuous alarm Injection.
	ON: Enables alarm generation.
	OFF: Disables alarm generation.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:SECT:TYPE LOF1
	SOUR:DATA:TEL:SDHS:ALAR:SECT ON
	SOUR:DATA:TEL:SDHS:ALAR:SECT?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:SECTion:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ALARm:SECTion:TYPE

Description	This command selects the continuous Section/RS alarm Defect to be injected.
	At *RST condition, this value is set to LOF1.
	Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:SECTion:TYPE <wsp><Alarm>
Parameter(s)	**Alarm**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	LOF1: LOF
	SEF1: SEF
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:SECT:TYPE LOF1
	SOUR:DATA:TEL:SDHS:ALAR:SECT:TYPE?
	Returns: LOF1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:SECTion?

:SOURce:DATA:TELecom:SDHSonet:ALARm:SECTion:TYPE?

Description	This query returns the continuous Section/RS alarm Defect to be injected.
	At *RST condition, this value is set to LOF1.
	Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Alarm > Continuous > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:SECTion:TYPE?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm to be injected:
	LOF1: LOF
	SEF1: SEF
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:SECT:TYPE LOF1
	SOUR:DATA:TEL:SDHS:ALAR:SECT:TYPE?
	Returns: LOF1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:SECTion

:SOURce:DATA:TELecom:SDHSonet:ALARm:SECTion?

Description	This query returns the enable/disable status of the continuous Section/RS alarm injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Alarm > Continuous > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ALARm:SECTion?
Response Syntax	\<Set\>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA\> element.
	Returns the enable/disable injection status.
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ALAR:SECT:TYPE LOF1
	SOUR:DATA:TEL:SDHS:ALAR:SECT ON
	SOUR:DATA:TEL:SDHS:ALAR:SECT?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ALARm:SECTion:TYPE

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt

Description	This command sets the manual STS/AU Path error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected. Choices are 1 through 50.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt?

Description	This query returns the manual STS/AU Path error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated

Description	This command enables/disables the Rate/Max Rate STS/AU Path error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT ON
	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:AUTomated:TYPE?
	SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:AUTomated:RATE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:CONTinuous

Description	This command sets the automated STS/AU Path error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Error > Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:CONTinuous <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:CONT ON
	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:CONTinuous?

Description	This query returns the automated STS/AU Path error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Error > Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:CONTinuous?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:CONT ON
	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE

Description	This command sets the automated STS/AU Path error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:RATE?
	Returns: 1.0E-10
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE?
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated?

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE?

Description	This query returns the automated STS/AU Path error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:RATE?
	Returns: 1.0E-10
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE

Description	This command selects the automated STS/AU Path error Defect to be injected.
	At *RST condition, this value is set to B3.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	B3
	REI: REI-P | HP-REI
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:TYPE B3
	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:TYPE?
	Returns: B3
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE?
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated?

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE?

Description	This query returns the automated STS/AU Path error Defect to be injected.
	At *RST condition, this value is set to B3.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	B3
	REI: REI-P | HP-REI
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:TYPE B3
	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:TYPE?
	Returns: B3
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate STS/AU Path error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT ON
	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect

Description	This command enables/disables the manual STS/AU Path error injection.
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:INJect
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:INJ
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual :TYPE

Description	This command selects the manual STS/AU Path error Defect to be injected.
	At *RST condition, this value is set to B3.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	B3
	REI: REI-P | HP-REI
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:MAN:TYPE B3
	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:MAN:TYPE?
	Returns: B3
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt?

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual :TYPE?

Description	This query returns the manual STS/AU Path error Defect to be injected.
	At *RST condition, this value is set to B3.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	B3
	REI: REI-P | HP-REI
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:MAN:TYPE B3
	SOUR:DATA:TEL:SDHS:ERR:HOP:PATH:MAN:TYPE?
	Returns: B3
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:AUTomated

Description	This command enables/disables the Rate/Max Rate STS/AU Path TCM error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:AUTomated <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT ON
	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE?
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:AUTomated:CONTinuous

Description	This command sets the automated STS/AU Path TCM error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Error > Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:AUTomated:CONTinuous <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:CONT ON
	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:AUTomated:CONTinuous?

Description	This query returns the automated STS/AU Path TCM error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Error > Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:AUTomated:CONTinuous?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:CONT ON
	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:AUTomated:RATE

Description	This command sets the automated STS/AU Path TCM error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:RATE?
	Returns: 1.0E-10
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE?
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated?

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:AUTomated:RATE?

Description	This query returns the automated STS/AU Path TCM error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:RATE?
	Returns: 1.0E-10
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:AUTomated:TYPE

Description	This command selects the automated STS/AU Path TCM error Defect to be injected.
	At *RST condition, this value is set to LIEC.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	LIEC: TC-IEC-P | HPTC-IEC
	LOEI: TC-OEI-P | HPTC-OEI
	LREI: TC-REI-P | HPTC-REI
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:TYPE LOEI
	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:TYPE?
	Returns: LOEI
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE?
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated?

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:AUTomated:TYPE?

Description	This query returns the automated STS/AU Path TCM error Defect to be injected.
	At *RST condition, this value is set to LIEC.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	LIEC: TC-IEC-P | HPTC-IEC
	LOEI: TC-OEI-P | HPTC-OEI
	LREI: TC-REI-P | HPTC-REI
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:TYPE LOEI
	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:TYPE?
	Returns: LOEI
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate STS/AU Path TCM error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:AUTomated?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT ON
	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:INJect

Description	This command enables/disables the manual STS/AU Path TCM error injection.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:INJect
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:INJ
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:MANual: AMOunt

Description	This command sets the manual STS/AU Path TCM error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:MANual:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected. Choices are 1 through 50.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:MAN:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:MAN:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:MANual: AMOunt?

Description	This query returns the manual STS/AU Path TCM error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:MANual:AMOunt?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:MAN:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:MAN:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:MANual: TYPE

Description	This command selects the manual STS/AU Path TCM error Defect to be injected.
	At *RST condition, this value is set to LIEC.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	LIEC: TC-IEC-P | HPTC-IEC
	LOEI: TC-OEI-P | HPTC-OEI
	LREI: TC-REI-P | HPTC-REI
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:MAN:TYPE LOEI
	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:MAN:TYPE?
	Returns: LOEI
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt?

:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:MANual: TYPE?

Description	This query returns the manual STS/AU Path TCM error Defect to be injected.
	At *RST condition, this value is set to LIEC.
	Navigation Path: Results > Alarms/Errors > Injection > STS/AU Path TCM > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:TCM:MANual:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	LIEC: TC-IEC-P | HPTC-IEC
	LOEI: TC-OEI-P | HPTC-OEI
	LREI: TC-REI-P | HPTC-REI
Example(s)	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:MAN:TYPE LOEI
	SOUR:DATA:TEL:SDHS:ERR:HOP:TCM:MAN:TYPE?
	Returns: LOEI
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt

:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AMOunt

Description	This command sets the manual Line/MS error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected. Choices are 1 through 50.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:MAN:TYPE B2
	SOUR:DATA:TEL:SDHS:ERR:LINE:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LINE:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:MANual:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AMOunt?

Description	This query returns the manual Line/MS error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AMOunt?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:MAN:TYPE B2
	SOUR:DATA:TEL:SDHS:ERR:LINE:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LINE:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:MANual:TYPE

:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated

Description	This command enables/disables the Rate/Max Rate Line/MS error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:LINE:AUT ON
	SOUR:DATA:TEL:SDHS:ERR:LINE:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:TYPE?
	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:RATE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated: CONTinuous

Description	This command sets the automated Line/MS error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Error > Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:CONTinuous <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:CONT ON
	SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:TYPE?
	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated: CONTinuous?

Description	This query returns the automated Line/MS error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Error > Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:CONTinuous?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:CONT ON
	SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:TYPE?
	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:RATE

Description	This command sets the automated Line/MS error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:RATE?
	Returns: 1.0E-10
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:TYPE?
	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:RATE?

Description	This query returns the automated Line/MS error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:RATE?
	Returns: 1.0E-10
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:TYPE

:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:TYPE

Description	This command selects the automated Line/MS error Defect to be injected.
	At *RST condition, this value is set to B2.
	Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	B2
	REI: REI-L | MS-REI
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:TYPE B2
	SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:TYPE?
	Returns: B2
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:RATE?
	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:TYPE?

Description	This query returns the automated Line/MS error Defect to be injected.
	At *RST condition, this value is set to B2.
	Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	B2
	REI: REI-L | MS-REI
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:TYPE B2
	SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:TYPE?
	Returns: B2
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:RATE
	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated

:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate Line/MS error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:LINE:AUT ON
	SOUR:DATA:TEL:SDHS:ERR:LINE:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AUTomated:RATE

:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:INJect

Description	This command enables/disables the manual Line/MS error injection.
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:INJect
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:MAN:TYPE B2
	SOUR:DATA:TEL:SDHS:ERR:LINE:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LINE:INJect
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:MANual:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AMOunt

:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:MANual:TYPE

Description	This command selects the manual Line/MS error Defect to be injected.
	At *RST condition, this value is set to B2.
	Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	B2
	REI: REI-L | MS-REI
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:MAN:TYPE B2
	SOUR:DATA:TEL:SDHS:ERR:LINE:MAN:TYPE?
	Returns: B2
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AMOunt?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:MANual:TYPE ?

Description	This query returns the manual Line/MS error Defect to be injected.
	At *RST condition, this value is set to B2.
	Navigation Path: Results > Alarms/Errors > Injection > Line/MS > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:MANual:TYPE?
Response Syntax	\<Error\>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA\> element.
	Returns the error to be injected:
	B2
	REI: REI-L | MS-REI
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LINE:MAN:TYPE B2
	SOUR:DATA:TEL:SDHS:ERR:LINE:MAN:TYPE?
	Returns: B2
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:LINE:AMOunt

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AMOunt

Description	This command sets the manual VT/TU Path error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected. Choices are 1 through 50.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AMOunt ?

Description	This query returns the manual VT/TU Path error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AMOunt?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUTomated

Description	This command enables/disables the Rate/Max Rate VT/TU Path error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUTomated <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT ON
	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:AUTomated:TYPE
	SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:AUTomated:RATE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUToma ted:CONTinuous

Description	This command sets the automated VT/TU Path error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Error > Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUTomated:CONTinuous <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:CONT ON
	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUTomated:CONTinuous?

Description	This query returns the automated VT/TU Path error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Error > Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUTomated:CONTinuous?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:CONT ON
	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE?
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUTomated:RATE

Description	This command sets the automated VT/TU Path error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:RATE?
	Returns: 1.0E-10
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUTomated:RATE?

Description	This query returns the automated VT/TU Path error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:RATE?
	Returns: 1.0E-10
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE?
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUTomated:TYPE

Description	This command selects the automated VT/TU Path error Defect to be injected.
	At *RST condition, this value is set to BIP2.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Error > Rate/Max Rate > Defect
	This query returns the automated VT/TU Path error Defect to be injected.
	Returns the error to be injected:
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	BIP2: BIP-2
	LPRei: REI-V | LP-REI
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:TYPE BIP2
	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:TYPE?
	Returns: BIP2
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUTomated:TYPE?

Description	This query returns the automated VT/TU Path error Defect to be injected.
	At *RST condition, this value is set to BIP2.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	BIP2: BIP-2
	LPRei: REI-V | LP-REI
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:TYPE BIP2
	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:TYPE?
	Returns: BIP2
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE?
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate VT/TU Path error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:AUTomated?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT ON
	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE?
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:INJect

Description	This command enables/disables the manual VT/TU Path error injection.
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:INJect
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:INJ
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:MANual: TYPE

Description	This command selects the manual VT/TU Path error Defect to be injected.
	At *RST condition, this value is set to BIP2.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	BIP2: BIP-2
	LPRei: REI-V | LP-REI
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:MAN:TYPE BIP2
	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:MAN:TYPE?
	Returns: BIP2
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:MANual: TYPE?

Description	This query returns the manual VT/TU Path error Defect to be injected.
	At *RST condition, this value is set to BIP2.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:PATH:MANual:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	BIP2: BIP-2
	LPRei: REI-V | LP-REI
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:MAN:TYPE BIP2
	SOUR:DATA:TEL:SDHS:ERR:LOP:PATH:MAN:TYPE?
	Returns: BIP2
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated

Description	This command enables/disables the Rate/Max Rate VT/TU Path TCM error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT ON
	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE?
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated:CONTinuous

Description	This command sets the automated VT/TU Path TCM error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Error > Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated:CONTinuous <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:CONT ON
	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated:CONTinuous?

Description	This query returns the automated VT/TU Path TCM error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Error > Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated:CONTinuous?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:CONT ON
	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated:RATE

Description	This command sets the automated VT/TU Path TCM error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:RATE?
	Returns: 1.0E-10
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE?
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated:RATE?

Description	This query returns the automated VT/TU Path TCM error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:RATE?
	Returns: 1.0E-10
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated:TYPE

Description	This command selects the automated VT/TU Path TCM error Defect to be injected.
	At *RST condition, this value is set to LBIP.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	LBIP: TC-BIP-V | LPTC-BIP
	LOEI: TC-OEI-V | LPTC-OEI
	LREI: TC-REI-V | LPTC-REI
	LIEC (not supported)
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:TYPE LOEI
	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:TYPE?
	Returns: LOEI
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE?
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated:TYPE?

Description	This query returns the automated VT/TU Path TCM error Defect to be injected.
	At *RST condition, this value is set to LBIP.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	LBIP: TC-BIP-V | LPTC-BIP
	LOEI: TC-OEI-V | LPTC-OEI
	LREI: TC-REI-V | LPTC-REI
	LIEC (not supported)
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:TYPE LOEI
	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:TYPE?
	Returns: LOEI
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate VT/TU Path TCM error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:AUTomated?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT ON
	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:INJect

Description	This command enables/disables the manual VT/TU Path TCM error injection.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:INJect
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:INJ
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:MANual: AMOunt

Description	This command sets the manual VT/TU Path TCM error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:MANual:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected. Choices are 1 through 50.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:MANual: AMOunt?

Description	This query returns the manual VT/TU Path TCM error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:MANual:AMOunt?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:MANual: TYPE

Description	This command selects the manual VT/TU Path TCM error Defect to be injected.
	At *RST condition, this value is set to LBIP.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	LBIP: TC-BIP-V | LPTC-BIP
	LOEI: TC-OEI-V | LPTC-OEI
	LREI: TC-REI-V | LPTC-REI
	LIEC (not supported)
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:TYPE LOEI
	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:TYPE?
	Returns: LOEI
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:MANual: TYPE?

Description	This query returns the manual VT/TU Path TCM error Defect to be injected.
	At *RST condition, this value is set to LBIP.
	Navigation Path: Results > Alarms/Errors > Injection > VT/TU Path TCM > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOP:TCM:MANual:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	LBIP: TC-BIP-V | LPTC-BIP
	LOEI: TC-OEI-V | LPTC-OEI
	LREI: TC-REI-V | LPTC-REI
	LIEC (not supported)
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:TYPE LOEI
	SOUR:DATA:TEL:SDHS:ERR:LOP:TCM:MAN:TYPE?
	Returns: LOEI
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AMOunt

Description	This command sets the manual TU-3 Path error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected. Choices are 1 through 50.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AMOunt?

Description	This query returns the manual TU-3 Path error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AMOunt?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated

Description	This command enables/disables the Rate/Max Rate TU-3 Path error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT ON
	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:AUTomated:TYPE?
	SOURce:DATA:TELecom:SDHS:ERRor:HOP:PATH:AUTomated:RATE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:CONTinuous

Description	This command sets the automated TU-3 Path error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Error > Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:CONTinuous <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:CONT ON
	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTo mated:CONTinuous?

Description	This query returns the automated TU-3 Path error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Error > Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:CONTinuous?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:CONT ON
	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:RATE

Description	This command sets the automated TU-3 Path error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:RATE <wsp><Rate>
Parameter(s)	Rate:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported rate
	MINimum: Smallest supported rate
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:RATE?
	Returns: 1.0E-10
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE?
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:RATE?

Description	This query returns the automated TU-3 Path error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:RATE?
	Returns: 1.0E-10
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:TYPE

Description	This command selects the automated TU-3 Path error Defect to be injected.
	At *RST condition, this value is set to B3.
	Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	B3
	REI: LP-REI
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:TYPE B3
	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:TYPE?
	Returns: B3
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE?
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:TYPE?

Description	This query returns the automated TU-3 Path error Defect to be injected.
	At *RST condition, this value is set to B3.
	Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated:TYPE?
Response Syntax	\<Error\>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA\> element.
	Returns the error to be injected:
	B3
	REI: LP-REI
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:TYPE B3
	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:TYPE?
	Returns: B3
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate TU-3 Path error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:AUTomated?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT ON
	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AUTomated:RATE

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:INJect

Description	This command enables/disables the manual TU-3 Path error injection.
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:INJect
Response Syntax	\<Set>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:INJ
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:MANual:TYPE

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:MANual:TYPE

Description	This command selects the manual TU-3 Path error Defect to be injected.
	At *RST condition, this value is set to B3.
	Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	B3
	REI: LP-REI
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:MAN:TYPE B3
	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:MAN:TYPE?
	Returns: B3
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt?

:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:MANual:TYPE?

Description	This query returns the manual TU-3 Path error Defect to be injected.
	At *RST condition, this value is set to B3.
	Navigation Path: Results > Alarms/Errors > Injection > TU-3 > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:LOPTu:PATH:MANual:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	B3
	REI: LP-REI
Example(s)	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:MAN:TYPE B3
	SOUR:DATA:TEL:SDHS:ERR:LOPT:PATH:MAN:TYPE?
	Returns: B3
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:HOP:PATH:AMOunt

:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AMOunt

Description	This command sets the manual Section/RS error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of error to be injected. Choices are 1 through 50.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Error>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:MAN:TYPE B1
	SOUR:DATA:TEL:SDHS:ERR:SECT:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:SECT:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:MANual:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AMOunt?

Description	This query returns the manual Section/RS error Amount to be injected.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Error > Manual > Amount
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AMOunt?[<wsp><Amount>]
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:MAN:TYPE B1
	SOUR:DATA:TEL:SDHS:ERR:SECT:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:SECT:AMO?
	Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:MANual:TYPE

:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated

Description	This command enables/disables the Rate/Max Rate Section/RS error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated <wsp><Inject>
Parameter(s)	**Inject**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Starts/stops the automated Rate/Max Rate error Injection.
	ON: Enables error injection.
	OFF: Disables error injection.
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:SECT:AUT ON
	SOUR:DATA:TEL:SDHS:ERR:SECT:AUT
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:RATE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:CONTinuous

Description	This command sets the automated Section/RS error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Error > Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:CONTinuous <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the automated error Mode:
	ON: Max Rate
	OFF: Rate
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:CONT ON
	SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:TYPE?
	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated?

:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:CONTinuous?

Description	This query returns the automated Section/RS error Mode: ON for Max Rate and OFF for Rate.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Error > Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:CONTinuous?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the automated error Mode:
	1: Max Rate
	0: Rate
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:CONT ON
	SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:TYPE
	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated

:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:RATE

Description	This command sets the automated Section/RS error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:RATE <wsp><Rate>
Parameter(s)	**Rate**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the rate of error to be injected.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Mode>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:RATE?
	Returns: 1.0E-10
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:TYPE?

:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:RATE?

Description	This query returns the automated Section/RS error Rate to be injected.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Error > Rate > Rate
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:RATE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current injection rate is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the rate of error to be injected.
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:RATE?
	Returns: 1.0E-10
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:TYPE

:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:TYPE

Description	This command selects the automated Section/RS error Defect to be injected.
	At *RST condition, this value is set to B1.
	Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	B1
	FAS
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:TYPE B1
	SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:TYPE?
	Returns: B1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated?

:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:TYPE?

Description	This query returns the automated Section/RS error Defect to be injected.
	At *RST condition, this value is set to B1.
	Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Error > Rate/Max Rate > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	B1
	FAS
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:TYPE B1
	SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:TYPE?
	Returns: B1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated

:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated?

Description	This query returns the enable/disable status of the Rate/Max Rate Section/RS error injection.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Error > Rate/Max Rate > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated?
Response Syntax	<Inject>
Response(s)	**Inject**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable injection status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:AUT:RATE 1.0E-10
	SOUR:DATA:TEL:SDHS:ERR:SECT:AUT ON
	SOUR:DATA:TEL:SDHS:ERR:SECT:AUT?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AUTomated:RATE

:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:INJect

Description	This command enables/disables the manual Section/RS error injection.
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Error > Manual > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:INJect
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:AMO 15
	SOUR:DATA:TEL:SDHS:ERR:SECT:INJ
See Also	SOURce:DATA:TELecom:SDHS:ERRor:SECTion:MANual:TYPE
	SOURce:DATA:TELecom:SDHS:ERRor:SECTion:AMOunt

:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:MANual:TYPE

Description	This command selects the manual Section/RS error Defect to be injected.
	At *RST condition, this value is set to B1.
	Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:MANual:TYPE <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error to be injected:
	B1
	FAS
Response Syntax	<Inject>
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:MAN:TYPE B1
	SOUR:DATA:TEL:SDHS:ERR:SECT:MAN:TYPE?
	Returns: B1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AMOunt?

:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:MANual:TYPE?

Description	This query returns the manual Section/RS error Defect to be injected.
	At *RST condition, this value is set to B1.
	Navigation Path: Results > Alarms/Errors > Injection > Section/RS > Error > Manual > Defect
Syntax	:SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:MANual:TYPE?
Response Syntax	<Error>
Response(s)	**Error**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the error to be injected:
	B1
	FAS
Example(s)	SOUR:DATA:TEL:SDHS:ERR:SECT:MAN:TYPE B1
	SOUR:DATA:TEL:SDHS:ERR:SECT:MAN:TYPE?
	Returns: B1
See Also	SOURce:DATA:TELecom:SDHSonet:ERRor:SECTion:AMOunt

:SOURce:DATA:TELecom:SOAM:ALARm:ADDRess:TYPE

Description	This command selects the continuous OAM alarm Address Type for injection.
	At *RST condition, this value is set to Unicast.
	Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > Address Type
Syntax	:SOURce:DATA:TELecom:SOAM:ALARm:ADDRess:TYPE[<wsp><AdresseType>]
Parameter(s)	**AdresseType**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Address Type:
	MULTicast
	UNIcast
Response Syntax	<Error>
Example(s)	SOURce:DATA:TEL:SOAM:ALAR:ADDR:TYPE MULT
See Also	SOURce:DATA:TELecom:SOAM:ALARm:TYPE?

:SOURce:DATA:TELecom:SOAM:ALARm:ADDRess:TYPE?

Description	This query returns the continuous OAM alarm Address Type for injection.
	At *RST condition, this value is set to Unicast.
	Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > Address Type
Syntax	:SOURce:DATA:TELecom:SOAM:ALARm:ADDRess:TYPE?
Response Syntax	<AddressType>
Response(s)	**AddressType**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Address Type:
	MULTicast
	UNIcast
Example(s)	SOUR:DATA:TEL:SOAM:ALAR:ADDR:TYPE?
See Also	SOURce:DATA:TELecom:SOAM:ALARm:TYPE

:SOURce:DATA:TELecom:SOAM:ALARm:DEFect

Description	This command selects the continuous OAM alarm Defect to be injected.
	At *RST condition, this value is set to RDI.
	Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > Defect
Syntax	:SOURce:DATA:TELecom:SOAM:ALARm:DEFect[<wsp><Defect>]
Parameter(s)	**Defect**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the alarm to be injected:
	AIS: AIS
	CDCI: C-DCI
	CFDI: C-FDI
	CLOS: C-LOS
	CRDI: C-RDI
	LCK: LCK
	RDI: RDI
Response Syntax	<AddressType>
Example(s)	SOUR:DATA:TEL:SOAM:ALAR:DEF AIS
See Also	SOURce:DATA:TELecom:SOAM:ALARm:PRIority?

:SOURce:DATA:TELecom:SOAM:ALARm:DEFect?

Description	This query returns the continuous OAM alarm Defect to be injected.
	At *RST condition, this value is RDI.
	Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > Defect
Syntax	:SOURce:DATA:TELecom:SOAM:ALARm:DEFect?
Response Syntax	<Defect>
Response(s)	**Defect**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the alarm to be injected:
	AIS: AIS
	CDCI: C-DCI
	CFDI: C-FDI
	CLOS: C-LOS
	CRDI: C-RDI
	LCK: LCK
	RDI: RDI
Example(s)	SOUR:DATA:TEL:SOAM:ALAR:DEF?
See Also	SOURce:DATA:TELecom:SOAM:ALARm:PRIority

:SOURce:DATA:TELecom:SOAM:ALARm:GENerate

Description	This command sets the alarm injection On or Off.
	At *RST condition, this value is set to off.
	Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > Inject
Syntax	:SOURce:DATA:TELecom:SOAM:ALARm:GENerate <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Defect>
Example(s)	SOUR:DATA:TEL:SOAM:ALAR:GEN ON
See Also	SOURce:DATA:TELecom:SOAM:ALARm:AMOunt?

:SOURce:DATA:TELecom:SOAM:ALARm:GENerate?

Description	This query returns the transmission period of the CCM frame.
	At *RST condition, this value is set to 10 ms.
	Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > Inject
Syntax	:SOURce:DATA:TELecom:SOAM:ALARm:GENerate?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of alarm injection.
	1, status of alarm is enabled
	0, status of alarm is disabled
Example(s)	SOUR:DATA:TEL:SOAM:ALAR:GEN?
See Also	SOURce:DATA:TELecom:SOAM:ALARm:AMOunt

:SOURce:DATA:TELecom:SOAM:ALARm:MD:LEVel

Description	This command selects the continuous OAM alarm MD Level for injection.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > MD Level
Syntax	:SOURce:DATA:TELecom:SOAM:ALARm:MD:LEVel[<wsp><MD Level>]
Parameter(s)	**MD Level**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the MD Level: 0, 1, 2, 3, 4, 5, 6, or 7.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SOAM:ALAR:MD:LEV 4
See Also	SOURce:DATA:TELecom:SOAM:ALARm:PERiod?

:SOURce:DATA:TELecom:SOAM:ALARm:MD:LEVel?

Description	This query returns the continuous OAM alarm MD Level for injection.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > MD Level
Syntax	:SOURce:DATA:TELecom:SOAM:ALARm:MD:LEVel?
Response Syntax	<MD Level>
Response(s)	**MD Level**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the MD Level: 0, 1, 2, 3, 4, 5, 6, or 7.
Example(s)	SOUR:DATA:TEL:SOAM:ALAR:MD:LEV?
See Also	SOURce:DATA:TELecom:SOAM:ALARm:PERiod

:SOURce:DATA:TELecom:SOAM:ALARm:MEG:LEVel

Description	This command selects the continuous OAM alarm MEG Level for injection.
	At *RST condition, this value is set to 7.
	Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > MEG Level
Syntax	:SOURce:DATA:TELecom:SOAM:ALARm:MEG:LEVel[<wsp><MEG Level>]
Parameter(s)	**MEG Level**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the MEG Level: 0, 1, 2, 3, 4, 5, 6, or 7.
Response Syntax	<MD Level>
Example(s)	SOUR:DATA:TEL:SOAM:ALAR:MEG:LEV 4
See Also	SOURce:DATA:TELecom:SOAM:ALARm:DROP:ELIGible?

:SOURce:DATA:TELecom:SOAM:ALARm:MEG:LEVel?

Description	This query returns the continuous OAM alarm MEG Level for injection.
	At *RST condition, this value is set to 7.
	Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > MEG Level
Syntax	:SOURce:DATA:TELecom:SOAM:ALARm:MEG:LEVel?
Response Syntax	<MEG Level>
Response(s)	**MEG Level**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the MEG Level: 0, 1, 2, 3, 4, 5, 6, or 7.
Example(s)	SOUR:DATA:TEL:SOAM:ALAR:MEG:LEV?
See Also	SOURce:DATA:TELecom:SOAM:ALARm:DROP:ELIGible

:SOURce:DATA:TELecom:SOAM:ALARm:PERiod

Description	This command selects the continuous OAM alarm Period for injection.
	At *RST condition, this value is set to 1 ms.
	Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > Period
Syntax	:SOURce:DATA:TELecom:SOAM:ALARm:PERiod[<wsp><Period>]
Parameter(s)	**Period**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Period:
	P333MS: 3.33 MilliSeconds
	P10MS: 10 MilliSeconds
	P100MS: 100 MilliSeconds
	P1S: 1 Second
	P10S: 10 Seconds
	P1MIN: 1 Minute
	P10MIN: 10 Minutes
Response Syntax	<MEG Level>
Example(s)	SOUR:DATA:TEL:SOAM:ALAR:PER P1MIN
See Also	SOURce:DATA:TELecom:SOAM:ALARm:MD:LEVel?

:SOURce:DATA:TELecom:SOAM:ALARm:PERiod?

Description	This query returns the continuous OAM alarm Period for injection.
	At *RST condition, this value is set to 10 ms.
	Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > Period
Syntax	:SOURce:DATA:TELecom:SOAM:ALARm:PERiod?
Response Syntax	<Period>
Response(s)	**Period**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Period:
	P333MS: 3.33 MilliSeconds
	P10MS: 10 MilliSeconds
	P100MS: 100 MilliSeconds
	P1S: 1 Second
	P10S: 10 Seconds
	P1MIN: 1 Minute
	P10MIN: 10 Minutes
Example(s)	SOUR:DATA:TEL:SOAM:ALAR:PER?
See Also	SOURce:DATA:TELecom:SOAM:ALARm:MD:LEVel

:SOURce:DATA:TELecom:SOAM:ALARm:PRIority

Description	This command selects the continuous OAM alarm Priority for injection.
	At *RST condition, this value is set to 0.
	Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > Priority
Syntax	:SOURce:DATA:TELecom:SOAM:ALARm:PRIority <wsp><value>
Parameter(s)	**value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the priority: 0, 1, 2, 3, 4, 5, 6, or 7.
Response Syntax	<Period>
Example(s)	SOUR:DATA:TEL:SOAM:ALAR:PRI 2
See Also	SOURce:DATA:TELecom:SOAM:ALARm:DEFect?

:SOURce:DATA:TELecom:SOAM:ALARm:PRIority?

Description	This query returns the continuous OAM alarm Priority for injection.
	At *RST condition, this value is set to 7.
	Navigation Path: Results > Alarms/Errors > Injection > S-OAM/MPLS-TP OAM > Alarm > Priority
Syntax	:SOURce:DATA:TELecom:SOAM:ALARm:PRIority?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the priority: 0, 1, 2, 3, 4, 5, 6, or 7.
Example(s)	SOUR:DATA:TEL:SOAM:ALAR:PRI?
See Also	SOURce:DATA:TELecom:SOAM:ALARm:DEFect

Traces - SONET/SDH

:FETCh:DATA:TELecom:SDHSonet:HOP:TCAPident:N[1..n]:RECeived?

Description	This query returns the received value for Path Overhead.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Test Configurator > Results > Traces > OC > Traces > > TCM Access Point Identifier > STS Path > Received
	Navigation Path: Setup > SONET/SDH BERT > Test Configurator > Results > Traces > STM > Traces > > TCM Access Point Identifier > AU Path > Received
Syntax	:FETCh:DATA:TELecom:SDHSonet:HOP:TCAPident:N[1..n]:RECeived?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the received 16 or 64 byte format TCM Access Point Identifier message for Path Overhead.
Example(s)	FETC:DATA:TEL:SDHS:HOP:TCAP:N1:RECeived?
	Returns: tcmmessage
See Also	FETCh:DATA:TELecom:SDHSonet:POVerhead:J1:TIM:PATTern:RECeived

:FETCh:DATA:TELecom:SDHSonet:LOP:OVERhead:J[1..n]:TIM:PATTern:RECeived?

Description	This query returns the received J2 and J1 value for Low Path Overhead.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Test Configurator > Results > Traces > VT Path (J2) > Received
	Navigation Path: Setup > SONET/SDH BERT > Test Configurator > Results > Traces TU Path (J2) > Received
	Navigation Path: Setup > SONET/SDH BERT > Test Configurator > Results > Traces TU3 Path (J1) > Received
Syntax	:FETCh:DATA:TELecom:SDHSonet:LOP:OVERhead:J[1..n]:TIM:PATTern:RECeived?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the received J2 value for Low Path Overhead
Example(s)	FETC:DATA:TEL:SDHS:LOP:OVER:J2:TIM:PATT:REC?
See Also	FETCh:DATA:TELecom:SDHSonet:SOVerhead:J[1..n]:TIM:PATTern:RECeived

:FETCh:DATA:TELecom:SDHSonet:LOP:TCAPident:N[1..n]:RECeived?

Description	This query returns the received value for Path Overhead.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Test Configurator > Results > Traces > OC > Traces > > TCM Access Point Identifier > STS Path > Received
	Navigation Path: Setup > SONET/SDH BERT > Test Configurator > Results > Traces > STM > Traces > > TCM Access Point Identifier > AU Path > Received
Syntax	:FETCh:DATA:TELecom:SDHSonet:LOP:TCAPident:N[1..n]:RECeived?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the received 16 or 64 byte format TCM Access Point Identifier message for Path Overhead.
Example(s)	FETC:DATA:TEL:SDHS:LOP:TCAP:N2:RECeived?
	Returns: tcmmessage
See Also	FETCh:DATA:TELecom:SDHSonet:POVerhead:J1:TIM:PATTern:RECeived

:FETCh:DATA:TELecom:SDHSonet:POVerhead:J[1..n]:TIM:PATTern:RECeived?

Description	This query returns the received J1 value for Path Overhead.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Traces > SONET > Traces > STS Path (J1) > Received
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Traces > SDH > Traces > AU Path (J1) > Received
Syntax	:FETCh:DATA:TELecom:SDHSonet:POVerhead:J[1..n]:TIM:PATTern:RECeived?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the received J1 value for Path Overhead.
Example(s)	FETC:DATA:TEL:SDHS:POV:J1:TIM:PATT:REC?
See Also	FETCh:DATA:TELecom:SDHSonet:SOVerhead:J[1..n]:TIM:PATTern:RECeived

:FETCh:DATA:TELecom:SDHSonet:SOVerhead:J[1..n]:TIM:PATTern:RECeived?

Description	This query returns the received J0 value for Section Overhead.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Traces > SONET > Traces > Section (J0) > Received
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Traces > SDH > Traces > RS (J0) > Received
Syntax	:FETCh:DATA:TELecom:SDHSonet:SOVerhead:J[1..n]:TIM:PATTern:RECeived?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the received J0 value for Section Overhead.
Example(s)	FETC:DATA:TEL:SDHS:SOV:J100:TIM:PATT:REC?
See Also	FETCh:DATA:TELecom:SDHSonet:POVerhead:J1:TIM:PATTern:RECeived

:SENSe:DATA:TELecom:SDHSonet:HOP:TCAPident:COPY

Description	This event sets the copy Rx to instrument for HOP TCM Path Overhead.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Test > SONET/SDH BERT > Results > Traces > OC > TIM-P > Copy RX
	Navigation Path: Test > SONET/SDH BERT > Results > Traces > STM > HPTC-TIM > Copy RX
Syntax	:SENSe:DATA:TELecom:SDHSonet:HOP:TCAPident:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:SDHS:HOP:TCAP:COPY
See Also	SENSe:DATA:TELecom:SDHSonet:LINE:OVERhead:TIM:COPY

:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM:COPY

Description	This command sets the copy Rx to instrument for Low Path Overhead.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Test > SONET/SDH BERT > Results > Traces > OC > TIM-V > Copy RX
	Navigation Path: Test > SONET/SDH BERT > Results > Traces > STM > LP-TIM > Copy RX
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:OVERhead:TIM:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:SDHS:LOP:OVER:TIM:COPY
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:COPY

:SENSe:DATA:TELecom:SDHSonet:LOP:TCAPident:COPY

Description	This event sets the copy Rx to instrument for LOP TCM Path Overhead.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Test > SONET/SDH BERT > Results > Traces > OC > TIM-V > Copy RX
	Navigation Path: Test > SONET/SDH BERT > Results > Traces > STM > LPTC-TIM > Copy RX
Syntax	:SENSe:DATA:TELecom:SDHSonet:LOP:TCAPident:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:SDHS:LOP:TCAP:COPY
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:COPY

:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:COPYrx

Description	This command sets the copy Rx to instrument for Path Overhead.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Test > OTN SONET/SDH BERT OR SONET/SDH BERT > Results > Traces > SONET > Traces > TIM-P > Copy RX
	Navigation Path: Test > OTN SONET/SDH BERT OR SONET/SDH BERT > Results > Traces > SDH > Traces > HP-TIM > Copy RX
Syntax	:SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:COPYrx
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:SDHS:PATH:OVER:TIM:COPY
See Also	SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:COPY

:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:COPYrx

Description	This command sets the copy Rx to instrument for Section Overhead.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Test > OTN SONET/SDH BERT OR SONET/SDH BERT > Results > Traces > SONET > Traces > TIM-S > Copy RX
	Navigation Path: Test > OTN SONET/SDH BERT OR SONET/SDH BERT > Results > Traces > SDH > Traces > RS-TIM > Copy RX
Syntax	:SENSe:DATA:TELecom:SDHSonet:SECTion:OVERhead:TIM:COPYrx
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:SDHS:SECT:OVER:TIM:COPY
See Also	SENSe:DATA:TELecom:SDHSonet:PATH:OVERhead:TIM:COPY

Traces - OTN

:FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI: DAPI:B?

Description	This query returns the ODU1e/2e/3e1/3e2 TCM DAPI Received Message.
	At *RST condition, this value is set to EXFO TCMn DAPI.
	Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > DAPI - Received Message
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message for the instrument.
Example(s)	FETC:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:DAPI:B16?
	Returns: EXFO TCM1 DAPI
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI: OPSPec:B?

Description	This query returns the ODU1e/2e/3e1/3e2 TCM Operator Specific Received Message.
	At *RST condition, this value is set to EXFO TCMn OPERATOR SPECIFIC.
	Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > Operator Specific - Received Message
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:OPSPec:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message for the instrument.
Example(s)	FETC:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:OPSP:B32?
	Returns: EXFO TCM1 OPERATOR SPECIFIC
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:B?

Description	This query returns the ODU1e/2e/3e1/3e2 TCM SAPI Received Message.
	At *RST condition, this value is set to EXFO TCMn SAPI.
	Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > SAPI - Received Message
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message.
Example(s)	FETC:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:SAPI:B16?
	Returns: EXFO TCM1 SAPI
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:B?

Description	This query returns the ODU1e/2e/3e1/3e2 DAPI Received Message.
	At *RST condition, this value is set to EXFO ODU DAPI.
	Navigation Path: Results > Traces > OTN > OTU > PM TTI Traces > DAPI
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message for over clocked ODU TTI.
Example(s)	FETCh:DATA:TELecom:OTN:ODU3:E1:TTI:DAPI:B?
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:OPSPec:B?

Description	This query returns the ODU1e/2e/3e1/3e2 PM Operator Specific Received Message.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > Operator Specific - Received Message
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:OPSPec:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message for over clocked ODU TTI.
Example(s)	FETCh:DATA:TELecom:OTN:ODU3:E1:TTI:OPSPec:B?
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:B?

Description	This query returns the ODU1e/2e/3e1/3e2 PM SAPI received message.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > SAPI - Received Message
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the received message.
Example(s)	FETCh:DATA:TELecom:OTN:ODU3:E1:TTI:SAPI:B?
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI:B ?

Description	This query returns the ODU1f/2f TCM DAPI Received Message.
	At *RST condition, this value is set to EXFO TCMn DAPI.
	Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > DAPI - Received Message
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message for the instrument.
Example(s)	FETC:DATA:TEL:OTN:ODU1:F:TCM1:TTI:DAPI:B?
	Returns: EXFO TCM1 DAPI
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:OPSPec:B?

Description	This query returns the ODU1f/2f TCM Operator Specific Received Message.
	At *RST condition, this value is set to EXFO TCMn OPERATOR SPECIFIC.
	Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > Operator Specific - Received Message
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:OPSPec:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message for the instrument.
Example(s)	FETC:DATA:TEL:OTN:ODU1:F:TCM1:TTI:OPSP:B?
	Returns: EXFO OTU OPERATOR SPECIFIC
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:B ?

Description	This query returns the ODU1f/2f TCM SAPI Received Message.
	At *RST condition, this value is set to EXFO TCMn SAPI.
	Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > SAPI - Received Message
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:B?
Response Syntax	\<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a \<STRING RESPONSE DATA> element.
	Returns the selected message.
Example(s)	FETC:DATA:TEL:OTN:ODU1:F:TCM1:TTI:SAPI:B?
	Returns: EXFO TCM1 SAPI
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TTI:DAPI:B?

Description	This query returns the received DAPI message for Over Clocked ODU TTI.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test > OTN BERT > Results > TTI Traces > ODU > PM TTI Traces > DAPI
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TTI:DAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message for over clocked ODU TTI.
Example(s)	FETCh:DATA:TELecom:OTN:ODU1:F:TTI:DAPI:B?
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TTI:OPSPec:B?

Description	This query returns the ODU1f/2f PM Operator Specific Received Message.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > Operator Specific - Received Message
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TTI:OPSPec:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message for over clocked ODU TTI.
Example(s)	FETCh:DATA:TELecom:OTN:ODU1:F:TTI:OPSPec:B?
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TTI:SAPI:B?

Description	This query returns the ODU1f/2f PM SAPI received message.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > SAPI - Received Message
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:F:TTI:SAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message for over clocked ODU TTI.
Example(s)	FETCh:DATA:TELecom:OTN:ODU1:F:TTI:SAPI:B?
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:B?

Description	This query returns the ODUn TCM DAPI Received Message.
	At *RST condition, this value is set to EXFO TCMn DAPI.
	Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > DAPI - Received Message
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message for ODU TCM TTI.
Example(s)	FETC:DATA:TEL:OTN:ODU1:TCM1:TTI:DAPI:B?
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:OPSPec: B?

Description	This query returns the ODUn TCM Operator Specific Received Message.
	At *RST condition, this value is set to EXFO TCMn OPERATOR SPECIFIC.
	Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > Operator Specific - Received Message
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:OPSPec:B?
Response Syntax	\<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a \<STRING RESPONSE DATA> element.
	Returns the selected message for ODU TCM TTI.
Example(s)	FETC:DATA:TEL:OTN:ODU1:TCM1:TTI:OPSP:B?
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B?

Description	This query returns the ODUn TCM SAPI Received Message.
	At *RST condition, this value is set to EXFO TCMn SAPI.
	Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > SAPI - Received Message
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message.
Example(s)	FETC:DATA:TEL:OTN:ODU1:TCM1:TTI:SAPI:B?
	Returns: EXFO TCM1 SAPI
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:B?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:B?

Description	This query returns the received message for ODU TTI Trace. At *RST condition, this value is set to device-dependent. Navigation Path: Test > OTN BERT > Results > TTI Traces > ODU > PM TTI Traces In Multi-Channel OTN, when accessing an ODU LO, the channel must be set using SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel. The query can not be used for all channels. In FlexO BERT, when accessing an ODU LO, the client ID must be set using SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLIent The query can not be used for all clients.
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:B?
Response Syntax	<Message>
Response(s)	**Message**: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the selected message for ODU TTI.
Example(s)	FETC:DATA:TEL:OTN:ODU1:TTI:DAPI:B? For Multi-Channel OTN: SENS:DATA:TEL:OTN:ODU100:TTI:CHAN 2 FETC:DATA:TEL:OTN:ODU100:TTI:DAPI:B? For FlexO BERT: SENS:DATA:TEL:OTN:ODU101:TTI:CLI 2 FETC:DATA:TEL:OTN:ODU101:TTI:DAPI:B?
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B? For Multi-Channel OTN: SENS[1..n]:DATA:TEL:OTN:ODU[1..n]:TTI:CHANnel SENS[1..n]:DATA:TEL:OTN:ODU[1..n]:TTI:CHANnel? For FlexO BERT: SENS[1..n]:DATA:TEL:OTN:ODU[1..n]:TTI:CLIent SENS[1..n]:DATA:TEL:OTN:ODU[1..n]:TTI:CLIent?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:TTI:OPSPec:B?

Description	This query returns the ODUn PM Operator Specific Received Message.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > Operator Specific - Received Message
	In Multi-Channel OTN, when accessing an ODU LO, the channel must be set using SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel. The query can not be used for all channels.
	In FlexO BERT, when accessing an ODU LO, the client ID must be set using SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLIent. The query can not be used for all clients.
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:TTI:OPSPec:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message for ODU TTI.
Example(s)	FETC:DATA:TEL:OTN:ODU1:TTI:OPSP:B?
	For Multi-Channel OTN:
	SENS:DATA:TEL:OTN:ODU100:TTI:CHAN 2
	FETC:DATA:TEL:OTN:ODU100:TTI:OPSP:B?
	For FlexO BERT:
	SENS:DATA:TEL:OTN:ODU101:TTI:CLI 2
	FETC:DATA:TEL:OTN:ODU101:TTI:OPSP:B?
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B?
	For Multi-Channel OTN:
	SENS[1..n]:DATA:TEL:OTN:ODU[1..n]:TTI:CHANnel
	SENS[1..n]:DATA:TEL:OTN:ODU[1..n]:TTI:CHANnel?
	For FlexO BERT:
	SENS[1..n]:DATA:TEL:OTN:ODU[1..n]:TTI:CLIent
	SENS[1..n]:DATA:TEL:OTN:ODU[1..n]:TTI:CLIent?

:FETCh:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:B?

Description	This query returns the ODUn PM SAPI received message.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > SAPI - Received Message
	In Multi-Channel OTN, when accessing an ODU LO, the channel must be set using SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel. The query can not be used for all channels.
	In FlexO BERT, when accessing an ODU LO, the client ID must be set using SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLIent. The query can not be used for all clients.
Syntax	:FETCh:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the received message.
Example(s)	FETC:DATA:TEL:OTN:ODU1:TTI:SAPI:B?
	For Multi-Channel OTN:
	SENS:DATA:TEL:OTN:ODU100:TTI:CHAN 2
	FETC:DATA:TEL:OTN:ODU100:TTI:SAPI:B?
	For FlexO BERT:
	SENS:DATA:TEL:OTN:ODU101:TTI:CLI 2
	FETC:DATA:TEL:OTN:ODU101:TTI:SAPI:B?
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:B?
	For Multi-Channel OTN:
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel?
	For FlexO BERT:
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLIent
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLIent?

:FETCh:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:B?

Description	This query returns the OTU1e/2e/3e1/3e2 DAPI Received Message. At *RST condition, this value is set to EXFO OTUn DAPI. Navigation Path: Results > Traces > OTN > OTU > SM TTI Traces > DAPI Received Message NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:B?
Response Syntax	<Message>
Response(s)	**Message**: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the received message.
Example(s)	FETC:DATA:TEL:OTN:OTU3:E1:TTI:DAPI:B16? Returns: EXFO OTU DAPI
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:OPSPec:B?

Description	This query returns the received message for overclocked rates OTU3e1/2.
	At *RST condition, this value is set to EXFO OTU OPERATOR SPECIFIC.
	Navigation Path: Test > OTN BERT > Results > TTI Traces > OTU3e(1/2) > SM TTI Traces > Operator Specific
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:OPSPec:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message.
Example(s)	FETC:DATA:TEL:OTN:OTU3:E1:TTI:OPSP:B32?
	Returns: EXFO OTU OPERATOR SPECIFIC
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:B?

Description	This query returns the received message for overclocked rates OTU3e1/2.
	At *RST condition, this value is set to EXFO OTU SAPI.
	Navigation Path: Test > OTN BERT > Results > TTI Traces > OTU3e(1/2) > SM TTI Traces > SAPI
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:FETCh:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message.
Example(s)	FETC:DATA:TEL:OTN:OTU3:E1:TTI:SAPI:B16?
	Returns: EXFO OTU SAPI
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:OTU[1..n]:F:TTI:DAPI:B?

Description	This query returns the OTU1f/2f DAPI Received Message.
	At *RST condition, this value is set to EXFO OTUn DAPI.
	Navigation Path: Results > Traces > OTN > OTU > SM TTI Traces > DAPI Received Message
Syntax	:FETCh:DATA:TELecom:OTN:OTU[1..n]:F:TTI:DAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message.
Example(s)	FETC:DATA:TEL:OTN:OTU1:F:TTI:DAPI:B?
	Returns: EXFO OTU DAPI
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:OTU[1..n]:F:TTI:OPSPec:B?

Description	This query returns the received message for non-standard rates OTU(1/2)f
	At *RST condition, this value is set to EXFO OTU OPERATOR SPECIFIC.
	Navigation Path: Test > OTN BERT > Results > TTI Traces > OTU(1/2)f > SM TTI Traces > Operator Specific
Syntax	:FETCh:DATA:TELecom:OTN:OTU[1..n]:F:TTI:OPSPec:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message.
Example(s)	FETC:DATA:TEL:OTN:OTU1:F:TTI:OPSP:B?
	Returns: EXFO OTU OPERATOR SPECIFIC
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:OTU[1..n]:F:TTI:SAPI:B?

Description	This query returns the received message for non-standard rates OTU(1/2)f
	At *RST condition, this value is set to EXFO OTU SAPI.
	Navigation Path: Test > OTN BERT > Results > TTI Traces > OTU(1/2)f > SM TTI Traces > SAPI
Syntax	:FETCh:DATA:TELecom:OTN:OTU[1..n]:F:TTI:SAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message.
Example(s)	FETC:DATA:TEL:OTN:OTU1:F:TTI:SAPI:B?
	Returns: EXFO OTU SAPI
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:B?

:FETCh:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:B?

Description	This query returns the OTU DAPI Received Message.
	At *RST condition, this value is set to EXFO OTUn DAPI.
	Navigation Path: Results > Traces > OTN > OTU > SM TTI Traces > DAPI Received Message
Syntax	:FETCh:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message for OTU.
Example(s)	FETC:DATA:TEL:OTN:OTU1:TTI:DAPI:B?
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:TTI:OPSPec:B?

:FETCh:DATA:TELecom:OTN:OTU[1..n]:TTI:OPSPec:B?

Description	This query returns the received message for the instrument.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test > OTN BERT > Results > TTI Traces > OTU > SM TTI Traces > Operator Specific
Syntax	:FETCh:DATA:TELecom:OTN:OTU[1..n]:TTI:OPSPec:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message for OTU.
Example(s)	FETC:DATA:TEL:OTN:OTU1:TTI:OPSP:B?
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:TTI:OPSPec:B?

:FETCh:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:B?

Description	This query returns the received message for the instrument.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test > OTN BERT > Results > TTI Traces > OTU > SM TTI Traces > SAPI
Syntax	:FETCh:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:B?
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the selected message for OTU.
Example(s)	FETC:DATA:TEL:OTN:OTU1:TTI:SAPI:B?
See Also	FETCh:DATA:TELecom:OTN:ODU[1..n]:TTI:OPSPec:B?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:COPY

Description	This command uses the ODU1e/2e/3e1/3e2 TCM DAPI Received Message as the Expected Message.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > DAPI - Copy RX
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:DAPI:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:DAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:COPY

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI: SAPI:COPY

Description	This command uses the ODU1e/2e/3e1/3e2 TCM SAPI Received Message as the Expected Message.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > SAPI - Copy RX
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TCM[1..n]:TTI:SAPI:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TCM1:TTI:SAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:COPY

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:COPY

Description	This command uses the ODU1e/2e/3e1/3e2 PM DAPI Received Message as the Expected Message.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > DAPI - Copy RX
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:DAPI:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TTI:DAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:COPY

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:COPY

Description	This command uses the ODU1e/2e/3e1/3e2 PM SAPI Received Message as the Expected Message.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Traces > OTN > ODUn > ODUn PM TTI Traces > SAPI - Copy RX
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:TTI:SAPI:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:TTI:SAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:COPY

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI: COPY

Description	This command uses the ODU1f/2f TCM DAPI Received Message as the Expected Message.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > DAPI - Copy RX
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:DAPI:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:DAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:COPY

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:COPY

Description	This command uses the ODU1f/2f TCM SAPI Received Message as the Expected Message.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > SAPI - Copy RX
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TCM[1..n]:TTI:SAPI:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TCM1:TTI:SAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:COPY

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:DAPI:COPY

Description	This command uses the ODU1f/2f PM DAPI Received Message as the Expected Message.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > DAPI - Copy RX
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:DAPI:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TTI:DAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:COPY

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:SAPI:COPY

Description	This command uses the ODU1f/2f PM SAPI Received Message as the Expected Message.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Traces > OTN > ODUn > ODUn PM TTI Traces > SAPI - Copy RX
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:TTI:SAPI:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:TTI:SAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:COPY

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:COPYrx

Description	This command uses the ODUn TCM DAPI Received Message as the Expected Message.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > DAPI - Copy RX
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:COPYrx
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU1:TCM1:TTI:DAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:COPY

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:COPYrx

Description	This command uses the ODUn TCM SAPI Received Message as the Expected Message.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Traces > OTN > ODUn > ODUn TCM TTI Traces > TCMn > SAPI - Copy RX
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:COPYrx
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU1:TCM1:TTI:SAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:DAPI:COPY

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:COPYrx

Description	This command uses the ODUn PM DAPI Received Message as the Expected Message.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > DAPI - Copy RX
	In Multi-Channel OTN, when copying an ODU LO DAPI Trace, the channel must be set using SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel. The DAPI Trace can also be copied on all channels by using SENS:DATA:TEL:OTN:ODU[1..n]:TTI:ACHAnnel.
	In FlexO BERT, when copying an ODU LO DAPI Trace, the client ID must be set using SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLIent. The DAPI Trace can also be copied on all clients by using SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACLient
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:COPYrx
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU1:TTI:DAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:COPY
	For Multi-Channel OTN
	SENSe:DATA:TELecom:OTN:ODU[1..n]:CHANnel
	SENSe:DATA:TELecom:OTN:ODU[1..n]:CHANnel?
	SENSe:DATA:TELecom:OTN:ODU[1..n]:ACHAnnel
	SENSe:DATA:TELecom:OTN:ODU[1..n]:ACHAnnel?
	For FlexO BERT:
	SENSe:DATA:TELecom:OTN:ODU[1..n]:CLIent
	SENSe:DATA:TELecom:OTN:ODU[1..n]:CLIent?
	SENSe:DATA:TELecom:OTN:ODU[1..n]:ACLient
	SENSe:DATA:TELecom:OTN:ODU[1..n]:ACLient?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:COPYrx

Description	This command uses the ODUn PM SAPI Received Message as the Expected Message.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Traces > OTN > ODUn > ODUn PM TTI Traces > SAPI - Copy RX
	In Multi-Channel OTN, when copying an ODU LO SAPI Trace, the channel must be set using SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CHANnel. The SAPI Trace can also be copied on all channels by using SENS:DATA:TEL:OTN:ODU[1..n]:TTI:ACHAnnel.
	In FlexO BERT, when copying an ODU LO SAPI Trace, the client ID must be set using SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLIent. The SAPI Trace can also be copied on all clients by using SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACLient
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:SAPI:COPYrx
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU1:TTI:SAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:DAPI:COPY
	For Multi-Channel OTN
	SENSe:DATA:TELecom:OTN:ODU[1..n]:CHANnel
	SENSe:DATA:TELecom:OTN:ODU[1..n]:CHANnel?
	SENSe:DATA:TELecom:OTN:ODU[1..n]:ACHAnnel
	SENSe:DATA:TELecom:OTN:ODU[1..n]:ACHAnnel?
	For FlexO BERT:
	SENSe:DATA:TELecom:OTN:ODU[1..n]:CLIent
	SENSe:DATA:TELecom:OTN:ODU[1..n]:CLIent?
	SENSe:DATA:TELecom:OTN:ODU[1..n]:ACLient
	SENSe:DATA:TELecom:OTN:ODU[1..n]:ACLient?

:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:COPY

Description	This command sets the copy Rx to instrument for overclocked rates OTU3e1/2.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Test > OTN BERT > Results > TTI Traces > OTU > SM TTI Traces > DAPI
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:DAPI:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:OTU3:E1:TTI:DAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:COPY

:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:COPY

Description	This command uses the OTU1e/2e/3e1/3e2 PM SAPI Received Message as the Expected Message.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Traces > OTN > OTUn > PM TTI Traces > SAPI - Copy RX
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:E[1..n]:TTI:SAPI:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:OTU3:E1:TTI:SAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:COPY

:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:DAPI:COPY

Description	This command sets the copy Rx to instrument for over clocked rates [example OTU(1/2)f]. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Test > OTN BERT > Results > TTI Traces > OTU > SM TTI Traces > DAPI
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:DAPI:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:OTU1:F:TTI:DAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:COPY

:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:SAPI:COPY

Description	This command uses the ODU1f/2f PM SAPI Received Message as the Expected Message. This command is an event and is not associated with an *RST condition or a query form. Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > SAPI - Copy RX NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:F:TTI:SAPI:COPY
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:OTU1:F:TTI:SAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:COPY

:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:COPYrx

Description	This command sets the copy Rx to instrument.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Test > OTN BERT > Results > TTI Traces > OTU > SM TTI Traces > DAPI
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:COPYrx
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:OTU3:TTI:DAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:COPY

:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:COPYrx

Description	This command uses the ODUn PM SAPI Received Message as the Expected Message.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > Traces > OTN > ODUn > PM TTI Traces > SAPI - Copy RX
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:SAPI:COPYrx
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:OTU3:TTI:SAPI:COPY
See Also	SENSe:DATA:TELecom:OTN:OTU[1..n]:TTI:DAPI:COPY

Traces/PT (FlexO)

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACLient

Description	This command forces the ODU TTI Traces commands/queries to be applied on all clients (ON) or a single client (OFF) for FlexOTN test.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > ODUk > Traces > PM TTI Traces
	Navigation Path: Results > Traces > OTN > ODUk > PM TTI Traces
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACLient <wsp><AllClient>
Parameter(s)	**AllClient**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Selects if the ODU TTI Traces commands/queries are applied on all clients (ON) or a single client (OFF).
Response Syntax	<Message>
Example(s)	SENS:DATA:TEL:OTN:ODU101:TTI:ACLI ON
	SENS:DATA:TEL:OTN:ODU101:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU101:TTI:SAPI:EXP XFO ODU SAPI
	SENS:DATA:TEL:OTN:ODU101:TTI:SAPI:EXP?
	Returns: XFO ODU SAPI
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLient
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACLient?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACLient?

Description	This query returns if the ODU TTI Traces commands/queries are applied on all clients (ON) or a single client (OFF) for FlexOTN test.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > Test Configurator > ODUk > Traces > PM TTI Traces
	Navigation Path: Results > Traces > OTN > ODUk > PM TTI Traces
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACLient?
Response Syntax	<AllClient>
Response(s)	**AllClient**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns an indication that the ODU TTI Traces commands/queries are to be applied on all FlexO clients
	1, ODU TTI Trace commands/queries are applied on all channels.
	0, ODU TTI Trace commands/queries are applied on a specific channels determined by SENS:DATA:TEL:OTN:ODU[1..n]:TTI:CLI.
Example(s)	SENS:DATA:TEL:OTN:ODU101:TTI:ACLI ON
	SENS:DATA:TEL:OTN:ODU101:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU101:TTI:SAPI:EXP XFO ODU SAPI
	SENS:DATA:TEL:OTN:ODU101:TTI:SAPI:EXP?
	Returns: XFO ODU SAPI
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLIent
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACLIent

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLIent

Description	This command sets the value of the client used by the ODU TTI Traces for FlexOTN test.
	At *RST condition, this value is set to 1.
	When setting a client value, the following command is set to OFF: SENSe[1..n]:DATA:TELecom:OTN:ODU[1..n]:TTI:ACLIent
	Navigation Path: Setup > Test Configurator > ODUk > Traces > PM TTI Traces
	Navigation Path: Results > Traces > OTN > ODUk > PM TTI Traces
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLIent <wsp><ClientId>
Parameter(s)	**ClientId**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the client used for ODU TTI Traces, when AllCLIent is not selected, in the FlexOTN test application.
Response Syntax	<AllClient>
Example(s)	SENS:DATA:TEL:OTN:ODU100:TTI:CLI 3
	SENS:DATA:TEL:OTN:ODU100:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP XFO ODU SAPI3
	SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP?
	Returns: XFO ODU SAPI3
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLIent?
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACLIent

:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLIent?

Description	This query returns the value of the client used by the ODU TTI Traces for FlexOTN test.
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > Test Configurator > ODUk > Traces > PM TTI Traces
	Navigation Path: Results > Traces > OTN > ODUk > PM TTI Traces
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLIent?
Response Syntax	<ClientId>
Response(s)	**ClientId**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the client used for the ODU TTI Trace, when AllCLIent is 'OFF', in the FlexOTN test application.
Example(s)	SENS:DATA:TEL:OTN:ODU100:TTI:CLI 3
	SENS:DATA:TEL:OTN:ODU100:TTI:TIM SAPI,ON
	SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP XFO ODU SAPI3
	SENS:DATA:TEL:OTN:ODU100:TTI:SAPI:EXP?
	Returns: XFO ODU SAPI3
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:CLIent
	SENSe:DATA:TELecom:OTN:ODU[1..n]:TTI:ACLIent

:SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLient

Description	This command forces the Payload Type commands/queries to be applied on all clients (ON) or a single client (OFF) for FlexO BERT test. At *RST condition, this value is set to OFF. Navigation Path: Results > PT > ODUk > Client ID
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLient <wsp><Client ID>
Parameter(s)	**Client ID**: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Selects if the Payload Type commands/queries are applied on all clients (ON) or a single client (OFF).
Response Syntax	<ClientId>
Example(s)	SENS:DATA:TEL:OTN:OPU101:ACL ON SENS:DATA:TEL:OTN:OPU101:ACL OFF
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:CLIent? SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLient?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLient?

Description	This query returns if the Payload Type commands/queries are applied on all client IDs (ON) or a single client ID (OFF) for FlexO BERT test.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > ODU Channels > PT >Global PT
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLient?
Response Syntax	<AllClientIds>
Response(s)	**AllClientIds**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns an indication that the Payload Type commands/queries are to be applied on all client IDs.
	1, OPU Payload Type commands/queries are applied on all client IDs.
	0, OPU Payload Type commands/queries are applied on a specific client ID determined by SENSe:DATA:TELecom:OTN:OPU[1..n]:CLient
Example(s)	SENS:DATA:TEL:OTN:OPU101:ACL?
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLient
	SENSe:DATA:TELecom:OTN:OPU[1..n]:CLIent

:SENSe:DATA:TELecom:OTN:OPU[1..n]:CLIent

Description	This command sets the value of the client ID used by the Payload Type for FlexO BERT test.
	When setting a client ID value, the following command is set to OFF: SENSe[1..n]:DATA:TELecom:OTN:OPU[1..n]:ACLient
	At *RST condition, this value is set to 1.
	Navigation Path: Results > PT > ODUk > Client ID
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:CLIent <wsp><Client ID>
Parameter(s)	**Client ID**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Global parameter, applicable to FlexO BERT test application
	Selects the client ID.
Response Syntax	<AllClientIds>
Example(s)	SENS:DATA:TEL:OTN:OPU100:ACL?
	Returns: 1
	SENS:DATA:TEL:OTN:OPU101:CLI 2
	SENS:DATA:TEL:OTN:OPU101:ACL?
	Returns: 0
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:CLIent?
	SENSe:DATA:TELecom:OTN:OPU[1..n]::ACLient

:SENSe:DATA:TELecom:OTN:OPU[1..n]:CLIent?

Description	This query returns the value of the client ID used by the Payload Type, when command AllCHAnnel is 'OFF', for FlexO BERT test.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > PT > ODUk > Client ID
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:CLIent?
Response Syntax	<Client ID>
Response(s)	**Client ID**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the client ID used for the Payload Type, when command AllCHAnnel is 'OFF', for FlexO BERT test application.
Example(s)	SENS:DATA:TEL:OTN:OPU101:CLI?
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:CLIent
	SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLient

Logger and Alarms/Errors Logger

:FETCh:DATA:TELecom:LOGGer:EVENts?

Description	This query returns the total number of test events recorded.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Logger
Syntax	:FETCh:DATA:TELecom:LOGGer:EVENts?
Response Syntax	<Event>
Response(s)	**Event**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the total number of test events recorded.
Example(s)	FETC:DATA:TEL:LOGG:EVEN?
See Also	FETCh:DATA:TELecom:LOGGer:LIST?

:FETCh:DATA:TELecom:LOGGer:LIST?

Description	This query returns the list of test events.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Logger
Syntax	:FETCh:DATA:TELecom:LOGGer:LIST?[<wsp><Eventno>]
Parameter(s)	**Eventno**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	If event number is not provided, then the entire event list is returned and if it is provided the event of that particular number from the list Is returned.
Response Syntax	<List>
Response(s)	**List**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the list of test events.
Example(s)	FETC:DATA:TEL:LOGG:LIST?
See Also	FETCh:DATA:TELecom:LOGGer:EVENts?

Performance Monitoring

:FETCh:DATA:TELecom:DSN:DS[1..n]:PM:STATistics?

Description	This query returns the performance monitoring statistics for DS1/DS3 level.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > Results > Performance Monitoring > DS1/DS3
Syntax	:FETCh:DATA:TELecom:DSN:DS[1..n]:PM:STATistics? <wsp><Standard>, <Type>, <End>
Parameter(s)	**Standard**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the performance monitoring standard number.
	G826ISM: G.826 ISM
	M2100ISM: M.2100 ISM
	Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the performance monitoring statistics.
	BBE: Background Block Error (SES).
	BBER: Background Block Error Ratio (BBER).
	EB: Errored Block (EB).
	EFS: Error Free Seconds (EFS).
	ES: Errored Seconds (ES).
	ESR: Errored Second Ratio (ESR).
	SES: Severely Errored Seconds (SES).
	SESR: Severely Errored Second Ratio (SESR).
	UAS: Unavailable Second (UAS).
	End:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Near-End or Far-End.
	NEND: the standard for Near-End.
	FEND: the standard for Far-End.
Response Syntax	<Statistics>

:FETCh:DATA:TELecom:DSN:DS[1..n]:PM:STATistics?

Response(s)	**Statistics**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the performance monitoring statistics of Digital Signal (DS).
Example(s)	FETC:DATA:TEL:DSN:DS1:PM:STAT? G826ISM,EFS,NEND
See Also	FETCh:DATA:TELecom:SONet:SECTion:PM:STATistics?

:FETCh:DATA:TELecom:PATTern:PM:STATistics?

Description	This query returns the performance monitoring statistics for BERT level.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > Results > Performance Monitoring > BERT
Syntax	:FETCh:DATA:TELecom:PATTern:PM:STATistics? <wsp><Standard>, <Type>
Parameter(s)	**Standard**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the performance monitoring standard number.
	G821: G.821
	M2100OOSM: M.2100 OOSM
	Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the performance monitoring statistics.
	DM: Degraded Minutes (DM).
	EC: Error Count (EC).
	EFS: Error Free Seconds (EFS).
	ES: Errored Seconds (ES).
	ESR: Errored Second Ratio (ESR).
	SES: Severely Errored Seconds (SES).
	SESR: Severely Errored Second Ratio (SESR).
	UAS: Unavailable Second (UAS).
Response Syntax	<Statistics>
Response(s)	**Statistics**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns performance monitoring statistics of Pattern.
Example(s)	FETC:DATA:TEL:PATT:PM:STAT? G821, EFS
See Also	FETCh:DATA:TELecom:SONet:SECTion:PM:STATistics?

:FETCh:DATA:TELecom:PDH:E[1..n]:PM:STATistics?

Description	This query returns the performance monitoring statistics for E1/E2/E3/E4 level.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > Results > Performance Monitoring > E1/E2/E3/E4
Syntax	:FETCh:DATA:TELecom:PDH:E[1..n]:PM:STATistics? <wsp><Standard>, <Type>, <End>
Parameter(s)	**Standard**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the performance monitoring standard number.
	G826ISM: G.826 ISM
	M2100ISM: M.2100 ISM
	Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the performance monitoring statistics.
	EFS: Error Free Seconds (EFS).
	EB: Errored Block (EB).
	ES: Errored Seconds (ES).
	SES: Severely Errored Seconds (SES).
	BBE: Background Block Error (SES).
	UAS: Unavailable Second (UAS).
	ESR: Errored Second Ratio (ESR).
	SESR: Severely Errored Second Ratio (SESR).
	BBER: Background Block Error Ratio (BBER).
	End:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Near-End or Far-End.
	NEND: the standard for Near-End.
	FEND: the standard for Far-End.
Response Syntax	<Statistics>

:FETCh:DATA:TELecom:PDH:E[1..n]:PM:STATistics?

Response(s)	**Statistics**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the performance monitoring statistics of European standard for digital transmission levels.
Example(s)	FETC:DATA:TEL:PDH:E1:PM:STAT? G826ISM,EFS,NEND
See Also	FETCh:DATA:TELecom:SONet:SECTion:PM:STATistics?

:FETCh:DATA:TELecom:SDHSonet:HOP:PM:STATistics?

Description	This query returns the performance monitoring statistics for STS-n/AU-n HOP level.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > Results > Performance Monitoring > STS-n/AU-n
Syntax	:FETCh:DATA:TELecom:SDHSonet:HOP:PM:STATistics? <wsp><Standard>, <Type>, <End>
Parameter(s)	**Standard**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the performance monitoring standard number.
	G828ISM: G.828 ISM
	M2101ISM: M.2101 ISM
	Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the performance monitoring statistics.
	EFS: Error Free Seconds (EFS).
	EB: Errored Block (EB).
	ES: Errored Seconds (ES).
	SES: Severely Errored Seconds (SES).
	BBE: Background Block Error (SES).
	UAS: Unavailable Second (UAS).
	ESR: Errored Second Ratio (ESR).
	SESR: Severely Errored Second Ratio (SESR).
	BBER: Background Block Error Ratio (BBER).
	SEP: Severely Errored Period (SEP).
	SEPI: Severely Errored Period Intensity (SEPI).
	End:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Near-End or Far-End.
	NEND: the standard for Near-End.
	FEND: the standard for Far-End.
Response Syntax	<Statistics>

:FETCh:DATA:TELecom:SDHSonet:HOP:PM:STATistics?

Response(s)	**Statistics**: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the performance monitoring statistics of HOP.
Example(s)	FETC:DATA:TEL:SDHS:HOP:PM:STAT? G828ISM,EFS,NEND
See Also	FETCh:DATA:TEL:SONet:LINE:PM:STATistics?

:FETCh:DATA:TELecom:SDHSonet:LOP:PM:STATistics?

Description	This query returns the performance monitoring statistics for VTn/TU-n LOP level.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > Results > Performance Monitoring > VTn/TU-n
Syntax	:FETCh:DATA:TELecom:SDHSonet:LOP:PM:STATistics? <wsp><Standard>, <Type>, <End>
Parameter(s)	**Standard**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the performance monitoring standard number.
	G828ISM: G.828 ISM
	M2101ISM: M.2101 ISM
	Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the performance monitoring statistics.
	EFS: Error Free Seconds (EFS).
	EB: Errored Block (EB).
	ES: Errored Seconds (ES).
	SES: Severely Errored Seconds (SES).
	BBE: Background Block Error (SES).
	UAS: Unavailable Second (UAS).
	ESR: Errored Second Ratio (ESR).
	SESR: Severely Errored Second Ratio (SESR).
	BBER: Background Block Error Ratio (BBER).
	SEP: Severely Errored Period (SEP).
	SEPI: Severely Errored Period Intensity (SEPI).
	End:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Near-End or Far-End.
	NEND: the standard for Near-End.
	FEND: the standard for Far-End.
Response Syntax	<Statistics>

:FETCh:DATA:TELecom:SDHSonet:LOP:PM:STATistics?

Response(s)	**Statistics**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the performance monitoring statistics of Low Order Path (LOP).
Example(s)	FETC:DATA:TEL:SDHS:LOP:PM:STAT? G828ISM,EFS,NEND
See Also	FETCh:DATA:TEL:SON:LINE:PM:STAT?

:FETCh:DATA:TELecom:SDHSonet:LOPTu:PM:STATistics?

Description

This query returns the performance monitoring statistics for TU-3 LOP level.

At *RST condition, this value is device dependent.

Navigation Path: Test > Results > Performance Monitoring > TU-3

Syntax

:FETCh:DATA:TELecom:SDHSonet:LOPTu:PM:STATistics? <wsp><Standard>, <Type>, <End>

Parameter(s)

Standard:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the performance monitoring standard number.

G828ISM: G.828 ISM

M2101ISM: M.2101 ISM

Type:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the performance monitoring statistics.

EFS: Error Free Seconds (EFS).

EB: Errored Block (EB).

ES: Errored Seconds (ES).

SES: Severely Errored Seconds (SES).

BBE: Background Block Error (SES).

UAS: Unavailable Second (UAS).

ESR: Errored Second Ratio (ESR).

SESR: Severely Errored Second Ratio (SESR).

BBER: Background Block Error Ratio (BBER).

SEP: Severely Errored Period (SEP).

SEPI: Severely Errored Period Intensity (SEPI).

End:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects Near-End or Far-End.

NEND: the standard for Near-End.

FEND: the standard for Far-End.

:FETCh:DATA:TELecom:SDHSonet:LOPTu:PM:STATistics?

Response Syntax	<Statistics>
Response(s)	**Statistics**: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the performance monitoring statistics of Low Order Path (LOPTu).
Example(s)	FETC:DATA:TEL:SDHS:LOPT:PM:STAT? G828ISM,EFS,NEND
See Also	FETCh:DATA:TEL:SON:LINE:PM:STAT?

:FETCh:DATA:TELecom:SONet:LINE:PM:STATistics?

Description	This query returns the performance monitoring statistics for Line/MS level.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > Results > Performance Monitoring > Line/MS
Syntax	:FETCh:DATA:TELecom:SONet:LINE:PM:STATistics? <wsp><Standard>, <Type>, <End>
Parameter(s)	**Standard**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the performance monitoring standard number.
	G829ISM: G.829 ISM
	M2101ISM: M.2101 ISM
	Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the performance monitoring statistics.
	EFS: Error Free Seconds (EFS).
	EB: Errored Block (EB).
	ES: Errored Seconds (ES).
	SES: Severely Errored Seconds (SES).
	BBE: Background Block Error (SES).
	UAS: Unavailable Second (UAS).
	ESR: Errored Second Ratio (ESR).
	SESR: Severely Errored Second Ratio (SESR).
	BBER: Background Block Error Ratio (BBER).
	End:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Near-End or Far-End.
	NEND: the standard for Near-End.
	FEND: the standard for Far-End.
Response Syntax	<Statistics>

:FETCh:DATA:TELecom:SONet:LINE:PM:STATistics?

Response(s)	**Statistics**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the performance monitoring statistics of Line.
Example(s)	FETC:DATA:TEL:SON:LINE:PM:STAT? M2101ISM,ES,NEND
See Also	FETCh:DATA:TELecom:PATTern:PM:STATistics?

:FETCh:DATA:TELecom:SONet:SECTion:PM:STATistics?

Description	This query returns the performance monitoring statistics for Section/RS level.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > Results > Performance Monitoring > Section/RS
Syntax	:FETCh:DATA:TELecom:SONet:SECTion:PM:STATistics? <wsp><Standard>, <Type>, <End>
Parameter(s)	**Standard**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the performance monitoring standard number.
	G829ISM: G.829 ISM
	Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the performance monitoring statistics.
	EFS: Error Free Seconds (EFS).
	EB: Errored Block (EB).
	ES: Errored Seconds (ES).
	SES: Severely Errored Seconds (SES).
	BBE: Background Block Error (SES).
	UAS: Unavailable Second (UAS).
	ESR: Errored Second Ratio (ESR).
	SESR: Severely Errored Second Ratio (SESR).
	BBER: Background Block Error Ratio (BBER).
	End:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Near-End.
	NEND: the standard for Near-End.
Response Syntax	<Statistics>

:FETCh:DATA:TELecom:SONet:SECTion:PM:STATistics?

Response(s)	**Statistics**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the performance monitoring statistics of Section.
Example(s)	FETC:DATA:TEL:SON:SECT:PM:STAT? G829ISM,EFS,NEND
See Also	FETCh:DATA:TELecom:SDHSonet:HOP:PM:STATistics?

Traffic - Ethernet

:SENSe:DATA:TELecom:ETHernet:FRAMe:COUNt:RX?

Description	This query returns the number of received frames.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Traffic > Ethernet > RX Count
	Navigation Path: Results > Summary > Traffic > RX Count
Syntax	:SENSe:DATA:TELecom:ETHernet:FRAMe:COUNt:RX? <wsp><Ftype>
Parameter(s)	**Ftype**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the frame type
	MULTicast: Multicast
	BROadcast: Broadcast
	UNIcast: Unicast
	NUNicast: Non-Unicast
	FTOTal: Total
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the number of received frames.
	MULTicast: the frame type as Multicast.
	BROadcast: the frame type as Broadcast.
	UNIcast: the frame type as Unicast.
	NUNicast: the frame type as Non-Unicast.
	FTOtal: the frame type as Total.
Example(s)	SENS:DATA:TEL:ETH:FRAM:COUN:RX? MULT
See Also	SENSe:DATA:TELecom:ETHernet:PACKet:FRAMe:COUNt?

:SENSe:DATA:TELecom:ETHernet:FSIZe:COUNt?

Description	This query returns the total number of all valid and invalid frames received.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Traffic > Ethernet > Frame Size > RX Count
Syntax	:SENSe:DATA:TELecom:ETHernet:FSIZe:COUNt? <wsp><Ftype>
Parameter(s)	**Ftype**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the frame size.
	FLESS64: frame size less than 64.
	F64: frame size equal to 64.
	F65to127: frame size between 65 to 127.
	F128to255: frame size between 128 to 255.
	F256to511: frame size between 256 to 511.
	F512to1023: frame size between 512 to 1023.
	F1024to1518: frame size between 1024 to 1518.
	FMORE1518: frame size more than 1518.
	FSTotal: total frame size.
Response Syntax	<Count>

:SENSe:DATA:TELecom:ETHernet:FSIZe:COUNt?

Response(s)	Count:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the total number of all valid and invalid frames received.
	FLESS64: frame size less than 64.
	F64: frame size equal to 64.
	F65TO127: frame size between 65 to 127.
	F128TO255: frame size between 128 to 255.
	F256TO511: frame size between 256 to 511.
	F512TO1023: frame size between 512 to 1023.
	F1024TO1518: frame size between 1024 to 1518.
	FMORE1518: frame size more than 1519.
	FSTotal: total frame size.
Example(s)	SENS:DATA:TEL:ETH:FSIZ:COUN? F64
See Also	SENSe:DATA:TELecom:ETHernet:PACKet:FRAMe:COUNt?

:SENSe:DATA:TELecom:ETHernet:FSIZe:PERCentage?

Description	This query returns the percentage of each frames received.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Traffic > Ethernet > Frame Size > %
Syntax	:SENSe:DATA:TELecom:ETHernet:FSIZe:PERCentage? <wsp><Ftype>
Parameter(s)	**Ftype**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the frame size.
	FLESS64: frame size less than 64.
	F64: frame size equal to 64.
	F65to127: frame size between 65 to 127.
	F128to255: frame size between 128 to 255.
	F256to511: frame size between 256 to 511.
	F512to1023: frame size between 512 to 1023.
	F1024to1518: frame size between 1024 to 1518.
	FMORE1518: frame size more than 1518.
Response Syntax	<Percent>
Response(s)	**Percent**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the percentage of each frame received.
Example(s)	SENS:DATA:TEL:ETH:FSIZ:PERC? F64
See Also	SENSe:DATA:TELecom:ETHernet:FSIZe:COUNt?

:SENSe:DATA:TELecom:ETHernet:PACKet:BANDwidth?

Description	This query returns the Bandwidth for TX/RX.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Traffic > Ethernet
Syntax	:SENSe:DATA:TELecom:ETHernet:PACKet:BANDwidth? <wsp><FTYP>
Parameter(s)	**FTYP**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the transmitting/receiving bandwidth.
	RX: sets the total of all receiving bandwidth.
	TX: sets the total of all transmitting bandwidth.
Response Syntax	<Bandwidth>
Response(s)	**Bandwidth**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the transmitting/receiving frame bandwidth.
	RX: returns the total of all receiving frame bandwidth.
	TX: returns the total of all transmitting frame bandwidth.
Example(s)	SENS:DATA:TEL:ETH:PACK:BAND? RX
See Also	SENSe:DATA:TELecom:ETHernet:PACKet:LINE:UTILization?

:SENSe:DATA:TELecom:ETHernet:PACKet:FRAMe:COUNt?

Description	This query returns the Frame count for TX/RX.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > Traffic
Syntax	:SENSe:DATA:TELecom:ETHernet:PACKet:FRAMe:COUNt? <wsp><FTYP>
Parameter(s)	FTYP:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the number of frames transmitted.
	RX: Gives the total of all received valid and invalid frames.
	TX: Gives the total of all transmitted frames.
Response Syntax	<Count>
Response(s)	Count:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the number of transmitted or received frames.
	RXCount: Gives the total of all received valid and invalid frames.
	TXCount: Gives the total of all transmitted frames.
Example(s)	SENS:DATA:TEL:ETH:PACK:FRAM:COUN? TX
See Also	SENSe:DATA:TELecom:ETHernet:FSIZe:COUNt?

:SENSe:DATA:TELecom:ETHernet:PACKet:FRAMe:RATE?

Description	This query returns the Frame Rate for TX/RX.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Summary > Traffic
	Navigation Path: Results > Traffic > Ethernet
Syntax	:SENSe:DATA:TELecom:ETHernet:PACKet:FRAMe:RATE? <wsp><FTYP>
Parameter(s)	**FTYP**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the transmitted/received number of frames.
	RX: sets the total of all received frames.
	TX: sets the total of all transmitted frames.
Response Syntax	<Frame Rate>
Response(s)	**Frame Rate**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the transmitting/receiving line utilization.
	RX: returns the total of all receiving line utilization.
	TX: returns the total of all transmitting line utilization.
Example(s)	SENS:DATA:TEL:ETH:PACK:FRAM:RATE? RX
See Also	SENSe:DATA:TELecom:ETHernet:PACKet:BANDwidth?

:SENSe:DATA:TELecom:ETHernet:PACKet:LINE:UTILization?

Description	This query returns the transmitting/receiving line rate utilization.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Traffic > Ethernet
Syntax	:SENSe:DATA:TELecom:ETHernet:PACKet:LINE:UTILization? <wsp><Direction>
Parameter(s)	**Direction**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the transmitting/receiving line utilization.
	RX: sets the total of all receiving line utilization.
	TX: sets the total of all transmitting line utilization.
Response Syntax	<Utilization>
Response(s)	**Utilization**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the transmitting/receiving line utilization.
	RX: returns the total of all receiving line utilization.
	TX: returns the total of all transmitting line utilization.
Example(s)	SENS:DATA:TEL:ETH:PACK:LINE:UTIL? RX
See Also	SENSe:DATA:TELecom:ETHernet:PACKet:FRAMe:COUNt?

:SOURce:DATA:TELecom:ETHernet:FRAMe:COUNt:TX?

Description	This query returns the number of transmitted frames.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Traffic > Ethernet > TX Count
	Navigation Path: Results > Summary > Traffic > TX Count
Syntax	:SOURce:DATA:TELecom:ETHernet:FRAMe:COUNt:TX? <wsp><Ftype>
Parameter(s)	**Ftype**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the frame type.
	MULTicast: Multicast
	BROadcast: Broadcast
	UNIcast: Unicast
	NUNicast: Non-Unicast
	FTOTal: Total
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the number of transmitted frames.
	MULTicast: Multicast as the frame type.
	BROadcast: Broadcast as the frame type.
	UNIcast: Unicast as the frame type.
	NUNicast: Non-Unicast as the frame type.
	FTOtal: Total as the frame type.
Example(s)	SOUR:DATA:TEL:ETH:FRAM:COUN:TX? MULT
See Also	SOURce:DATA:TELecom:ETHernet:FRAMe:COUNt:RX?

Traffic - Flow Control

:FETCh:DATA:TELecom:ETHernet:PACKet:PAUSe:TIME:RX?

Description	This query returns the total number of packet pause time received from the link partner.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Traffic > Flow Control
Syntax	:FETCh:DATA:TELecom:ETHernet:PACKet:PAUSe:TIME:RX? <wsp><FTYP>
Parameter(s)	**FTYP**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Returns the pause time.
	TOTALPAUSE: returns the Total pause time.
	LASTPAUSE: sets the Last pause time.
	MINPAUSE: sets the Minimum pause time.
	MAXPAUSE: sets the Maximum pause time.
Response Syntax	<Time>
Response(s)	**Time**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the total number of pause time received.
Example(s)	FETC:DATA:TEL:ETH:PACK:PAUS:TIME:RX? TOTALPAUSE
See Also	SOURce:DATA:TELecom:ETHernet:FRAMe:COUNt:TX?

:FETCh:DATA:TELecom:ETHernet:PAUSe:FRAMes:ABORt?

Description	This query returns the number of received pause frames with a Quanta equal to zero; cancelling the pause frames.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Traffic > Flow Control
Syntax	:FETCh:DATA:TELecom:ETHernet:PAUSe:FRAMes:ABORt?
Response Syntax	<Abort>
Response(s)	**Abort**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the number of received pause frames.
Example(s)	FETC:DATA:TEL:ETH:PAUS:FRAM:ABOR?
See Also	FETCh:DATA:TELecom:ETHernet:PAUSe:FRAMes?

:FETCh:DATA:TELecom:ETHernet:PAUSe:FRAMes:RX?

Description	This query reports total number of pause frames.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Traffic > Flow Control
Syntax	:FETCh:DATA:TELecom:ETHernet:PAUSe:FRAMes:RX?
Response Syntax	<FrameRx>
Response(s)	**FrameRx**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the number of received flow control frames.
Example(s)	FETC:DATA:TEL:ETH:PAUS:FRAM:RX?
See Also	FETCh:DATA:TELecom:ETHernet:PAUSe:FRAMes?

:FETCh:DATA:TELecom:ETHernet:PAUSe:FRAMes:TX?

Description	This query reports total number of pause frames.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Traffic > Flow Control
Syntax	:FETCh:DATA:TELecom:ETHernet:PAUSe:FRAMes:TX?
Response Syntax	<FrameRx>
Response(s)	**FrameRx**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Pause Time
Example(s)	FETC:DATA:TEL:ETH:PAUS:FRAM:TX?
See Also	FETCh:DATA:TELecom:ETHernet:PAUSe:FRAMes?

:FETCh:DATA:TELecom:ETHernet:PAUSe:FRAMes?

Description	This query returns the number of pause frames.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Traffic > Flow Control
Syntax	:FETCh:DATA:TELecom:ETHernet:PAUSe:FRAMes?
Response Syntax	<Frames>
Response(s)	**Frames**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Reports the number of pause frames.
Example(s)	FETC:DATA:TEL:ETH:PAUS:FRAM?
See Also	FETCh:DATA:TELecom:ETHernet:PAUSe:FRAMes:ABORt?

:SOURce:DATA:TELecom:ETHernet:PACKet:PAUSe:INJect

Description	This command injects pause time to the link partner.
	This command is an event and is not associated with any *RST condition or a query form.
	Navigation Path: Results > Traffic > Flow Control
Syntax	:SOURce:DATA:TELecom:ETHernet:PACKet:PAUSe:INJect
Response Syntax	<Frames>
Example(s)	SOUR:DATA:TEL:ETH:PACK:PAUS:INJ
See Also	SOURce:DATA:TELecom:ETHernet:ERRor:MAC:INJect

:SOURce:DATA:TELecom:ETHernet:PACKet:PAUSe:TIME

Description	This command sets the total number of packet pause time for the link partner.
	At *RST condition, this value is set to 100 Quanta.
	Navigation Path: Results > Traffic > Flow Control
Syntax	:SOURce:DATA:TELecom:ETHernet:PACKet:PAUSe:TIME <wsp><Pause Time>
Parameter(s)	**Pause Time**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Pause packet time.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Frames>
Example(s)	SOUR:DATA:TEL:ETH:PACK:PAUS:TIME 50
See Also	SOURce:DATA:TELecom:ETHernet:FRAMe:COUNt:TX?

:SOURce:DATA:TELecom:ETHernet:PACKet:PAUSe:TIME?

Description	This query returns the total number of packet pause time received from the link partner.
	At *RST condition, this value is set to 100 Quanta.
	Navigation Path: Results > Traffic > Flow Control
Syntax	:SOURce:DATA:TELecom:ETHernet:PACKet:PAUSe:TIME?[<wsp><Pause Time>]
Parameter(s)	**Pause Time**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Pause packet time.
	This parameter is optional. If no token is specified, the current Packet Pause Time is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Time>
Response(s)	**Time**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the total number of pause time received.
Example(s)	SOUR:DATA:TEL:ETH:PACK:PAUS:TIME 50
	SOUR:DATA:TEL:ETH:PACK:PAUS:TIME?
	Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:FRAMe:COUNt:TX?

:SOURce:DATA:TELecom:ETHernet:PINJection:MAC:DESTination:ADDRess

Description	This command sets the destination MAC address.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Traffic > Flow Control > Pause Injection > Destination Mac Address
Syntax	:SOURce:DATA:TELecom:ETHernet:PINJection:MAC:DESTination:ADDRess <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Sets the destination MAC address.
Response Syntax	<Time>
Example(s)	SOUR:DATA:TEL:ETH:PINJ:MAC:DEST:ADDR 11:11:11:11:11:11
	SOUR:DATA:TEL:ETH:PINJ:MAC:DEST:ADDR?
	Returns: 11:11:11:11:11:11
See Also	SOURce:DATA:TELecom:ETHernet:PINJection:MAC:DESTination:ADDRess:ENABle

:SOURce:DATA:TELecom:ETHernet:PINJection:MAC:DESTinat ion:ADDRess:ENABle

Description	This command enables the MAC destination address field.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Traffic > Flow Control > Pause Injection > Destination Mac Address (checkbox)
Syntax	:SOURce:DATA:TELecom:ETHernet:PINJection:MAC:DESTination:ADDRess:ENABle \<wsp>\<Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a \<BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	\<Time>
Example(s)	SOUR:DATA:TEL:ETH:PINJ:MAC:DEST:ADDR:ENAB ON
	SOUR:DATA:TEL:ETH:PINJ:MAC:DEST:ADDR:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:PINJection:MAC:DESTination:ADDRess

:SOURce:DATA:TELecom:ETHernet:PINJection:MAC:DESTination:ADDRess:ENABle?

Description	This query returns the MAC destination address field.
	At *RST condition, this value is set to OFF.
	Navigation Path: Results > Traffic > Pause Injection > Destination Mac Address (checkbox)
Syntax	:SOURce:DATA:TELecom:ETHernet:PINJection:MAC:DESTination:ADDRess:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:ETH:PINJ:MAC:DEST:ADDR:ENAB ON
	SOUR:DATA:TEL:ETH:PINJ:MAC:DEST:ADDR:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:PINJection:MAC:DESTination:ADDRess?

:SOURce:DATA:TELecom:ETHernet:PINJection:MAC:DESTination:ADDRess?

Description	This query returns the destination MAC address.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Traffic > Flow Control > Pause Injection > Destination Mac Address
Syntax	:SOURce:DATA:TELecom:ETHernet:PINJection:MAC:DESTination:ADDRess?
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Destination MAC address value.
Example(s)	SOUR:DATA:TEL:ETH:PINJ:MAC:DEST:ADDR 11:11:11:11:11:11
	SOUR:DATA:TEL:ETH:PINJ:MAC:DEST:ADDR?
	Returns: 11:11:11:11:11:11
See Also	SOURce:DATA:TELecom:ETHernet:PINJection:MAC:DESTination:ADDRess:ENABle?

Traffic - OAM, S-OAM, and MPLS-TP OAM

:FETCh:DATA:TELecom:SOAM:TRAFfic:RESPonder:RX:COUNt?

Description	This query returns the traffic Responder function counts received frames.
	At *RST condition, this value is device dependent.
	Nevigation Path:Test > Results > Traffic > S-OAM > Responder > Rx Count
Syntax	:FETCh:DATA:TELecom:SOAM:TRAFfic:RESPonder:RX:COUNt? <wsp><Type>
Parameter(s)	**Type:**
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of responder frame type.
	LBM
	LTM
	DMM
	LMM
	SLM
Response Syntax	<Value>
Response(s)	**Value:**
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the responder Rx frame Count.
Example(s)	FETC:DATA:TEL:SOAM:TRAF:RESP:RX:COUNt? LBM
See Also	FETCh:DATA:TELecom:SOAM:LINK:TRACe:RESult:LTR:TIMeout?

:FETCh:DATA:TELecom:SOAM:TRAFfic:RESPonder:RX:TOTal?

Description	This query returns the traffic Responder function Total received frames.
	At *RST condition, this value is device dependent.
	Nevigation Path:Test > Results > Traffic > S-OAM > Responder > Rx Total
Syntax	:FETCh:DATA:TELecom:SOAM:TRAFfic:RESPonder:RX:TOTal?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the responder total received frame Count.
Example(s)	FETC:DATA:TEL:SOAM:TRAF:RESP:RX:TOTal?
See Also	FETCh:DATA:TELecom:SOAM:LINK:TRACe:STATus?

:FETCh:DATA:TELecom:SOAM:TRAFfic:RESPonder:TX:COUNt?

Description	This query returns the traffic Responder counts transmitted frames.
	At *RST condition, this value is device dependent.
	Nevigation Path:Test > Results > Traffic > S-OAM > Responder > Tx Count
Syntax	:FETCh:DATA:TELecom:SOAM:TRAFfic:RESPonder:TX:COUNt? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of responder frame type.
	LBR
	LTR
	DMR
	LMR
	SLR
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the responder Tx frame Count.
Example(s)	FETC:DATA:TEL:SOAM:TRAF:RESP:TX:COUNt? LBR
See Also	FETCh:DATA:TELecom:SOAM:LINK:TRACe:RESult:RX:LTR?

:FETCh:DATA:TELecom:SOAM:TRAFfic:RESPonder:TX:TOTal?

Description	This query returns the traffic Responder function Total transmitted frames.
	At *RST condition, this value is device dependent.
	Nevigation Path:Test > Results > Traffic > S-OAM > Responder > Tx Total
Syntax	:FETCh:DATA:TELecom:SOAM:TRAFfic:RESPonder:TX:TOTal?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the responder total transmitted frame Count.
Example(s)	FETC:DATA:TEL:SOAM:TRAF:RESP:TX:TOTal?
See Also	FETCh:DATA:TELecom:SOAM:LINK:TRACe:RESult:INValid:LTR?

:FETCh:DATA:TELecom:SOAM:TRAFfic:RX:COUNt?

Description	This query returns the traffic monitoring function counts received frames.
	At *RST condition, this value is device dependent.
	Nevigation Path:Test > Results > Traffic > S-OAM > RX Count
Syntax	:FETCh:DATA:TELecom:SOAM:TRAFfic:RX:COUNt? <wsp><type>
Parameter(s)	**type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of frame type.
	AIS
	CCM
	CSF
	DMR
	LBR
	LCK
	LMR
	LTR
	SLR
	TST
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Rx frame Count.
Example(s)	FETC:DATA:TEL:SOAM:TRAF:RX:COUNt? LBR
See Also	FETCh:DATA:TELecom:SOAM:FDELay:MAXimum:DELay:VERD?

:FETCh:DATA:TELecom:SOAM:TRAFfic:RX:TOTal?

Description	This query returns the traffic monitoring function Total received frames.
	At *RST condition, this value is device dependent.
	Nevigation Path:Test > Results > Traffic > S-OAM > RX Total
Syntax	:FETCh:DATA:TELecom:SOAM:TRAFfic:RX:TOTal?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the total received frame Count.
Example(s)	FETC:DATA:TEL:SOAM:TRAF:RX:TOTal?
See Also	FETCh:DATA:TELecom:SOAM:LINK:TRACe:RESult:TX:LTM?

:FETCh:DATA:TELecom:SOAM:TRAFfic:TX:COUNt?

Description	This query returns the traffic monitoring function counts transmitted frames.
	At *RST condition, this value is device dependent.
	Nevigation Path:Test > Results > Traffic > S-OAM > TX Count
Syntax	:FETCh:DATA:TELecom:SOAM:TRAFfic:TX:COUNt? <wsp><type>
Parameter(s)	**type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of frame:
	AIS
	CCM
	CSF
	DMM
	LBM
	LCK
	LMM
	LTM
	SLM
	TST
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Tx frame Count.
Example(s)	FETC:DATA:TEL:SOAM:TRAF:TX:COUNt? LBM
See Also	FETCh:DATA:TELecom:SOAM:FDELay:AVERage:DELay?

:FETCh:DATA:TELecom:SOAM:TRAFfic:TX:TOTal?

Description	This query returns the traffic monitoring function Total transmitted frames.
	At *RST condition, this value is device dependent.
	Nevigation Path:Test > Results > Traffic > S-OAM > TX Total
Syntax	:FETCh:DATA:TELecom:SOAM:TRAFfic:TX:TOTal?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the total transmitted frame Count.
Example(s)	FETC:DATA:TEL:SOAM:TRAF:TX:TOTal?
See Also	FETCh:DATA:TELecom:SOAM:LINK:TRACe:RESult?

Traffic - Path OAM

:FETCh:DATA:TELecom:FETHernet:POAM:RESPonder:RX:DMM:COUNt?

Description	This query returns the FlexE Path OAM Responder function RX 2DMM count.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Traffic > Path OAM > Responder 2DMM RX Count
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:RESPonder:RX:DMM:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the RX 2DMM count
Example(s)	FETC:DATA:TEL:FETH:POAM:RESP:RX:DMM:COUN?
See Also	FETCh:DATA:TELecom:FETHernet:POAM:DELay:RX:DMR:COUNt?

:FETCh:DATA:TELecom:FETHernet:POAM:RESPonder:TX:DMR :COUNt?

Description	This query returns the FlexE Path OAM Responder function TX 2DMR count
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Traffic > Path OAM > Responder - 2DMR TX Count
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:RESPonder:TX:DMR:COUNt?
Response Syntax	<Value>
Response(s)	Value:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the TX 2DMR count
Example(s)	FETC:DATA:TEL:FETH:POAM:RESP:TX:DMR:COUN?
See Also	FETCh:DATA:TELecom:FETHernet:POAM:DELay:TX:DMM:COUNt?

FTFL/PT

:FETCh:DATA:TELecom:OTN:OPU[1..n]:E:PCODe:RECeived?

Description	This query returns the corresponding received payload type code for OTU1e/2e rate.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > FTFL/PT > ODU1e/2e > PT- Code - Received
Syntax	:FETCh:DATA:TELecom:OTN:OPU[1..n]:E:PCODe:RECeived?
Response Syntax	<Code>
Response(s)	**Code**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the received payload code.
Example(s)	FETC:DATA:TEL:OTN:OPU1:E:PCOD:REC?
See Also	FETCh:DATA:TELecom:OTN:OPU[1..n]:PTYPe:RECeived?

:FETCh:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe:RECeived?

Description	This query returns the received payload signal type to be generated for OTU1e/2e rate.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > FTFL/PT > ODU1e/2e > PT - Payload Type
Syntax	:FETCh:DATA:TELecom:OTN:OPU[1..n]:E:PTYPe:RECeived?
Response Syntax	<Payload>
Response(s)	**Payload**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the received payload type.
Example(s)	FETC:DATA:TEL:OTN:OPU1:E:PTYP:REC?
See Also	FETCh:DATA:TELecom:OTN:OPU[1..n]:PCODe:RECeived?

:FETCh:DATA:TELecom:OTN:OPU[1..n]:F:PCODe:RECeived?

Description	This query returns the corresponding received payload type code.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test > OTN BERT > Results > FTFL/PT > ODU 1/2F > Payload Type
Syntax	:FETCh:DATA:TELecom:OTN:OPU[1..n]:F:PCODe:RECeived?
Response Syntax	<Code>
Response(s)	**Code**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the received payload code.
Example(s)	FETC:DATA:TEL:OTN:OPU1:F:PCOD:REC?
See Also	FETCh:DATA:TELecom:OTN:OPU[1..n]:PTYPe:RECeived?

:FETCh:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe:RECeived?

Description	This query returns the received payload signal type to be generated.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test > OTN BERT > Results > FTFL/PT > ODU 1/2 F > Payload Type
Syntax	:FETCh:DATA:TELecom:OTN:OPU[1..n]:F:PTYPe:RECeived?
Response Syntax	<Payload>
Response(s)	**Payload**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the received payload type.
Example(s)	FETC:DATA:TEL:OTN:OPU1:F:PTYP:REC?
See Also	FETCh:DATA:TELecom:OTN:OPU[1..n]:PCODe:RECeived?

:FETCh:DATA:TELecom:OTN:OPU[1..n]:PCODe:RECeived?

Description	This query returns the received Payload Type code.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test > OTN BERT > Results > FTFL/PT > ODU > Payload Type
	In Multi-Channel OTN, when accessing an OPU LO, the channel must be set using SENSe:DATA:TELecom:OTN:OPU[1..n]:CHANnel.
	In FlexO BERT, when accessing an OPU LO, the client ID must be set using SENSe:DATA:TELecom:OTN:ODU[1..n]:CLIent
Syntax	:FETCh:DATA:TELecom:OTN:OPU[1..n]:PCODe:RECeived?
Response Syntax	<Code>
Response(s)	**Code**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the received Payload Type Code.
Example(s)	OTN BERT:
	FETC:DATA:TEL:OTN:OPU1:PCOD:REC?
	For Multi-Channel OTN:
	SENS:DATA:TEL:OTN:OPU100:CHAN 2
	FETC:DATA:TEL:OTN:OPU100:PCOD:REC?
	For FlexO BERT:
	SENS:DATA:TEL:OTN:OPU101:CLI 2
	FETC:DATA:TEL:OTN:OPU101:PCOD:REC?
See Also	FETCh:DATA:TELecom:OTN:OPU[1..n]:PTYPe:RECeived?
	For Multi-Channel OTN:
	SENSe:DATA:TELecom:OTN:OPU[1..n]:CHANnel
	SENSeDATA:TELecom:OTN:OPU[1..n]:CHANnel?
	For FlexO BERT:
	SENSe:DATA:TELecom:OTN:OPU[1..n]:CLIent
	SENSe:DATA:TELecom:OTN:OPU[1..n]:CLIent?

:FETCh:DATA:TELecom:OTN:OPU[1..n]:PTYPe:RECeived?

Description	This query returns the received Payload Type.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test > OTN BERT > Results > FTFL/PT > ODU > Payload Type
	In Multi-Channel OTN, when accessing an OPU LO, the channel must be set using SENSe:DATA:TELecom:OTN:OPU[1..n]:CHANnel
	In FlexO BERT, when accessing an OPU LO, the client ID must be set using SENSe:DATA:TELecom:OTN:OPU[1..n]:CLIent
Syntax	:FETCh:DATA:TELecom:OTN:OPU[1..n]:PTYPe:RECeived?
Response Syntax	<Payload Type>

:FETCh:DATA:TELecom:OTN:OPU[1..n]:PTYPe:RECeived?

Response(s)	Payload Type:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the received Payload Type.
	_1485_1001OPU1: (1.485/1.001) Gbit/s SDI mapping into OPU1
	_1485OPU1: 1.485 Gbit/s SDI mapping in to OPU1
	_200GBASER: 200GBASE-R mapping into OPUflex
	_25GBASER: 25GBASE-R mapping into OPUflex
	_2970_1001OPUFLEX: (2.970/1.001) Gbit/s SDI mapping into OPUflex
	_2970OPUFLEX: 2.970 Gbit/s SDI mapping into OPUflex
	_400GBASER: 400GBASE-R mapping into OPUflex
	ASYNchronous: Asynchronous CBR mapping
	ATM: ATM mapping
	BISYnch: Bit synchronous CBR mapping
	BSNTiming: Bit stream without octet timing mapping
	BSTiming: Bit stream with octet timing mapping
	DVBASIOPU0: DVB_ASI mapping into OPU0
	EXPerimental: Experimental mapping
	FC100ODU0: FC-100 into ODU0
	FC1200ODU2E: FC-1200 into ODU2e
	FC1600: FC-1600 mapping into OPUflex
	FC200ODU1: FC-200 into ODU1
	FC3200: FC-3200 mapping into OPUflex
	FC400: FC-400 into ODUflex
	FC800: FC-800 into ODUflex
	FLEXEAWARE: FlexE aware (partial rate) mapping into OPUflex
	FLEXECLIENT: FlexE Client mapping into OPUflex
	GFP1: GFP Mapping
	GFPEOPU2: GFP mapping into extended OPU2

:FETCh:DATA:TELecom:OTN:OPU[1..n]:PTYPe:RECeived?

Response(s)
IBDRMAPPING: IB DDR mapping into ODUflex

IBQDRMAPPING: IB QDR mapping into ODUflex

IBSDRMAPPING: IB SDR mapping into ODUflex

NAVailable: Not available

NULLtest: NULL test signal mapping

OC12STM4ODU0: OC12/STM-4 into ODU0

OC3STM1ODU0: OC3/STM-1 into ODU0

ODUODTUCNTS: ODU multiplex with ODTUCn.ts

ODUODTUJK: ODU multiplex with ODTUjk

ODUODTUKTSODTUJK: ODU multiplex with ODTUk.ts/ODTUjk

PCSCODEWORD: PCS Codeword transparent Ethernet

PRBStest: PRBS test signal mapping

RFSTandard: Reserved for international standardization

RPRopriet: Reserved codes for proprietary use

SBCONESCONOPU0: SBCON/ESCON mapping into OPU0

SDIMAPPING: SDI mapping into OPU0

VCONcate: Virtual Concatenated signal

Example(s)
OTN BERT:

FETC:DATA:TEL:OTN:OPU1:PTYP:REC?

For Multi-Channel OTN:

SENS:DATA:TEL:OTN:OPU100:CHAN 2

FETC:DATA:TEL:OTN:OPU100:PTYP:REC?

For FlexO BERT:

SENS:DATA:TEL:OTN:OPU101:CLI 2

FETC:DATA:TEL:OTN:OPU101:PTYP:REC?

See Also
FETCh:DATA:TELecom:OTN:OPU[1..n]:PCODe:RECeived?

For Multi-Channel OTN:

SENSe:DATA:TELecom:OTN:OPU[1..n]:CHANnel

SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHAnnel

For FlexO BERT:

SENSe:DATA:TELecom:OTN:OPU[1..n]:CLIent

SENSe:DATA:TELecom:OTN:OPU[1..n]:ACLient

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:CODE?

Description	This query returns the received ODU1e/2e/3e1/3e2 FTFL Fault Indication Forward/Backward Code. At *RST condition, this value is set to device-dependent. Navigation Path: Results > FTFL/PT > ODUn > FTFL > Forward/Backward Code NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:CODE? <wsp><FTFL>
Parameter(s)	FTFL: The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element. Selects Forword or Backward: FORWard BACKward
Response Syntax	<Code>
Response(s)	Code: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the received FTFL Fault Indication Code.
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:FTFL:CODE? FORW
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:IDENtifier?

Description	This query returns the received ODU1e/2e/3e1/3e2 FTFL Forward/Backward Operator Identifier.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > FTFL/PT > ODUn > FTFL > Forward/Backward Operator Identifier
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:IDENtifier? <wsp><FTFL>
Parameter(s)	**FTFL**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Forword or Backward:
	FORWard
	BACKward
Response Syntax	<Identifier>
Response(s)	**Identifier**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the received FTFL Operator Identifier.
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:FTFL:IDEN? FORW
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:INDicatio n?

Description	This query returns the received ODU1e/2e/3e1/3e2 FTFL Fault Indication Forward/Backward message.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > FTFL/PT > ODUn > FTFL > Forward/Backward Fault Indication
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication? <wsp><FTFL>
Parameter(s)	**FTFL**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Forword or Backward:
	FORWard
	BACKward
Response Syntax	<Indication>
Response(s)	**Indication**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the received FTFL Fault Indication message:
	NFAULT: No Fault
	SFAIL: Signal Fail
	SDEGRADE: Signal Degrade
	RESERVED: Reserved
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:FTFL:IND? FORW
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:CODE?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:SPECific?

Description	This query returns the received ODU1e/2e/3e1/3e2 FTFL Forward/Backward Operator Specific.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > FTFL/PT > ODUn > FTFL > Forward/Backward Operator Specific
	NOTE: For :E[1..n]:, use :E: for ODU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:SPECific? <wsp><FTFL>
Parameter(s)	**FTFL**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Forword or Backward:
	FORWard
	BACKward
Response Syntax	<Specific>
Response(s)	**Specific**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the received FTFL Operator Specific.
Example(s)	SENS:DATA:TEL:OTN:ODU3:E1:FTFL:SPEC? FORW
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:CODE?

Description	This query returns the received ODU1f/2f FTFL Fault Indication Forward/Backward Code.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > FTFL/PT > ODUn > FTFL > Forward/Backward Code
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:CODE? <wsp><FTFL>
Parameter(s)	**FTFL**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Selects Forword or Backward:
	FORWard
	BACKward
Response Syntax	<Code>
Response(s)	**Code**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the received FTFL Fault Indication Code.
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:FTFL:CODE? FORW
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:IDENtifier?

Description	This query returns the received ODU1f/2f FTFL Forward/Backward Operator Identifier.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > FTFL/PT > ODUn > FTFL > Forward/Backward Operator Identifier
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:IDENtifier? <wsp><FTFL>
Parameter(s)	**FTFL**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Forword or Backward:
	FORWard
	BACKward
Response Syntax	<Identifier>
Response(s)	**Identifier**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the received FTFL Operator Identifier.
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:FTFL:IDEN? FORW
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:INDication?

Description	This query returns the received ODU1f/2f FTFL Fault Indication Forward/Backward message.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > FTFL/PT > ODUn > FTFL > Forward/Backward Fault Indication
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:INDication? <wsp><FTFL>
Parameter(s)	**FTFL:**
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Forword or Backward:
	FORWard
	BACKward
Response Syntax	<Indication>
Response(s)	**Indication:**
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the received FTFL Fault Indication message:
	NFAULT: No Fault
	SFAIL: Signal Fail
	SDEGRADE: Signal Degrade
	RESERVED: Reserved
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:FTFL:IND? FORW
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:CODE?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:SPECific?

Description	This query returns the received ODU1f/2f FTFL Forward/Backward Operator Specific.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > FTFL/PT > ODUn > FTFL > Forward/Backward Operator Specific
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:F:FTFL:SPECific? <wsp><FTFL>
Parameter(s)	**FTFL**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Forword or Backward:
	FORWard
	BACKward
Response Syntax	<Specific>
Response(s)	**Specific**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the received FTFL Operator Specific.
Example(s)	SENS:DATA:TEL:OTN:ODU1:F:FTFL:SPEC? FORW
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:E[1..n]:FTFL:INDication?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE?

Description	This query returns the FTFL Fault Indication Forward/Backward Code.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > FTFL/PT > ODU > FTFL > Forward/Backward Fault Indication Code
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE? <wsp><Ftfl>
Parameter(s)	**Ftfl**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Forward or Backward:
	FORWard
	BACKward
Response Syntax	<Code>
Response(s)	**Code**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the received FTFL Fault Indication code.
Example(s)	SENS:DATA:TEL:OTN:ODU1:FTFL:CODE? FORW
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier?

Description	This query returns the FTFL Forward/Backward Operator Identifier.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > FTFL/PT > ODU > FTFL > Forward/Backward Operator Identifier
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:IDENtifier? <wsp><FTFL>
Parameter(s)	**FTFL**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Forward or Backward:
	FORWard
	BACKward
Response Syntax	<Identifier>
Response(s)	**Identifier**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the received FTFL Operator Identifier.
Example(s)	SENS:DATA:TEL:OTN:ODU1:FTFL:IDEN? FORW
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication?

Description	This query returns the FTFL Forward/Backward Fault Identication message.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > FTFL/PT > ODU > FTFL > Forward/Backward Fault Indication
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication? <wsp><FTFL>
Parameter(s)	**FTFL**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Forward or Backward:
	FORWard
	BACKward
Response Syntax	<Indication>
Response(s)	**Indication**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the received FTFL Fault Indication message:
	NFAULT: No Fault
	SFAIL: Signal Fail
	SDEGRADE: Signal Degrade
	RESERVED: Reserved
Example(s)	SENS:DATA:TEL:OTN:ODU1:FTFL:IND? FORW
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:CODE?

:SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:SPECific?

Description	This query returns the FTFL Forward/Backward Operator Specific.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > FTFL/PT > ODU > FTFL > Forward/Backward Operator Specific
Syntax	:SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:SPECific? <wsp><FTFL>
Parameter(s)	**FTFL**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Forward or Backward:
	FORWard
	BACKward
Response Syntax	<Operator Specific>
Response(s)	**Operator Specific**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the received FTFL Operator Specific.
Example(s)	SENS:DATA:TEL:OTN:ODU1:FTFL:SPEC? FORWard
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:FTFL:INDication?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHAnnel

Description	This command forces the Payload Type commands/queries to be applied on all channels (ON) or a single channel (OFF) for Multi-Channel OTN test.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > ODU Channels > PT > Global PT
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHAnnel <wsp><AllChannel>
Parameter(s)	**AllChannel**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Selects if the Payload Type commands/queries are applied on all channels (ON) or a single channel (OFF).
Response Syntax	<Operator Specific>
Example(s)	SENS:DATA:TEL:OTN:OPU100:ACHA ON
	SENS:DATA:TEL:OTN:OPU100:ACHA OFF
See Also	SENS:DATA:TEL:OTN:OPU100:CHAN?
	SENS:DATA:TEL:OTN:OPU100:ACHA?

:SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHAnnel?

Description	This query returns if the Payload Type commands/queries are applied on all channels (ON) or a single channel (OFF) for Multi-Channel OTN test.
	At *RST condition, this value is set to OFF.
	Navigation Path: Setup > ODU Channels > PT >Global PT
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHAnnel?
Response Syntax	<AllChannel>
Response(s)	**AllChannel**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns an indication that the Payload Type commands/queries are to be applied on all channels.
	1, OPU Payload Type commands/queries are applied on all channels.
	0, OPU Payload Type commands/queries are applied on a specific channels determined by SENS:DATA:TEL:OTN:OPU[1..n]:CHAN.
Example(s)	SENS:DATA:TEL:OTN:OPU100:ACHA?
See Also	SENS:DATA:TEL:OTN:OPU100:ACHA
	SENS:DATA:TEL:OTN:OPU100:CHAN

:SENSe:DATA:TELecom:OTN:OPU[1..n]:CHANnel

Description	This command sets the value of the channel used by the Payload Type for Multi-Channel OTN test.
	When setting a channel value, the following command is set to OFF: SENSe[1..n]:DATA:TELecom:OTN:OPU[1..n]:ACHAnnel
	At *RST condition, this value is set to 1.
	Navigation Path: Results > PT > ODUk > Channel
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:CHANnel <wsp><Channel Number>
Parameter(s)	**Channel Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Global parameter, applicable to Multi-Channel OTN
	Selects the channel number.
Response Syntax	<AllChannel>
Example(s)	SENS:DATA:TEL:OTN:OPU100:ACHA?
	Returns: 1
	SENS:DATA:TEL:OTN:OPU100:CHAN 2
	SENS:DATA:TEL:OTN:OPU100:ACHA?
	Returns: 0
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:CHAN?
	SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHA

:SENSe:DATA:TELecom:OTN:OPU[1..n]:CHANnel?

Description	This query returns the value of the channel number used by the Payload Type, when command AllCHAnnel is 'OFF', for Multi-Channel OTN test.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > PT > ODUk > Channel
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:CHANnel?
Response Syntax	<Channel Number>
Response(s)	**Channel Number**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the channel number used for the Payload Type, when command AllCHAnnel is 'OFF', for the Multi-Channel OTN test application.
Example(s)	SENS:DATA:TEL:OTN:OPU100:CHAN?
See Also	SENSe:DATA:TELecom:OTN:OPU[1..n]:CHAN
	SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHA

:SENSe:DATA:TELecom:OTN:OPU[1..n]:COPYrx

Description	This command copies the received Payload Type to the expected Payload Type.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Test > OTN BERT > Results > FTFL/PT > ODU > Payload Type
	NOTE: In Multi-Channel OTN, when copying an OPU LO Payload Type, the channel must be set using SENS:DATA:TEL:OTN:OPU[1..n]:CHAN. The Payload Type can also be copied on all channels by using SENS:DATA:TEL:OTN:OPU[1..n]:ACHA.
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:COPYrx
Response Syntax	<Channel Number>
Example(s)	SENS:DATA:TEL:OTN:OPU1:COPY
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:COPY
	SENSe:DATA:TELecom:OTN:OPU[1..n]:CHAN
	SENSe:DATA:TELecom:OTN:OPU[1..n]:ACHA

:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:COPYrx

Description	This command sets the copy Rx to instrument for OTU1e/2e rate.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > FTFL/PT > ODU1e/2e > PT- Copy RX
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:E:COPYrx
Response Syntax	<Channel Number>
Example(s)	SENS:DATA:TEL:OTN:OPU1:E:COPY
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:COPY

:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:COPYrx

Description	This command sets the copy Rx to instrument for OTU1f/2f rate.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Results > FTFL/PT > ODU1e/2e > PT- Copy RX
Syntax	:SENSe:DATA:TELecom:OTN:OPU[1..n]:F:COPYrx
Response Syntax	<Channel Number>
Example(s)	SENS:DATA:TEL:OTN:OPU1:F:COPY
See Also	SENSe:DATA:TELecom:OTN:ODU[1..n]:TCM[1..n]:TTI:SAPI:COPY

OTL-SDT

:FETCh:DATA:TELecom:OTL:SDT:AVERage?

Description	This query returns the average disruption time FOR OTL.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > OTN BERT > Results > OTL-SDT > Service disruption.
Syntax	:FETCh:DATA:TELecom:OTL:SDT:AVERage? <wsp><LaneNo>
Parameter(s)	**LaneNo**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane ID.
Response Syntax	<Average>
Response(s)	**Average**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the average disruption time for the selected lane id.
Example(s)	FETC:DATA:TEL:OTL:SDT:AVER? 1
See Also	FETCh:DATA:TELecom:OTL:SDT:LAST?

:FETCh:DATA:TELecom:OTL:SDT:COUNt?

Description	This query returns the disruption count FOR OTL.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > OTN BERT > Results > OTL-SDT > Service disruption.
Syntax	:FETCh:DATA:TELecom:OTL:SDT:COUNt? <wsp><LaneNo>
Parameter(s)	**LaneNo**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane ID.
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of service disruption counts that happened since the beginning of the SDT test for the selected lane id.
Example(s)	FETC:DATA:TEL:OTL:SDT:COUN? 1
See Also	FETCh:DATA:TELecom:OTL:SDT:LAST?

:FETCh:DATA:TELecom:OTL:SDT:DEFect?

Description	This query returns the layer on which service disruption time test isperformed for OTN.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > OTN BERT > Results > OTL-SDT > Service disruption > Defect
Syntax	:FETCh:DATA:TELecom:OTL:SDT:DEFect?
Response Syntax	<Defect>
Response(s)	**Defect**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	This query returns the layer on which service disruption time test isperformed for OTN for OTL-SDT.
Example(s)	FETC:DATA:TEL:OTL:SDT:DEF?
See Also	FETCh:DATA:TELecom:SDT:DEFect?

:FETCh:DATA:TELecom:OTL:SDT:LANE:DISRuption?

Description	This query returns the number of lane with disruption
	At *RST condition, this value is device dependent.
	Navigation Path: Test > OTN BERT > Results > OTL-SDT > Service disruption
Syntax	:FETCh:DATA:TELecom:OTL:SDT:LANE:DISRuption?
Response Syntax	<Time>
Response(s)	**Time**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the lanes with disruption
Example(s)	FETC:DATA:TEL:OTL:SDT:LANE:DISR?
See Also	FETCh:DATA:TELecom:OTL:SDT:SHORtest?

:FETCh:DATA:TELecom:OTL:SDT:LAST?

Description	This query returns the last disruption time FOR OTL.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > OTN BERT > Results > OTL-SDT > Service disruption.
Syntax	:FETCh:DATA:TELecom:OTL:SDT:LAST? <wsp><LaneNo>
Parameter(s)	**LaneNo**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane ID.
Response Syntax	<Last>
Response(s)	**Last**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the last disruption time for the selected lane id.
Example(s)	FETC:DATA:TEL:OTL:SDT:LAST? 1
See Also	FETCh:DATA:TELecom:OTL:SDT:SHORtest?

:FETCh:DATA:TELecom:OTL:SDT:LONGest:DISRuption:DURation?

Description	This query returns the longest disruption duration
	At *RST condition, this value is device dependent.
	Navigation Path: Test > OTN BERT > Results > OTL-SDT > Service disruption
Syntax	:FETCh:DATA:TELecom:OTL:SDT:LONGest:DISRuption:DURation?
Response Syntax	<Time>
Response(s)	**Time**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the longest disruption duration
Example(s)	FETC:DATA:TEL:OTL:SDT:LONG:DISR:DUR?
See Also	FETCh:DATA:TELecom:OTL:SDT:LONGest?

:FETCh:DATA:TELecom:OTL:SDT:LONGest:DISRuption:LANE?

Description	This query returns the longest disruption lane
	At *RST condition, this value is device dependent.
	Navigation Path: Test > OTN BERT > Results > OTL-SDT > Service disruption
Syntax	:FETCh:DATA:TELecom:OTL:SDT:LONGest:DISRuption:LANE?
Response Syntax	<Time>
Response(s)	**Time**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the longest disruption lane
Example(s)	FETC:DATA:TEL:OTL:SDT:LONG:DISR:LANE?
See Also	FETCh:DATA:TELecom:OTL:SDT:SHORtest?

:FETCh:DATA:TELecom:OTL:SDT:LONGest?

Description	This query returns the longest disruption time FOR OTL.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > OTN BERT > Results > OTL-SDT > Service disruption.
Syntax	:FETCh:DATA:TELecom:OTL:SDT:LONGest? <wsp><LaneNo>
Parameter(s)	**LaneNo**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane ID.
Response Syntax	<Longest>
Response(s)	**Longest**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the longest disruption time for the selected lane id.
Example(s)	FETC:DATA:TEL:OTL:SDT:LONG? 1
See Also	FETCh:DATA:TELecom:SDT:LONGest?

:FETCh:DATA:TELecom:OTL:SDT:SHORtest?

Description	This query returns the shortest disruption time FOR OTL.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > OTN BERT > Results > OTL-SDT > Service disruption.
Syntax	:FETCh:DATA:TELecom:OTL:SDT:SHORtest? <wsp><LaneNo>
Parameter(s)	**LaneNo**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane ID.
Response Syntax	<Shortest>
Response(s)	**Shortest**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the shortest disruption time for the selected lane id.
Example(s)	FETC:DATA:TEL:OTL:SDT:SHOR? 1
See Also	FETCh:DATA:TELecom:OTL:SDT:LONGest?

:FETCh:DATA:TELecom:OTL:SDT:STATistics?

Description	This query returns the STATISTICS FOR OTL.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > OTN BERT > Results > OTL-SDT > Service disruption.
Syntax	:FETCh:DATA:TELecom:OTL:SDT:STATistics?
Response Syntax	<Statistics>
Response(s)	**Statistics**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the statistics.
Example(s)	FETC:DATA:TEL:OTL:SDT:STAT?
See Also	FETCh:DATA:TELecom:SDT:SHORtest?

:FETCh:DATA:TELecom:OTL:SDT:TOTal?

Description	This query returns the total disruption time FOR OTL.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > OTN BERT > Results > OTL-SDT > Service disruption.
Syntax	:FETCh:DATA:TELecom:OTL:SDT:TOTal? <wsp><LaneNo>
Parameter(s)	**LaneNo**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane ID.
Response Syntax	<Total>
Response(s)	**Total**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the total disruption time for the selected lane id.
Example(s)	FETC:DATA:TEL:OTL:SDT:TOT? 1
See Also	FETCh:DATA:TELecom:OTL:SDT:LONGest?

GFP-F/GFP-T

:FETCh:DATA:TELecom:GFP:CHANnel:MISMatch:COUNt?

Description	This query returns the number of frames with fields not matching the Payload Frame Check Sequence identifier.
	At *RST condition, this value is device-dependent.
	Navigation Results > GFP-F/GFP-T > RX Mismatch
Syntax	:FETCh:DATA:TELecom:GFP:CHANnel:MISMatch:COUNt? <wsp><Identifier>
Parameter(s)	**Identifier**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the RX Mismatch identifier.
	PFIMIS: FPI mismatch
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns count of frames for field not matching the Payload FCS Indicator.
Example(s)	FETC:DATA:TEL:GFP:CHAN:MISM:COUN? PFIMIS
See Also	FETCh:DATA:TELecom:GFP:ERRor:CHANnel:RATE?

:FETCh:DATA:TELecom:GFP:OVERview:BANDwidth:RX?

Description	This query returns the Bandwidth usage of frames or payload bytes.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Results > GFP-F > Transport Layer > Bandwidth Usage(%) > RX
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > GFP-T > Transport Layer > Bandwidth Usage(%) > RX
Syntax	:FETCh:DATA:TELecom:GFP:OVERview:BANDwidth:RX?
Response Syntax	<RX>
Response(s)	RX:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Bandwidth Percentage of Received frames or payload bytes.
Example(s)	FETC:DATA:TEL:GFP:OVER:BAND:RX?
See Also	FETCh:DATA:TELecom:GFP:OVERview:EFFiciency:TX?

:FETCh:DATA:TELecom:GFP:OVERview:BANDwidth:TX?

Description	This query returns the Bandwidth usage of frames or payload bytes.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Results > GFP-F > Transport Layer > Bandwidth Usage(%) > TX
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > GFP-T > Transport Layer > Bandwidth Usage(%) > TX
Syntax	:FETCh:DATA:TELecom:GFP:OVERview:BANDwidth:TX?
Response Syntax	<TX>
Response(s)	TX:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Bandwidth Percentage of Transmitted frames or payload bytes.
Example(s)	FETC:DATA:TEL:GFP:OVER:BAND:TX?
See Also	FETCh:DATA:TELecom:GFP:OVERview:EFFiciency:RX?

:FETCh:DATA:TELecom:GFP:OVERview:COUNt:RX?

Description	This query returns the count of frames or payload bytes.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Results > GFP-F > Frame Type > RX > Count
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > GFP-T > Frame Type > RX > Count
Syntax	:FETCh:DATA:TELecom:GFP:OVERview:COUNt:RX? <wsp><Frames>
Parameter(s)	**Frames**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Count of the Received Frames and Bytes.
	DFRames
	MFRames
	IFRames
	TFRames
	RPTiframes
	RPLiframes
	INVFrames
	DISFrames
	DBYTESFORRX
	MBYTESFORRX
	IBYTESFORRX
	TBYTESFORRX
	RPTBYTESFORRX
	DATBYTESFORRX
Response Syntax	<Frames>

:FETCh:DATA:TELecom:GFP:OVERview:COUNt:RX?

Response(s)	**Frames**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Count of Received frames or payload bytes.
Example(s)	FETC:DATA:TEL:GFP:OVER:COUN:RX? DFR
See Also	FETCh:DATA:TELecom:GFP:OVERview:EFFiciency:TX?

:FETCh:DATA:TELecom:GFP:OVERview:COUNt:TX?

Description	This query returns the count of frames or payload bytes.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Results > GFP-F > Frame Type > TX > Count
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > GFP-T > Frame Type > TX > Count
Syntax	:FETCh:DATA:TELecom:GFP:OVERview:COUNt:TX? <wsp><Frames>
Parameter(s)	**Frames**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Count of the Trasmitted Frames and Bytes.
	DFRames
	MFRames
	IFRames
	TFRames
	DBYTESFORTX
	MBYTESFORTX
	IBYTESFORTX
	TBYTESFORTX
	DATBYTESFORTX
Response Syntax	<Frames>
Response(s)	**Frames**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Count of Transmitted frames or payload bytes.
Example(s)	FETC:DATA:TEL:GFP:OVER:COUN:TX? DFR
See Also	FETCh:DATA:TELecom:GFP:OVERview:BANDwidth:TX?

:FETCh:DATA:TELecom:GFP:OVERview:EFFiciency:RX?

Description	This query returns the Mapping Efficiency of frames or payload bytes.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Results > GFP-F > Transport Layer > Mapping Efficiency (%) > RX
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > GFP-T > Transport Layer > Mapping Efficiency (%) > RX
Syntax	:FETCh:DATA:TELecom:GFP:OVERview:EFFiciency:RX?
Response Syntax	<RX>
Response(s)	RX:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Mapping Efficiency Percentage of Received frames or payload bytes.
Example(s)	FETC:DATA:TEL:GFP:OVER:EFF:RX?
See Also	FETCh:DATA:TELecom:GFP:OVERview:RATE:TX?

:FETCh:DATA:TELecom:GFP:OVERview:EFFiciency:TX?

Description	This query returns the Mapping Efficiency of frames or payload bytes.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Results > GFP-F > Transport Layer > Mapping Efficiency (%) > TX
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > GFP-T > Transport Layer > Mapping Efficiency (%) > TX
Syntax	:FETCh:DATA:TELecom:GFP:OVERview:EFFiciency:TX?
Response Syntax	<TX>
Response(s)	TX:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Mapping Efficiency Percentage of Transmitted frames or payload bytes.
Example(s)	FETC:DATA:TEL:GFP:OVER:EFF:TX?
See Also	FETCh:DATA:TELecom:GFP:OVERview:BANDwidth:RX?

:FETCh:DATA:TELecom:GFP:OVERview:RATE:RX?

Description	This query returns the rate of frames or payload bytes.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Results > GFP-F > Frame Type > RX > Rate(Unit/s)
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > GFP-T > Frame Type > RX > Rate(Unit/s)
Syntax	:FETCh:DATA:TELecom:GFP:OVERview:RATE:RX? <wsp><Frames>
Parameter(s)	**Frames**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Rate of the Received Frames and Bytes.
	DFRames
	MFRames
	IFRames
	TFRames
	RPTiframes
	RPLiframes
	INVFrames
	DISFrames
	DBYTESFORRX
	MBYTESFORRX
	IBYTESFORRX
	TBYTESFORRX
	RPTBYTESFORRX
	DATBYTESFORRX
Response Syntax	<Frames>

:FETCh:DATA:TELecom:GFP:OVERview:RATE:RX?

Response(s)	**Frames**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the Rate of Received frames or payload bytes.
Example(s)	FETC:DATA:TEL:GFP:OVER:RATE:RX? DFR
See Also	FETCh:DATA:TELecom:GFP:OVERview:COUNt:TX?

:FETCh:DATA:TELecom:GFP:OVERview:RATE:TX?

Description	This query returns the rate of frames or payload bytes.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Results > GFP-F > Frame Type > TX > Rate(Unit/s)
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > GFP-T > Frame Type > TX > Rate(Unit/s)
Syntax	:FETCh:DATA:TELecom:GFP:OVERview:RATE:TX? <wsp><Frames>
Parameter(s)	**Frames**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Rate of the Trasmitted Frames and Bytes.
	DFRames
	MFRames
	IFRames
	TFRames
	DBYTESFORTX
	MBYTESFORTX
	IBYTESFORTX
	TBYTESFORTX
	DATBYTESFORTX
Response Syntax	<Frames>
Response(s)	**Frames**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the Rate of Transmitted frames or payload bytes.
Example(s)	FETC:DATA:TEL:GFP:OVER:RATE:TX? DFR
See Also	FETCh:DATA:TELecom:GFP:OVERview:EFFiciency:RX?

:FETCh:DATA:TELecom:GFP:SUPerblock:COUNt:RX?

Description	This query returns the count of frames or payload bytes for superblock.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > GFP-T > Superblock > RX > Count
Syntax	:FETCh:DATA:TELecom:GFP:SUPerblock:COUNt:RX? <wsp><Frames>
Parameter(s)	**Frames**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects type of the Received Frames and Bytes for superblock.
	SUPERBLOCKVALID
	SUPERBLOCKINVALID
	SUPERBLOCKTOTAL
Response Syntax	<Frames>
Response(s)	**Frames**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Count of Received frames or payload bytes.
Example(s)	FETC:DATA:TEL:GFP:SUP:COUN:RX? SuperblockTotal
See Also	FETCh:DATA:TELecom:GFP:OVERview:COUNt:TX?

:FETCh:DATA:TELecom:GFP:SUPerblock:COUNt:TX?

Description	This query returns the count of frames or payload bytes for superblock.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > GFP-T > Superblock > TX > Count
Syntax	:FETCh:DATA:TELecom:GFP:SUPerblock:COUNt:TX? <wsp><Frames>
Parameter(s)	**Frames**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects type of the Trasmitted Frames and Bytes for superblock.
	SUPERBLOCKINVALID
	superblockTotal
Response Syntax	<Frames>
Response(s)	**Frames**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Count of Trasmitted frames or payload bytes.
Example(s)	FETC:DATA:TEL:GFP:SUP:COUN:TX? SUPERBLOCKTOTAL
See Also	FETCh:DATA:TELecom:GFP:OVERview:COUNt:RX?

:FETCh:DATA:TELecom:GFP:SUPerblock:RATE:RX?

Description	This query returns the rate of frames or payload bytes for superblock.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > GFP-T > Superblock > RX > Rate(Unit/s)
Syntax	:FETCh:DATA:TELecom:GFP:SUPerblock:RATE:RX? <wsp><Frames>
Parameter(s)	**Frames**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects type of the Received Frames and Bytes for superblock.
	SUPERBLOCKVALID
	SUPERBLOCKINVALID
	SUPERBLOCKTOTAL
Response Syntax	<Frames>
Response(s)	**Frames**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the Rate of Received frames or payload bytes.
Example(s)	FETC:DATA:TEL:GFP:SUP:RATE:RX? SuperblockTotal
See Also	FETCh:DATA:TELecom:GFP:OVERview:RATE:TX?

:FETCh:DATA:TELecom:GFP:SUPerblock:RATE:TX?

Description	This query returns the rate of frames or payload bytes for superblock.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Results > GFP-T > Superblock > TX > Rate(Unit/s)
Syntax	:FETCh:DATA:TELecom:GFP:SUPerblock:RATE:TX? <wsp><Frames>
Parameter(s)	**Frames**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects type of the Trasmitted Frames and Bytes for superblock.
	SUPERBLOCKINVALID
Response Syntax	<Frames>
Response(s)	**Frames**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the Rate of Trasmitted frames or payload bytes.
Example(s)	FETC:DATA:TEL:GFP:SUP:RATE:TX? SUPERBLOCKTOTAL
See Also	FETCh:DATA:TELecom:GFP:OVERview:RATE:RX?

:SENSe:DATA:TELecom:GFP:FRAMe:MISMatch:COUNt?

Description	This query returns the number of frames with fields not matching the expected EXI, UPI, and CID.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > GFP-F/GFP-T > RX Mismatch
Syntax	:SENSe:DATA:TELecom:GFP:FRAMe:MISMatch:COUNt? <wsp><Mismatch>
Parameter(s)	**Mismatch**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the RX Mismatch identifier.
	CIDMIS: CID mismatch
	EXIMIS: EXI mismatch
	UPIMIS: UPI mismatch
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count.
Example(s)	SENS:DATA:TEL:GFP:FRAM:MISM:COUN? EXIMIS
See Also	SOURce:TELecom:GFP:ERRor:CHANnel:AUTomated:CONTinuous?

Streams - Throughput

:FETCh:DATA:TELecom:ETHernet:STRream:THRoughput:AVERage:VERDict?

Description	This query returns the average RX Rate throughput verdict.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Stream > RX Rate - Average verdict
	Navigation Path: Results > Streams > Throughput > RX Rate - Average verdict
	Navigation Path: Results > Service Performace > RX Rate - Average verdict
Syntax	:FETCh:DATA:TELecom:ETHernet:STRream:THRoughput:AVERage:VERDict? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	**Stream/Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	For Traffic Gen & Mon, selects the stream from 1 to 16.
	For EtherSAM, selects the Service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	This parameter is optional
	Selects the direction
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<VERDICT Status>
Response(s)	**VERDICT Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Average Throughput Verdict Status
Example(s)	FETC:DATA:TEL:ETH:STR:THR:AVER:VERD? 1
See Also	FETCh:DATA:TELecom:ETHernet:STRream:OOSequence:VERDict? 1, COUNt

:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:AVERage?

Description	This query returns the average RX Rate throughput.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Stream > RX Rate - Average
	Navigation Path: Results > Streams > Throughput > RX Rate - Average
	Navigation Path: Results > Service Performace > RX Rate - Average
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:AVERage? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	**Stream/Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	For Traffic Gen & Mon, selects the stream from 1 to 16.
	For EtherSAM, selects the Service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Average>
Response(s)	**Average**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the average throughput.
Example(s)	FETC:DATA:TEL:ETH:STR:THR:AVER? 1
See Also	FETCh:DATA:TELecom:ETHernet:STReam:JITTer:CURRent?

:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:CURRent:TOTal:RXRate?

Description	This query return the total RX Rate throughput.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Stream > Throughput > Total RX Rate
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:CURRent:TOTal:RXRate?
Response Syntax	<Total Rx Rate>
Response(s)	**Total Rx Rate**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Total Rx rate value
Example(s)	FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:CURRent:TOTal:RXRate?
See Also	FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:CURRent?

:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:CURRent:VERDict?

Description	This query returns the current RX Rate throughput verdict.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Stream > RX Rate - Current verdict
	Navigation Path: Results > Streams > Throughput > RX Rate - Current verdict
	Navigation Path: Results > Service Performace > RX Rate > Current verdict
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:CURRent:VERDict? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	**Stream/Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	For Traffic Gen & Mon, selects the stream from 1 to 16.
	For EtherSAM, selects the Service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	This parameter is optional
	Selects the direction
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<VERDICT Status>
Response(s)	**VERDICT Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Current Throughput Verdict Status.
	PASS, verdict is Pass.
	FAIL, verdict is Fail.
Example(s)	FETC:DATA:TEL:ETH:STR:THR:CURR:VERD? 1
See Also	FETCh:DATA:TELecom:ETHernet:STReam:JITTer:MAXimum:VERDict? 1

:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:CURRent?

Description	This query returns the current RX Rate throughput.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Stream > RX Rate - Current
	Navigation Path: Results > Stream > Throughput > RX Rate - Current
	Navigation Path: Results > Service Performace > RX Rate - Current
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:CURRent? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	**Stream/Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	For Traffic Gen & Mon, selects the stream from 1 to 16.
	For EtherSAM, selects the Service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the current throughput.
Example(s)	FETC:DATA:TEL:ETH:STR:THR:CURR? 1
See Also	FETCH:DATA:TELecom:ETHernet:STReam:JITTer:AVERage?

:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:MAXimum?

Description	This query returns the maximum RX Rate throughput.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Stream > RX Rate - Maximum
	Navigation Path: Results > Stream > Throughput > RX Rate - Maximum
	Navigation Path: Results > Service Performace > RX Rate - Maximum
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:MAXimum? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	**Stream/Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	For Traffic Gen & Mon, selects the stream from 1 to 16.
	For EtherSAM, selects the Service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Maximum>
Response(s)	**Maximum**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the maximum throughput
Example(s)	FETC:DATA:TEL:ETH:STR:THR:MAX? 1
See Also	FETCh:DATA:TELecom:ETHernet:STReam:JITTer:MINimum?

:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:MINimum?

Description	This query returns the minimum RX Rate throughput.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Stream > RX Rate - Minimum
	Navigation Path: Results > Stream > Throughput > RX Rate - Minimum
	Navigation Path: Results > Service Performace > RX Rate - Minimum
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:MINimum? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	**Stream/Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	For Traffic Gen & Mon, selects the stream from 1 to 16.
	For EtherSAM, selects the Service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Minimum>
Response(s)	**Minimum**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the minimum throughput.
Example(s)	FETC:DATA:TEL:ETH:STR:THR:MIN? 1
See Also	FETCh:DATA:TELecom:ETHernet:STReam:JITTer:MAXimum?

Streams - Jitter

:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:AVERage?

Description	This query returns the average measured Jitter delay variation.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Stream > Jitter - Average
	Navigation Path: Results > Streams > Jitter - Average.
	Navigation Path: Results > Service Performace > Jitter - Average
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:AVERage? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	**Stream/Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	For Traffic Gen & Mon, selects the stream from 1 to 16.
	For EtherSAM, selects the Service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Average>
Response(s)	**Average**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the average of all valid measured delay variations of jitter.
Example(s)	FETC:DATA:TEL:ETH:STR:JITT:AVER? 1
See Also	FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:CURRent?

:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:CURRent?

Description	This query returns the current measured Jitter delay variation.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Stream > Jitter - Current
	Navigation Path: Results > Streams > Jitter - Current
	Navigation Path: Results > Service Performace > Jitter - Current
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:CURRent? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	**Stream/Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	For Traffic Gen & Mon, selects the stream from 1 to 16.
	For EtherSAM, selects the Service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the current of all valid measured delay variations of jitter.
Example(s)	FETC:DATA:TEL:ETH:STR:JITT:CURR? 1
See Also	FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:AVERage?

:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:EStimate?

Description	This query returns the estimate measured Jitter delay variation.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Stream > Jitter - Estimate
	Navigation Path: Results > Streams > Jitter - Estimate
	Navigation Path: Results > Service Performace > Jitter - Estimate
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:EStimate? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	**Stream/Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	For Traffic Gen & Mon, selects the stream from 1 to 16.
	For EtherSAM, selects the Service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Estimated>
Response(s)	**Estimated**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the estimated of all valid measured delay variations of jitter.
Example(s)	FETC:DATA:TEL:ETH:STR:JITT:EST? 1
See Also	FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:MAXimum?

:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:MAXimum:VERDict?

Description	This query returns the Maximum Jitter verdict status.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Stream > Jitter - Maximum verdict
	Navigation Path: Results > Streams > Jitter - Maximum verdict
	Navigation Path: Results > Service Performace > Jitter - Maximum verdict
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:MAXimum:VERDict? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	**Stream/Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	For Traffic Gen & Mon, selects the stream from 1 to 16.
	For EtherSAM, selects the Service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	This parameter is optional
	Selects the direction
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<VERDICT Status>
Response(s)	**VERDICT Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the maximum Jitter Verdict Status
	PASS, verdict is Pass.
	FAIL, verdict is Fail.
Example(s)	FETC:DATA:TEL:ETH:STR:JITT:MAX:VERD? 1
See Also	FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:CURRent:VERDict? 1

:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:MAXimum?

Description	This query returns the maximum measured Jitter delay variation.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Stream > Jitter - Maximum
	Navigation Path: Results > Streams > Jitter - Maximum
	Navigation Path: Results > Service Performace > Jitter - Maximum
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:MAXimum? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	**Stream/Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	For Traffic Gen & Mon, selects the stream from 1 to 16.
	For EtherSAM, selects the Service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Maximum>
Response(s)	**Maximum**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the maximum measured delay variations of jitter.
Example(s)	FETC:DATA:TEL:ETH:STR:JITT:MAX? 1
See Also	FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:MINimum?

:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:MINimum?

Description	This query returns the minimum measured Jitter delay variation.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Stream > Jitter - Minimum
	Navigation Path: Results > Streams > Jitter - Minimum
	Navigation Path: Results > Service Performace > Jitter - Minimum
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:JITTer:MINimum? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	**Stream/Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	For Traffic Gen & Mon, selects the stream from 1 to 16.
	For EtherSAM, selects the Service number 1 to 10.
	Direction:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Minimum>
Response(s)	**Minimum**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the minimum measured delay variations of jitter.
Example(s)	FETC:DATA:TEL:ETH:STR:JITT:MIN? 1
See Also	FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:MAXimum?

Streams - Latency

:FETCh:DATA:TELecom:ETHernet:STRem:LATency:AVERage?

Description	This query returns the average measured Latency in ms.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Stream > Latency - Average
	Navigation Path: Results > Streams > Latency - Average
	Navigation Path: Results > Service Performace > Latency - Average
	Navigation Path: Results > Summary > Latency - Average
Syntax	:FETCh:DATA:TELecom:ETHernet:STRem:LATency:AVERage? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	**Stream/Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	For Traffic Gen & Mon, selects the stream from 1 to 16.
	For EtherSAM, selects the Service number 1 to 10.
	For EtherBERT, selects the stream 1.
	Direction:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the direction for Dual Test Set. Not used with EtherBERT.
	(For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Average>
Response(s)	**Average**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the average latency
Example(s)	FETC:DATA:TEL:ETH:STR:LAT:AVER? 1
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:SEConds?

:FETCh:DATA:TELecom:ETHernet:STReam:LATency:CURRent?

Description	This query returns the current measured Latency in ms.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Stream > Latency - Current
	Navigation Path: Results > Streams > Latency - Current
	Navigation Path: Results > Service Performace > Latency - Current
	Navigation Path: Results > Summary > Latency - Current
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:LATency:CURRent? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	**Stream/Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	For Traffic Gen & Mon, selects the stream from 1 to 16.
	For EtherSAM, selects the Service number 1 to 10.
	For EtherBERT, selects the stream 1.
	Direction:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the direction for Dual Test Set. Not used with EtherBERT.
	(For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the current latency.
Example(s)	FETC:DATA:TEL:ETH:STR:LAT:CURR? 1
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:COUNt?

:FETCh:DATA:TELecom:ETHernet:STReam:LATency:MAXimum:VERDict?

Description	This query returns the maximum measured Latency verdict status.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Stream > Latency - Maximum verdict
	Navigation Path: Results > Streams > Latency - Maximum verdict
	Navigation Path: Results > Service Performance > Latency - Maximum verdict
	Navigation Path: Results > Summary > Latency - Maximum - verdict
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:LATency:MAXimum:VERDict? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	**Stream/Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	For Traffic Gen & Mon, selects the stream from 1 to 16.
	For EtherSAM, selects the Service number 1 to 10.
	For EtherBERT, selects the stream 1.
	Direction:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the direction for Dual Test Set. Not used with EtherBERT.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<VERDICT Status>
Response(s)	**VERDICT Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Maximum Latency Verdict Status.
	PASS, verdict is Pass.
	FAIL, verdict is Fail.
Example(s)	FETC:DATA:TEL:ETH:STR:LAT:MAX:VERD? 1
See Also	FETCh:DATA:TELecom:ETHernet:STReam:FLOSs:VERDict? 1, RATE

:FETCh:DATA:TELecom:ETHernet:STReam:LATency:MAXimum?

Description	This query returns the maximum measured Latency in ms.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Stream > Latency - Maximum
	Navigation Path: Results > Streams > Latency - Maximum
	Navigation Path: Results > Service Performace > Latency - Maximum
	Navigation Path: Results > Summary > Latency - Maximum
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:LATency:MAXimum? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	**Stream/Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	For Traffic Gen & Mon, selects the stream from 1 to 16.
	For EtherSAM, selects the Service number 1 to 10.
	For EtherBERT, selects the stream 1.
	Direction:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the direction for Dual Test Set. Not used with EtherBERT.
	(For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Maximum>
Response(s)	**Maximum**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the maximum latency
Example(s)	FETC:DATA:TEL:ETH:STR:LAT:MAX? 1
See Also	FETCH:DATA:TELecom:ETHernet:ERRor:SANalyzer:HISTory?

:FETCh:DATA:TELecom:ETHernet:STReam:LATency:MINimum ?

Description	This query returns the minimum measured Latency in ms.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Stream > Latency - Minimum
	Navigation Path: Results > Streams > Latency - Minimum
	Navigation Path: Results > Service Performace > Latency - Minimum
	Navigation Path: Results > SUmmary > Latency - Minimum
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:LATency:MINimum? <wsp><Stream/Service>,[<Direction>]
Parameter(s)	**Stream/Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	For Traffic Gen & Mon, selects the stream from 1 to 16.
	For EtherSAM, selects the Service number 1 to 10.
	For EtherBERT, selects the stream 1.
	Direction:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the direction for Dual Test Set. Not used with EtherBERT.
	(For DTS used both LTOR and RTOL as direction, for Non DTS use LTOR as direction)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Minimum>
Response(s)	**Minimum**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the mimum latency
Example(s)	FETC:DATA:TEL:ETH:STR:LAT:MIN? 1
See Also	FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:CURRent?

Streams - Frame Loss / Out-of-Sequence

:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:COUNt?

Description	This query returns the count of Frame Loss / Out-of-Sequence.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Stream > Frame Loss - Count
	Navigation Path: Results > Streams > Frame Loss / Out-of-Sequence - Count
	Navigation Path: Results > Service Performace > Frame Loss / Out-of-Sequence - Count
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:COUNt? <wsp><Stream/Service>, <Error>,[<Direction>]
Parameter(s)	**Stream/Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	For Traffic Gen & Mon, selects the stream number from 1 to 16.
	For EtherSAM, selects the service number from 1 to 10.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FLOSs: Frame Loss
	OUTSequence: Out-of-Seq.
	Direction:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the direction. For non-DTS use LTOR as direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Count>

:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:COUNt?

Response(s)	Count:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of errors.
Example(s)	FETC:DATA:TEL:ETH:ERR:SAN:COUN? 1, FLOSs
See Also	FETCH:DATA:TELecom:EOTN:ERRor:PHYSical:CURRent?

:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:CURRent?

Description	This query returns the current status of Frame Loss / Out-of-Sequence.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Stream > Frame Loss current status
	Navigation Path: Results > Streams > Frame Loss / Out-of-Sequence current status
	Navigation Path: Results > Service Performace > Frame Loss / Out-of-Sequence current status
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:CURRent? <wsp><Tgen>, <Error>,[<Direction>]
Parameter(s)	**Tgen**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	For Traffic Gen & Mon, selects the stream number from 1 to 16.
	For EtherSAM, selects the service number from 1 to 10.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FLOSs: Frame Loss
	OUTSequence: Out-of-Seq.
	Direction:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the direction. For non-DTS use LTOR as direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Current>

:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:CURRent?

Response(s)	Current:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the current error status:
	PRESENT: An error has occurred in the last second.
	ABSENT: No error has occurred in the last second.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:SAN:CURR? 1, FLOSs
See Also	FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:RATE?

:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:HISTory?

Description	This query returns the history status of Frame Loss / Out-of-Sequence.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Stream > Frame Loss - Count
	Navigation Path: Results > Streams > Frame Loss / Out-of-Sequence history status
	Navigation Path: Results > Service Performace > Frame Loss / Out-of-Sequence history status
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:HISTory? <wsp><Stream/Service>, <Error>,[<Direction>]
Parameter(s)	**Stream/Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	For Traffic Gen & Mon, selects the stream number from 1 to 16.
	For EtherSAM, selects the service number from 1 to 10.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FLOSs: Frame Loss
	OUTSequence: Out-of-Seq.
	Direction:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the direction. For non-DTS use LTOR as direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<History>

:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:HISTory?

Response(s)	**History**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the history error status:
	PRESENT: At least one error has occurred during the test.
	ABSENT: No error has occurred during the test.
	INACTIVE: No test result available.
Example(s)	FETC:DATA:TEL:ETH:ERR:SAN:HIST? 1, FLOSs
See Also	FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:RATE?

:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:RATE?

Description	This query returns the rate of Frame Loss / Out-of-Sequence.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Stream > Frame Loss - Rate
	Navigation Path: Results > Streams > Frame Loss / Out-of-Sequence - Rate
	Navigation Path: Results > Service Performace > Frame Loss / Out-of-Sequence - Rate
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:RATE? <wsp><Stream/Service>, <Error>,[<Direction>]
Parameter(s)	**Stream/Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	For Traffic Gen & Mon, selects the stream number from 1 to 16.
	For EtherSAM, selects the service number from 1 to 10.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FLOSs: Frame Loss
	OUTSequence: Out-of-Seq.
	Direction:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the direction. For non-DTS use LTOR as direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	FETC:DATA:TEL:ETH:ERR:SAN:RATE? 1, FLOSs
See Also	FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:HISTory?

:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:SEConds?

Description	This query returns the Seconds of Frame Loss / Out-of-Sequence.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Stream > Frame Loss - Seconds
	Navigation Path: Results > Streams > Frame Loss / Out-of-Sequence - Seconds
	Navigation Path: Results > Service Performace > Frame Loss / Out-of-Sequence - Seconds
Syntax	:FETCh:DATA:TELecom:ETHernet:ERRor:SANalyzer:SEConds? <wsp><Stream/Service>, <Error>,[<Direction>]
Parameter(s)	**Stream/Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	For Traffic Gen & Mon, selects the stream number from 1 to 16.
	For EtherSAM, selects the service number from 1 to 10.
	Error:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FLOSs: Frame Loss
	OUTSequence: Out-of-Seq.
	Direction:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the direction. For non-DTS use LTOR as direction.
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds in error.
Example(s)	FETC:DATA:TEL:ETH:ERR:SAN:SEC? 1, FLOSs
See Also	FETCh:DATA:TELecom:EOTN:ERRor:PHYSical:COUNt?

:FETCh:DATA:TELecom:ETHernet:STReam:FLOSs:VERDict?

Description	This query returns the Frame Loss Count/Rate verdict status
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summmary > Stream > Frame Loss verdict
	Navigation Path: Results > Streams > Frame Loss / Out-of-Sequence > Frame Loss verdict
	Navigation Path: Results > Service Performace > Frame Loss verdict
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:FLOSs:VERDict? <wsp><Stream/Service>, <Type>,[<Direction>]
Parameter(s)	**Stream/Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	For Traffic Gen & Mon, selects the stream from 1 to 16.
	For EtherSAM, selects the Service number 1 to 10.
	Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Frameloss Type.
	COUNt
	RATE
	Direction:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	This parameter is optional
	Selects the direction
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<VERDICT Status>

:FETCh:DATA:TELecom:ETHernet:STReam:FLOSs:VERDict?

Response(s)	**VERDICT Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Frame Loss Verdict Status.
	PASS, verdict is Pass.
	FAIL, verdict is Fail.
Example(s)	FETC:DATA:TEL:ETH:STR:FLOS:VERD? 1, RATE
See Also	FETCh:DATA:TELecom:ETHernet:STReam:LATency:MAXimum:VERDict? 1

:FETCh:DATA:TELecom:ETHernet:STReam:OOSequence:VERDict?

Description	This query returns the Out Of Sequence Count/Rate verdict status
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Stream > Out-of-Sequence verdict
	Navigation Path: Results > Streams > Frame Loss / Out-of-Sequence > Out-of-Sequence verdict
	Navigation Path: Results > Service Performace > Out-of-Sequence verdict
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:OOSequence:VERDict? <wsp><Stream/Service>, <Type>,[<Direction>]
Parameter(s)	**Stream/Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	For Traffic Gen & Mon, selects the stream from 1 to 16.
	For EtherSAM, selects the Service number 1 to 10.
	Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Frameloss Type.
	COUNt
	RATE
	Direction:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	This parameter is optional
	Selects the direction
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
Response Syntax	<VERDICT Status>

:FETCh:DATA:TELecom:ETHernet:STReam:OOSequence:VERDict?

Response(s)	VERDICT Status: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns the Out Of Sequence Verdict Status. PASS, verdict is Pass. FAIL, verdict is Fail.
Example(s)	FETC:DATA:TEL:ETH:STR:OOS:VERD? 1, COUNt
See Also	FETCh:DATA:TELecom:ETHernet:STReam:THRoughput:AVERage:VERDict? 1

Quality Level (1588 PTP)

:FETCh:DATA:TELecom:PACKetsync:PTP:QL:MESSege:COUNt?

Description	This query returns the count of each Quality Level message
	Navigation Path: Results > Quality Level > count
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:QL:MESSege:COUNt? <wsp><Message Count>

:FETCh:DATA:TELecom:PACKetsync:PTP:QL:MESSege:COUNt ?

Parameter(s)	Message Count:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Configure an Expected Quality Level value.

QLPRS: QL-PRS (default) 80 Primary Reference Source Traceable (G.811)

QLSTUUNK: QL-STU/UNK 82 Synchronized

QLPRC: QL-PRC 84 Primary Reference Clock Traceable (G.811)

QLST2: QL-ST2 86 Traceable to Stratum 2 (G.812 Type II)

QLINV3: QL-INV3 88 Quality Level Invalid 3

QLSSUATNC:QL-SSU-A/TNC 90 Type I or V slave clock (G.812)

Traceable to Transit Node Clock (G.812 Type V)

QLINV5: QL-INV5 92 Quality Level Invalid 5

QLINV6: QL-INV6 94 Quality Level Invalid 6

QLSSUB: QL-SSU-B 96 Type VI slave clock (G.812)

QLINV9: QL-INV9 98 Quality Level Invalid 9

QLST3E: QL-ST3E 100 Traceable to Stratum 3E (G.812 Type III)

QLEEC2ST3: QL-EEC2/ST3 102 Ethernet

Traceable to Stratum 3 (G.812 Type IV)

QLEEC1SEC: QL-EEC1/SEC 104 Ethernet

Synchronous Equipment Clock (G.813 or G.8262, Option 1)

QLSMC: QL-SMC 106 Traceable to SONET Minimum Clock (G.813 or G.8262, Option 2)

QLPROV: QL-PROV 108 Provisionable by the Network Operator (PNO)

QLDNUDUS: QL-DNU/DUS 110 Do Not Use

Do Not Use for Synchronization

QLPRCPRS6: QL-PRC/PRS PRS traceable (Recommendation G.811).

QLPRCPRS7: QL-PRC/PRS PRS traceable (Recommendation G.811).

QLPRCPRS135: QL-PRC/PRS PRS traceable (Recommendation G.811).

QLPRCPRS140: QL-PRC/PRS PRS traceable (Recommendation G.811).

QLSSUAST2: QL-SSU-A/ST2 Traceable to Stratum 2 (Recommendation G.812, Type II).

QLSSUBST3E: QL-SSU-B/ST3E Traceable to Stratum 3E (Recommendation G.812, Type III).

QLSECEEC1ST3EEC2165: For use by alternate PTP profiles

QLSECEEC1ST3EEC2248: Default. This clockClass shall be used if none of the other clockClass definitions apply

QLSECEEC1ST3EEC2255: Shall be the clockClass of a slave-only clock

:FETCh:DATA:TELecom:PACKetsync:PTP:QL:MESSege:COUNt ?

Response Syntax	<Count>
Response(s)	**Count**: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the count of each Quality Level message
Example(s)	FETC:DATA:TEL:PACK:PTP:QL:MESS:COUN? QLPRC
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:SYNC:GRANt:COUNt?

:FETCh:DATA:TELecom:PACKetsync:PTP:QL:OTHer?

Description	This query returns the count of other values of Quality Level message.
	Navigation Path: Results > Quality Level > Other
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:QL:OTHer?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns count of other QL codes.
Example(s)	FETC:DATA:TEL:PACK:PTP:QL:OTH?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELay:RESPonse:GRANt:COUNt?

:FETCh:DATA:TELecom:PACKetsync:PTP:QL:TOTal?

Description	This query returns the total of Quality Level messages.
	Navigation Path: Results > Quality Level > Total
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:QL:TOTal?
Response Syntax	<Total>
Response(s)	**Total**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the total of Quality Level messages
Example(s)	FETC:DATA:TEL:PACK:PTP:QL:TOT?
See Also	FETCh:DATA:TELecom:PACKetsync:PTPStat:RX:DELay:RESPonse:COUNt?

Quality Level (SyncE)

:FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:RATE?

Description	This query returns the rate value of DCO/Media RX FEC error.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Alarms/Errors > DCO > Media RX FEC > Errors > Rate
Syntax	:FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:RATE? <wsp><Error>
Parameter(s)	**Error**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the error:
	FCBits: FEC Correctable Bits
	FUF: FEC Uncorrectable Frames
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR3 NUMERIC RESPONSE DATA> element.
	Returns the current error rate.
Example(s)	FETC:DATA:TEL:DCO:ERR:MED:RX:RATE? FUF
See Also	LINS:FETCh:DATA:TELecom:DCO:ERRor:MEDia:RX:COUNt?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:QLRX:EVENt?

Description	This query returns the RX Event
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test App > SyncE > Results > Quality Level > QL > RX Event
Syntax	:SENSe:DATA:TELecom:PACKetsync:SYNCe:QLRX:EVENt? <wsp><QLRX>
Parameter(s)	QLRX:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Configure an Expected Quality Level value.
	QLPRS: QL-PRS (default) 80 Primary Reference Source Traceable (G.811)
	QLSTUUNK: QL-STU/UNK 82 Synchronized
	QLPRC: QL-PRC 84 Primary Reference Clock Traceable (G.811)
	QLST2: QL-ST2 86 Traceable to Stratum 2 (G.812 Type II)
	QLINV3: QL-INV3 88 Quality Level Invalid 3
	QLSSUATNC: QL-SSU-A/TNC 90 Type I or V slave clock (G.812)
	Traceable to Transit Node Clock (G.812 Type V)
	QLINV5: QL-INV5 92 Quality Level Invalid 5
	QLINV6: QL-INV6 94 Quality Level Invalid 6
	QLSSUB: QL-SSU-B 96 Type VI slave clock (G.812)
	QLINV9: QL-INV9 98 Quality Level Invalid 9
	QLST3E: QL-ST3E 100 Traceable to Stratum 3E (G.812 Type III)
	QLEEC2ST3: QL-EEC2/ST3 102 Ethernet
	Traceable to Stratum 3 (G.812 Type IV)
	QLEEC1SEC: QL-EEC1/SEC 104 Ethernet
	Synchronous Equipment Clock (G.813 or G.8262, Option 1)
	QLSMC: QL-SMC 106 Traceable to SONET Minimum Clock (G.813 or G.8262, Option 2)
	QLPROV: QL-PROV 108 Provisionable by the Network Operator (PNO)
	QLDNUDUS: QL-DNU/DUS 110 Do Not Use
	Do Not Use for Synchronization
Response Syntax	<Event>

:SENSe:DATA:TELecom:PACKetsync:SYNCe:QLRX:EVENt?

Response(s)	**Event**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns RX Event
Example(s)	SENS:DATA:TEL:PACK:SYNC:QLRX:EVEN? QLSTUUNK
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:QLTX:EVENt?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:QLRX:INFormation?

Description	This query returns the RX Information
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test App > SyncE > Results > Quality Level > QL > RX Information
Syntax	:SENSe:DATA:TELecom:PACKetsync:SYNCe:QLRX:INFormation? <wsp><QLRX>
Parameter(s)	**QLRX**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Quality Level/PTP Clock Class
	QLPRS: QL-PRS (default) 80 Primary Reference Source Traceable (G.811)
	QLSTUUNK: QL-STU/UNK 82 Synchronized
	QLPRC: QL-PRC 84 Primary Reference Clock Traceable (G.811)
	QLST2: QL-ST2 86 Traceable to Stratum 2 (G.812 Type II)
	QLINV3: QL-INV3 88 Quality Level Invalid 3
	QLSSUATNC: QL-SSU-A/TNC 90 Type I or V slave clock (G.812)
	Traceable to Transit Node Clock (G.812 Type V)
	QLINV5: QL-INV5 92 Quality Level Invalid 5
	QLINV6: QL-INV6 94 Quality Level Invalid 6
	QLSSUB: QL-SSU-B 96 Type VI slave clock (G.812)
	QLINV9: QL-INV9 98 Quality Level Invalid 9
	QLST3E: QL-ST3E 100 Traceable to Stratum 3E (G.812 Type III)
	QLEEC2ST3: QL-EEC2/ST3 102 Ethernet
	Traceable to Stratum 3 (G.812 Type IV)
	QLEEC1SEC: QL-EEC1/SEC 104 Ethernet
	Synchronous Equipment Clock (G.813 or G.8262, Option 1)
	QLSMC: QL-SMC 106 Traceable to SONET Minimum Clock (G.813 or G.8262, Option 2)
	QLPROV: QL-PROV 108 Provisionable by the Network Operator (PNO)
	QLDNUDUS: QL-DNU/DUS 110 Do Not Use
	Do Not Use for Synchronization
Response Syntax	<Information>

:SENSe:DATA:TELecom:PACKetsync:SYNCe:QLRX:INFormation?

Response(s)	**Information**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns RX Information
Example(s)	SENS:DATA:TEL:PACK:SYNC:QLRX:INF? QLSTUUNK
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:QLTX:INFormation?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:QLTX:EVENt?

Description	This query returns the QLTX Event
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test App > SyncE > Results > Quality Level > QL > QLTX Event
Syntax	:SENSe:DATA:TELecom:PACKetsync:SYNCe:QLTX:EVENt? <wsp><QLTX>
Parameter(s)	QLTX:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Configure an Expected Quality Level value.
	QLPRS: QL-PRS (default) 80 Primary Reference Source Traceable (G.811)
	QLSTUUNK: QL-STU/UNK 82 Synchronized
	QLPRC: QL-PRC 84 Primary Reference Clock Traceable (G.811)
	QLST2: QL-ST2 86 Traceable to Stratum 2 (G.812 Type II)
	QLINV3: QL-INV3 88 Quality Level Invalid 3
	QLSSUATNC: QL-SSU-A/TNC 90 Type I or V slave clock (G.812)
	Traceable to Transit Node Clock (G.812 Type V)
	QLINV5: QL-INV5 92 Quality Level Invalid 5
	QLINV6: QL-INV6 94 Quality Level Invalid 6
	QLSSUB: QL-SSU-B 96 Type VI slave clock (G.812)
	QLINV9: QL-INV9 98 Quality Level Invalid 9
	QLST3E: QL-ST3E 100 Traceable to Stratum 3E (G.812 Type III)
	QLEEC2ST3: QL-EEC2/ST3 102 Ethernet
	Traceable to Stratum 3 (G.812 Type IV)
	QLEEC1SEC: QL-EEC1/SEC 104 Ethernet
	Synchronous Equipment Clock (G.813 or G.8262, Option 1)
	QLSMC: QL-SMC 106 Traceable to SONET Minimum Clock (G.813 or G.8262, Option 2)
	QLPROV: QL-PROV 108 Provisionable by the Network Operator (PNO)
	QLDNUDUS: QL-DNU/DUS 110 Do Not Use
	Do Not Use for Synchronization
Response Syntax	<Event>

:SENSe:DATA:TELecom:PACKetsync:SYNCe:QLTX:EVENt?

Response(s)	**Event**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns QLTX Event
Example(s)	SENS:DATA:TEL:PACK:SYNC:QLTX:EVEN? QLSTUUNK
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:QLRX:EVENt?

:SENSe:DATA:TELecom:PACKetsync:SYNCe:QLTX:INFormation?

Description	This query returns the QLTX Information
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Test App > SyncE > Results > Quality Level > QL > QLTX Information
Syntax	:SENSe:DATA:TELecom:PACKetsync:SYNCe:QLTX:INFormation? <wsp><QLTX>
Parameter(s)	**QLTX:**
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Quality Level/PTP Clock Class
	QLPRS: QL-PRS (default) 80 Primary Reference Source Traceable (G.811)
	QLSTUUNK: QL-STU/UNK 82 Synchronized
	QLPRC: QL-PRC 84 Primary Reference Clock Traceable (G.811)
	QLST2: QL-ST2 86 Traceable to Stratum 2 (G.812 Type II)
	QLINV3: QL-INV3 88 Quality Level Invalid 3
	QLSSUATNC: QL-SSU-A/TNC 90 Type I or V slave clock (G.812)
	Traceable to Transit Node Clock (G.812 Type V)
	QLINV5: QL-INV5 92 Quality Level Invalid 5
	QLINV6: QL-INV6 94 Quality Level Invalid 6
	QLSSUB: QL-SSU-B 96 Type VI slave clock (G.812)
	QLINV9: QL-INV9 98 Quality Level Invalid 9
	QLST3E: QL-ST3E 100 Traceable to Stratum 3E (G.812 Type III)
	QLEEC2ST3: QL-EEC2/ST3 102 Ethernet
	Traceable to Stratum 3 (G.812 Type IV)
	QLEEC1SEC: QL-EEC1/SEC 104 Ethernet
	Synchronous Equipment Clock (G.813 or G.8262, Option 1)
	QLSMC: QL-SMC 106 Traceable to SONET Minimum Clock (G.813 or G.8262, Option 2)
	QLPROV: QL-PROV 108 Provisionable by the Network Operator (PNO)
	QLDNUDUS: QL-DNU/DUS 110 Do Not Use
	Do Not Use for Synchronization
Response Syntax	<Information>

:SENSe:DATA:TELecom:PACKetsync:SYNCe:QLTX:INFormation?

Response(s)	**Information**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns QLTX Information
Example(s)	SENS:DATA:TEL:PACK:SYNC:QLTX:INF? QLSTUUNK
See Also	SENSe:DATA:TELecom:PACKetsync:SYNCe:QLRX:INFormation?

Service Configuration - Ramp

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:ARXRate:VERDict?

Description	This Query returns Ramp Test Avg. Rx Verdict
	Navigation Path: Setup > EtherSAM > Results > Service CONFig > Ramp > Committed Steps > Average RX Rate
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:ARXRate:VERDict? <wsp><Service>, <Direction>, <Step>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Step:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the step:
	1, 2, 3, 4, 5, 6, 7
	CIREIR: CIR+EIR
	TRAFFICPOLicing: Traffic Policing
Response Syntax	<Verdict>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:ARXRate:VERDict?

Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Verdict
	PASS, verdict is Pass.
	FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:ARXRate:VERDict? 1, LTOR,CIREIR
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:RTLatency:VERDict?

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:ARXRate?

Description	This Query returns Ramp Test Avg. Rx Rate
	Navigation Path: Setup > EtherSAM > Results > Service CONFig > Ramp > Committed Steps > Average RX Rate
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:ARXRate? <wsp><Service>, <Direction>, <Step>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:ARXRate?

Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Step:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Step.
	1
	2
	3
	4
	5
	6
	7
	CIR
	CIREIR
	TRAFFICPOLicing
Response Syntax	<Average RX Rate>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:ARXRate?

Response(s)	**Average RX Rate**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Ramp Test Avg. Rx Rate
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:ARXRate? 1, LTOR,1
See Also	FETCh:DATA:TELecom:ETH:ESAM:GLOB:TDURation:EST?

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:FLOSs :VERDict?

Description	This Query returns Ramp Test Frame Loss Verdict
	Navigation Path: Setup > EtherSAM > Results > Service CONFig > Ramp > Committed Steps > Frame Loss(%)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:FLOSs:VERDict? <wsp><Service>, <Direction>, <Step>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Step:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Step.
	1
	2
	3
	4
	5
	6
	7
	CIR

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:FLOSs :VERDict?

Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Verdict
	PASS, verdict is Pass.
	FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:FLOSs:VERDict? 1, LTOR,1
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:DEFault

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:FLOSs ?

Description	This Query returns Ramp Test Frame Loss Statistics
	Navigation Path: Setup > EtherSAM > Results > Service CONFig > Ramp > Committed Steps > Frame Loss(%)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:FLOSs? <wsp><Service>, <Direction>, <Step>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:FLOSs ?

Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Step:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Step.
	1
	2
	3
	4
	5
	6
	7
	CIR
	CIREIR
	TRAFFICPOLicing
Response Syntax	<Frame Loss>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:FLOSs ?

Response(s)	**Frame Loss**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Ramp Test Frame Loss Statistics
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:FLOSs? 1, LTOR,1
See Also	FETCh:DATA:TELecom:ETH:ESAM:BURSt:TOT?

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:MAXJitter:VERDict?

Description	This Query returns Ramp Test Max Jitter Verdict
	Navigation Path: Setup > EtherSAM > Results > Service CONFig > Ramp > Committed Steps > Max Jitter(ms)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:MAXJitter:VERDict? <wsp><Service>, <Direction>, <Step>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Step:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Step.
	1
	2
	3
	4
	5
	6
	7
	CIR

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:MAXJitter:VERDict?

Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Verdict
	PASS, verdict is Pass.
	FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:MAXJitter:VERDict? 1, LTOR,1
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:FLOSs:VERDict?

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:MAXJitter?

Description	This Query returns Ramp Test Max Jitter
	Navigation Path: Setup > EtherSAM > Results > Service CONFig > Ramp > Committed Steps > Max Jitter(ms)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:MAXJitter? <wsp><Service>, <Direction>, <Step>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:MAXJitter?

Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Step:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Step.
	1
	2
	3
	4
	5
	6
	7
	CIR
	CIREIR
	TRAFFICPOLicing
Response Syntax	<Max Jitter>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:MAXJitter?

Response(s)	**Max Jitter**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Ramp Test Max Jitter
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:MAXJitter? 1, LTOR,1
See Also	SOURce:DATA:TELecom:ETH:ESAM:GLOB:SPRTest:DUR

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:RTLatency:VERDict?

Description	This Query returns Ramp Test Round Trip Latency Verdict
	Navigation Path: Setup > EtherSAM > Results > Service CONFig > Ramp > Committed Steps > Round Trip Latency(ms)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:RTLatency:VERDict? <wsp><Service>, <Direction>, <Step>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Step:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Step.
	1
	2
	3
	4
	5
	6
	7
	CIR

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:RTLatency:VERDict?

Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Verdict
	PASS, verdict is Pass.
	FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:RTLatency:VERDict? 1, LTOR,1
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:MAXJitter:VERDict?

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:RTLatency?

Description	This Query returns Ramp Test Round Trip Latency
	Navigation Path: Setup > EtherSAM > Results > Service CONFig > Ramp > Committed Steps > Round Trip Latency(ms)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:RTLatency? <wsp><Service>, <Direction>, <Step>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:RTLatency?

Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Step:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Step.
	1
	2
	3
	4
	5
	6
	7
	CIR
	CIREIR
	TRAFFICPOLicing
Response Syntax	<Round Trip Latency>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:RTLatency?

Response(s)	**Round Trip Latency**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Ramp Test Round Trip Latency
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:RTLatency? 1, LTOR,1
See Also	SOURce:DATA:TELecom:ETH:ESAM:GLOB:SPRTest:DUR?

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:TXRate?

Description	This Query returns Ramp Test Tx rate
	Navigation Path: Setup > EtherSAM > Results > Service CONFig > Ramp > committed Steps > TX Rate(%)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:TXRate? <wsp><Service>, <Direction>, <Step>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:TXRate?

Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Step:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Step.
	1
	2
	3
	4
	5
	6
	7
	CIR
	CIREIR
	TRAFFICPOLicing
Response Syntax	<TX Rate>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:TXRate?

Response(s)	TX Rate:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Ramp Test Tx rate
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:RAMP:TXRate? 1, LTOR,1
See Also	FETCh:DATA:TELecom:ETH:ESAM:BURSt:TBURst:TIME?

Service Configuration - Burst

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:ARXRate:VERDict?

Description	This query returns Average Rx Rate Verdict.
	Navigation Path: Setup > EtherSAM > Results > Service CONFig > Burst > Committed(CBS) > Average RX Rate (%)
	Navigation Path: Setup > Ether SAM > Results > Service CONFig > Burst > Excess(EBS) > MAX RX Rate (%)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:ARXRate:VERDict? <wsp><Service>, <Direction>, <Burst Size Type>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Burst Size Type:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets Burst test type as EBS.
Response Syntax	<Verdict>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:ARXRate:VERDict?

Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Verdict
	PASS, verdict is Pass.
	FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:ARXRate:VERDict? 1, LTOR,EBS
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:TIMe

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:ARXRate?

Description	This query returns Average RX Rate statistics
	Navigation Path: Setup > EtherSAM > Results > Service CONFig > Burst > Committed(CBS) > Average RX Rate (%)
	Navigation Path: Setup > EtherSAM > Results > Service CONFig > Burst > Excess(EBS) > MAX RX Rate (%)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:ARXRate? <wsp><Service>, <Direction>, <Burst Size Type>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Burst Size Type:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the type of Burst.
	CBS
	EBS
Response Syntax	<Average RX Rate>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:ARXRate?

Response(s)	Average RX Rate:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Average RX Rate statistics
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:ARXRate? 1, LTOR,CBS
See Also	FETCh:DATA:TELecom:ETH:ESAM:BURSt:EBS:TIME?

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:FLOSs :VERDict?

Description	This query returns Burst Test Frame Loss verdict
	Navigation Path: Setup > EtherSAM > Results > Service CONFig > Burst > Committed(CBS) > Frame Loss(%)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:FLOSs:VERDict? <wsp><Service>, <Direction>, <Burst Size Type>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Burst Size Type:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets Burst test type as CBS.
Response Syntax	<Verdict>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:FLOSs :VERDict?

Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Verdict
	PASS, verdict is Pass.
	FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:FLOSs:VERDict? 1, LTOR,CBS
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:TESTs:VERDict?

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:FLOSs ?

Description	This query returns Frame Loss statistics
	Navigation Path: Setup > EtherSAM > Results > Service CONFig > Burst > Committed(CBS) > Frame Loss(%)
	Navigation Path: Setup > EtherSAM > Results > Service CONFig > Burst > Excess(EBS) > Frame Loss(%)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:FLOSs? <wsp><Service>, <Direction>, <Burst Size Type>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Burst Size Type:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the type of Burst.
	CBS
	EBS
Response Syntax	<Frame Loss>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:FLOSs ?

Response(s)	Frame Loss:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Frame Loss statistics
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:FLOSs? 1, LTOR,CBS
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:RAMP:STEP:TIMe?

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:MAXJitter:VERDict?

Description	This query returns Burst Tst Max Jitter Verdict
	Navigation Path: Setup > EtherSAM > Results > Service CONFig > Burst > Committed(CBS) > MAX Jitter(ms)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:MAXJitter:VERDict? <wsp><Service>, <Direction>, <Burst Size Type>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Burst Size Type:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets Burst test type as CBS.
Response Syntax	<Verdict>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:MAXJitter:VERDict?

Response(s)	Verdict:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Verdict
	PASS, verdict is Pass.
	FAIL, verdict is Fail.
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:MAXJitter:VERDict? 1, LTOR,CBS
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:VERDict?

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:MAXJitter?

Description	This query returns Max Jitter statistics
	Navigation Path: Setup > EtherSAM > Results > Service CONFig > Burst > Committed(CBS) > MAX Jitter(ms)
	Navigation Path: Setup > EtherSAM > Results > Service CONFig > Burst > Excess(EBS) > MAX Jitter(ms)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:MAXJitter? <wsp><Service>, <Direction>, <Burst Size Type>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Burst Size Type:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the type of Burst.
	CBS
	EBS
Response Syntax	<Max Jitter>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:MAXJitter?

Response(s)	**Max Jitter**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Max Jitter statistics
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:MAXJitter? 1, LTOR,CBS
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:RAMP:DURation?

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:RTLatency:VERDict?

Description	This query returns Burst Test Round Trip Latency Verdict
	Navigation Path: Setup > EtherSAM > Results > Service CONFig > Burst > Committed(CBS) > Round Trip Latency(ms)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:RTLatency:VERDict?
	<wsp><Service>, <Direction>, <Burst Size Type>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Burst Size Type:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets Burst test type as CBS.
Response Syntax	<Verdict>
Response(s)	**Verdict**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Burst Tst Max Jitter Verdict
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:RTLatency:VERDict? 1, LTOR,CBS
See Also	FETCh:DATA:TELecom:ETHernet:ESAM:SPRTest:VERDict? 1, LTOR

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:RTLatency?

Description	This query returns Round Trip Latency statistics
	Navigation Path: Setup > EtherSAM > Results > Service CONFig > Burst > Committed(CBS) > Round Trip Latency(ms)
	Navigation Path: Setup > EtherSAM > Results > Service CONFig > Burst > Excess(EBS) > Round Trip Latency(ms)
Syntax	:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:RTLatency? <wsp><Service>, <Direction>, <Burst Size Type>
Parameter(s)	**Service**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Service number 1 or 10.
	Direction:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Direction.
	(For DTS used both LTOR and RTOL as direction, For Non DTS use LTOR as direction and for Dual port topology use P1TOP2 and P2TOP1)
	LTORemote: Local to Remote
	RTOLocal: Remote to Local
	P1TOP2: P1 -TO-P2
	P2TOP1: P2 -TO-P1
	Burst Size Type:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the type of Burst.
	CBS
	EBS
Response Syntax	<Round Trip Latency>

:FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:RTLatency?

Response(s)	**Round Trip Latency**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Round Trip Latency statistics
Example(s)	FETCh:DATA:TELecom:ETHernet:ESAM:SCOTest:BURSt:RTLatency? 1, LTOR,CBS
See Also	FETCh:DATA:TELecom:ETH:ESAM:BURSt:CBS:TIME?

WIS

:SENSe:DATA:TELecom:ETHernet:WIS:PATH:LABel?

Description	This query returns the path signal label (C2) for WAN.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > WIS > Path Signal Label(C2) (10GEWAN)
Syntax	:SENSe:DATA:TELecom:ETHernet:WIS:PATH:LABel?
Response Syntax	<Label>
Response(s)	**Label**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the path signal label.
	UNEQUIPPED, Unequipped path signal label is selected.
	EQUIPPED, Equipped non-specific path signal label is selected.
	M10ETHERNET, 10 Gbps ethernet (IEEE 802.3) path signal label is selected.
	TSIGNAL, Test signal, ITU-T 0.181 specific mapping path signal label is selected.
Example(s)	SENS:DATA:TEL:ETH:WIS:PATH:LAB?
	Returns: EQUIPPED
See Also	SENSe:DATA:TELecom:ETHernet:WIS:PATH:LABel?

:SENSe:DATA:TELecom:ETHernet:WIS:TRACe?

Description	This query returns the path trace string for the WAN Interface Sublayer (WIS) operation.
	At *RST condition, ASCii is selected as the default type. The type length is device-dependent.
	Navigation Path: Results > WIS > J0/J1 Trace (10GEWAN)
Syntax	:SENSe:DATA:TELecom:ETHernet:WIS:TRACe? <wsp><Trace>
Parameter(s)	**Trace**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the trace.
	J0
	J1
Response Syntax	<String>
Response(s)	**String**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the string for the specific path trace.
Example(s)	SENS:DATA:TEL:ETH:WIS:TRAC? J1
	Returns: EXFO4GigE
See Also	SENSe:DATA:TELecom:ETHernet:WIS:TRACe?

Labels

:FETCh:DATA:TELecom:SDHSonet:HOP:PATH:LABel?

Description	This query returns the expected path signal label for the receiver of High Order Path (HOP).
	At *RST condition, the CONFig is set to a device-dependent value.
	Navigation Path: Test Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Test Configurator > Results > Traces > Sonet/SDH > Labels > STS Path/AU Path > Received
Syntax	:FETCh:DATA:TELecom:SDHSonet:HOP:PATH:LABel?
Response Syntax	<Label>
Response(s)	**Label**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the path signal label for the receiver.
Example(s)	FETC:DATA:TEL:SDHS:HOP:PATH:LAB?
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:PATH:LABel

:FETCh:DATA:TELecom:SDHSonet:LOP:PATH:LABel?

Description	This query returns the expected path signal label for receiver of Low Order Path (LOP).
	At *RST condition, the configuration is set to a device-dependent value.
	Navigation Path: Test Setup > SONET/SDH BERT > Test Configurator > Results > Labels > VT Path/TU Path > Received
Syntax	:FETCh:DATA:TELecom:SDHSonet:LOP:PATH:LABel?
Response Syntax	<Label>
Response(s)	**Label**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the path signal label for the receiver.
Example(s)	SOUR:DATA:TEL:SDHS:LOP:PATH:LAB EQU
	FETC:DATA:TEL:SDHS:LOP:PATH:LAB?
See Also	SOURce:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel?

:FETCh:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel?

Description	This query returns the expected path signal label for receiver of Low Order Path (LOP-TU3).
	At *RST condition, the configuration is set to a device-dependent value.
	Navigation Path: Test Setup > SONET/SDH BERT > Test Configurator > Results > Labels > VT Path/TU Path > Received
Syntax	:FETCh:DATA:TELecom:SDHSonet:LOPTu:PATH:LABel?
Response Syntax	<Label>
Response(s)	**Label**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the path signal label for the receiver.
Example(s)	SOUR:DATA:TEL:SDHS:LOPT:PATH:LAB EQU
	FETC:DATA:TEL:SDHS:LOPT:PATH:LAB?
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:PATH:LABel?

PTP Stats

:FETCh:DATA:TELecom:PACKetsync:PTP:IPDV:AVERage?

Description	This query returns the Current Inter Packet Delay Variation IPDV Statistics (Sync,Delay Request).
	Navigation Path: Results > PTP Stats > IPDV > Average(ms)
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:IPDV:AVERage? <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Delay Measurement for SyncIPDV OR Delay Request IPDV.
	SYNCIPDV
	DELAYREQIPDV
Response Syntax	<Average>
Response(s)	**Average**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Current Inter Packet Delay Variation IPDV Statistics.
Example(s)	FETC:DATA:TEL:PACK:PTP:IPDV:AVER? DELAYREQIPDV
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:TX:SYNC:REQUest:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:IPDV:CURRent?

Description	This query returns the Current Inter Packet Delay Variation IPDV Statistics (Sync,Delay Request).
	Navigation Path: Results > PTP Stats > IPDV > Currunt(ms)
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:IPDV:CURRent? <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Delay Measurement for SyncIPDV OR Delay Request IPDV.
	SYNCIPDV
	DELAYREQIPDV
Response Syntax	<Current>
Response(s)	**Current**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns Current Inter Packet Delay Variation IPDV Statistics.
Example(s)	FETC:DATA:TEL:PACK:PTP:IPDV:CURR? DELAYREQIPDV
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:TX:ANNounce:REQUest:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:IPDV:MAXimum:VERDict?

Description	This query returns the Status of IPDV Maximum Sync/Delay Req Verdict.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > 1588PTP > Results > PTP Stats > IPDV > Maximum
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:IPDV:MAXimum:VERDict? <wsp><TYPE>
Parameter(s)	**TYPE**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects IPDV Type.
	SYNCIPDV: IPDV Type
	DELAYREQIPDV: IPDV Type
Response Syntax	<Verdict Status>
Response(s)	**Verdict Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Status of IPDV Maximum Sync/Delay Req Verdict
Example(s)	FETCh:DATA:TEL:PACK:PTP:IPDV:MAX:VERDict? DELAYREQIPDV
See Also	SOURce:DATA:TELecom:PACKetsync:PTP:IPDV:THReshold?

:FETCh:DATA:TELecom:PACKetsync:PTP:IPDV:MAXimum?

Description	This query returns the Maximum Inter Packet Delay Variation IPDV Statistics (Sync,Delay Request). Navigation Path: Results > PTP Stats > IPDV > Maximum(ms)
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:IPDV:MAXimum? <wsp><Message>
Parameter(s)	**Message**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Delay Measurement for SyncIPDV OR Delay Request IPDV. SYNCIPDV DELAYREQIPDV
Response Syntax	<Maximum>
Response(s)	**Maximum**: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Maximum Inter Packet Delay Variation IPDV Statistics.
Example(s)	FETC:DATA:TEL:PACK:PTP:IPDV:MAX? DELAYREQIPDV
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELay:REQUest:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:IPDV:MINimum?

Description	This query returns the Minimum Inter Packet Delay Variation IPDV Statistics (Sync,Delay Request).
	Navigation Path: Results > PTP Stats > IPDV > Minimum(ms)
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:IPDV:MINimum? <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Delay Measurement for SyncIPDV OR Delay Request IPDV.
	SYNCIPDV
	DELAYREQIPDV
Response Syntax	<Minimum>
Response(s)	**Minimum**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Minimum Inter Packet Delay Variation IPDV Statistics.
Example(s)	FETC:DATA:TEL:PACK:PTP:IPDV:MIN? DELAYREQIPDV
See Also	FETCH:DATA:TELecom:PACKetsync:PTP:TX:DELay:REQUest:RESPonse:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:IPDV:STDDev?

Description	This query returns the Standard Deviation Inter Packet Delay Variation IPDV Statistics (Sync,Delay Request)
	Navigation Path: Results > PTP Stats > IPDV > Standard Daviation(ms)
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:IPDV:STDDev? <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Delay Measurement for SyncIPDV OR Delay Request IPDV
	SYNCIPDV
	DELAYREQIPDV
Response Syntax	<STDDev>
Response(s)	**STDDev**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Standard Deviation Inter Packet Delay Variation IPDV Statistics
Example(s)	FETC:DATA:TEL:PACK:PTP:IPDV:STDD? DELAYREQIPDV
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANt:COUNt?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:COUNt?

Description	This query returns count of announce messages sent by the Master Clock.
	Navigation Path: Results > PTP Stats > Count/Rate > Rx > Announce > Count
	Navigation Path: Results > Quality Level > Total
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:COUNt?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns count of announce messages sent by the Master Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:ANN:COUN?
See Also	FETCH:DATA:TELecom:PACKetsync:PTP:GMINfo:CLOCk:CLASs?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANt:COUNt?

Description	This query returns count of announce grant messages sent by the Master Clock
	Navigation Path: Results > PTP Stats > Count/Rate > Rx > Signaling Announce Grant > Count
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANt:COUNt?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns count of announce grant messages sent by the Master Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:ANN:GRAN:COUN?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:HISTory?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?

Description	This query returns rate of announce grant messages sent by the Master Clock.
	Navigation Path: Results > PTP Stats > Count/Rate > Rx > Signaling Announce Grant > rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:GRANt:RATE?
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns rate of announce grant messages sent by the Master Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:ANN:GRAN:RATE?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:QL:LAST:CHANge?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:RATE?

Description	This query returns rate of announce messages sent by the Master Clock.
	Navigation Path: Results > PTP Stats > Count/Rate > Rx > Announce > rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:RATE?
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns rate of announce messages sent by the Master Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:ANN:RATE?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:TX:SYNC:REQUest:COUNt?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELay:RESPonse: COUNt?

Description	This query returns count of delay response messages sent by the master Clock
	Navigation Path: Results > PTP Stats > Count/Rate > Rx > Delay Resp > Count
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELay:RESPonse:COUNt?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns count of delay response messages sent by the master Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:DEL:RESP:COUN?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:FOLLowup:COUNt?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELay:RESPonse:GRANt:COUNt?

Description	This query returns count of delay response grant messages sent by the Master Clock
	Navigation Path: Results > PTP Stats > Count/Rate > Rx > Signaling Delay Resp Grant > count
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELay:RESPonse:GRANt:COUNt?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns count of delay response grant messages sent by the Master Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:DEL:RESP:GRAN:COUN?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:SECond?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELay:RESPonse: GRANt:RATE?

Description	This query returns rate of delay response grant messages sent by the Master Clock.
	Navigation Path: Results > PTP Stats > Count/Rate > Rx > Signaling Delay Resp Grant > rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELay:RESPonse:GRANt:RATE?
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns rate of delay response grant messages sent by the Master Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:DEL:RESP:GRAN:RATE?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:TX:MESSages:COUNt?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELay:RESPonse: RATE?

Description	This query returns rate of delay response messages sent by the master Clock.
	Navigation Path: Results > PTP Stats > Count/Rate > Rx > Delay Resp > rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELay:RESPonse:RATE?
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns rate of delay response messages sent by the master Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:DEL:RESP:RATE?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:TX:ANNounce:REQUest:COUNt?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:FOLLowup:COUNt?

Description	This query returns count of Follow up messages sent by the Master Clock.
	Navigation Path: Results > PTP Stats > Count/Rate > Rx > Follow Up > count
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:FOLLowup:COUNt?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	returns count of Follow up messages sent by the Master Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:FOLL:COUN?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:IPDV?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:FOLLowup:RATE?

Description	This query returns rate of Follow up messages sent by the Master Clock.
	Navigation Path: Results > PTP Stats > Count/Rate > Rx > Follow Up > Rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:FOLLowup:RATE?
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns rate of Follow up messages sent by the Master Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:FOLL:RATE?
See Also	FETCh:DATA:TELecom:PACKetsync:PTPStat:RX:FOLLowup:COUNt?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:SYNC:COUNt?

Description	This query returns count of Sync messages sent by the Master Clock.
	Navigation Path: Results > PTP Stats > Count/Rate > Rx > Sync > count
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:SYNC:COUNt?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns count of Sync messages sent by the Master Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:SYNC:COUN?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:GMINfo:CLOCk:MODe?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:SYNC:GRANt:COUNt?

Description	This query returns count of Sync grant messages sent by the Master Clock
	Navigation Path: Results > PTP Stats > Count/Rate > Rx > Signaling Sync Grant > count
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:SYNC:GRANt:COUNt?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns count of Sync grant messages sent by the Master Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:SYNC:GRAN:COUN?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:ALARm:CURRent?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:SYNC:GRANt:RATE?

Description	This query returns rate of Sync grant messages sent by the Master Clock.
	Navigation Path: Results > PTP Stats > Count/Rate > Rx > Signaling Sync Grant > rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:SYNC:GRANt:RATE?
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns rate of Sync grant messages sent by the Master Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:SYNC:GRAN:RATE?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:MESSages:COUNt?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:SYNC:RATE?

Description	This query returns rate of Sync messages sent by the Master Clock.
	Navigation Path: Results > PTP Stats > Count/Rate > Rx > Sync > rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:SYNC:RATE?
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns rate of Sync messages sent by the Master Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:SYNC:RATE?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELay:REQUest:RESPonse:COUNt?

:FETCh:DATA:TELecom:PACKetsync:PTP:RX:TOTal:COUNt?

Description	This query returns Total of all types messages sent by the Master Clock.
	Navigation Path: Results > PTP Stats > Count/Rate > Rx > Total
	Navigation Path: Results > Summary > Total PTP Messages > RX
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:RX:TOTal:COUNt?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns Total of all types messages sent by the Master Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:RX:TOT:COUN?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:QL:LAST:RECeived?

:FETCh:DATA:TELecom:PACKetsync:PTP:TX:ANNounce:REQuest:COUNt?

Description	This query returns count of announce messages sent by the Slave Clock
	Navigation Path: Results > PTP Stats > Count/Rate > Tx > Signaling Announce Req > Count
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:TX:ANNounce:REQuest:COUNt?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns count of announce messages sent by the Slave Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:ANN:REQ:COUN?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:QL:MESSege:COUNt?

:FETCh:DATA:TELecom:PACKetsync:PTP:TX:ANNounce:REQuest:RATE?

Description	This query returns rate of announce messages sent by the Slave Clock.
	Navigation Path: Results > PTP Stats > Count/Rate > Tx > Signaling Announce Req > Rate(messages/s)
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:TX:ANNounce:REQuest:RATE?
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns rate of announce messages sent by the Slave Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:ANN:REQ:RATE?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:ANNounce:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELay:REQuest:COUNt?

Description	This query returns count of delay request messages sent by the Slave Clock
	Navigation Path: Results > PTP Stats > Count/Rate > Tx > Delay Req > Count
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELay:REQuest:COUNt?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the count of delay request messages sent by the Slave Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:DEL:REQ:COUN?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELay:RESPonse:GRANt:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELay:REQuest:RATE?

Description	This query returns rate of delay request messages sent by the Slave Clock.
	Navigation Path: Results > PTP Stats > Count/Rate > Tx > Delay Req > Rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELay:REQuest:RATE?
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns rate of delay request messages sent by the Slave Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:DEL:REQ:RATE?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:FOLLowup:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELay:REQuest:RESPonse:COUNt?

Description	This query returns count of delay responce messages sent by the Slave Clock
	Navigation Path: Results > PTP Stats > Count/Rate > Tx > Signaling Delay Resp Req > count
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELay:REQuest:RESPonse:COUNt?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns count of delay resp-req messages sent by the Slave Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:DEL:REQ:RESP:COUN?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELay:RESPonse:COUNt?

:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELay:REQuest:RESPonse:RATE?

Description	This query returns rate of delay response messages sent by the Slave Clock.
	Navigation Path: Results > PTP Stats > Count/Rate > Tx > Signaling Delay Resp Req > rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:TX:DELay:REQuest:RESPonse:RATE?
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns rate of delay responce messages sent by the Slave Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:DEL:REQ:RESP:RATE?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:DELay:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:TX:SYNC:REQuest:COUNt?

Description	This query returns count of Sync messages sent by the Slave Clock
	Navigation Path: Results > PTP Stats > Count/Rate > Tx > Signaling Sync Req > count
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:TX:SYNC:REQuest:COUNt?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns count of Sync messages sent by the Slave Clock
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:SYNC:REQ:COUN?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:QL:OTHer?

:FETCh:DATA:TELecom:PACKetsync:PTP:TX:SYNC:REQuest:RATE?

Description	This query returns rate of Sync messages sent by the Slave Clock.
	Navigation Path: Results > PTP Stats > Count/Rate > Tx > Signaling Sync Req > rate
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:TX:SYNC:REQuest:RATE?
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns rate of Sync messages sent by the Slave Clock.
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:SYNC:REQ:RATE?
See Also	FETCh:DATA:TELecom:PACKetsync:PTP:RX:SYNC:RATE?

:FETCh:DATA:TELecom:PACKetsync:PTP:TX:TOTal:COUNt?

Description	This query returns count of all messages by which service being requested.
	Navigation Path: Results > PTP Stats > Count/Rate > Tx > Total
Syntax	:FETCh:DATA:TELecom:PACKetsync:PTP:TX:TOTal:COUNt?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns count of all messages by which service being requested.
Example(s)	FETC:DATA:TEL:PACK:PTP:TX:TOT:COUN?
See Also	FETCh:DATA:TELecom:PACKetsync:PTPStat:RX:DELay:RESPonse:RATE?

FEC Statistics

:FETCh:DATA:TELecom:ETHernet:FEC:CODeword:CORRectable:PERCent?

Description	This query returns the correctable codeword percentage per symber error of FEC statistics. At *RST condition, this value is set to device-dependent. Navigation Path: Results > FEC Statistics > Symbol Error per Correctable Codeword > %
Syntax	:FETCh:DATA:TELecom:ETHernet:FEC:CODeword:CORRectable:PERCent? <wsp><Symbol>
Parameter(s)	**Symbol**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the number of symbols.
Response Syntax	<Percent>
Response(s)	**Percent**: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. Returns the codeword percent for the number of symbols.
Example(s)	FETC:DATA:TEL:ETH:FEC:COD:CORR:PERC? 1
See Also	FETCh:DATA:TELecom:FOTN:FEC:ERRor:COUNt?

:FETCh:DATA:TELecom:ETHernet:FEC:CODeword:CORRectable?

Description	This query returns the correctable codeword count per symber error of FEC statistics.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > FEC Statistics > Symbol Error per Correctable Codeword
Syntax	:FETCh:DATA:TELecom:ETHernet:FEC:CODeword:CORRectable? <wsp><Symbol>
Parameter(s)	**Symbol**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the number of symbols.
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the codeword count for the number of symbols.
Example(s)	FETC:DATA:TEL:ETH:FEC:COD:CORR? 1
See Also	FETCh:DATA:TELecom:FOTN:FEC:ERRor:COUNt?

:FETCh:DATA:TELecom:ETHernet:FEC:CODeword:EFRee:PERCent?

Description	This query returns the error-free codeword percentage of FEC statistics.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > FEC Statistics > Other Statistics > Error-free Codeword > %
Syntax	:FETCh:DATA:TELecom:ETHernet:FEC:CODeword:EFRee:PERCent?
Response Syntax	<Percent>
Response(s)	**Percent**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the codeword percent for error-free codeword.
Example(s)	FETC:DATA:TEL:ETH:FEC:COD:EFR:PERC?
See Also	FETCh:DATA:TELecom:FOTN:FEC:ERRor:COUNt?

:FETCh:DATA:TELecom:ETHernet:FEC:CODeword:EFRee?

Description	This query returns the error-free codeword count of FEC statistics.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > FEC Statistics > Other Statistics > Error-free Codeword
Syntax	:FETCh:DATA:TELecom:ETHernet:FEC:CODeword:EFRee?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the error-free codeword count.
Example(s)	FETC:DATA:TEL:ETH:FEC:COD:EFR?
See Also	FETCh:DATA:TELecom:FOTN:FEC:ERRor:COUNt?

:FETCh:DATA:TELecom:ETHernet:FEC:CODeword:UNCorrectable:PERCent?

Description	This query returns the uncorrectable codeword percentage of FEC statistics.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > FEC Statistics > Other Statistics > Uncorrectable Codeword > %
Syntax	:FETCh:DATA:TELecom:ETHernet:FEC:CODeword:UNCorrectable:PERCent?
Response Syntax	<Percent>
Response(s)	**Percent**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the codeword percent for uncorrectable codeword.
Example(s)	FETC:DATA:TEL:ETH:FEC:COD:UNC:PERC?
See Also	FETCh:DATA:TELecom:FOTN:FEC:ERRor:COUNt?

:FETCh:DATA:TELecom:ETHernet:FEC:CODeword:UNCorrectable?

Description	This query returns the uncorrectable codeword count of FEC Statistics.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > FEC Statistics > Other Statistics > Uncorrectable Codeword > Codeword Count
Syntax	:FETCh:DATA:TELecom:ETHernet:FEC:CODeword:UNCorrectable?
Response Syntax	<Count>
Response(s)	Count:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the uncorrectable error codeword count.
Example(s)	LINS0:FETC:DATA:TEL:ETH:FEC:COD:UNC?
See Also	FETCh:DATA:TELecom:ETHernet:FEC:CODeword:UNCorrectable:PERCent?

MPLS

:FETCh:DATA:TELecom:ETHernet:STReam:MPLS:FRAMes:RX?

Description	This query returns the label value (RX) for stream.
	Navigation Path: Results > Streams > MPLS > Stream > Lable1 /Label 2 RX
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:MPLS:FRAMes:RX? <wsp><Stream>, <Label Index>
Parameter(s)	**Stream**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream number: 1 to 16
	Label Index:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Label Index.
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the count of RX frames.
Example(s)	FETC:DATA:TEL:ETH:STR:MPLS:FRAM:RX? 1,1
See Also	SENSe:DATA:TELecom:ETHernet:STReam:MPLS:RX:COUNt?

:FETCh:DATA:TELecom:ETHernet:STRem:MPLS:FRAMes:TX?

Description	This query returns the label value (TX) for stream.
	Navigation Path: Results > Streams > MPLS > Stream > Lable1 /Lable 2 TX
Syntax	:FETCh:DATA:TELecom:ETHernet:STReam:MPLS:FRAMes:TX? <wsp><Number>, <Label Index>
Parameter(s)	**Number**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the stream number: 1 to 16
	Label Index:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Label Index.
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the count of TX frames.
Example(s)	FETC:DATA:TEL:ETH:STR:MPLS:FRAM:TX? 1,1
See Also	SENSe:DATA:TELecom:ETHernet:STReam:MPLS:TX:COUNt?

:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:RX:BANDwidth?

Description	This query returns the frame bandwidth of Multi Protocol Label Switching (MPLS) in megabits per second.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Streams > MPLS > Total RX MPLS > Ethernet BW(%)
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:RX:BANDwidth?
Response Syntax	<Bandwidth>
Response(s)	**Bandwidth**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the ethernet bandwidth(RX).
Example(s)	SOUR:DATA:TEL:ETH:PORT:MPLS ON
	SENS:DATA:TEL:ETH:STR:MPLS:RX:BAND?
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MPLS:TTL

:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:RX:COUNt?

Description	This query returns total of all Multi Protocol Label Switching (MPLS) received valid and invalid frames.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Streams > MPLS > Total RX MPLS > Frame Count
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:RX:COUNt?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count all received valid and invalid frames (RX).
Example(s)	SOUR:DATA:TEL:ETH:PORT:MPLS ON
	SENS:DATA:TEL:ETH:STR:MPLS:RX:COUN?
See Also	SOURce:DATA:TELecom:ELECtrical:STReam:MPLS:LABel

:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:RX:RATE?

Description	This query returns the Multi Protocol Label Switching (MPLS) frame rate in frame per second.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Streams > MPLS > Total RX MPLS > Frame Rate (Frame/s)
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:RX:RATE?
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the frame rate(RX).
Example(s)	SOUR:DATA:TEL:ETH:PORT:MPLS ON
	SENS:DATA:TEL:ETH:STR:MPLS:RX:RATE?
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MPLS:TTL?

:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:RX:UTILizati on?

Description	This query returns the Multi Protocol Label Switching (MPLS) frame utilization in percentage.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > Traffic Gen and Mon/EtherSAM > Results > Streams > MPLS > Total RX MPLS > Line Utilization(%)
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:RX:UTILization?
Response Syntax	<Utilization>
Response(s)	**Utilization**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the frame utilization(RX).
Example(s)	SOUR:DATA:TEL:ETH:PORT:MPLS ON
	SENS:DATA:TEL:ETH:STR:MPLS:RX:UTIL?
See Also	SOURce:DATA:TELecom:ETHernet:MPLS:HEADers

:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:TX:BANDwidth?

Description	This query returns the frame bandwidth of Multi Protocol Label Switching (MPLS) in megabits per second.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > Traffic Gen and Mon/EtherSAM > Results > Streams > MPLS > Total TX MPLS > Ethernet BW(%)
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:TX:BANDwidth?
Response Syntax	<Bandwidth>
Response(s)	**Bandwidth**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the ethernet bandwidth (TX).
Example(s)	SOUR:DATA:TEL:ETH:PORT:MPLS ON
	SENS:DATA:TEL:ETH:STR:MPLS:TX:BAND?
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MPLS:COSexp?

:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:TX:COUNt?

Description	This query returns total of all Multi Protocol Label Switching (MPLS) received valid and invalid frames.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > Traffic Gen and Mon/EtherSAM > Results > Streams > MPLS > Total TX MPLS > Frame Count
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:TX:COUNt?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of all received valid and invalid frames (TX).
Example(s)	SOUR:DATA:TEL:ETH:PORT:MPLS ON
	SENS:DATA:TEL:ETH:STR:MPLS:TX:COUN?
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MPLS:TTL

:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:TX:RATE?

Description	This query returns the Multi Protocol Label Switching (MPLS) frame rate in frame per second.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > Traffic Gen and Mon/EtherSAM > Results > Streams > MPLS > Total TX MPLS > Frame Rate (Frame/s)
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:TX:RATE?
Response Syntax	<Rate>
Response(s)	**Rate**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the frame rate (TX).
Example(s)	SOUR:DATA:TEL:ETH:PORT:MPLS ON
	SENS:DATA:TEL:ETH:STR:MPLS:TX:RATE?
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MPLS:COSexp

:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:TX:UTILization?

Description	This query returns the Multi Protocol Label Switching (MPLS) frame utilization in percentage.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > Traffic Gen and Mon/EtherSAM > Results > Streams > MPLS > Total TX MPLS > Line Utilization(%)
Syntax	:SENSe:DATA:TELecom:ETHernet:STReam:MPLS:TX:UTILization?
Response Syntax	<Utilization>
Response(s)	**Utilization**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the frame utilization (TX).
Example(s)	SOUR:DATA:TEL:ETH:PORT:MPLS ON
	SENS:DATA:TEL:ETH:STR:MPLS:TX:UTIL?
See Also	SOURce:DATA:TELecom:ETHernet:STReam:MPLS:TTL?

S-OAM and MPLS-TP OAM

:FETCh:DATA:TELecom:SOAM:FDELay:AVERage:DELay?

Description	This query returns the S-OAM Traffic Monitoring Statistics Average Delay.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Frame Delay > Average > Delay
	Navigation Path: Results > S-OAM > Frame Delay > Average > Delay
Syntax	:FETCh:DATA:TELecom:SOAM:FDELay:AVERage:DELay?
Response Syntax	<Value>
Response(s)	Value:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Frame delay average Count.
Example(s)	FETC:DATA:TEL:SOAM:FDELay:AVERage:DELay?
See Also	FETCh:DATA:TELecom:SOAM:TEST:STATus?

:FETCh:DATA:TELecom:SOAM:FDELay:CURRent:DELay?

Description	This query returns the S-OAM Traffic Monitoring Statistics Current Delay.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Frame Delay > Current > Delay
	Navigation Path: Results > S-OAM > Frame Delay > Current > Delay
Syntax	:FETCh:DATA:TELecom:SOAM:FDELay:CURRent:DELay?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Frame delay current Count.
Example(s)	FETC:DATA:TEL:SOAM:FDELay:CURRent:DELay?
See Also	FETCh:DATA:TELecom:SOAM:LOOPback:INValid:PAYLoad:COUNt?

:FETCh:DATA:TELecom:SOAM:FDELay:FAILed:COUNt:VERDict?

Description	This query returns the S-OAM Traffic Monitoring Statistics Fail Count Pass/Fail Verdict.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > S-OAM > Frame Delay > Failed > Count > Pass/Fail Verdict
	Navigation Path: Results > Summary > Results Summary > Frame Delay Measurement > Failed > Pass/Fail Verdict
Syntax	:FETCh:DATA:TELecom:SOAM:FDELay:FAILed:COUNt:VERDict?
Response Syntax	<Frame Delay Failed Count VERDICT>
Response(s)	**Frame Delay Failed Count VERDICT**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns Frame Delay Failed Count verdict status.
	Pass
	Fail
Example(s)	FETC:DATA:TEL:SOAM:FDELay:FAILed:COUNt:VERD?
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:PERcent:VERD?

:FETCh:DATA:TELecom:SOAM:FDELay:FAILed:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics Fail Count.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > S-OAM > Frame Delay > Failed > Count
Syntax	:FETCh:DATA:TELecom:SOAM:FDELay:FAILed:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Frame delay failed Count.
Example(s)	FETC:DATA:TEL:SOAM:FDELay:FAILed:COUNt?
See Also	FETCh:DATA:TELecom:SOAM:LOOPback:LBR:TIMeout:COUNt?

:FETCh:DATA:TELecom:SOAM:FDELay:INValid:DMR:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics Invalid DMR Count.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Frame Delay > Invalid DMR > Count
	Navigation Path: Results > S-OAM > Frame Delay > Invalid DMR > Count
Syntax	:FETCh:DATA:TELecom:SOAM:FDELay:INValid:DMR:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Frame delay Invalid DMR Count.
Example(s)	FETC:DATA:TEL:SOAM:FDELay:INValid:DMR:COUNt?
See Also	FETCh:DATA:TELecom:SOAM:LOOPback:TX:LBM:COUNt?

:FETCh:DATA:TELecom:SOAM:FDELay:MAXimum:DELay:VERDict?

Description	This query returns the S-OAM Traffic Monitoring Statistics Maximum Delay Pass/Fail Verdict.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Frame Delay > Maximum > Delay > Pass/Fail Verdict
	Navigation Path: Results > S-OAM > Frame Delay > Maximum > Delay
	Navigation Path: Results > Summary > Results Summary > Frame Delay(ms)(Maximum) > Results > Pass/Fail Verdict
Syntax	:FETCh:DATA:TELecom:SOAM:FDELay:MAXimum:DELay:VERDict?
Response Syntax	<Frame Delay Maximum Delay VERDICT>
Response(s)	**Frame Delay Maximum Delay VERDICT**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns Frame Delay Maximum Delay verdict status.
	Pass
	Fail
Example(s)	FETC:DATA:TEL:SOAM:FDELay:MAXimum:DELay:VERD?
See Also	FETCh:DATA:TELecom:SOAM:LOOPback:STATus:VERD?

:FETCh:DATA:TELecom:SOAM:FDELay:MAXimum:DELay?

Description	This query returns the S-OAM Traffic Monitoring Statistics Maximum Delay.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Frame Delay > Maximum > Delay
	Navigation Path: Results > S-OAM > Frame Delay > Maximum > Delay
Syntax	:FETCh:DATA:TELecom:SOAM:FDELay:MAXimum:DELay?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Frame delay maximum Count.
Example(s)	FETC:DATA:TEL:SOAM:FDELay:MAXimum:DELay?
See Also	FETCh:DATA:TELecom:SOAM:LOOPback:FAILed:COUNt?

:FETCh:DATA:TELecom:SOAM:FDELay:MINimum:DELay?

Description	This query returns the S-OAM Traffic Monitoring Statistics Minimum Delay.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Frame Delay > Minimum > Delay
	Navigation Path: Results > S-OAM > Frame Delay > Minimum > Delay
Syntax	:FETCh:DATA:TELecom:SOAM:FDELay:MINimum:DELay?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Frame delay minimum Count.
Example(s)	FETC:DATA:TEL:SOAM:FDELay:MINimum:DELay?
See Also	FETCh:DATA:TELecom:SOAM:LOOPback:SUCessful:COUNt?

:FETCh:DATA:TELecom:SOAM:FDELay:RX:DMR:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics RX DMR Count.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Frame Delay > RX DMR > Count
	Navigation Path: Results > S-OAM > Frame Delay > RX DMR > Count
Syntax	:FETCh:DATA:TELecom:SOAM:FDELay:RX:DMR:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Frame delay Rx DMR Count.
Example(s)	FETC:DATA:TEL:SOAM:FDELay:RX:DMR:COUNt?
See Also	FETCh:DATA:TELecom:SOAM:LOOPback:STATus?

:FETCh:DATA:TELecom:SOAM:FDELay:STATus:VERDict?

Description	This query returns the Frame Delay function shall report a Test Status Pass/Fail Verdict.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Frame Delay > Status > Pass/Fail Verdict
	Navigation Path: Results > S-OAM > Frame Delay > Status
Syntax	:FETCh:DATA:TELecom:SOAM:FDELay:STATus:VERDict?
Response Syntax	\<Frame Delay Status VERDICT\>
Response(s)	**Frame Delay Status VERDICT**:
	The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA\> element.
	Returns Frame Delay Status verdict status.
	PASS,PASS as Delay Status verdict status is returned.
	FAIL,FAIL as Delay Status verdict status is returned.
Example(s)	FETC:DATA:TEL:SOAM:FDELay:STATus:VERD?
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:FAILed:COUNt:VERD?

:FETCh:DATA:TELecom:SOAM:FDELay:STATus?

Description	This query returns the Frame Delay function shall report a Test Status.
	At *RST condition, this value is Idle, In Progress, Completed, Aborted.
	Navigation Path: Results > Summary > Frame Delay > Status
	Navigation Path: Results > S-OAM > Frame Delay > Status
Syntax	:FETCh:DATA:TELecom:SOAM:FDELay:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Frame delay function running status.
	IDLE, selected status as IDLE
	INPROGRESS, selected status as INPROGRESS
	COMPLETED, selected status as COMPLETED
	ABORTED, selected status as ABORTED
Example(s)	FETC:DATA:TEL:SOAM:FDELay:STATus?
See Also	FETCh:DATA:TELecom:SOAM:LOOPback:INValid:LBR:COUNt?

:FETCh:DATA:TELecom:SOAM:FDELay:SUCCessful:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics Successful Count.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > S-OAM > Frame Delay > Successful > Count
Syntax	:FETCh:DATA:TELecom:SOAM:FDELay:SUCCessful:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Frame delay successful Count.
Example(s)	FETC:DATA:TEL:SOAM:FDEL:SUCC:COUN?
See Also	FETCh:DATA:TELecom:SOAM:LOOPback:RX:LBR:COUNt?

:FETCh:DATA:TELecom:SOAM:FDELay:TX:DMM:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics TX DMM Count.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Frame Delay > TX DMM > Count
	Navigation Path: Results > S-OAM > Frame Delay > TX DMM > Count
Syntax	:FETCh:DATA:TELecom:SOAM:FDELay:TX:DMM:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Frame delay Tx DMM Count.
Example(s)	FETC:DATA:TEL:SOAM:FDELay:TX:DMM:COUNt?
See Also	FETCh:DATA:TELecom:SOAM:FLOSs:PERcent? FARend

:FETCh:DATA:TELecom:SOAM:FLOSs:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics Frame Loss Near End/Far End Count.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Frame Loss > Count(NearEnd/FarEnd)
	Navigation Path: Results > S-OAM > Frame Loss > Count(NearEnd/FarEnd)
Syntax	:FETCh:DATA:TELecom:SOAM:FLOSs:COUNt? <wsp><type>
Parameter(s)	**type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Nearend or farend Frame loss count
	NEAREND: NEARend Frame loss count
	FAREND: FARend Frame loss count
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Frame Loss NEARend or FARend Count.
Example(s)	FETC:DATA:TEL:SOAM:FLOSs:COUNt? NEARend
See Also	FETCh:DATA:TELecom:SOAM:FDELay:TX:DMM:COUNt?

:FETCh:DATA:TELecom:SOAM:FLOSs:FAILed:COUNt:VERDict?

Description	This query returns the S-OAM Traffic Monitoring Statistics Frame Loss Failed Count Pass/Fail Verdict. At *RST condition, this value is device dependent. Navigation Path: Results > S-OAM > Frame Loss > Failed > Count > Pass/Fail Verdict Navigation Path: Results > Summary > Results Summary > Frame Loss Measurement > Failed > Pass/Fail Verdict
Syntax	:FETCh:DATA:TELecom:SOAM:FLOSs:FAILed:COUNt:VERDict?
Response Syntax	<Frame Loss Failed Count VERDICT>
Response(s)	**Frame Loss Failed Count VERDICT**: The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element. Returns Frame Loss Failed Count verdict status. PASS, PASS as Frame Loss Failed Count verdict status is returned. FAIL, FAIL as Frame Loss Failed Count verdict status is returned.
Example(s)	FETC:DATA:TEL:SOAM:FLOSs:FAILed:COUNt:VERD?
See Also	FETCh:DATA:TELecom:SOAM:TEST:STATus:VERD?

:FETCh:DATA:TELecom:SOAM:FLOSs:FAILed:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics Frame Loss Failed Count.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > S-OAM > Frame Loss > Failed > Count
Syntax	:FETCh:DATA:TELecom:SOAM:FLOSs:FAILed:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Frame Loss failed Count.
Example(s)	FETC:DATA:TEL:SOAM:FLOSs:FAILed:COUNt?
See Also	FETCh:DATA:TELecom:SOAM:TEST:SUCessful:COUNt?

:FETCh:DATA:TELecom:SOAM:FLOSs:INValid:LMR:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics Frame Loss Invalid LMR Count.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Frame Loss > Invalid LMR > Count
	Navigation Path: Results > S-OAM > Frame Loss > Invalid LMR > Count
Syntax	:FETCh:DATA:TELecom:SOAM:FLOSs:INValid:LMR:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Frame Loss Invalid LMR Count.
Example(s)	FETC:DATA:TEL:SOAM:FLOSs:INValid:LMR:COUNt?
See Also	FETCh:DATA:TELecom:SOAM:TEST:INValid:TST:COUNt?

:FETCh:DATA:TELecom:SOAM:FLOSs:PERCent:VERDict?

Description	This query returns the S-OAM Traffic Monitoring Statistics Frame Loss Near End/Far End Percent Pass/Fail Verdict.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Frame Loss > Percent(NearEnd/FarEnd) > Pass/Fail Verdict
	Navigation Path: Results > S-OAM > Frame Loss > Percent(NearEnd/FarEnd)
	Navigation Path: Results > Summary > Results Summary > Frame Loss Ratio > Result (NearEnd/FarEnd) > Pass/Fail Verdict
Syntax	:FETCh:DATA:TELecom:SOAM:FLOSs:PERCent:VERDict? <wsp><type>
Parameter(s)	**type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Nearend or farend Frame loss count
	NEAREND: NEARend Frame loss count
	FAREND: FARend Frame loss count
Response Syntax	<Frame Loss Farend & NearEnd ratio VERDICT>
Response(s)	**Frame Loss Farend & NearEnd ratio VERDICT**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns Frame Loss Farend & NearEnd ratio verdict status.
Example(s)	FETC:DATA:TEL:SOAM:FLOSs:PERcent:VERD? FARend
See Also	FETCh:DATA:TELecom:SOAM:TEST:FAILed:COUNt:VERD?

:FETCh:DATA:TELecom:SOAM:FLOSs:PERCent?

Description	This query returns the S-OAM Traffic Monitoring Statistics Frame Loss Near End/Far End Percent.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Frame Loss > Percent(NearEnd/FarEnd)
	Navigation Path: Results > S-OAM > Frame Loss > Percent(NearEnd/FarEnd)
Syntax	:FETCh:DATA:TELecom:SOAM:FLOSs:PERCent? <wsp><type>
Parameter(s)	**type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Nearend or farend Frame loss count
	NEAREND: NEARend Frame loss count
	FAREND: FARend Frame loss count
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Frame Loss NEARend or FARend percent.
Example(s)	FETC:DATA:TEL:SOAM:FLOSs:PERcent? FARend
See Also	FETCh:DATA:TELecom:SOAM:FDELay:RX:DMR:COUNt?

:FETCh:DATA:TELecom:SOAM:FLOSs:RX:LMR:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics Frame Loss RX LMR Count.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Frame Loss > RX LMR > Count
	Navigation Path: Results > S-OAM > Frame Loss > RX LMR > Count
Syntax	:FETCh:DATA:TELecom:SOAM:FLOSs:RX:LMR:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Frame Loss Rx LMR Count.
Example(s)	FETC:DATA:TEL:SOAM:FLOSs:RX:LMR:COUNt?
See Also	FETCh:DATA:TELecom:SOAM:TEST:RX:TST:COUNt?

:FETCh:DATA:TELecom:SOAM:FLOSs:STATus:VERDict?

Description	This query returns the Frame Loss function shall report a Test Status Pass/Fail Verdict.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Frame Loss > Status > Pass/Fail Verdict
	Navigation Path: Results > S-OAM > Frame Loss > Status
Syntax	:FETCh:DATA:TELecom:SOAM:FLOSs:STATus:VERDict?
Response Syntax	<Frame Loss status VERDICT>
Response(s)	**Frame Loss status VERDICT**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns Frame Loss status verdict status
	PASS, PASS as Frame Loss status verdict status is returned.
	FAIL, FAIL as Frame Loss status verdict statusis returned.
Example(s)	FETC:DATA:TEL:SOAM:FLOSs:STATus:VERD?
See Also	FETCh:DATA:TELecom:SOAM:LOOPback:FAILed:COUNt:VERD?

:FETCh:DATA:TELecom:SOAM:FLOSs:STATus?

Description	This query returns the Frame Loss function shall report a Test Status.
	At *RST condition, this value is Idle, In Progress, Completed, Aborted
	Navigation Path: Results > Summary > Frame Loss > Status
	Navigation Path: Results > S-OAM > Frame Loss > Status
Syntax	:FETCh:DATA:TELecom:SOAM:FLOSs:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Frame loss function running Status.
	IDLE, IDLE is selected as Frame loss function running Status.
	INPROGRESS, INPROGRESS is selected as Frame loss function running Status.
	COMPLETED, COMPLETED is selected as Frame loss function running Status.
	ABORTED, ABORTED is selected as Frame loss function running Status.
Example(s)	FETC:DATA:TEL:SOAM:FLOSs:STATus?
See Also	FETCh:DATA:TELecom:SOAM:TEST:FAILed:COUNt?

:FETCh:DATA:TELecom:SOAM:FLOSs:SUCCessful:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics Frame Loss Successful Count.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > S-OAM > Frame Loss > Successful > Count
Syntax	:FETCh:DATA:TELecom:SOAM:FLOSs:SUCCessful:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Frame Loss Successful Count.
Example(s)	FETC:DATA:TEL:SOAM:FLOS:SUCC:COUN?
See Also	FETCh:DATA:TELecom:SOAM:TEST:INValid:PAYLoad:COUNt?

:FETCh:DATA:TELecom:SOAM:FLOSs:TX:LMM:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics Frame Loss TX LMM Count.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Frame Loss > TX LMM > Count
	Navigation Path: Results > S-OAM > Frame Loss > TX LMM > Count
Syntax	:FETCh:DATA:TELecom:SOAM:FLOSs:TX:LMM:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Frame Loss Tx LMM Count.
Example(s)	FETC:DATA:TEL:SOAM:FLOSs:TX:LMM:COUNt?
See Also	FETCh:DATA:TELecom:SOAM:TEST:TX:TST:COUNt?

:FETCh:DATA:TELecom:SOAM:LOOPback:FAILed:COUNt:VERDict?

Description	This query returns the S-OAM Traffic Monitoring Statistics Fail Count Pass/Fail Verdict.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > S-OAM > Loopback > Failed > Count > Pass/Fail Verdict
	Navigation Path: Results > Summary > Results Summary > Loopback
Syntax	:FETCh:DATA:TELecom:SOAM:LOOPback:FAILed:COUNt:VERDict?
Response Syntax	<Loopback Failed Count VERDICT>
Response(s)	**Loopback Failed Count VERDICT**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns Loopback Failed Count verdict status.
	PASS,PASS as Loopback Failed Count verdict status is returned.
	FAIL,FAIL as Loopback Failed Count verdict status is returned.
Example(s)	FETC:DATA:TEL:SOAM:LOOPback:FAILed:COUNt:VERD?
See Also	FETCh:DATA:TELecom:SOAM:FLOSs:FAILed:COUNt:VERD?

:FETCh:DATA:TELecom:SOAM:LOOPback:FAILed:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics Fail Count.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > S-OAM > Loopback > Successful > Count
Syntax	:FETCh:DATA:TELecom:SOAM:LOOPback:FAILed:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Loopback failed Count.
Example(s)	FETC:DATA:TEL:SOAM:LOOPback:FAILed:COUNt?
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:PERcent? FARend

:FETCh:DATA:TELecom:SOAM:LOOPback:INValid:LBR:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics Invalid LBR Count
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Loopback > Invalid LBR > Count
	Navigation Path: Results > S-OAM > Loopback > Invalid LBR > Count
Syntax	:FETCh:DATA:TELecom:SOAM:LOOPback:INValid:LBR:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Loopback Invalid LBR Count.
Example(s)	FETC:DATA:TEL:SOAM:LOOPback:INValid:LBR:COUNt?
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:FAILed:COUNt?

:FETCh:DATA:TELecom:SOAM:LOOPback:INValid:PAYLoad:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics Invalid Payload Count
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Loopback > Invalid Payload > Count
	Navigation Path: Results > S-OAM > Loopback > Invalid Payload > Count
Syntax	:FETCh:DATA:TELecom:SOAM:LOOPback:INValid:PAYLoad:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Loopback invalid payload Count.
Example(s)	FETC:DATA:TEL:SOAM:LOOPback:INValid:PAYLoad:COUNt?
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus?

:FETCh:DATA:TELecom:SOAM:LOOPback:LBR:TIMeout:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics LBR TimeOut Count
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Loopback > LBR Timeout > Count
	Navigation Path: Results > S-OAM > Loopback > LBR Timeout > Count
Syntax	:FETCh:DATA:TELecom:SOAM:LOOPback:LBR:TIMeout:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Loopback LBR timeout Count.
Example(s)	FETC:DATA:TEL:SOAM:LOOPback:LBR:TIMeout:COUNt?
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:SUCessful:COUNt?

:FETCh:DATA:TELecom:SOAM:LOOPback:RX:LBR:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics TX LBM Count
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Loopback > RX LBR > Count
	Navigation Path: Results > S-OAM > Loopback > RX LBR > Count
Syntax	:FETCh:DATA:TELecom:SOAM:LOOPback:RX:LBR:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Loopback Rx LBR Count.
Example(s)	FETC:DATA:TEL:SOAM:LOOPback:RX:LBR:COUNt?
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:INValid:SLR:COUNt?

:FETCh:DATA:TELecom:SOAM:LOOPback:STATus:VERDict?

Description	This query returns the Loopback function shall report a Test Status Pass/Fail Verdict
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Loopback > Status > Pass/Fail Verdict
	Navigation Path: Results > S-OAM > Loopback > Status
Syntax	:FETCh:DATA:TELecom:SOAM:LOOPback:STATus:VERDict?
Response Syntax	<Loopback Status VERDICT>
Response(s)	**Loopback Status VERDICT**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns Loopback Status verdict status.
	PASS,PASS as Loopback Status verdict status is returned.
	FAIL,FAIL as Loopback Status verdict status is returned.
Example(s)	FETC:DATA:TEL:SOAM:LOOPback:STATus:VERD?
See Also	FETCh:DATA:TELecom:SOAM:FLOSs:STATus:VERD?

:FETCh:DATA:TELecom:SOAM:LOOPback:STATus?

Description	This query returns the Loopback function shall report a Test Status
	At *RST condition, this value is Idle, In Progress, Completed, Aborted.
	Navigation Path: Results > Summary > Loopback > Status
	Navigation Path: Results > S-OAM > Loopback > Status
Syntax	:FETCh:DATA:TELecom:SOAM:LOOPback:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Loopback function running Status.
	IDLE, IDLE is selected as Loopback function running Status.
	INPROGRESS, INPROGRESS is selected as Loopback function running Status.
	COMPLETED,COMPLETED is selected as Loopback function running Status.
	ABORTED, BORTED is selected as Loopback function running Status.
Example(s)	FETC:DATA:TEL:SOAM:LOOPback:STATus?
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:TX:SLM:COUNt?

:FETCh:DATA:TELecom:SOAM:LOOPback:SUCCessful:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics Successful Count.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > S-OAM > Loopback > Successful > Count
Syntax	:FETCh:DATA:TELecom:SOAM:LOOPback:SUCCessful:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Loopback successful Count.
Example(s)	FETC:DATA:TEL:SOAM:LOOP:SUCC:COUN?
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:COUNt? NEARend

:FETCh:DATA:TELecom:SOAM:LOOPback:TX:LBM:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics TX LBM Count
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Loopback > TX LBM > Count
	Navigation Path: Results > S-OAM > Loopback > TX LBM > Count
Syntax	:FETCh:DATA:TELecom:SOAM:LOOPback:TX:LBM:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Loopback Tx LBM Count.
Example(s)	FETC:DATA:TEL:SOAM:LOOPback:TX:LBM:COUNt?
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:RX:SLR:COUNt?

:FETCh:DATA:TELecom:SOAM:SLOSs:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics Synthetic Loss Near End/Far End Count.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Synthetic Loss > Count(NearEnd/FarEnd)
	Navigation Path: Results > S-OAM > Synthetic Loss > Count(NearEnd/FarEnd)
Syntax	:FETCh:DATA:TELecom:SOAM:SLOSs:COUNt? <wsp><type>
Parameter(s)	**type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Nearend or farend Synthetic loss count
	NEAREND: NEARend Frame loss count
	FAREND: FARend Frame loss count
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Sythetic Loss NEARend or FARend Count.
Example(s)	FETC:DATA:TEL:SOAM:SLOSs:COUNt? NEARend
See Also	FETCh:DATA:TELecom:SOAM:FDELay:MAXimum:DELay?

:FETCh:DATA:TELecom:SOAM:SLOSs:FAILed:COUNt:VERDict?

Description	This query returns the S-OAM Traffic Monitoring Statistics Synthetic Loss Failed Count Pass/Fail Verdict.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > S-OAM > Synthetic Loss > Failed > Count > Pass/Fail Verdict
	Navigation Path: Results > Summary > Results Summary > Synthetic Loss Measurement > Failed > Pass/Fail Verdict
Syntax	:FETCh:DATA:TELecom:SOAM:SLOSs:FAILed:COUNt:VERDict?
Response Syntax	<Synthetic Loss Failed Count VERDICT>
Response(s)	**Synthetic Loss Failed Count VERDICT**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns Synthetic Loss Failed Count verdict status.
	PASS, PASS as Synthetic Loss Failed Count verdict status is returned.
	FAIL, FAIL as Synthetic Loss Failed Count verdict status is returned.
Example(s)	FETC:DATA:TEL:SOAM:SLOSs:FAILed:COUNt:VERD?
See Also	FETCh:DATA:TELecom:SOAM:FDELay:FAILed:COUNt:VERD?

:FETCh:DATA:TELecom:SOAM:SLOSs:FAILed:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics Synthetic Loss Failed Count.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > S-OAM > Synthetic Loss > Failed > Count
Syntax	:FETCh:DATA:TELecom:SOAM:SLOSs:FAILed:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Sythetic Loss failed Count.
Example(s)	FETC:DATA:TEL:SOAM:SLOSs:FAILed:COUNt?
See Also	FETCh:DATA:TELecom:SOAM:FDELay:CURRent:DELay?

:FETCh:DATA:TELecom:SOAM:SLOSs:INValid:SLR:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics Synthetic Loss Invalid SLR Count.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Synthetic Loss > Invalid SLR > Count
	Navigation Path: Results > S-OAM > Synthetic Loss > Invalid SLR > Count
Syntax	:FETCh:DATA:TELecom:SOAM:SLOSs:INValid:SLR:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Sythetic Loss Invalid SLR Count.
Example(s)	FETC:DATA:TEL:SOAM:SLOSs:INValid:SLR:COUNt?
See Also	FETCh:DATA:TELecom:SOAM:FDELay:FAILed:COUNt?

:FETCh:DATA:TELecom:SOAM:SLOSs:PERCent:VERDict?

Description	This query returns the S-OAM Traffic Monitoring Statistics Synthetic Loss Near End/Far End Percent Pass/Fail Verdict.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Synthetic Loss > Percent(NearEnd/FarEnd) > Pass/Fail Verdict
	Navigation Path: Results > S-OAM > Synthetic Loss > Percent(NearEnd/FarEnd)
	Navigation Path: Results > Summary > Results Summary > Synthetic Loss Ratio > Result (NearEnd/FarEnd) > Pass/Fail Verdict
Syntax	:FETCh:DATA:TELecom:SOAM:SLOSs:PERCent:VERDict? <wsp><type>
Parameter(s)	**type:**
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Nearend or farend Synthetic loss count
	NEAREND: NEARend Frame loss count
	FAREND: FARend Frame loss count
Response Syntax	<Synthetic Loss Farend & NearEnd ratio VERDICT>
Response(s)	**Synthetic Loss Farend & NearEnd ratio VERDICT:**
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns Synthetic Loss Farend & NearEnd verdict status.
Example(s)	FETC:DATA:TEL:SOAM:SLOSs:PERCent:VERD? FARend
See Also	FETCh:DATA:TELecom:SOAM:FDELay:MAXimum:DELay:VERD?

:FETCh:DATA:TELecom:SOAM:SLOSs:PERCent?

Description	This query returns the S-OAM Traffic Monitoring Statistics Synthetic Loss Near End/Far End Percent.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Synthetic Loss > Percent(NearEnd/FarEnd)
	Navigation Path: Results > S-OAM > Synthetic Loss > Percent(NearEnd/FarEnd)
Syntax	:FETCh:DATA:TELecom:SOAM:SLOSs:PERCent? <wsp><type>
Parameter(s)	**type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects Nearend or farend Synthetic loss count
	NEAREND: NEARend Frame loss count
	FAREND: FARend Frame loss count
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Synthetic Loss NEARend or FARend percent.
Example(s)	FETC:DATA:TEL:SOAM:SLOSs:PERcent? FARend
See Also	FETCh:DATA:TELecom:SOAM:FDELay:AVERage:DELay?

:FETCh:DATA:TELecom:SOAM:SLOSs:RX:SLR:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics Synthetic Loss TX SLR Count.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Synthetic Loss > RX SLR > Count
	Navigation Path: Results > S-OAM > Synthetic Loss > RX SLR > Count
Syntax	:FETCh:DATA:TELecom:SOAM:SLOSs:RX:SLR:COUNt?
Response Syntax	\<Value\>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a \<NR1 NUMERIC RESPONSE DATA\> element.
	Returns the Sythetic Loss Rx SLR Count.
Example(s)	FETC:DATA:TEL:SOAM:SLOSs:RX:SLR:COUNt?
See Also	FETCh:DATA:TELecom:SOAM:FDELay:SUCessful:COUNt?

:FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?

Description	This query returns the Synthetic Loss function shall report a Test Status Pass/Fail Verdict.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Synthetic Loss > Status > Pass/Fail Verdict
	Navigation Path: Results > S-OAM > Synthetic Loss > Status
Syntax	:FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERDict?
Response Syntax	<Synthetic Loss status VERDICT>
Response(s)	**Synthetic Loss status VERDICT**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns Synthetic Loss status verdict status.
	PASS, PASS as Synthetic Loss status verdict status is returned.
	FAIL, FAIL as Synthetic Loss status verdict status is returned.
Example(s)	FETC:DATA:TEL:SOAM:SLOSs:STATus:VERD?
See Also	FETCh:DATA:TELecom:SOAM:FDELay:STATus:VERD?

:FETCh:DATA:TELecom:SOAM:SLOSs:STATus?

Description	This query returns the Synthetic Loss function shall report a Test Status.
	At *RST condition, this value is Idle, In Progress, Completed, Aborted.
	Navigation Path: Results > Summary > Synthetic Loss > Status
	Navigation Path: Results > S-OAM > Synthetic Loss > Status
Syntax	:FETCh:DATA:TELecom:SOAM:SLOSs:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Sythetic loss function running Status.
	IDLE, selected status as IDLE
	INPROGRESS, selected status as INPROGRESS
	COMPLETED, selected status as COMPLETED
	ABORTED, selected status as ABORTED
Example(s)	FETC:DATA:TEL:SOAM:SLOSs:STATus?
See Also	FETCh:DATA:TELecom:SOAM:FDELay:MINimum:DELay?

:FETCh:DATA:TELecom:SOAM:SLOSs:SUCCessful:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics Synthetic Loss Successful Count.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > S-OAM > Synthetic Loss > Successful > Count
Syntax	:FETCh:DATA:TELecom:SOAM:SLOSs:SUCCessful:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Sythetic Loss Successful Count.
Example(s)	FETC:DATA:TEL:SOAM:SLOS:SUCC:COUN?
See Also	FETCh:DATA:TELecom:SOAM:FDELay:STATus?

:FETCh:DATA:TELecom:SOAM:SLOSs:TX:SLM:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics Synthetic Loss TX SLM Count.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Synthetic Loss > TX SLM > Count
	Navigation Path: Results > S-OAM > Synthetic Loss > TX SLM > Count
Syntax	:FETCh:DATA:TELecom:SOAM:SLOSs:TX:SLM:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Sythetic Loss Tx SLM Count.
Example(s)	FETC:DATA:TEL:SOAM:SLOSs:TX:SLM:COUNt?
See Also	FETCh:DATA:TELecom:SOAM:FDELay:INValid:DMR:COUNt?

:FETCh:DATA:TELecom:SOAM:TEST:FAILed:COUNt:VERDict?

Description	This query returns the S-OAM Traffic Monitoring Statistics Fail Count Pass/Fail Verdict.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > S-OAM > Test > Failed > Count > Pass/Fail Verdict
	Navigation Path: Results > Summary > Results Summary > Test
Syntax	:FETCh:DATA:TELecom:SOAM:TEST:FAILed:COUNt:VERDict?
Response Syntax	<TEST Failed Count VERDICT>
Response(s)	**TEST Failed Count VERDICT**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns Test failed count verdict status.
	PASS, PASS as Test failed count verdict status is returned.
	FAIL, FAIL as Test failed count verdict status is returned.
Example(s)	FETC:DATA:TEL:SOAM:TEST:FAILed:COUNt:VERD?
See Also	FETCh:DATA:TELecom:SOAM:SLOSs:STATus:VERD?

:FETCh:DATA:TELecom:SOAM:TEST:FAILed:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics Fail Count.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > S-OAM > Test > Failed > Count
Syntax	:FETCh:DATA:TELecom:SOAM:TEST:FAILed:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Test failed Count.
Example(s)	FETC:DATA:TEL:SOAM:TEST:FAILed:COUNt?
See Also	FETCh:DATA:TELecom:SOAM:FLOSs:COUNt? NEARend

:FETCh:DATA:TELecom:SOAM:TEST:INValid:PAYLoad:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics Invalid Payload Count.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Test > Invalid Payload > Count
	Navigation Path: Results > S-OAM > Test > Invalid Payload > Count
Syntax	:FETCh:DATA:TELecom:SOAM:TEST:INValid:PAYLoad:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Test Invalid payload Count.
Example(s)	FETC:DATA:TEL:SOAM:TEST:INV:PAYL:COUN?
See Also	FETCh:DATA:TELecom:SOAM:FLOSs:FAILed:COUNt?

:FETCh:DATA:TELecom:SOAM:TEST:INValid:TST:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics Invalid TST Count.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Test > Invalid TST > Count
	Navigation Path: Results > S-OAM > Test > Invalid TST > Count
Syntax	:FETCh:DATA:TELecom:SOAM:TEST:INValid:TST:COUNt?
Response Syntax	\<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a \<NR1 NUMERIC RESPONSE DATA> element.
	Returns the Test invalid TST Count.
Example(s)	FETC:DATA:TEL:SOAM:TEST:INValid:TST:COUNt?
See Also	FETCh:DATA:TELecom:SOAM:FLOSs:SUCessful:COUNt?

:FETCh:DATA:TELecom:SOAM:TEST:RX:TST:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics RX TST Count.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Test > RX TST > Count
	Navigation Path: Results > S-OAM > Test > RX TST > Count
Syntax	:FETCh:DATA:TELecom:SOAM:TEST:RX:TST:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Test Rx TST Count.
Example(s)	FETC:DATA:TEL:SOAM:TEST:RX:TST:COUNt?
See Also	FETCh:DATA:TELecom:SOAM:FLOSs:INValid:LMR:COUNt?

:FETCh:DATA:TELecom:SOAM:TEST:STATus:VERDict?

Description	This query returns the Test function shall report a Test Status Pass/Fail Verdict.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Test > Status > Pass/Fail Verdict
	Navigation Path: Results > S-OAM > Test > Status
Syntax	:FETCh:DATA:TELecom:SOAM:TEST:STATus:VERDict?
Response Syntax	<TEST STATUS VERDICT>
Response(s)	**TEST STATUS VERDICT**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns Test status verdict status.
	PASS,PASS as Test status verdict status is returned.
	FAIL,FAIL as Test status verdict status is returned.
Example(s)	FETC:DATA:TEL:SOAM:TEST:STATus:VERD?
See Also	FETCh:DATA:TELecom:SOAM:FLOSs:PERcent:VERD?

:FETCh:DATA:TELecom:SOAM:TEST:STATus?

Description	This query returns the Test function shall report a Test Status.
	At *RST condition, this value is Idle, In Progress, Completed, Aborted.
	Navigation Path: Results > Summary > Test > Status
	Navigation Path: Results > S-OAM > Test > Status
Syntax	:FETCh:DATA:TELecom:SOAM:TEST:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Test function running Status.
	IDLE, selected status as IDLE
	INPROGRESS, selected status as INPROGRESS
	COMPLETED, selected status as COMPLETED
	ABORTED, selected status as ABORTED
Example(s)	FETC:DATA:TEL:SOAM:TEST:STATus?
See Also	FETCh:DATA:TELecom:SOAM:FLOSs:TX:LMM:COUNt?

:FETCh:DATA:TELecom:SOAM:TEST:SUCCessful:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics Successful Count.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > S-OAM > Test > Successful > Count
Syntax	:FETCh:DATA:TELecom:SOAM:TEST:SUCCessful:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Test successful Count.
Example(s)	FETC:DATA:TEL:SOAM:TEST:SUCC:COUN?
See Also	FETCh:DATA:TELecom:SOAM:FLOSs:STATus?

:FETCh:DATA:TELecom:SOAM:TEST:TX:TST:COUNt?

Description	This query returns the S-OAM Traffic Monitoring Statistics TX TST Count.
	At *RST condition, this value is device dependent.
	Navigation Path: Results > Summary > Test > TX TST > Count
	Navigation Path: Results > S-OAM > Test > TX TST > Count
Syntax	:FETCh:DATA:TELecom:SOAM:TEST:TX:TST:COUNt?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Test Tx TST Count.
Example(s)	FETC:DATA:TEL:SOAM:TEST:TX:TST:COUNt?
See Also	FETCh:DATA:TELecom:SOAM:FLOSs:RX:LMR:COUNt?

Link OAM

:FETCh:DATA:TELecom:LOAM:REMote:EVENt:STATistic:FPERiod?

Description	This query returns the Remote Error Event Statistics Frame Period.
	At *RST, this value is device dependent.
	Navigation Path: Results > Link OAM > Remote Error Event Statistics > Frame Period
	It Shows: Date and Time Stamp, Window, Threshold, Error Count, Error Running Total, Event Running Total.
Syntax	:FETCh:DATA:TELecom:LOAM:REMote:EVENt:STATistic:FPERiod? <wsp><Frame Period>
Parameter(s)	**Frame Period**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Return Remote Error Event Statistics of Frame Period according to given parameter.
	RDATestamp: Date Stamp.
	RTIMestamp: Time Stamp.
	WINdow: Window.
	RTHreshold: Threshold.
	RCERror: Error Count.
	RTERror: Error Running Total.
	RTEVent: Event Running Total.
Response Syntax	<Frame Period>
Response(s)	**Frame Period**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Return Remote Error Event stats of Frame Period.
Example(s)	FETC:DATA:TEL:LOAM:REM:EVEN:STAT:FPER? RTEVent
See Also	FETCh:DATA:TELecom:TSCan:LINK:RATE?

:FETCh:DATA:TELecom:LOAM:REMote:EVENt:STATistic:FRAMe?

Description	This query returns the Remote Error Event Statistics Frame.
	At *RST, this value is device dependent.
	Navigation Path: Results > Link OAM > Remote Error Event Statistics > Frame
	It Shows: Date and Time Stamp, Window, Threshold, Error Count, Error Running Total, Event Running Total.
Syntax	:FETCh:DATA:TELecom:LOAM:REMote:EVENt:STATistic:FRAMe? <wsp><Frame>
Parameter(s)	**Frame**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Return Remote Error Event Statistics of Frame according to given parameter.
	RDATestamp: Date Stamp.
	RTIMestamp: Time Stamp.
	WINdow: Window.
	RTHreshold: Threshold.
	RCERror: Error Count.
	RTERror: Error Running Total.
	RTEVent: Event Running Total.
Response Syntax	<Frame>
Response(s)	**Frame**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Return Remote Error Event stats of Frame.
Example(s)	FETC:DATA:TEL:LOAM:REM:EVEN:STAT:FRAM? RTEVent
See Also	FETCh:DATA:TELecom:TSCan:LINK:RATE?

:FETCh:DATA:TELecom:LOAM:REMote:EVENt:STATistic:FSECo nd?

Description	This query returns the Remote Error Event Statistics Frame Second.
	At *RST, this value is device dependent.
	Navigation Path: Results > Link OAM > Remote Error Event Statistics > Frame Seconds
	It Shows: Date and Time Stamp, Window, Threshold, Error Count, Error Running Total, Event Running Total.
Syntax	:FETCh:DATA:TELecom:LOAM:REMote:EVENt:STATistic:FSECond? <wsp><Frame Second>
Parameter(s)	**Frame Second**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Return Remote Error Event Statistics Of Frame Seconds according to given parameter.
	RDATestamp: Date Stamp.
	RTIMestamp: Time Stamp.
	WINdow: Window.
	RTHreshold: Threshold.
	RCERror: Error Count.
	RTERror: Error Running Total.
	RTEVent: Event Running Total.
Response Syntax	<Frame Second>
Response(s)	**Frame Second**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Return Remote Error Event stats of Frame Second.
Example(s)	FETC:DATA:TEL:LOAM:REM:EVEN:STAT:FSEC? RTEVent
See Also	FETCh:DATA:TELecom:TSCan:LINK:RATE?

:FETCh:DATA:TELecom:LOAM:REMote:EVENt:STATistic:SPERi od?

Description	This query returns the Remote Error Event Statistics Symbol Period.
	At *RST, this value is device dependent.
	Navigation Path: Results > Link OAM > Remote Error Event Statistics > Symbol Period
	It Shows: Date and Time Stamp, Window, Threshold, Error Count, Error Running Total, Event Running Total.
Syntax	:FETCh:DATA:TELecom:LOAM:REMote:EVENt:STATistic:SPERiod? <wsp><Symbol Period>
Parameter(s)	**Symbol Period**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Return Remote Error Event Statistics of Symbol Periood according to given parameter.
	RDATestamp: Date Stamp.
	RTIMestamp: Time Stamp.
	WINdow: Window.
	RTHreshold: Threshold.
	RCERror: Error Count.
	RTERror: Error Running Total.
	RTEVent: Event Running Total.
Response Syntax	<Symbol Period>
Response(s)	**Symbol Period**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Return Remote Error Event stats of Symbol Period.
Example(s)	FETC:DATA:TEL:LOAM:REM:EVEN:STAT:SPER? RTEVent
See Also	FETCh:DATA:TELecom:TSCan:LINK:RATE?

:FETCh:DATA:TELecom:LOAM:REMote:MAC?

Description	This query returns the Remote MAC Address.
	At *RST, this value is device dependent.
	Navigation Path: Results > Link OAM > Remote MAC Address
Syntax	:FETCh:DATA:TELecom:LOAM:REMote:MAC?
Response Syntax	<MAC Address>
Response(s)	**MAC Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns Remote MAC Address.
Example(s)	FETC:DATA:TEL:LOAM:REM:MAC?
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination?

:FETCh:DATA:TELecom:LOAM:REMote:OAMInfo?

Description	This query returns the Remote OAM Information.
	At *RST, this value is device dependent.
	Navigation Path: Results > Link OAM > Remote OAM Information
	It Shows: OAM Version, Revision, Multiplexer Action, Parser Action, OAM Mode, OUI, Maximum OAMPDU Size, Vendor specific information, Unidirectional, Remote Loopback, Variable Retrieval, Link Events.
Syntax	:FETCh:DATA:TELecom:LOAM:REMote:OAMInfo? <wsp><Remote OAMInfo>
Parameter(s)	**Remote OAMInfo**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Return Remote OAM Information according to given parameter.
	OVERsion: OAM Version.
	OREVision: OAM Revision.
	OMACtion: Multiplexer Action.
	OPACtion: Parser Action.
	ROAMode: OAM Mode.
	OUIRemote: Remote OUI.
	OMSize: Maximum OAMPDU Size.
	VSINfo: Vendor Specific Information.
	UNIDir: Unidirectional.
	RLBack: Remote Loopback.
	VRETrival: Variable Retrieval.
	LEVent: Link Events.
Response Syntax	<Remote OAM Information>
Response(s)	**Remote OAM Information**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns Remote OAM Information.
Example(s)	FETC:DATA:TEL:LOAM:REM:OAMI? OVERsion
See Also	FETCh:DATA:TELecom:TSCan:LINK:RATE?

:SOURce:DATA:TELecom:LOAM:ERRor:FRAMe:INJect

Description	This command allows Injecting Error Frames.
	At *RST condition, this value is set to 1.
	Navigation Path: Results > Link OAM > Inject Errored Frames
Syntax	:SOURce:DATA:TELecom:LOAM:ERRor:FRAMe:INJect
Response Syntax	\<Remote OAM Information\>
Example(s)	SOUR:DATA:TEL:LOAM:ERR:FRAM:INJ
See Also	FETCh:DATA:TELecom:PATTern:ALARm:PATTern:SEConds?

SDT (Multi-Channel OTN)

:FETCh:DATA:TELecom:SDT:CHAThreshold?

Description	This query returns the number of channels that crossed the pass/fail verdict threshold, when SDT pass/fail verdict is enabled, since test was started/reset.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > Multi-Channel OTN > Results > SDT > Channels Above Threshold
Syntax	:FETCh:DATA:TELecom:SDT:CHAThreshold?
Response Syntax	<Number of channels that crossed the pass/fail verdict threshold>
Response(s)	**Number of channels that crossed the pass/fail verdict threshold**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of channels that crossed the pass/fail verdict threshold, when SDT pass/fail verdict is enabled, since test was started/reset.
Example(s)	FETC:DATA:TEL:SDT:CHAT?
See Also	FETCh:DATA:TELecom:SDT:VERD? 3

:FETCh:DATA:TELecom:SDT:CHDIsruption?

Description	This query returns the number of channels that had one or more disruption(s), since test was started/reset.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > Multi-Channel OTN > Results > SDT > Channels with Disruptions
Syntax	:FETCh:DATA:TELecom:SDT:CHDIsruption?
Response Syntax	<Number of channels in disruption>
Response(s)	**Number of channels in disruption**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of channels that had one or more disruption(s), since test was started/reset.
Example(s)	FETC:DATA:TEL:SDT:CHDI?
See Also	FETCh:DATA:TELecom:SDT:LAST? 3
	FETCh:DATA:TEL:SDT:LACH?

:FETCh:DATA:TELecom:SDT:CHMOnitored?

Description	This query returns the number of channels monitored.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > Multi-Channel OTN > Results > SDT > Channels Monitored
Syntax	:FETCh:DATA:TELecom:SDT:CHMOnitored?
Response Syntax	<Number of channels monitored>
Response(s)	**Number of channels monitored**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of channels monitored.
Example(s)	FETC:DATA:TEL:SDT:CHMO?

:FETCh:DATA:TELecom:SDT:LACHannel?

Description	This query returns the channel with the last disruption, since test was started/reset.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > Multi-Channel OTN > Results > SDT > Last Disruption (Channel)
Syntax	:FETCh:DATA:TELecom:SDT:LACHannel?
Response Syntax	<Channel>
Response(s)	**Channel**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the channel with last detected disruption, since test was started/reset.
Example(s)	FETC:DATA:TEL:SDT:LACH?
See Also	FETCh:DATA:TELecom:SDT:LAST? 3

:FETCh:DATA:TELecom:SDT:LATImestamp?

Description	This query returns the last disruption detection timestamp, since test was started/reset.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > Multi-Channel OTN > Results > SDT > Last Disruption (Duration)
Syntax	:FETCh:DATA:TELecom:SDT:LATImestamp? <wsp><Channel>
Parameter(s)	**Channel**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	This parameter is mandatory in the Multi-Channel OTN application, and cannot be specified in other applications.
	The query returns the detection timestamp of the last disruption for the specified channel.
	The numeric channel ranges from [1:n] in function of ODU Mapping.
Response Syntax	<Last timestamp>
Response(s)	**Last timestamp**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the last disruption detection timestamp (local time), since test was started/reset.
Example(s)	FETC:DATA:TEL:SDT:LATI? 3
See Also	FETCh:DATA:TELecom:SDT:LAST? 3

:FETCh:DATA:TELecom:SDT:LOCHannel?

Description	This query returns the channel with the longest disruption duration, since test was started/reset.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > Multi-Channel OTN > Results > SDT > Longest Disruption (Channel)
Syntax	:FETCh:DATA:TELecom:SDT:LOCHannel?
Response Syntax	<Channel>
Response(s)	**Channel**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the channel with the longest disruption duration, since test was started/reset.
Example(s)	FETC:DATA:TEL:SDT:LOCH?
See Also	FETCh:DATA:TELecom:SDT:LONGest? 3

:FETCh:DATA:TELecom:SDT:LOTImestamp?

Description	This query returns the longest disruption detection timestamp, since test was started/reset.
	At *RST condition, this value is device dependent.
	Navigation Path: Test > Multi-Channel OTN > Results > SDT > Longest Disruption (Duration)
Syntax	:FETCh:DATA:TELecom:SDT:LOTImestamp? <wsp><Channel>
Parameter(s)	**Channel**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	This parameter is mandatory in the Multi-Channel OTN application, and cannot be specified in other applications.
	The query returns the detection timestamp of the longest disruption for the specified channel.
	The numeric channel ranges from [1:n] in function of ODU Mapping.
Response Syntax	<Longest timestamp>
Response(s)	**Longest timestamp**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the longest disruption detection timestamp (local time), since test was started/reset.
Example(s)	FETC:DATA:TEL:SDT:LOTI? 3
See Also	FETCh:DATA:TELecom:SDT:LONGest? 3

Messages (OBSAI)

:FETCh:DATA:TELecom:CPRI:OBSai:MESSages:C[1..n]?

Description	This Query returns the OBSAI Message c1 Count.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Messages > RX Frame Clock Burst Details - c1
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:MESSages:C[1..n]?
Response Syntax	<c1Count>
Response(s)	**c1Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Return C1 Count.
Example(s)	FETC:DATA:TEL:CPRI:OBS:MESS:C1?
See Also	FETCh:DATA:TELecom:CPRI:OBSai:SUMMary:RXCount?

:FETCh:DATA:TELecom:CPRI:OBSai:MESSages:RXCount?

Description	This Query returns the OBSAI Message RX Count.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Messages > Message Type - RX Count
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:MESSages:RXCount? <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Select the Message Type.
	CONTROL: Control
	MEASUREMENT: Measurement
	WFDD: WCDMA/FDD
	WTDD: WCDMA/TDD
	GEDGE: GSM/EDGE
	TETRA: TETRA
	CDMA2000: CDMA2000
	WLAN: WLAN
	LOOPBACK: Loopback
	FCB: Frame Clock Burst
	ETHERNET: Ethernet
	RTTMESSAGE: RTT Message
	802_16: 802.16
	VHWRESET: Virtual HW Reset
	LTE: LTE
	GPACKET: Generic Packet
	MRTTMESSAGE: Multi-hop RTT Message
	OTHERS: Others
Response Syntax	<Message Type RX Count>

:FETCh:DATA:TELecom:CPRI:OBSai:MESSages:RXCount?

Response(s)	**Message Type RX Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Return Message Type RX Count.
Example(s)	FETC:DATA:TEL:CPRI:OBS:MESS:RXC? LTE
See Also	FETCh:DATA:TELecom:CPRI:OBSai:SUMMary:RXCount?

:FETCh:DATA:TELecom:CPRI:OBSai:MESSages:SFN?

Description	This Query returns the OBSAI Message SFN Count.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Messages > RX Frame Clock Burst Details - SFN
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:MESSages:SFN?
Response Syntax	<SFN Count>
Response(s)	**SFN Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Return SFN Count.
Example(s)	FETC:DATA:TEL:CPRI:OBS:MESS:SFN?
See Also	FETCh:DATA:TELecom:CPRI:OBSai:SUMMary:RXCount?

:FETCh:DATA:TELecom:CPRI:OBSai:MESSages:TXCount?

Description	This Query returns the OBSAI Message TX Count.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Results > Messages > Message Type - RX Count
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:MESSages:TXCount? <wsp><Message>
Parameter(s)	**Message**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Select the Message Type.
	WFDD: WCDMA/FDD
	GEDGE: GSM/EDGE
	FCB: Frame Clock Burst
	RTTMESSAGE: RTT Message
	802_16: 802.16
	LTE: LTE
Response Syntax	<Message Type TX Count>
Response(s)	**Message Type TX Count**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Return Message Type TX Count.
Example(s)	FETC:DATA:TEL:CPRI:OBS:MESS:TXC? LTE
See Also	FETCh:DATA:TELecom:CPRI:OBSai:SUMMary:TXCount?

APS

:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:ARC Hitecture?

Description	This query returns Architecture for Linear Switching mode RX.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Linear) > Architecture
Syntax	:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:ARCHitecture?
Response Syntax	\<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA> element.
	Returns the Architecture for Linear Switching mode.
Example(s)	FETC:DATA:TEL:SDHS:ADV:APS:K2:ARCH?
See Also	FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHAN?

:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:BRE Quest?

Description	This query returns Bridge Request for Ring Switching mode RX.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > RX > Switching Mode (Ring) > Bridge Request
Syntax	:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:BREQuest?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Bridge Request for Ring Switching mode.
Example(s)	FETC:DATA:TEL:SDHS:ADV:APS:K2:BREQ?
See Also	FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:DNODe?

:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel?

Description	This query returns Channel for Linear Switching mode RX.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > RX > Switching Mode (Linear) > Channel
Syntax	:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Channel for Linear Switching Mode.
Example(s)	FETC:DATA:TEL:SDHS:ADV:APS:K1:CHAN?
See Also	FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:SNODe?

:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:DNODe?

Description	This query returns Destination node Id for Ring Switching mode RX.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > RX > Switching Mode (Ring) > Destination Node Id
Syntax	:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:DNODe?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Destination Node Id for Ring Switching mode.
Example(s)	FETC:DATA:TEL:SDHS:ADV:APS:K1:DNODe?
See Also	FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:BREQ?

:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:OMODe?

Description	This query returns Operation mode for Linear Switching mode RX.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > RX > Operation Mode
Syntax	:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:OMODe?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Operation mode for Linear Switching mode.
Example(s)	FETC:DATA:TEL:SDHS:ADV:APS:K2:LIN:OMODe?
See Also	FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:BREQ?

:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:REQuest?

Description	This query returns the K1 Request for Linear Switching mode for RX.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > RX > Request
Syntax	:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:REQuest?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Request for Linear Switching mode
Example(s)	FETC:DATA:TEL:SDHS:ADV:APS:K1:LIN:REQ?
See Also	FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:BREQ?

:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:PCHannel?

Description	This query returns Protected Channel for Linear Switching mode RX.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > RX > Switching Mode (Linear) > Protected Channel
Syntax	:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:PCHannel?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Protected Channel for Linear Switching mode.
Example(s)	FETC:DATA:TEL:SDHS:ADV:APS:K2:PCH?
See Also	FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:DNODe?

:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:OMODe?

Description	This query returns Operation mode for Ring Switching mode RX.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > RX > Operation Mode
Syntax	:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:OMODe?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Operation mode for Ring Switching mode.
Example(s)	FETC:DATA:TEL:SDHS:ADV:APS:K2:RING:OMODe?
See Also	FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:BREQ?

:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:REQuest?

Description	This query returns the K1 Request for Ring Switching mode for RX.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > RX > Request
Syntax	:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:REQuest?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Request for Ring Switching mode
Example(s)	FETC:DATA:TEL:SDHS:ADV:APS:K1:RING:REQ?
See Also	FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:BREQ?

:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:SNODe?

Description	This query returns Source Node Id for Ring Switching mode RX.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > RX > Switching Mode (Ring) > Source Node Id
Syntax	:FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:SNODe?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Source Node Id for Ring Switching mode.
Example(s)	FETC:DATA:TEL:SDHS:ADV:APS:K2:SNODe?
See Also	FETCh:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:SNODe?

:SENSe:DATA:TELecom:SDHSonet:ADVanced:APS:SMODe

Description	This command selects the Switching mode for RX.
	At *RST condition, this value is set to LINEAR.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > RX > Switching Mode
Syntax	:SENSe:DATA:TELecom:SDHSonet:ADVanced:APS:SMODe <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Switching Mode.
	LINear
	RING
Response Syntax	<Value>
Example(s)	SENS:DATA:TEL:SDHS:ADV:APS:SMODE LINEAR
	SENS:DATA:TEL:SDHS:ADV:APS:SMODE?
	Returns: LINEAR
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:OMODE

:SENSe:DATA:TELecom:SDHSonet:ADVanced:APS:SMODe?

Description	This query returns the Switching mode for RX.
	At *RST condition, this value is set to LINEAR.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > RX > Switching Mode
Syntax	:SENSe:DATA:TELecom:SDHSonet:ADVanced:APS:SMODe?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Switching mode for RS-MS advance.
	LINEAR - Linear is selected for Switching Mode.
	RING - Ring is selected for Switching Mode.
Example(s)	SENS:DATA:TEL:SDHS:ADV:APS:SMODE LINEAR
	SENS:DATA:TEL:SDHS:ADV:APS:SMODE?
	Returns: LINEAR
See Also	SENS[1..n]:DATA:TEL:SDHSonet:ADVanced:APS:K[1..n]:CHANnel?

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:ARCHitecture

Description	This command sets the Architecture for Linear Switching mode.
	At *RST condition, this value is set to 1TO1
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Linear) > Architecture
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:ARCHitecture <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the K2 Architecture for Linear Switching.
	1TO1: 1+1
	1TON: 1+N
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K2:ARCH 1TO1
	SOUR:DATA:TEL:SDHS:ADV:APS:K2:ARCH?
	Returns: 1TO1
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:ARCHitecture?

Description	This query returns the Architecture for Linear switching mode.
	At *RST condition, this value is set to 1TO1
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Linear) > Architecture
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:ARCHitecture?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Linear Swithching Mode Architecture.
	1TO1 - 1+1 Architecture is selected.
	1TON - 1+N Architecture is selected.
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K2:ARCH 1TO1
	SOUR:DATA:TEL:SDHS:ADV:APS:K2:ARCH?
	Returns: 1TO1
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:BR EQuest

Description	This command sets Bridge Request for Ring Swtiching mode.
	At *RST condition, this value is set to SPATH.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Ring) > Bridge Request
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:BREQuest <wsp><Bridge>
Parameter(s)	**Bridge**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the K2 Bridge Request for Ring Switching.
	SPATh: Short Path
	LPATh: Long Path
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K2:BREQ SPATH
	SOUR:DATA:TEL:SDHS:ADV:APS:K2:BREQ?
	Returns: SPATH
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel?

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:BR EQuest?

Description	This query returns Bridge Request for Ring Switching mode.
	At *RST condition, this value is set to SPATH.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Ring) > Bridge Request
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:BREQuest?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Bridge Request for Ring Switching mode.
	SPATH - Short Path is selected.
	LPATH - Long Path is selected.
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K2:BREQ SPATH
	SOUR:DATA:TEL:SDHS:ADV:APS:K2:BREQ?
	Returns: SPATH
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel?

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel

Description	This command selects the K1 Channel for Linear Switching mode.
	At *RST condition, this value is set to NULL.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Linear) > Channel
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the K1 Channel for Linear Switching.
	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K1:CHAN 1
	SOUR:DATA:TEL:SDHS:ADV:APS:K1:CHAN?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel?

Description	This query returns the K1 Channel for Linear Switching Mode.
	At *RST condition, this value is set to NULL.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Linear) > Channel
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Linear switching mode Channel: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, or 15.
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K1:CHAN 1
	SOUR:DATA:TEL:SDHS:ADV:APS:K1:CHAN?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:D NODe

Description	This comman selects Destination node Id for Ring Switching mode.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Ring) > Destination Node Id
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:DNODe <wsp><Node ID>
Parameter(s)	Node ID:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the K1 Destination Node Id for Ring Switching:
	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K1:DNOD 1
	SOUR:DATA:TEL:SDHS:ADV:APS:K1:DNOD?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:SMODe

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:D NODe?

Description	This query returns Destination node Id for Ring Switching mode.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Ring) > Destination Node Id
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:DNODe?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Destination Node Id for Ring Switching mode: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, or 15.
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K1:DNOD 1
	SOUR:DATA:TEL:SDHS:ADV:APS:K1:DNOD?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:SMODe?

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:OMODe

Description	This command sets the Operation mode for Linear Switching mode.
	At *RST condition, this value is set to RESERVED000.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Linear) > Operation Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:OMODe <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the K2 Operation Mode for Linear Switching.
	RESERVED000: Reserved (000)
	RESERVED001: Reserved (001)
	RESERVED010: Reserved (010)
	RESERVED011: Reserved (011)
	UNI100: Unidirectional (100)
	BID101: Bidirectional (101)
	MSRDI110: MS-RDI (110)
	MSAIS111: MS-AIS (111)
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K2:LIN:OMODE RESERVED001
	SOUR:DATA:TEL:SDHS:ADV:APS:K2:LIN:OMODE?
	Returns: RESERVED001
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LI Near:OMODe?

Description	This query returns the Operation mode for Linear Switching mode.
	At *RST condition, this value is set to RESERVED000.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Linear) > Operation Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:OMODe?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Linear Swithching Operation Mode.
	RESERVED000 - RESERVED000 is selected
	RESERVED001 - RESERVED001 is selected
	RESERVED010 - RESERVED010 is selected
	RESERVED011 - RESERVED011 is selected
	UNI100 - UNI100 is selected
	MSRDI110 - MSRDI110 is selected
	MSAIS111 - MSAIS111 is selected
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K2:LIN:OMODE RESERVED001
	SOUR:DATA:TEL:SDHS:ADV:APS:K2:LIN:OMODE?
	Returns: RESERVED001
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel?

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:REQuest

Description	This command selects the K1 Request for Linear Switching Mode.
	At *RST condition, this value is set to NREQUEST0000.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Linear) > Request
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:REQuest <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Linear Request
	NREQUEST0000: No Request (0000)
	DNREVERT0001: Do Not Revert (0001)
	RREQUEST0010: Reverse Request (0010)
	UNUSED0011: Unused (0011)
	EXERCISER0100: Exerciser (0100)
	UNUSED0101: Unused (0101)
	WTRESTORE0110: Wait to restore (0110)
	UNUSED0111: Unused (0111)
	MSWITCH1000: Manual Switch
	UNUSED1001: Unused (1001)
	SDLOW1010: Signal Degrade (1010)
	SDHIGH1011: Signal Degrade - High Priority (1011)
	SFLOW1100: Signal Fail - Low Priority (1100)
	SFHIGH1101: Signal Fail - High Priority (1101)
	FSWITCH1110: Forced Switch (1110)
	LPROTECTION1111: Lockout of Protection (1111)

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LI Near:REQuest

Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K1:LIN:REQ RREQUEST0010
	SOUR:DATA:TEL:SDHS:ADV:APS:K1:LIN:REQ?
	Returns: RREQUEST0010
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:SMODe

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:REQuest?

Description	This query returns the K1 request for Linear Switching Mode.
	At *RST condition, this value is set to NREQUEST0000.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Linear) > Request
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:REQuest?
Response Syntax	\<Type\>

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:LINear:REQuest?

Response(s)

Type:

The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.

Returns the Linear Request

NREQUEST0000 - No Request (0000) request type is selected.

DNREVERT0001 - Do Not Revert (0001) request type is selected.

RREQUEST0010 - Reverse Request (0010) request type is selected.

UNUSED0011 - Unused (0011) request type is selected.

EXERCISER0100 - Exerciser (0100) request type is selected.

UNUSED0101 - Unused (0101) request type is selected.

WTRESTORE0110 - Wait to restore (0110) request type is selected.

UNUSED0111 - Unused (0111) request type is selected.

MSWITCH1000 - Manual Switch request type is selected.

UNUSED1001 - Unused (1001) request type is selected.

SDLOW1010 - Signal Degrade (1010) request type is selected.

SDHIGH1011 - Signal Degrade - High Priority (1011) request type is selected.

SFLOW1100 - Signal Fail - Low Priority (1100) request type is selected.

SFHIGH1101 - Signal Fail - High Priority (1101) request type is selected.

FSWITCH1110 - Forced Switch (1110) request type is selected.

LPROTECTION1111 - Lockout of Protection (1111) request type is selected.

Example(s)

SOUR:DATA:TEL:SDHS:ADV:APS:K1:LIN:REQ RREQUEST0010

SOUR:DATA:TEL:SDHS:ADV:APS:K1:LIN:REQ?

Returns: RREQUEST0010

See Also

SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:SMODe?

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:PCHannel

Description	This command sets the Protected Channel for Linear Switching Mode
	At *RST condition, this value is set to NULL.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Linear) > Protected Channel
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:PCHannel <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the K2 Protected Channel for Linear Switching:
	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K2:PCH 1
	SOUR:DATA:TEL:SDHS:ADV:APS:K2:PCH?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:PCHannel?

Description	This query returns the Protected Channel for Linear Switching mode.
	At *RST condition, this value is set to NULL.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Linear) > Protected Channel
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:PCHannel?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Linear Swithching mode Protected Channel: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, or 15.
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K2:PCH 1
	SOUR:DATA:TEL:SDHS:ADV:APS:K2:PCH?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel?

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RI NG:OMODe

Description	This command sets the Operation mode for Ring Switching mode.
	At *RST condition, this value is set to IDLE000.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Ring) > Operation Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:OMODe <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the K2 Operation Mode for Ring Switching.
	IDLE000: IDLE (000)
	BRIDGED001: BRIDGED (001)
	BSWITCHED010: BSWITCHED (010)
	ETPROTECTION011: ETPROTECTION (011)
	RESERVED100: RESERVED (100)
	RESERVED101: RESERVED (101)
	MSRDI110: MS-RDI (110)
	MSAIS111: MS-AIS (111)
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K2:RING:OMODE IDLE000
	SOUR:DATA:TEL:SDHS:ADV:APS:K2:RING:OMODE?
	Returns: IDLE000
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:OMODe?

Description	This query returns the Operation mode for Ring Switching mode.
	At *RST condition, this value is set to IDLE000.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Ring) > Operation Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:OMODe?
Response Syntax	\<Type\>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a \<CHARACTER RESPONSE DATA\> element.
	Returns the Ring Swithching Operation Mode.
	IDLE000 - IDLE000
	BRIDGED001 - BRIDGED001 is selected
	BSWITCHED010 - BSWITCHED010 is selected
	ETPROTECTION011 - ETPROTECTION011 is selected
	RESERVED100 - RESERVED100 is selected
	RESERVED101 - RESERVED101 is selected
	MSRDI110 - MSRDI110 is selected
	MSAIS111 - MSRDI111 is selected
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K2:RING:OMODE IDLE000
	SOUR:DATA:TEL:SDHS:ADV:APS:K2:RING:OMODE?
	Returns: IDLE000
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel?

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:REQuest

Description	This command selects the K1 Request for Ring Switching Mode.
	At *RST condition, this value is set to NREQUEST0000.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Ring) > Request
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:REQuest <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Ring Request
	NREQUEST0000: No Request (0000)
	DNREVERT0001: Do Not Revert (0001)
	RREQUEST0010: Reverse Request (0010)
	UNUSED0011: Unused (0011)
	EXERCISER0100: Exerciser (0100)
	UNUSED0101: Unused (0101)
	WTRESTORE0110: Wait to restore (0110)
	UNUSED0111: Unused (0111)
	MSWITCH1000: Manual Switch
	UNUSED1001: Unused (1001)
	SDLOW1010: Signal Degrade (1010)
	SDHIGH1011: Signal Degrade - High Priority (1011)
	SFLOW1100: Signal Fail - Low Priority (1100)
	FSHIGH1101: Signal Fail - High Priority (1101)
	FSWITCH1110: Forced Switch (1110)
	LPROTECTION1111: Lockout of Protection (1111)

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:REQuest

Response Syntax	\<Type\>
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K1:RING:REQ RREQUEST0010
	SOUR:DATA:TEL:SDHS:ADV:APS:K1:RING:REQ?
	Returns: RREQUEST0010
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:SMODe

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RI NG:REQuest?

Description	This query returns the K1 request for Ring Switching Mode.
	At *RST condition, this value is set to NREQUEST0000.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Ring) > Request
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:REQuest?
Response Syntax	<Type>

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:RING:REQuest?

Response(s)

Type:

The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.

Returns the Linear Request

NREQUEST0000 - No Request (0000) request type is selected.

DNREVERT0001 - Do Not Revert (0001) request type is selected.

RREQUEST0010 - Reverse Request (0010) request type is selected.

UNUSED0011 - Unused (0011) request type is selected.

EXERCISER0100 - Exerciser (0100) request type is selected.

UNUSED0101 - Unused (0101) request type is selected.

WTRESTORE0110 - Wait to restore (0110) request type is selected.

UNUSED0111 - Unused (0111) request type is selected.

MSWITCH1000 - Manual Switch request type is selected.

UNUSED1001 - Unused (1001) request type is selected.

SDLOW1010 - Signal Degrade (1010) request type is selected.

SDHIGH1011 - Signal Degrade - High Priority (1011) request type is selected.

SFLOW1100 - Signal Fail - Low Priority (1100) request type is selected.

SFHIGH1101 - Signal Fail - High Priority (1101) request type is selected.

FSWITCH1110 - Forced Switch (1110) request type is selected.

LPROTECTION1111 - Lockout of Protection (1111) request type is selected.

Example(s)

SOUR:DATA:TEL:SDHS:ADV:APS:K1:RING:REQ RREQUEST0010

SOUR:DATA:TEL:SDHS:ADV:APS:K1:RING:REQ?

Returns: RREQUEST0010

See Also

SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:SMODe?

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:S NODe

Description	This command selects Source Node Id for Ring Switching mode.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Ring) > Source Node Id
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:SNODe <wsp><Node ID>
Parameter(s)	Node ID:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the K2 Source Node Id for Ring Switching:
	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
Response Syntax	<Type>
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K2:SNOD 1
	SOUR:DATA:TEL:SDHS:ADV:APS:K2:SNOD?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:S NODe?

Description	This query returns Source Node Id for Ring Switching mode.
	At *RST condition, this value is set to 0.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode (Ring) > Source Node Id
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:SNODe?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Source Node Id for Ring Switching mode:0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, or 15.
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:K2:SNOD 1
	SOUR:DATA:TEL:SDHS:ADV:APS:K2:SNOD?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel?

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:SMODe

Description	This command sets the switching mode
	At *RST condition, this value is set to Linear.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:SMODe <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Switching Mode.
	LINear
	RING
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:SMODe LINEAR
	SOUR:DATA:TEL:SDHS:ADV:APS:SMODe?
	Returns: LINEAR
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel

:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:SMODe?

Description	This query returns the switching mode
	At *RST condition, this value is set to Linear.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > APS > TX > Switching Mode
Syntax	:SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:SMODe?
Response Syntax	<Type>
Response(s)	**Type**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Switching mode for RS-MS advance.
	LINEAR - Linear is selected for Switching Mode.
	RING - Ring is selected for Switching Mode.
Example(s)	SOUR:DATA:TEL:SDHS:ADV:APS:SMODe LINEAR
	SOUR:DATA:TEL:SDHS:ADV:APS:SMODe?
	Returns: LINEAR
See Also	SOURce:DATA:TELecom:SDHSonet:ADVanced:APS:K[1..n]:CHANnel

Path OAM APS

:FETCh:DATA:TELecom:FETHernet:POAM:APS:BSIGnal:RECeived?

Description	This query returns the FlexE Path OAM received APS Bridged Signal.
	At *RST condition, this value is set to 0.
	Navigation Path: Functions > Path OAM APS > RX >Bridged Signal
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:APS:BSIGnal:RECeived?
Response Syntax	<Bridged Signal>
Response(s)	**Bridged Signal**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Bridged Signal
Example(s)	FETC:DATA:TEL:FETH:POAM:APS:BSIG:REC?
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated

:FETCh:DATA:TELecom:FETHernet:POAM:APS:CMCC:REQState:RECeived?

Description	This query returns the FlexE Path OAM received APS Request/State under CMCC (G873.1) standard.
	At *RST condition, this value is set to REQ_STATE_G8731_NR.
	Navigation Path: Functions > Path OAM APS > RX > Request/State
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:APS:CMCC:REQState:RECeived?
Response Syntax	<Request/State>
Response(s)	**Request/State**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Request/State:
	REQ_STATE_G8731_NR: No request
	REQ_STATE_G8731_DNR: Do not revert
	REQ_STATE_G8731_RR: Reverse request
	REQ_STATE_G8731_EXER: Exercise
	REQ_STATE_G8731_WTR: Wait-to-restore
	REQ_STATE_G8731_MS: Manual switch
	REQ_STATE_G8731_SD: Signal degrade
	REQ_STATE_G8731_SF: Signal Fail
	REQ_STATE_G8731_FS: Forced switch
	REQ_STATE_G8731_LOP: Lockout of protection
	REQ_STATE_G8731_RES: Reserved
Example(s)	FETC:DATA:TEL:FETH:POAM:APS:CMCC:REQS:REC?
See Also	SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:TYPE:GENerated

:FETCh:DATA:TELecom:FETHernet:POAM:APS:ITU:REQState:RECeived?

Description	This query returns the FlexE Path OAM received APS Request/State under ITU(G8331) standard.
	At *RST condition, this value is set to REQ_STATE_G8331_NR.
	Navigation Path: Functions > Path OAM APS > RX > Request/State
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:APS:ITU:REQState:RECeived?
Response Syntax	<Request/State>
Response(s)	**Request/State**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Request/State:
	REQ_STATE_G8331_NR: No request
	REQ_STATE_G8331_DNR: Do not revert
	REQ_STATE_G8331_RR: Reverse request
	REQ_STATE_G8331_EXER: Exercise
	REQ_STATE_G8331_WTR: Wait-to-restore
	REQ_STATE_G8331_MS: Manual switch
	REQ_STATE_G8331_SD: Signal degrade
	REQ_STATE_G8331_SF: Signal Fail
	REQ_STATE_G8331_FS: Forced switch
	REQ_STATE_G8331_LO: Lockout of protection
	REQ_STATE_G8331_RES: Reserved
Example(s)	FETC:DATA:TEL:FETH:POAM:APS:ITU:REQS:REC?
See Also	SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:TYPE:GENerated

:FETCh:DATA:TELecom:FETHernet:POAM:APS:PROTection:A:RECeived?

Description	This query returns the FlexE Path OAM received APS Protection Type byte A.
	At *RST condition, this value is set to 0.
	Navigation Path: Functions > Path OAM APS > RX > Protection Type > A
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:APS:PROTection:A:RECeived?
Response Syntax	<Byte A>
Response(s)	**Byte A**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	returns Byte A:
	PROT_TYPE_A_N_CHAN: No APS Channel
	PROT_TYPE_A_CHAN: APS Channel
Example(s)	FETC:DATA:TEL:FETH:POAM:APS:PROT:A:REC?
	Returns: PROT_TYPE_A_N_CHAN
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated

:FETCh:DATA:TELecom:FETHernet:POAM:APS:PROTection:B:RECeived?

Description	This query returns the FlexE Path OAM received APS Protection Type byte B.
	At *RST condition, this value is set to 0.
	Navigation Path: Functions > Path OAM APS > RX > Protection Type > B
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:APS:PROTection:B:RECeived?
Response Syntax	<Byte B>
Response(s)	**Byte B**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	returns Byte B:
	PROT_TYPE_B_N_PERM_1_N: 1:n (No Permanent Bridge)
	PROT_TYPE_B_PERM_1_1: 1+1 (Permanent Bridge)
Example(s)	FETC:DATA:TEL:FETH:POAM:APS:PROT:B:REC?
	Returns: PROT_TYPE_B_PERM_1_1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated

:FETCh:DATA:TELecom:FETHernet:POAM:APS:PROTection:D:RECeived?

Description	This query returns the FlexE Path OAM received APS Protection Type byte D.
	At *RST condition, this value is set to 0.
	Navigation Path: Functions > Path OAM APS > RX > Protection Type > D
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:APS:PROTection:D:RECeived?
Response Syntax	<Byte D>
Response(s)	**Byte D**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	returns Byte D:
	PROT_TYPE_D_UNIDIR: Unidirectional Switching
	PROT_TYPE_D_BIDIR: Bidirectional Switching
Example(s)	FETC:DATA:TEL:FETH:POAM:APS:PROT:D:REC?
	Returns: PROT_TYPE_D_UNIDIR
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated

:FETCh:DATA:TELecom:FETHernet:POAM:APS:PROTection:R:RECeived?

Description	This query returns the FlexE Path OAM received APS Protection Type byte R.
	At *RST condition, this value is set to 0.
	Navigation Path: Functions > Path OAM APS > RX > Protection Type > R
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:APS:PROTection:R:RECeived?
Response Syntax	<Byte R>
Response(s)	**Byte R**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	returns Byte R:
	PROT_TYPE_R_N_REV: Non-Revertive Operation
	PROT_TYPE_R_REV: Revertive Operation
Example(s)	FETC:DATA:TEL:FETH:POAM:APS:PROT:R:REC?
	Returns: PROT_TYPE_R_N_REV
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated

:FETCh:DATA:TELecom:FETHernet:POAM:APS:RESByte:RECeived?

Description	This query returns the FlexE Path OAM received APS Reserved byte.
	At *RST condition, this value is set to 0.
	Navigation Path: Functions > Path OAM APS > RX > Reserved
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:APS:RESByte:RECeived?
Response Syntax	<Reserved Byte>
Response(s)	**Reserved Byte**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Reserved Byte
Example(s)	FETC:DATA:TEL:FETH:POAM:APS:RESB:REC?
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated

:FETCh:DATA:TELecom:FETHernet:POAM:APS:RSIGnal:RECeived?

Description	This query returns the FlexE Path OAM received APS Requested Signal.
	At *RST condition, this value is set to 0.
	Navigation Path: Functions > Path OAM APS > RX > Requested Signal
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:APS:RSIGnal:RECeived?
Response Syntax	<Requested Signal>
Response(s)	**Requested Signal**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Requested Signal
Example(s)	FETC:DATA:TEL:FETH:POAM:APS:RSIG:REC?
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated

:FETCh:DATA:TELecom:FETHernet:POAM:APS:RX:MESSage:COUNt?

Description	This query returns the FlexE Path OAM APS RX message count.
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > Path OAM APS > RX > APS - RX Count
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:APS:RX:MESSage:COUNt?
Response Syntax	<Value>
Response(s)	Value:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns APS RX message count
Example(s)	FETC:DATA:TEL:FETH:POAM:APS:RX:MESS:COUN?
See Also	FETCh:DATA:TELecom:FETHernet:POAM:APS:TX:MESSage:COUNt?

:FETCh:DATA:TELecom:FETHernet:POAM:APS:TX:MESSage:COUNt?

Description	This query returns the FlexE Path OAM APS TX message count.
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > Path OAM APS > RX > APS - TX Count
Syntax	:FETCh:DATA:TELecom:FETHernet:POAM:APS:TX:MESSage:COUNt?
Response Syntax	<Value>
Response(s)	Value:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns APS TX message count
Example(s)	FETC:DATA:TEL:FETH:POAM:APS:TX:MESS:COUN?
See Also	FETCh:DATA:TELecom:FETHernet:POAM:APS:RX:MESSage:COUNt?

:SOURce:DATA:TELecom:FETHernet:POAM:APS:BSIGnal:GENerated

Description	This command sets the FlexE Path OAM generated APS Bridged Signal.
	At *RST condition, this value is set to 0
	Navigation Path: Functions > Path OAM APS > TX >Bridged Signal
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:BSIGnal:GENerated <wsp><Bridged Signal>
Parameter(s)	**Bridged Signal**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Bridged Signal
	MINimum: 0
	MAXimum: 255
	DEFault: 0
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:BSIG:GEN 123
	SOUR:DATA:TEL:FETH:POAM:APS:BSIG:GEN?
	Returns: 123
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated?

:SOURce:DATA:TELecom:FETHernet:POAM:APS:BSIGnal:GENerated?

Description	This query returns the FlexE Path OAM generated APS Bridged Signal.
	At *RST condition, this value is set to 0.
	Navigation Path: Functions > Path OAM APS > TX >Bridged Signal
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:BSIGnal:GENerated?[<wsp><Bridged Signal Limits>]
Parameter(s)	**Bridged Signal Limits**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Returns the Bridged Signal Limits
	MINimum: 0
	MAXimum: 255
	DEFault: 0
Response Syntax	<Bridged Signal>
Response(s)	**Bridged Signal**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns: the Bridged Signal
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:BSIG:GEN 123
	SOUR:DATA:TEL:FETH:POAM:APS:BSIG:GEN?
	Returns 123
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated

:SOURce:DATA:TELecom:FETHernet:POAM:APS:CMCC:REQSt ate:GENerated

Description	This command sets the FlexE Path OAM generated APS Request/State under CMCC (G873.1) standard.
	At *RST condition, this value is set to REQ_STATE_G8731_NR
	Navigation Path: Functions > Path OAM APS > TX > Request/State
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:CMCC:REQState:GENerated <wsp><Request/State>
Parameter(s)	**Request/State**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Request/State:
	REQ_STATE_G8731_NR: No request
	REQ_STATE_G8731_DNR: Do not revert
	REQ_STATE_G8731_RR: Reverse request
	REQ_STATE_G8731_EXER: Exercise
	REQ_STATE_G8731_WTR: Wait-to-restore
	REQ_STATE_G8731_MS: Manual switch
	REQ_STATE_G8731_SD: Signal degrade
	REQ_STATE_G8731_SF: Signal Fail
	REQ_STATE_G8731_FS: Forced switch
	REQ_STATE_G8731_LOP: Lockout of protection
Response Syntax	<Bridged Signal>
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:CMCC:REQS:GEN REQ_STATE_G8731_LOP
	SOUR:DATA:TEL:FETH:POAM:APS:CMCC:REQS:GEN?
	Returns: REQ_STATE_G8731_LOP
See Also	SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:TYPE:GENerated?

:SOURce:DATA:TELecom:FETHernet:POAM:APS:CMCC:REQState:GENerated?

Description	This query returns the FlexE Path OAM generated APS Request/State under CMCC (G873.1) standard.
	At *RST condition, this value is set to REQ_STATE_G8731_NR
	Navigation Path: Functions > Path OAM APS > TX > Request/State
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:CMCC:REQState:GENerated?
Response Syntax	<Request/State>
Response(s)	Request/State:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Request/State:
	REQ_STATE_G8731_NR: No request
	REQ_STATE_G8731_DNR: Do not revert
	REQ_STATE_G8731_RR: Reverse request
	REQ_STATE_G8731_EXER: Exercise
	REQ_STATE_G8731_WTR: Wait-to-restore
	REQ_STATE_G8731_MS: Manual switch
	REQ_STATE_G8731_SD: Signal degrade
	REQ_STATE_G8731_SF: Signal Fail
	REQ_STATE_G8731_FS: Forced switch
	REQ_STATE_G8731_LOP: Lockout of protection
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:CMCC:REQS:GEN REQ_STATE_G8731_LOP
	SOUR:DATA:TEL:FETH:POAM:APS:CMCC:REQS:GEN?
	Returns: REQ_STATE_G8731_LOP
See Also	SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:TYPE:GENerated

:SOURce:DATA:TELecom:FETHernet:POAM:APS:CONFiguration:APPLy

Description	This command apply trigger to configure all the APS configuration changes.
	This is an event so no *RST condition.
	Navigation Path: Functions > Path OAM APS > Apply Changes
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:CONFiguration:APPLy
Response Syntax	<Request/State>
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:CONF:APPL

:SOURce:DATA:TELecom:FETHernet:POAM:APS:ENABle

Description	This command enables/disables the FlexE Path OAM APS Function.
	At *RST condition, this value is set to OFF.
	Navigation Path: Functions > Path OAM APS > Path OAM APS
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:ENABle <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Request/State>
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:ENAB ON
	SOUR:DATA:TEL:FETH:POAM:APS:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:DELay:ENABle?

:SOURce:DATA:TELecom:FETHernet:POAM:APS:ENABle?

Description	This query returns the enable/disable status of the FlexE Path OAM APS Function.
	At *RST condition, this value is set to OFF.
	Navigation Path: Functions > Path OAM APS > Path OAM APS
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:ENABle?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the enable/disable status:
	1: Enabled
	0: Disabled
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:ENAB ON
	SOUR:DATA:TEL:FETH:POAM:APS:ENAB?
	Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:POAM:DELay:ENABle

:SOURce:DATA:TELecom:FETHernet:POAM:APS:ITU:REQState: GENerated

Description	This command sets the FlexE Path OAM generated APS Request/State under ITU (G8331) standard.
	At *RST condition, this value is set to REQ_STATE_G8331_NR
	Navigation Path: Functions > Path OAM APS > TX > Request/State
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:ITU:REQState:GENerated <wsp><Request/State>
Parameter(s)	**Request/State**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Request/State:
	REQ_STATE_G8331_NR: No request
	REQ_STATE_G8331_DNR: Do not revert
	REQ_STATE_G8331_RR: Reverse request
	REQ_STATE_G8331_EXER: Exercise
	REQ_STATE_G8331_WTR: Wait-to-restore
	REQ_STATE_G8331_MS: Manual switch
	REQ_STATE_G8331_SD: Signal degrade
	REQ_STATE_G8331_SFW: Signal Fail on Working
	REQ_STATE_G8331_FS: Forced switch
	REQ_STATE_G8331_SFP: Signal Fail on Protection
	REQ_STATE_G8331_LO: Lockout of protection
Response Syntax	<Status>
Example(s)	OUR:DATA:TEL:FETH:POAM:APS:ITU:REQS:GEN REQ_STATE_G8331_LO
	SOUR:DATA:TEL:FETH:POAM:APS:ITU:REQS:GEN?
	Returns: REQ_STATE_G8331_LO

:SOURce:DATA:TELecom:FETHernet:POAM:APS:ITU:REQState: GENerated?

Description	This query returns the FlexE Path OAM generated APS Request/State under ITU (G8331) standard.
	At *RST condition, this value is set to REQ_STATE_G8331_NR
	Navigation Path: Functions > Path OAM APS > TX > Request/State
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:ITU:REQState:GENerated?
Response Syntax	<Request/State>
Response(s)	Request/State:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Request/State:
	REQ_STATE_G8331_NR: No request
	REQ_STATE_G8331_DNR: Do not revert
	REQ_STATE_G8331_RR: Reverse request
	REQ_STATE_G8331_EXER: Exercise
	REQ_STATE_G8331_WTR: Wait-to-restore
	REQ_STATE_G8331_MS: Manual switch
	REQ_STATE_G8331_SD: Signal degrade
	REQ_STATE_G8331_SF: Signal Fail
	REQ_STATE_G8331_FS: Forced switch
	REQ_STATE_G8331_LO: Lockout of protection
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:ITU:REQS:GEN REQ_STATE_G8331_LO
	SOUR:DATA:TEL:FETH:POAM:APS:ITU:REQS:GEN?
	Returns: REQ_STATE_G8331_LO
See Also	SOURce:DATA:TELecom:FETHernet:POAM:CSIGnal:TYPE:GENerated

:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:A :GENerated

Description	This command sets the FlexE Path OAM generated APS Protection Type byte A.
	At *RST condition, this value is set to 0.
	Navigation Path: Functions > Path OAM APS > TX > Protection Type > A
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:A:GENerated <wsp><Byte A>
Parameter(s)	**Byte A**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Byte A:
	PROT_TYPE_A_N_CHAN: No APS Channel
	PROT_TYPE_A_CHAN: APS Channel
Response Syntax	<Request/State>
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:PROT:A:GEN PROT_TYPE_A_N_CHAN
	SOUR:DATA:TEL:FETH:POAM:APS:PROT:A:GEN?
	Returns: PROT_TYPE_A_N_CHAN
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated?

:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:A:GENerated?

Description	This query returns the FlexE Path OAM generated APS Protection Type byte A.
	At *RST condition, this value is set to 0.
	Navigation Path: Functions > Path OAM APS > TX > Protection Type > A
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:A:GENerated?
Response Syntax	<Byte A>
Response(s)	**Byte A**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Byte A:
	PROT_TYPE_A_N_CHAN: No APS Channel
	PROT_TYPE_A_CHAN: APS Channel
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:PROT:A:GEN PROT_TYPE_A_N_CHAN
	SOUR:DATA:TEL:FETH:POAM:APS:PROT:A:GEN?
	Returns: PROT_TYPE_A_N_CHAN
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated

:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:B :GENerated

Description	This command sets the FlexE Path OAM generated APS Protection Type byte B.
	At *RST condition, this value is set to 0.
	Navigation Path: Functions > Path OAM APS > TX > Protection Type > B
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:B:GENerated <wsp><Byte B>
Parameter(s)	**Byte B**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Byte B:
	PROT_TYPE_B_N_PERM_1_N: 1:n (No Permanent Bridge)
	PROT_TYPE_B_PERM_1_1: 1+1 (Permanent Bridge)
Response Syntax	<Byte A>
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:PROT:B:GEN PROT_TYPE_B_N_PERM_1_N
	SOUR:DATA:TEL:FETH:POAM:APS:PROT:B:GEN?
	Returns: PROT_TYPE_B_N_PERM_1_N
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated?

:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:B :GENerated?

Description	This query returns the FlexE Path OAM generated APS Protection Type byte B.
	At *RST condition, this value is set to 0.
	Navigation Path: Functions > Path OAM APS > TX > Protection Type > B
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:B:GENerated?
Response Syntax	<Byte B>
Response(s)	**Byte B**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Byte B:
	PROT_TYPE_B_N_PERM_1_N: 1:n (No Permanent Bridge)
	PROT_TYPE_B_PERM_1_1: 1+1 (Permanent Bridge)
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:PROT:B:GEN PROT_TYPE_B_N_PERM_1_N
	SOUR:DATA:TEL:FETH:POAM:APS:PROT:B:GEN?
	Returns: PROT_TYPE_B_N_PERM_1_N
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated

:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:D :GENerated

Description	This command sets the FlexE Path OAM generated APS Protection Type byte D.
	At *RST condition, this value is set to 0.
	Navigation Path: Functions > Path OAM APS > TX > Protection Type > D
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:D:GENerated <wsp><Byte D>
Parameter(s)	**Byte D**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets Byte D:
	PROT_TYPE_D_UNIDIR: Unidirectional Switching
	PROT_TYPE_D_BIDIR: Bidirectional Switching
Response Syntax	<Byte B>
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:PROT:D:GEN PROT_TYPE_D_UNIDIR
	SOUR:DATA:TEL:FETH:POAM:APS:PROT:D:GEN?
	Returns: PROT_TYPE_D_UNIDIR
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated?

:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:D :GENerated?

Description	This query returns the FlexE Path OAM generated APS Protection Type byte D.
	At *RST condition, this value is set to 0.
	Navigation Path: Functions > Path OAM APS > TX > Protection Type > D
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:D:GENerated?
Response Syntax	<Byte D>
Response(s)	**Byte D**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Byte D:
	PROT_TYPE_D_UNIDIR: Unidirectional Switching
	PROT_TYPE_D_BIDIR: Bidirectional Switching
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:PROT:D:GEN PROT_TYPE_D_UNIDIR
	SOUR:DATA:TEL:FETH:POAM:APS:PROT:D:GEN?
	Returns: PROT_TYPE_D_UNIDIR
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated

:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:R :GENerated

Description	This command sets the FlexE Path OAM generated APS Protection Type byte R.
	At *RST condition, this value is set to 0.
	Navigation Path: Functions > Path OAM APS > TX > Protection Type > R
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:R:GENerated <wsp><Byte R>
Parameter(s)	**Byte R**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets Byte R:
	PROT_TYPE_R_N_REV: Non-Revertive Operation
	PROT_TYPE_R_REV: Revertive Operation
Response Syntax	<Byte D>
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:PROT:R:GEN PROT_TYPE_R_N_REV
	SOUR:DATA:TEL:FETH:POAM:APS:PROT:R:GEN?
	Returns: PROT_TYPE_R_N_REV
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated?

:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:R :GENerated?

Description	This query returns the FlexE Path OAM generated APS Protection Type byte R.
	At *RST condition, this value is set to 0.
	Navigation Path: Functions > Path OAM APS > TX > Protection Type > R
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:PROTection:R:GENerated?
Response Syntax	<Byte R>
Response(s)	**Byte R**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Byte R:
	PROT_TYPE_R_N_REV: Non-Revertive Operation
	PROT_TYPE_R_REV: Revertive Operation
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:PROT:R:GEN PROT_TYPE_R_N_REV
	SOUR:DATA:TEL:FETH:POAM:APS:PROT:R:GEN?
	Returns: PROT_TYPE_R_N_REV
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated

:SOURce:DATA:TELecom:FETHernet:POAM:APS:RESByte:GENerated

Description	This command sets the FlexE Path OAM generated APS Reserved byte.
	At *RST condition, this value is set to 0
	Navigation Path: Functions > Path OAM APS > TX > Reserved
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:RESByte:GENerated <wsp><Reserved Byte>
Parameter(s)	**Reserved Byte**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Reserved Byte
	MINimum: 0
	MAXimum: 255
	DEFault: 0
Response Syntax	<Byte R>
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:RESB:GEN 123
	SOUR:DATA:TEL:FETH:POAM:APS:RESB:GEN?
	Returns: 123
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated?

:SOURce:DATA:TELecom:FETHernet:POAM:APS:RESByte:GENerated?

Description	This query returns the FlexE Path OAM generated APS Reserved byte.
	At *RST condition, this value is set to 0
	Navigation Path: Functions > Path OAM APS > TX > Reserved
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:RESByte:GENerated?[<wsp><Reserved Byte Limits>]
Parameter(s)	**Reserved Byte Limits**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Returns the Reserved Byte Limits
	MINimum: 0
	MAXimum: 255
	DEFault: 0
Response Syntax	<Reserved Byte>
Response(s)	**Reserved Byte**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns: the Reserved Byte
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:RESB:GEN 123
	SOUR:DATA:TEL:FETH:POAM:APS:RESB:GEN?
	Returns 123
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated

:SOURce:DATA:TELecom:FETHernet:POAM:APS:RSIGnal:GENerated

Description	This command sets the FlexE Path OAM generated APS Requested Signal.
	At *RST condition, this value is set to 0
	Navigation Path: Functions > Path OAM APS > TX > Requested Signal
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:RSIGnal:GENerated <wsp><Requested Signal>
Parameter(s)	**Requested Signal**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Requested Signal
	MINimum: 0
	MAXimum: 255
	DEFault: 0
Response Syntax	<Reserved Byte>
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:RSIG:GEN 123
	SOUR:DATA:TEL:FETH:POAM:APS:RSIG:GEN?
	Returns: 123
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated?

:SOURce:DATA:TELecom:FETHernet:POAM:APS:RSIGnal:GENerated?

Description	This query returns the FlexE Path OAM generated APS Requested Signal.
	At *RST condition, this value is set to 0
	Navigation Path: Functions > Path OAM APS > TX > Requested Signal
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:RSIGnal:GENerated?[<wsp><Requested Signal Limit>]
Parameter(s)	**Requested Signal Limit**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Returns the Requested Signal
	MINimum: 0
	MAXimum: 255
	DEFault: 0
Response Syntax	<Requested Signal>
Response(s)	**Requested Signal**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Requested Signal
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:RSIG:GEN 123
	SOUR:DATA:TEL:FETH:POAM:APS:RSIG:GEN?
	Returns: 123
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated

:SOURce:DATA:TELecom:FETHernet:POAM:APS:STANdard

Description	This command sets the FlexE Path OAM generated APS Request/State Interpretation standard used.
	At *RST condition, this value is set to APS_STANDARD_G873_1
	Navigation Path: Functions > Path OAM APS > Request/State Interpretation
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:STANdard <wsp><Standard>
Parameter(s)	Standard:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Request/State Interpretation standard
	APS_STANDARD_G873_1: CMCC (G873.1) standard
	APS_STANDARD_G8331: ITU (G8331) standard
Response Syntax	<Requested Signal>
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:STAN APS_STANDARD_G8331
	SOUR:DATA:TEL:FETH:POAM:APS:STAN?
	Returns: APS_STANDARD_G8331
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated?

:SOURce:DATA:TELecom:FETHernet:POAM:APS:STANdard?

Description	This query returns the FlexE Path OAM generated APS Request/State Interpretation standard used.
	At *RST condition, this value is set to APS_STANDARD_G873_1
	Navigation Path: Functions > Path OAM APS > Request/State Interpretation
Syntax	:SOURce:DATA:TELecom:FETHernet:POAM:APS:STANdard?
Response Syntax	<Standard>
Response(s)	**Standard**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Request/State Interpretation standard
	APS_STANDARD_G873_1: CMCC (G873.1) standard
	APS_STANDARD_G8331: ITU (G8331) standard
Example(s)	SOUR:DATA:TEL:FETH:POAM:APS:STAN APS_STANDARD_G8331
	SOUR:DATA:TEL:FETH:POAM:APS:STAN?
	Returns: APS_STANDARD_G8331
See Also	SOURce:DATA:TELecom:FETHernet:POAM:APS:REQState:GENerated

OH - OTN

:SENSe:DATA:TELecom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead?

Description	This query returns the overhead byte values for overclocked rates OTU3e1/2.
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > OH
Syntax	:SENSe:DATA:TELecom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead? <wsp><Overhead>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects overhead bytes.
	Note: The combination of row and column number is used along with overhead byte. For Ex: TCM625, here TCM6 is overhead byte, 2 is row number, and 5 is column number.
	RES21, RES22, RES23, RES49, RES410, RES411, RES412, RES413, RES414, RES115
	TCM625, TCM626, TCM627, TCM528, TCM529, TCM5210, TCM4211, TCM4212,TCM4213, TCM331, TCM332, TCM137,TCM138, TCM139, TCM333, TCM234, TCM235, TCM236
	PM310, PM311, PM312
	EXP313, EXP314,
	GCC141, GCC142, GCC243, GCC244, GCC245
	APSPCC45, APSPCC46, APSPCC47, APSPCC48
	FTFL214
	TCMACT24
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the overhead byte values in hexadecimal format.
Example(s)	SENS:DATA:TEL:OTN:OH:ODU3:E1:OVER? RES21
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead

:SENSe:DATA:TELecom:OTN:OH:ODU[1..n]:F:OVERhead?

Description	This query returns the overhead byte values for non-standard rates OTU(1/2)F
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > OH
Syntax	:SENSe:DATA:TELecom:OTN:OH:ODU[1..n]:F:OVERhead? <wsp><Overhead>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects overhead bytes.
	TCM137, TCM138, TCM139, TCM234, TCM235, TCM236, TCM625, TCM626, TCM627, TCM4211, TCM4212, TCM4213
	Note: The combination of row and column number is used along with overhead byte. For Ex: TCM625, here TCM6 is overhead byte, 2 is row number, and 5 is column number.
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the overhead byte values in hexadecimal format.
Example(s)	SENS:DATA:TEL:OTN:OH:ODU1:F:OVER? RES21
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead

:SENSe:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead?

Description	This query returns the Optical Transport Unit (OTU) overhead byte values for the receiver.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > OH
	NOTE: For ODU[1..n], use ODU100 for ODU0 and ODU101 for ODUflex, ODU200 for OTUC, ODU300 for OTUCN.
Syntax	:SENSe:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead? <wsp><Overhead>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects ODU overhead bytes.
	APSPCC45, APSPCC46, APSPCC47, APSPCC48
	EXP313, EXP314
	FTFL214
	GCC141, GCC142, GCC243, GCC244
	PM310, PM311, PM312
	PMTcm
	RES115, RES21, RES22, RES410, RES411, RES412, RES413, RES414, RES49
	TCM137, TCM138, TCM139, TCM234, TCM235, TCM236, TCM331, TCM332, TCM333, TCM528, TCM529, TCM625, TCM626, TCM627, TCM4211, TCM4212, TCM4213, TCM5210
	TCMACT24
	Note: The combination of row and column numbers is used along with the overhead byte. For example: TCM625, here TCM6 is the overhead byte, 2 is the row number, and 5 is the column number.
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the ODU overhead byte values in hexadecimal format.
Example(s)	SENS:DATA:TEL:OTN:OH:ODU1:OVER? RES21
See Also	SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:OVERhead

:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:E:OVERhead?

Description	This query returns the Optical Payload Unit (OPU) E overhead byte values for the transmitter.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > OH
Syntax	:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:E:OVERhead? <wsp><Overhead>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects OPU overhead bytes.
	RES115
	RES215
	RES315
	RES116
	JC116
	RES216
	JC216
	RES316
	JC316e.
	NJO416
	JC6.
	JC5
	JC4
	JC3
	JC2
	JC1
	RES416
	JC116
	OMFI
	Note: The combination of row and column number is used along with the overhead byte. For Example: RES115, here RES is the overhead byte, 1 is the row number, and 15 is the column number.
Response Syntax	<Value>

:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:E:OVERhead?

Response(s)	Value:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the OPU overhead byte values in hexadecimal format.
	RES115, RES115 is selected as the overhead byte.
	RES215, RES215 is selected as the overhead byte.
	RES315, RES315 is selected as the overhead byte.
	RES116, RES116 is selected as the overhead byte.
	JC116, JC116 as is selected the overhead byte.
	RES216, RES216 is selected as the overhead byte.
	JC216, JC216 is selected as the overhead byte.
	RES316, RES316 is selected as the overhead byte.
	JC316, JC316 is selected as the overhead byte.
	NJO416, NJO416 is selected as overhead byte.
	JC6, JC6 is selected as the overhead byte.
	JC5, JC5 is selected as the overhead byte.
	JC4, JC4 is selected as the overhead byte.
	JC3, JC3 is selected as the overhead byte.
	JC2, JC2 is selected as the overhead byte.
	JC1, JC1 is selected as the overhead byte.
	RES416, RES416 is selected as the overhead byte.
	JC116, JC16 is selected as the overhead byte.
	OMFI, OMFI is selected as the overhead byte.
Example(s)	SENS:DATA:TEL:OTN:OH:OPU1:E:OVER? RES21
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead

:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:E:PSI?

Description	This query returns the Optical Payload Unit (OPU) E overhead byte values for the receiver.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > OH > OTU/ODU > RX > PSI
Syntax	:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:E:PSI? <wsp><PSI>
Parameter(s)	**PSI**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects OPU PSI Bytes.
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the OPU PSI byte values in hexadecimal format.
Example(s)	SENS:DATA:TEL:OTN:OH:OPU1:E:PSI? 21
See Also	SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:PSI

:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:F:OVERhead?

Description	This query returns the Optical Payload Unit (OPU) F overhead byte values for the transmitter.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > OH
Syntax	:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:F:OVERhead? <wsp><Overhead>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects OPU overhead bytes.
	RES115
	RES215
	RES315
	RES116
	JC116
	RES216
	JC216
	RES316
	JC316
	NJO416
	JC6
	JC5
	JC4
	JC3
	JC2
	JC1
	RES416
	JC116
	OMF
	Note: The combination of row and column number is used along with the overhead byte. For Example: RES115, here RES is the overhead byte, 1 is the row number, and 15 is the column number.
Response Syntax	<Value>

:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:F:OVERhead?

Response(s)	Value:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the OPU overhead byte values in hexadecimal format.
Example(s)	SENS:DATA:TEL:OTN:OH:OPU1:F:OVER? RES21
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead

:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:F:PSI?

Description	This query returns the Optical Payload Unit (OPU) F overhead byte values for the receiver.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > OH > OTU/ODU > RX > PSI
Syntax	:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:F:PSI? <wsp><PSI>
Parameter(s)	**PSI**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects OPU PSI Bytes.
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the OPU PSI byte values in hexadecimal format.
Example(s)	SENS:DATA:TEL:OTN:OH:OPU1:F:PSI? 21
See Also	SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:PSI

:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:OVERhead?

Description	This query returns the Optical Payload Unit (OPU) overhead byte values for the transmitter.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > OH
	NOTE: For OPU[1..n], use OPU100 for OPU0 and OPU101 for OPUflex, OPU200 for OTUC, OPU300 for OTUCN.
Syntax	:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:OVERhead? <wsp><Overhead>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects OPU overhead bytes.
	RES115
	RES215
	RES315
	RES116
	JC116
	RES216
	JC216
	RES316
	JC316
	NJO416
	JC6
	JC5e.
	JC4
	JC3
	JC2
	JC1
	RES416
	JC116.
	OMFI
	Note: The combination of row and column number is used along with the overhead byte. For Example: RES115, here RES is the overhead byte, 1 is the row number, and 15 is the column number.

:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:OVERhead?

Response Syntax	\<Value\>
Response(s)	**Value**: The response data syntax for the first parameter is defined as a \<NR1 NUMERIC RESPONSE DATA\> element. Returns the OPU overhead byte values in hexadecimal format.
Example(s)	SENS:DATA:TEL:OTN:OH:OPU:OVER? JC5
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead

:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:PSI?

Description	This query returns the Optical Payload Unit (OPU) overhead byte values for the receiver.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > OH > OTU/ODU > RX > PSI
	NOTE: For OPU[1..n], use OPU100 for OPU0 and OPU101 for OPUflex, OPU200 for OTUC, OPU300 for OTUCN.
Syntax	:SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:PSI? <wsp><PSI>
Parameter(s)	**PSI**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects OPU PSI Bytes.
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the OPU PSI byte values in hexadecimal format.
Example(s)	SENS:DATA:TEL:OTN:OH:OPU:PSI? 21
See Also	SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:PSI

:SENSe:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead?

Description	This query returns the overhead byte values for overclocked rates OTU3e1/2.
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > OH
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SENSe:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead? <wsp><Overhead>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects overhead bytes for non standard rates OTU3e1/2.
	OA111
	OA112
	OA113
	OA214
	OA215
	OA216
	MFAS17
	SM18
	SM19
	SM110
	GCC0111
	GCC0112
	RES113
	RES114
	Note: The combination of row and column number is used along with overhead byte. For Ex: OA112, here OA1 is overhead byte, 1 is row number, and 2 is column number.
Response Syntax	<Value>

:SENSe:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead?

Response(s)	Value:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the overhead byte values in hexadecimal format.
Example(s)	SENS:DATA:TEL:OTN:OH:OTU3:E1:OVER? OA111
See Also	SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead

:SENSe:DATA:TELecom:OTN:OH:OTU[1..n]:F:OVERhead?

Description	This query returns the overhead byte values for non-standard rates OTU(1/2)f
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > OH
Syntax	:SENSe:DATA:TELecom:OTN:OH:OTU[1..n]:F:OVERhead? <wsp><Overhead>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects overhead bytes for non standard rates OTU1e/2e.
	OA111: OA1
	OA112: OA1
	OA113: OA1
	OA214: OA2
	OA215: OA2
	OA216: OA2
	MFAS17: MFAS
	SM18: SM
	SM19: SM
	SM110: SM
	GCC0111: GCC0
	GCC0112: GCC0
	RES113: RES
	RES114: RES
	Note: The combination of row and column number is used along with overhead byte. For Ex: OA112, here OA1 is overhead byte, 1 is row number, and 2 is column number.
Response Syntax	<Value>

:SENSe:DATA:TELecom:OTN:OH:OTU[1..n]:F:OVERhead?

Response(s)	Value:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the overhead byte values in hexadecimal format.
Example(s)	SENS:DATA:TEL:OTN:OH:OTU1:F:OVER? OA111
See Also	SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead

:SENSe:DATA:TELecom:OTN:OH:OTU[1..n]:OVERhead?

Description	This query returns the Optical Transport Unit (OTU) overhead byte values for the receiver.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > OH
Syntax	:SENSe:DATA:TELecom:OTN:OH:OTU[1..n]:OVERhead? <wsp><Overhead>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects OTU overhead bytes.
	OA111
	OA112
	OA113
	OA214
	OA215
	OA216
	MFAS17
	SM18
	SM19
	SM110
	GCC0111
	GCC0112
	RES113
	RES114
	Note: The combination of row and column numbers is used along with the overhead byte. For example: OA112, here OA1 is the overhead byte, 1 is the row number, and 2 is the column number.
Response Syntax	<Value>

:SENSe:DATA:TELecom:OTN:OH:OTU[1..n]:OVERhead?

Response(s)	Value:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the OTU overhead byte values in hexadecimal format.
	OA111, OA111 is selected as the overhead byte.
	OA112, OA112 is selected as the overhead byte.
	OA113, OA113 is selected as the overhead byte.
	OA214, OA214 is selected as the overhead byte.
	OA215, OA215 is selected as the overhead byte.
	OA216, OA216 is selected as the overhead byte.
	MFAS17, MFAS17 is selected as the overhead byte.
	SM18, SM18 is selected as the overhead byte.
	SM19, SM19 is selected as the overhead byte.
	SM110, SM110 is selected as the overhead byte.
	GCC0111, GCC0111 is selected as the overhead byte.
	GCC0112, GCC0112 is selected as the overhead byte.
	RES113, RES113 is selected as the overhead byte.
	RES114, RES114 is selected as the overhead byte.
Example(s)	SENS:DATA:TEL:OTN:OH:OTU3:OVER? OA111
See Also	SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:OVERhead

:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:E[1..n]:DEFault

Description	This command resets or overwrites the overhead byte values for overclocked rates OTU3e1/2.
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:E[1..n]:DEFault
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:ODU3:E1:DEF
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead?

:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead

Description	This command sets the overhead byte values for overclocked rates OTU3e1/2.
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead <wsp><Overhead>, <Value>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects overhead bytes for non standard rates OTU3e1/2.
	Note: The combination of row and column number is used along with overhead byte. For Ex: TCM625, here TCM6 is overhead byte, 2 is row number, and 5 is column number.
	APSPCC45, APSPCC46, APSPCC47, APSPCC48,
	EXP313, EXP314,
	FTFL214,
	GCC141, GCC142, GCC243, GCC244,
	PM310, PM311, PM312, PMTcm,
	RES21, RES22, RES410, RES411, RES412, RES413, RES414, RES49,
	TCM137, TCM138, TCM139, TCM234, TCM235, TCM236, TCM331, TCM332, TCM333, TCM4211, TCM4212, TCM4213, TCM5210, TCM528, TCM529, TCM625, TCM626, TCM627, TCMACT24
	Value:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the overhead byte values.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:ODU3:E1:OVER RES21, #HF6
	SOUR:DATA:TEL:OTN:OH:ODU3:E1:OVER? RES21
	Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead?

:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead?

Description	This query returns the overhead byte values for overclocked rates OTU3e1/2.
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead? <wsp><Overhead>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects overhead bytes for non standard rates OTU3e1/2.
	Note: The combination of row and column number is used along with overhead byte. For Ex: TCM625, here TCM6 is overhead byte, 2 is row number, and 5 is column number.
	APSPCC45, APSPCC46, APSPCC47, APSPCC48,
	EXP313, EXP314,
	FTFL214,
	GCC141, GCC142, GCC243, GCC244,
	PM310, PM311, PM312, PMTcm,
	RES21, RES22, RES410, RES411, RES412, RES413, RES414, RES49,
	TCM137, TCM138, TCM139, TCM234, TCM235, TCM236, TCM331, TCM332, TCM333, TCM4211, TCM4212, TCM4213, TCM5210, TCM528, TCM529, TCM625, TCM626, TCM627, TCMACT24
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the overhead byte values.
Example(s)	SOUR:DATA:TEL:OTN:OH:ODU3:E1:OVER RES21, #HF6
	SOUR:DATA:TEL:OTN:OH:ODU3:E1:OVER? RES21
	Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead

:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:F:DEFault

Description	This command resets or overwrites the overhead byte values for non-standard rates ODU(1/2)f
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:F:DEFault
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:ODU1:F:DEF
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:DEFault

:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:F:OVERhead

Description	This command sets the overhead byte values for non-standard rates ODU(1/2)f
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:F:OVERhead <wsp><Overhead>, <Value>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects overhead bytes for non standard rates OTU1e/2e.
	Note: The combination of row and column number is used along with overhead byte. For Ex: TCM625, here TCM6 is overhead byte, 2 is row number, and 5 is column number.
	APSPCC45, APSPCC46, APSPCC47, APSPCC48,
	EXP313, EXP314,
	FTFL214,
	GCC141, GCC142, GCC243, GCC244,
	PM310, PM311, PM312, PMTcm,
	RES21, RES22, RES410, RES411, RES412, RES413, RES414, RES49,
	TCM137, TCM138, TCM139, TCM234, TCM235, TCM236, TCM331, TCM332, TCM333, TCM4211, TCM4212, TCM4213, TCM5210, TCM528, TCM529, TCM625, TCM626, TCM627, TCMACT24
	Value:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the overhead byte values.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:ODU1:F:OVER RES21, #HF6
	SOUR:DATA:TEL:OTN:OH:ODU1:F:OVER? RES21
	Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead?

:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:F:OVERhead?

Description	This query returns the overhead byte values for non-standard rates ODU(1/2)f
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:F:OVERhead? <wsp><Overhead>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects overhead bytes for non standard rates OTU1e/2e.
	Note: The combination of row and column number is used along with overhead byte. For Ex: TCM625, here TCM6 is overhead byte, 2 is row number, and 5 is column number.
	APSPCC45, APSPCC46, APSPCC47, APSPCC48,
	EXP313, EXP314,
	FTFL214,
	GCC141, GCC142, GCC243, GCC244,
	PM310, PM311, PM312, PMTcm,
	RES21, RES22, RES410, RES411, RES412, RES413, RES414, RES49,
	TCM137, TCM138, TCM139, TCM234, TCM235, TCM236, TCM331, TCM332, TCM333, TCM4211, TCM4212, TCM4213, TCM5210, TCM528, TCM529, TCM625, TCM626, TCM627, TCMACT24
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the overhead byte values in hexadecimal format.
Example(s)	SOUR:DATA:TEL:OTN:OH:ODU1:F:OVER RES21, #HF6
	SOUR:DATA:TEL:OTN:OH:ODU1:F:OVER? RES21
	Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:E[1..n]:OVERhead

:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead

Description	This command sets the Optical Data Unit (ODU) overhead byte values for the transmitter.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > OH
	NOTE: For ODU[1..n], use ODU100 for ODU0 and ODU101 for ODUflex, ODU200 for OTUC, ODU300 for OTUCN.
Syntax	:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead <wsp><Overhead>, <Value>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects ODU overhead bytes.
	Note: The combination of row and column numbers is used along with the overhead byte. For example: TCM625, here TCM6 is the overhead byte, 2 is the row number, and 5 is the column number.
	APSPCC45, APSPCC46, APSPCC47, APSPCC48,
	EXP313, EXP314,
	FTFL214,
	GCC141, GCC142, GCC243, GCC244,
	PM310, PM311, PM312, PMTcm,
	RES115, RES21, RES22, RES410, RES411, RES412, RES413, RES414, RES49,
	TCM137, TCM138, TCM139, TCM234, TCM235, TCM236, TCM331, TCM332, TCM333, TCM4211, TCM4212, TCM4213, TCM5210, TCM528, TCM529, TCM625, TCM626, TCM627, TCMACT24
	Value:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Optical Data Unit (ODU) overhead byte values.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:ODU1:OVER RES21, #HF6
	SOUR:DATA:TEL:OTN:OH:ODU1:OVER? RES21
	Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:OVERhead?

:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead?

Description	This query returns the Optical Data Unit (ODU) overhead byte values for the transmitter.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > OH
	NOTE: For ODU[1..n], use ODU100 for ODU0 and ODU101 for ODUflex, ODU200 for OTUC, ODU300 for OTUCN.
Syntax	:SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead? <wsp><Overhead>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects ODU overhead bytes.
	Note: The combination of row and column numbers is used along with the overhead byte. For example: TCM625, here TCM6 is the overhead byte, 2 is the row number, and 5 is the column number.
	APSPCC45, APSPCC46, APSPCC47, APSPCC48,
	EXP313, EXP314,
	FTFL214,
	GCC141, GCC142, GCC243, GCC244,
	PM310, PM311, PM312, PMTcm,
	RES115, RES21, RES22, RES410, RES411, RES412, RES413, RES414, RES49,
	TCM137, TCM138, TCM139, TCM234, TCM235, TCM236, TCM331, TCM332, TCM333, TCM4211, TCM4212, TCM4213, TCM5210, TCM528, TCM529, TCM625, TCM626, TCM627, TCMACT24
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the ODU overhead byte values in hexadecimal format.
Example(s)	SOUR:DATA:TEL:OTN:OH:ODU1:OVER RES21, #HF6
	SOUR:DATA:TEL:OTN:OH:ODU1:OVER? RES21
	Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:OVERhead

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:E:OVERhead

Description	This command sets the Optical Payload Unit (OPU) E overhead byte values for the transmitter. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:E:OVERhead <wsp><Overhead>, <Value>
Parameter(s)	**Overhead**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects OPU overhead bytes. JC6 JC5 JC4 JC3 JC2 JC1 RES416 JC116 NJO416 OMFI **Value**: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the Optical Payload Unit (OPU) overhead byte values.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:OPU1:E:OVER JC6, #HF6
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead?

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:E:OVERhead?

Description	This command sets the Optical Payload Unit (OPU) E overhead byte values for the transmitter.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:E:OVERhead? <wsp><Overhead>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects OPU overhead bytes.
	JC6
	JC5
	JC4.
	JC3
	JC2
	JC1
	RES416
	JC116
	NJO416
	OMFI
Response Syntax	<Value>

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:E:OVERhead?

Response(s)	Value:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the OPU overhead byte values in hexadecimal format.
	JC6, indicates JC6 as the overhead byte.
	JC5, indicates JC5 as the overhead byte.
	JC4, indicates JC4 as the overhead byte.
	JC3, indicates JC3 as the overhead byte.
	JC2, indicates JC2 as the overhead byte.
	JC1, indicates JC1 as the overhead byte.
	RES416, indicates RES416 as the overhead byte.
	JC116, indicates JC116 as the overhead byte.
	NJO416, indicates NJO416 as the overhead byte.
	OMFI, indicates OMFI as the overhead byte.
Example(s)	SOUR:DATA:TEL:OTN:OH:OPU1:E:OVER JC6, #HF6
	SOUR:DATA:TEL:OTN:OH:OPU1:E:OVER? JC6
	Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:E:PSI

Description	This command sets the Optical Payload Unit (OPU) E overhead byte values for the transmitter.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > OH > OTU/ODU > TX > PSI
Syntax	:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:E:PSI <wsp><PSI>, <Value>
Parameter(s)	**PSI**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects OPU PSI Bytes.
	Value:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Optical Payload Unit (OPU) PSI byte values.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:OPU1:E:PSI 115,#HF6
	SOUR:DATA:TEL:OTN:OH:OPU1:E:PSI? 115
	Returns: 246
See Also	SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:PSI?

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:E:PSI?

Description	This query returns the Optical Payload Unit (OPU) E overhead byte values for the transmitter.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > OH > OTU/ODU > TX > PSI
Syntax	:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:E:PSI? <wsp><PSI>
Parameter(s)	**PSI**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects OPU PSI Bytes.
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the OPU PSI byte values in hexadecimal format.
Example(s)	SOUR:DATA:TEL:OTN:OH:OPU1:E:PSI 115,#HF6
	SOUR:DATA:TEL:OTN:OH:OPU1:E:PSI? 115
	Returns: 246
See Also	SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:PSI?

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:F:OVERhead

Description	This command sets the Optical Payload Unit (OPU) F overhead byte values for the transmitter.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:F:OVERhead <wsp><Overhead>, <Value>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects OPU overhead bytes.
	JC6
	JC5
	JC3
	JC2
	JC1
	RES416
	JC116
	NJO416
	OMFI
	Value:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Optical Payload Unit (OPU) overhead byte values.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:OPU1:F:OVER JC6, #HF6
	SOUR:DATA:TEL:OTN:OH:OPU1:F:OVER? JC6
	Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead?

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:F:OVERhead?

Description	This command sets the Optical Payload Unit (OPU) F overhead byte values for the transmitter.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:F:OVERhead? <wsp><Overhead>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects OPU overhead bytes.
	JC6
	JC5
	JC4.
	JC3
	JC2
	JC1
	RES416
	JC116.
	NJO416
	OMFI
Response Syntax	<Value>

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:F:OVERhead?

Response(s)

Value:

The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the OPU overhead byte values in hexadecimal format.

JC6, JC6 is selected as the overhead byte.

JC5, JC5 is selected as the overhead byte.

JC4, JC4 is selected as the overhead byte.

JC3, JC3 is selected as the overhead byte.

JC2, JC2 is selected as the overhead byte.

JC1, JC1 is selected as the overhead byte.

RES416, RES416 is selected as the overhead byte.

JC116, JC116 is selected as the overhead byte.

NJO416, NJO416 is selected as the overhead byte.

OMFI, OMFI is selected as the overhead byte.

Example(s)

SOUR:DATA:TEL:OTN:OH:OPU1:F:OVER JC6, #HF6

SOUR:DATA:TEL:OTN:OH:OPU1:F:OVER? JC6

Returns: 246

See Also

SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:F:PSI

Description	This command sets the Optical Payload Unit (OPU) F overhead byte values for the transmitter.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > OH > OTU/ODU > TX > PSI
Syntax	:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:F:PSI <wsp><PSI>, <Value>
Parameter(s)	**PSI**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects OPU PSI Bytes.
	Value:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Optical Payload Unit (OPU) PSI byte values.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:OPU1:F:PSI 115,#HF6
	SOUR:DATA:TEL:OTN:OH:OPU1:F:PSI? 115
	Returns: #HF6
See Also	SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:PSI?

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:F:PSI?

Description	This query returns the Optical Payload Unit (OPU) F overhead byte values for the transmitter.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > OH > OTU/ODU > TX > PSI
Syntax	:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:F:PSI? <wsp><PSI>
Parameter(s)	**PSI**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects OPU PSI Bytes.
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the OPU PSI byte values in hexadecimal format.
Example(s)	SOUR:DATA:TEL:OTN:OH:OPU1:F:PSI 115,#HF6
	SOUR:DATA:TEL:OTN:OH:OPU1:F:PSI? 115
	Returns: 246
See Also	SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:PSI?

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:OVERhead

Description	This command sets the Optical Payload Unit (OPU) overhead byte values for the transmitter.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > OH
	NOTE: For OPU[1..n], use OPU100 for OPU0 and OPU101 for OPUflex, OPU200 for OTUC, OPU300 for OTUCN.
Syntax	:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:OVERhead <wsp><Overhead>, <Value>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects OPU overhead bytes.
	JC1, JC116, JC2, JC216, JC3, JC316, JC4, JC5, JC6,
	NJO416,
	OMFI,
	PSI,
	RES115, RES116, RES215, RES216, RES315, RES316, RES416
	Value:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Optical Payload Unit (OPU) overhead byte values.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:OPU3:OVER JC5, #HF6
	SOUR:DATA:TEL:OTN:OH:OPU3:OVER? JC5
	Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead?

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:OVERhead?

Description	This command sets the Optical Payload Unit (OPU) overhead byte values for the transmitter.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > OH
	NOTE: For OPU[1..n], use OPU100 for OPU0 and OPU101 for OPUflex, OPU200 for OTUC, OPU300 for OTUCN.
Syntax	:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:OVERhead? <wsp><Overhead>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects OPU overhead bytes.
	JC1, JC116, JC2, JC216, JC3, JC316, JC4, JC5, JC6,
	NJO416,
	OMFI,
	PSI,
	RES115, RES116, RES215, RES216, RES315, RES316, RES416
Response Syntax	<Value>

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:OVERhead?

Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the OPU overhead byte values in hexadecimal format.
	JC6, JC6 is selected as the overhead byte.
	JC5, JC5 is selected as the overhead byte.
	JC4, JC4 is selected as the overhead byte.
	JC3, JC3 is selected as the overhead byte.
	JC2, JC2 is selected as the overhead byte.
	JC1, JC1 is selected as the overhead byte.
	RES416, RES416 is selected as the overhead byte.
	JC116, JC116 is selected as the overhead byte.
	NJO416, NJO416 is selected as the overhead byte.
	OMFI, OMFI is selected as the overhead byte.
Example(s)	SOUR:DATA:TEL:OTN:OH:OPU3:OVER JC5, #HF6
	SOUR:DATA:TEL:OTN:OH:OPU3:OVER? JC5
	Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:PSI

Description	This command sets the Optical Payload Unit (OPU) overhead byte values for the transmitter.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > OH > OTU/ODU > TX > PSI
	NOTE: For OPU[1..n], use OPU100 for OPU0 and OPU101 for OPUflex, OPU200 for OTUC, OPU300 for OTUCN.
Syntax	:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:PSI <wsp><PSI>, <Value>
Parameter(s)	**PSI**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects OPU PSI Bytes.
	Value:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Optical Payload Unit (OPU) PSI byte values.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:OPU1:PSI 115,#HF6
	SOUR:DATA:TEL:OTN:OH:OPU1:PSI? 115
	Returns: 246
See Also	SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:PSI?

:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:PSI?

Description	This query returns the Optical Payload Unit (OPU) overhead byte values for the transmitter.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > OH > OTU/ODU > TX > PSI
	NOTE: For OPU[1..n], use OPU100 for OPU0 and OPU101 for OPUflex, OPU200 for OTUC, OPU300 for OTUCN.
Syntax	:SOURce:DATA:TELecom:OTN:OH:OPU[1..n]:PSI? <wsp><PSI>
Parameter(s)	**PSI**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects OPU PSI Bytes.
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the OPU PSI byte values in hexadecimal format.
Example(s)	SOUR:DATA:TEL:OTN:OH:OPU1:PSI 115,#HF6
	SOUR:DATA:TEL:OTN:OH:OPU1:PSI? 115
	Returns: 246
See Also	SENSe:DATA:TELecom:OTN:OH:OPU[1..n]:PSI?

:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead

Description	This command sets the overhead byte values for overclocked rates OTU3e1/2.
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > OH
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead <wsp><Overhead>, <Value>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects overhead bytes for non standard rates OTU3e1/2.
	OA111
	OA112
	OA113
	OA214
	OA215
	OA216
	MFAS17
	SM18
	SM19
	SM110
	GCC0111
	GCC0112
	RES113
	RES114
	Note: The combination of row and column number is used along with overhead byte. For Ex: OA112, here OA1 is overhead byte, 1 is row number, and 2 is column number.
	Value:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the overhead byte values.

:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead

Response Syntax	\<Value\>
Example(s)	SOUR:DATA:TEL:OTN:OH:OTU3:E1:OVER OA111, #HF6
	SOUR:DATA:TEL:OTN:OH:OTU3:E1:OVER? OA111
	Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead?

:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead?

Description	This query returns the overhead byte values for overclocked rates OTU3e1/2.
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > OH
	NOTE: For :E[1..n]:, use :E: for OTU1e/2e.
Syntax	:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead? <wsp><Overhead>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects overhead bytes for non standard rates OTU3e1/2.
	OA111
	OA112
	OA113
	OA214
	OA215.
	OA216
	MFAS17
	SM18
	SM19.
	SM110
	GCC0111
	GCC0112
	RES113
	RES114
	Note: The combination of row and column number is used along with overhead byte. For Ex: OA112, here OA1 is overhead byte, 1 is row number, and 2 is column number.
Response Syntax	<Value>

:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead?

Response(s)	Value:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the overhead byte values in hexadecimal format.
Example(s)	SOUR:DATA:TEL:OTN:OH:OTU3:E1:OVER OA111, #HF6
	SOUR:DATA:TEL:OTN:OH:OTU3:E1:OVER? OA111
	Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead

:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:F:DEFault

Description	This command resets or overwrites the overhead byte values for non-standard rates OTU(1/2)f
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Functions > OH
	Note: This command is obsolite now, this will get removed in the next release.
	Correct command to use is SOUR:DATA:TEL:OTN:OH:REStore:DEFault
Syntax	:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:F:DEFault
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:OTU1:F:DEF
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:DEFault

:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:F:OVERhead

Description	This command sets the overhead byte values for non-standard rates OTU(1/2)f
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:F:OVERhead <wsp><Overhead>, <Value>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects overhead bytes for non standard rates OTU1e/2e.
	OA111: OA1
	OA112: OA1
	OA113: OA1
	OA214: OA2
	OA215: OA2
	OA216: OA2
	MFAS17: MFAS
	SM18: SM
	SM19: SM
	SM110: SM
	GCC0111: GCC0
	GCC0112: GCC0
	RES113: RES
	RES114: RES
	Note: The combination of row and column number is used along with overhead byte. For Ex: OA112, here OA1 is overhead byte, 1 is row number, and 2 is column number.
	Value:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the overhead byte values.

:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:F:OVERhead

Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:OTN:OH:OTU1:F:OVER OA111, #HF6
	SOUR:DATA:TEL:OTN:OH:OTU1:F:OVER? OA111
	Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead?

:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:F:OVERhead?

Description	This query returns the overhead byte values for non-standard rates OTU(1/2)f
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:F:OVERhead? <wsp><Overhead>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects overhead bytes for non standard rates OTU1e/2e.
	OA111: OA1
	OA112: OA1
	OA113: OA1
	OA214: OA2
	OA215: OA2
	OA216: OA2
	MFAS17: MFAS
	SM18: SM
	SM19: SM
	SM110: SM
	GCC0111: GCC0
	GCC0112: GCC0
	RES113: RES
	RES114: RES
	Note: The combination of row and column number is used along with overhead byte. For Ex: OA112, here OA1 is overhead byte, 1 is row number, and 2 is column number.
Response Syntax	<Value>

:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:F:OVERhead?

Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the overhead byte values in hexadecimal format.
Example(s)	SOUR:DATA:TEL:OTN:OH:OTU1:F:OVER OA111, #HF6 SOUR:DATA:TEL:OTN:OH:OTU2:F:OVER? OA111 Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:E[1..n]:OVERhead

:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:OVERhead

Description	This command sets the Optical Transport Unit (OTU) overhead byte values for the transmitter.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:OVERhead <wsp><Overhead>, <Value>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects OTU overhead bytes.
	OA111
	OA112
	OA113
	OA214
	OA215
	OA216
	MFAS17
	SM18
	SM19
	SM110
	GCC0111
	GCC0112
	RES113
	RES114
	Note: The combination of row and column numbers is used along with the overhead byte. For example: OA112, here OA1 is the overhead byte, 1 is the row number, and 2 is the column number.
	Value:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Optical Transport Unit (OTU) overhead byte values.

:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:OVERhead

Response Syntax	\<Value\>
Example(s)	SOUR:DATA:TEL:OTN:OH:OTU1:OVER OA111, #HF6
	SOUR:DATA:TEL:OTN:OH:OTU1:OVER? OA111
	Returns: 246
See Also	SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:OVERhead?

:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:OVERhead?

Description	This query returns the Optical Transport Unit (OTU) overhead byte values for the transmitter.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > OH
Syntax	:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:OVERhead? <wsp><Overhead>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects OTU overhead bytes.
	OA111
	OA112
	OA113
	OA214
	OA215
	OA216
	MFAS17
	SM18
	SM19
	SM110
	GCC0111
	GCC0112
	RES113
	RES114
	Note: The combination of row and column numbers is used along with the overhead byte. For example: OA112, here OA1 is the overhead byte, 1 is the row number, and 2 is the column number.
Response Syntax	<Value>

:SOURce:DATA:TELecom:OTN:OH:OTU[1..n]:OVERhead?

Response(s)	Value:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the OTU overhead byte values in hexadecimal format.
	OA111, OA111 is selected as the overhead byte.
	OA112, OA112 is selected as the overhead byte.
	OA113, OA113 is selected as the overhead byte.
	OA214, OA214 is selected as the overhead byte.
	OA215, OA215 is selected as the overhead byte.
	OA216, OA216 is selected as the overhead byte.
	MFAS17, MFAS17 is selected as the overhead byte.
	SM18, SM18 is selected as the overhead byte.
	SM19, SM19 is selected as the overhead byte.
	SM110, SM110 is selected as the overhead byte.
	GCC0111, GCC0111 is selected as the overhead byte.
	GCC0112, GCC0112 is selected as the overhead byte.
	RES113, RES113 is selected as the overhead byte.
	RES114, RES114 is selected as the overhead byte.
Example(s)	SOUR:DATA:TEL:OTN:OH:OTU1:OVER OA111, #HF6
	SOUR:DATA:TEL:OTN:OH:OTU1:OVER? OA111
	Returns: 246
See Also	SENSe:DATA:TELecom:OTN:OH:OTU[1..n]:OVERhead?

:SOURce:DATA:TELecom:OTN:OH:REStore:DEFault

Description	This command resets or overwrites the OTN overhead byte values.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Functions > OH > Default OTN OH
Syntax	:SOURce:DATA:TELecom:OTN:OH:REStore:DEFault
Response Syntax	\<Value\>
Example(s)	SOUR:DATA:TEL:OTN:OH:REStore:DEFault
See Also	SOURce:DATA:TELecom:GFP:OH:REStore:DEFault
	SOURce:DATA:TELecom:OTN:REStore:DEFault

OH - SONET/SDH

:SENSe:DATA:TELecom:SDH:OH:MS:OVERhead[1..n]?

Description	This query returns the multiplexer overhead byte values in decimal format for the receiver.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SDH > Transport OH > MS > RX
Syntax	:SENSe:DATA:TELecom:SDH:OH:MS:OVERhead[1..n]? <wsp><Channel>, <Overhead>
Parameter(s)	**Channel**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the multiplexer overhead channel number for the receiver.
	Overhead:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the multiplexer overhead bytes.
	H1 to H3: Respectively H1, H2, or H3 for Pointer
	B2: Bit Interleaved Parity code (BIP-8)
	K1 and K2: Respectively K1 or K2 for Automatic Protection Switching (APS)
	D4,D5, D6, D7, D8, D9, D10, D11, D12: Respectively D4 to D12 for Data Communications Channel (DCC)
	S1: Synchronization status
	M0: Remote Error Indicator - Line (REI-L)
	M1: Remote Error Indicator - Line (REI-L)
	E2: Orderwire
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the multiplexer overhead byte value for the receiver.
Example(s)	SENS:DATA:TEL:SDH:OH:MS:OVER1? 1, H1
See Also	SENSe:DATA:TELecom:SONet:OH:SECTion:OVERhead

:SENSe:DATA:TELecom:SDH:OH:RS:OVERhead[1..n]?

Description	This query returns the regenerator overhead byte values in decimal format for the receiver.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SDH > Transport OH > RS > RX
Syntax	:SENSe:DATA:TELecom:SDH:OH:RS:OVERhead[1..n]? <wsp><Channel>, <Overhead>
Parameter(s)	**Channel**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the regenerator overhead channel number for the receiver.
	Overhead:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Regenerator Overhead bytes for the receiver.
	A1: F6 hexadecimal value
	A2: 28 hexadecimal value
	J0: J0 trace
	Z0: Growth
	B1: Bit Interleaved Parity code (BIP-8)
	E1: Orderwire
	F1: User
	D1: Data Communications Channel (DCC)
	D2: Data Communications Channel (DCC)
	D3: Data Communications Channel (DCC)
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the regenerator overhead byte value for the receiver.
Example(s)	SENS:DATA:TEL:SDH:OH:RS:OVER1? 1, A1
See Also	SENSe:DATA:TELecom:SONet:OH:LINE:OVERhead?

:SENSe:DATA:TELecom:SDHSonet:OH:HOP:OVERhead?

Description	This query returns the High Order Path (HOP) overhead values in hexadecimal format for the receiver when disabled.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SONET > RX > STS
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SDH > RX > AU
Syntax	:SENSe:DATA:TELecom:SDHSonet:OH:HOP:OVERhead? <wsp><Overhead>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the High Order Path (HOP) overhead values for the receiver.
	J1: J1 trace.
	B3: Bit Interleaved Parity code (BIP-8).
	C2: C2
	G1: G1
	F2: F2
	H4: H4
	Z3: Z3
	Z4: Z4
	N1: N1
	F3: F3
	K3: K3
	H1: H1
	H2: H2
	H3: H3
Response Syntax	<Value>

:SENSe:DATA:TELecom:SDHSonet:OH:HOP:OVERhead?

Response(s)	Value:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the High Order Path (HOP) overhead byte value for the receiver.
Example(s)	SENS:DATA:TEL:SDHS:OH:HOP:OVER? J1
See Also	SENSe:DATA:TELecom:SDH:OH:RS:OVERhead[1..n]

:SENSe:DATA:TELecom:SDHSonet:OH:LOP:OVERhead?

Description	This query returns the Low Order Path (LOP) overhead values in hexadecimal format for the receiver when disabled.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > OH > OC > RX > VT
	Navigation Path: Setup > SONET/SDH BERT > Functions > OH > STM > RX > TU
Syntax	:SENSe:DATA:TELecom:SDHSonet:OH:LOP:OVERhead? <wsp><Overhead>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Low Order Path (LOP) overhead byte for the receiver.
	V5: VT Path Overhead.
	J2: VT Path Trace.
	Z6: VT Tandem Connection Monitoring.
	Z7: Extended Signal Label.
	N2: Network Operator Byte.
	K4: Extended Signal Label.
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Low Order Path (LOP) overhead byte value for the receiver in hexadecimal format..
Example(s)	SENS:DATA:TEL:SDHS:OH:LOP:OVER? V5
See Also	SENSe:DATA:TELecom:SDHSONet:OH:HOP:OVERhead?

:SENSe:DATA:TELecom:SDHSonet:OH:LOPTu:OVERhead?

Description	This query returns the Low Order Path (LOP) overhead values in hexadecimal format for the receiver when disabled.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > OH > STM > RX > TU3
Syntax	:SENSe:DATA:TELecom:SDHSonet:OH:LOPTu:OVERhead? <wsp><Overhead>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the High Order Path (HOP) overhead values.
	J1: J1 trace.
	B3: Bit Interleaved Parity code (BIP-8).
	C2: Path Signal Label.
	G1: Path Status.
	F2: User Channel.
	H4: Multiframe Indicator.
	Z3: Growth.
	Z4: Growth.
	N1: Tandem Connection Monitoring.
	F3: F3
	K3: K3
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Low Order Path (LOPTU) overhead byte value for the receiver in hexadecimal format..
Example(s)	SENS:DATA:TEL:SDHS:OH:LOPT:OVER? J1
See Also	SENSe:DATA:TELecom:SDHSONet:OH:HOP:OVERhead?

:SENSe:DATA:TELecom:SONet:OH:LINE:OVERhead?

Description	This query returns the line overhead byte values in decimal format for the receiver.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SONET > LINE > RX
Syntax	:SENSe:DATA:TELecom:SONet:OH:LINE:OVERhead? <wsp><Timeslot>, <Overhead>
Parameter(s)	**Timeslot**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the line overhead timeslot number for the receiver.
	Overhead:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the line overhead bytes.
	H1, H2, H3: Respectively H1, H2, or H3 for Pointer
	B2: Bit Interleaved Parity code (BIP-8)
	K1 and K2: Respectively K1 or K2 for Automatic Protection Switching (APS)
	D4, D5, D6, D7, D8, D9, D10, D11, D12: Respectively D4 to D12 for Data Communications Channel (DCC.
	S1: Synchronization status
	E2: Orderwire
	Z1 and Z2: Growth
	Byte is specified in two ways.
	In first method standard names are used. Ex: A1, A2.
	In second method an UDrc notation is used, where r is the numerical value of the bytes row in the transport overhead and c is the numerical value of the bytes column in the transport overhead. Ex:UD11, UD12.
	M1: Remote Error Indicator - Line (REI-L)
	M0: Remote Error Indicator - Line (REI-L)
Response Syntax	<Value>

:SENSe:DATA:TELecom:SONet:OH:LINE:OVERhead?

Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the line overhead byte value for the receiver.
Example(s)	SENS:DATA:TEL:SON:OH:LINE:OVER? 1, D4
See Also	SENSe:DATA:TELecom:SONet:OH:SECTion:OVERhead?

:SENSe:DATA:TELecom:SONet:OH:SECTion:OVERhead?

Description	This query returns the section overhead byte values in decimal format for the receiver.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SONET > SECTION > RX
Syntax	:SENSe:DATA:TELecom:SONet:OH:SECTion:OVERhead? <wsp><Timeslot>, <Overhead>
Parameter(s)	**Timeslot**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the section overhead timeslot number for the receiver.
	Overhead:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the section overhead bytes for the receiver.
	A1: F6 hexadecimal value for A1
	A2: 28 hexadecimal value for A2
	J0: J0 trace
	B1: Bit Interleaved Parity code (BIP-8)
	E1: Orderwire
	F1: User
	D1: Data Communications Channel (DCC)
	D2: Data Communications Channel (DCC)
	D3: Data Communications Channel (DCC)
	Z0: Growth
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the section overhead byte value for the receiver.
Example(s)	SENS:DATA:TEL:SON:OH:SECT:OVER? 1, A1
See Also	SENSe:DATA:TELecom:SONet:OH:LINE:OVERhead?

:SOURce:DATA:TELecom:SDH:OH:MS:OVERhead[1..n]

Description	This command sets the multiplexer overhead byte values in hexadecimal format.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > > SDH > TX > Transport OH > MS
Syntax	:SOURce:DATA:TELecom:SDH:OH:MS:OVERhead[1..n] <wsp><Channel>, <Overhead>,[<Value>]
Parameter(s)	**Channel**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the multiplexer overhead channel number for transmitter.
	Overhead:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the multiplexer overhead bytes.
	H1 to H3: Respectively H1, H2, or H3 for Pointer
	B2: Bit Interleaved Parity code (BIP-8)
	K1 and K2: Respectively K1 or K2 for Automatic Protection Switching (APS)
	D4, D5, D6, D7, D8, D9, D10, D11, D12: Respectively D4 to D12 for Data Communications Channel (DCC)
	S1: Synchronization status
	M0: Remote Error Indicator - Line (REI-L)
	M1: Remote Error Indicator - Line (REI-L)
	E2: Orderwire
	Value:
	The program data syntax for the third parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Selects the multiplexer overhead byte values in hexadecimal format.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDH:OH:MS:OVER1 1, H1, #HF6
	SOUR:DATA:TEL:SDH:OH:MS:OVER1? 1, H1
	Returns: 246
See Also	SOURce:DATA:TELecom:SONet:OH:LINE:OVERhead?

:SOURce:DATA:TELecom:SDH:OH:MS:OVERhead[1..n]:DEFault

Description	This command resets the line overhead byte values.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SDH > TX > Transport OH > MS > Default
Syntax	:SOURce:DATA:TELecom:SDH:OH:MS:OVERhead[1..n]:DEFault <wsp><Channel>, <Overhead>
Parameter(s)	**Channel**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the multiplexer overhead channel number.
	Overhead:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the multiplexer overhead bytes.
	H1 to H3: Respectively H1, H2, or H3 for Pointer
	B2: Bit Interleaved Parity code (BIP-8)
	K1 and K2: Respectively K1 or K2 for Automatic Protection Switching (APS)
	D4, D5, D6, D7, D8, D9, D10, D11, D12: Respectively D4 to D12 for Data Communications Channel (DCC)
	S1: Synchronization status
	M0: Remote Error Indicator - Line (REI-L)
	E2: Orderwire
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDH:OH:MS:OVER1:DEF 1, H1
See Also	SOURce:DATA:TELecom:SONet:OH:RS:OVERhead[1..n]:DEFault

:SOURce:DATA:TELecom:SDH:OH:MS:OVERhead[1..n]?

Description	This query returns the multiplexer overhead byte values in decimal format.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > > SDH > TX > Transport OH > MS
Syntax	:SOURce:DATA:TELecom:SDH:OH:MS:OVERhead[1..n]? <wsp><Channel>, <Overhead>
Parameter(s)	**Channel**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the multiplexer overhead channel number.
	Overhead:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the multiplexer overhead bytes.
	H1 to H3: Respectively H1, H2, or H3 for Pointer
	B2: Bit Interleaved Parity code (BIP-8)
	K1 and K2: Respectively K1 or K2 for Automatic Protection Switching (APS)
	D4, D5, D6, D7, D8, D9, D10, D11, D12: Respectively D4 to D12 for Data Communications Channel (DCC)
	S1: Synchronization status
	M0: Remote Error Indicator - Line (REI-L)
	M1: Remote Error Indicator - Line (REI-L)
	E2: Orderwire
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the multiplexer overhead byte value.
Example(s)	SOUR:DATA:TEL:SDH:OH:MS:OVER1 1, H1, #HF6
	SOUR:DATA:TEL:SDH:OH:MS:OVER1? 1, H1
	Returns: 246
See Also	SOURce:DATA:TELecom:SONet:OH:LINE:OVERhead

:SOURce:DATA:TELecom:SDH:OH:RS:OVERhead[1..n]

Description	This command sets the regenerator overhead byte values in hexadecimal format.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SDH > TX > Transport OH > RS
Syntax	:SOURce:DATA:TELecom:SDH:OH:RS:OVERhead[1..n] <wsp><Channel>, <Overhead>,[<Value>]
Parameter(s)	**Channel**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the regenerator overhead channel number.
	Overhead:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Regenerator Overhead bytes.
	A1: F6 hexadecimal value
	A2: 28 hexadecimal value
	J0: J0 trace
	Z0: Growth
	B1: Bit Interleaved Parity code (BIP-8).
	E1: Orderwire
	F1: User
	D1: Data Communications Channel (DCC)
	D2: Data Communications Channel (DCC)
	D3: Data Communications Channel (DCC)
	Value:
	The program data syntax for the third parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Selects the regenerator overhead byte values in hexadecimal format.

:SOURce:DATA:TELecom:SDH:OH:RS:OVERhead[1..n]

Response Syntax	\<Value\>
Example(s)	SOUR:DATA:TEL:SDH:OH:RS:OVER1 1, A1, #HF6
	SOUR:DATA:TEL:SDH:OH:RS:OVER1? 1, A1
	Returns: 246
See Also	SOURce:DATA:TELecom:SONet:OH:SECTion:OVERhead?

:SOURce:DATA:TELecom:SDH:OH:RS:OVERhead[1..n]:DEFault

Description	This command resets the Regenerator Section overhead byte values.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SDH > TX > Transport OH > RS > Default
Syntax	:SOURce:DATA:TELecom:SDH:OH:RS:OVERhead[1..n]:DEFault <wsp><Channel>, <Overhead>
Parameter(s)	**Channel**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the regenerator overhead channel number.
	Overhead:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Regenerator Section Overhead bytes.
	A1: F6 hexadecimal value
	A2: 28 hexadecimal value
	J0: J0 trace
	Z0: Growth
	B1: Bit Interleaved Parity code (BIP-8)
	E1: Orderwire
	F1: User
	D1: Data Communications Channel (DCC)
	D2: Data Communications Channel (DCC)
	D3: Data Communications Channel (DCC)
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDH:OH:RS:OVER1:DEF 1, A1
See Also	SOURce:DATA:TELecom:SONet:OH:LINE:OVERhead:DEFault

:SOURce:DATA:TELecom:SDH:OH:RS:OVERhead[1..n]?

Description	This query returns the regenerator overhead byte values in decimal format. At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SDH > TX > Transport OH > RS
Syntax	:SOURce:DATA:TELecom:SDH:OH:RS:OVERhead[1..n]? <wsp><Channel>, <Overhead>
Parameter(s)	**Channel**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the regenerator overhead channel number. **Overhead**: The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Regenerator Section Overhead bytes. A1: F6 hexadecimal value A2: 28 hexadecimal value J0: J0 trace Z0: Growth B1: Bit Interleaved Parity code (BIP-8) E1: Orderwire F1: User D1: Data Communications Channel (DCC) D2: Data Communications Channel (DCC) D3: Data Communications Channel (DCC)
Response Syntax	<Value>

:SOURce:DATA:TELecom:SDH:OH:RS:OVERhead[1..n]?

Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the regenerator section overhead byte value for transmitter.
Example(s)	SOUR:DATA:TEL:SDH:OH:RS:OVER1 1, A1, #HF6 SOUR:DATA:TEL:SDH:OH:RS:OVER1? 1, A1 Returns: 246
See Also	SOURce:DATA:TELecom:SONet:OH:SECTion:OVERhead

:SOURce:DATA:TELecom:SDHSonet:OH:DISable:OVERwrite

Description	This command disable all overwrites for SONET/SDH BERT.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > SONET/SDH BERT > Functions > OH > SONET > TX > Disable all Overwrites.
	Navigation Path: Setup > SONET/SDH BERT > Functions > OH > SDH > TX > Disable all Overwrites.
Syntax	:SOURce:DATA:TELecom:SDHSonet:OH:DISable:OVERwrite
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDHS:OH:DIS:OVER
See Also	SOURce:DATA:TELecom:SDH:OH:RS:OVERhead[1..n]:DEFault

:SOURce:DATA:TELecom:SDHSonet:OH:HOP:OVERhead

Description	This command sets the High Order Path (HOP) overhead values in hexadecimal format.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SONET > TX > STS
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SDH > TX > AU
Syntax	:SOURce:DATA:TELecom:SDHSonet:OH:HOP:OVERhead <wsp><Overhead>,[<Value>]
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the High Order Path (HOP) overhead values.
	J1: J1 trace.
	B3: Bit Interleaved Parity code (BIP-8).
	C2: C2
	G1: G1
	F2: F2
	H4: H4
	Z3: Z3
	Z4: Z4
	N1: N1
	F3: F3
	K3: K3
	Value:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Selects the HOP overhead values in hexadecimal format.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDHS:OH:HOP:OVER C2,#H02
	SOUR:DATA:TEL:SDHS:OH:HOP:OVER? C2
	Returns: 2
See Also	SOURce:DATA:TELecom:SDH:OH:RS:OVERhead[1..n]?

:SOURce:DATA:TELecom:SDHSonet:OH:HOP:OVERhead:DEFault

Description	This command resets the HOP overhead byte values.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SONET > TX > STS > Default
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SDH > TX > AU > Default
Syntax	:SOURce:DATA:TELecom:SDHSonet:OH:HOP:OVERhead:DEFault <wsp><Overhead>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the High Order Path (HOP) overhead values.
	J1: J1 trace.
	B3: Bit Interleaved Parity code (BIP-8).
	C2: C2
	G1: G1
	F2: F2
	H4: H4
	Z3: Z3
	Z4: Z4
	N1: N1
	F3: F3
	K3: K3
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDHS:OH:HOP:OVER:DEF J1
See Also	SOURce:DATA:TELecom:SDH:OH:MS:OVERhead[1..n]:DEFault

:SOURce:DATA:TELecom:SDHSonet:OH:HOP:OVERhead?

Description	This query returns the High Order Path (HOP) overhead values in decimal format.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SONET > TX > STS
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SDH > TX > AU
Syntax	:SOURce:DATA:TELecom:SDHSonet:OH:HOP:OVERhead? <wsp><Overhead>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the High Order Path (HOP) overhead values.
	J1: J1 trace.
	B3: Bit Interleaved Parity code (BIP-8).
	C2: C2
	G1: G1
	F2: F2
	H4: H4
	Z3: Z3
	Z4: Z4
	N1: N1
	F3: F3
	K3: K3
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the High Order Path (HOP) overhead byte value.
Example(s)	SOUR:DATA:TEL:SDHS:OH:HOP:OVER C2,#H02
	SOUR:DATA:TEL:SDHS:OH:HOP:OVER? C2
	Returns: 2
See Also	SOURce:DATA:TELecom:SDH:OH:RS:OVERhead[1..n]?

:SOURce:DATA:TELecom:SDHSonet:OH:LOP:OVERhead

Description	This command sets the Low Order Path (LOP) overhead values in hexadecimal format.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > OH > OC > TX > VT
	Navigation Path: Setup > SONET/SDH BERT > Functions > OH > STM > TX > TU
Syntax	:SOURce:DATA:TELecom:SDHSonet:OH:LOP:OVERhead <wsp><Overhead>,[<Value>]
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Low Order Path (LOP) overhead byte.
	V5: VT Path Overhead.
	J2: VT Path Trace.
	Z6: VT Tandem Connection Monitoring.
	Z7: Extended Signal Label.
	N2: Network Operator Byte.
	K4: Extended Signal Label.
	Value:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Low Order Path (LOP) overhead values in hexadecimal format.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDHS:OH:LOP:OVER V5, #H01
	SOUR:DATA:TEL:SDHS:OH:LOP:OVER? V5
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:OH:LOP:OVERhead?

:SOURce:DATA:TELecom:SDHSonet:OH:LOP:OVERhead:DEFault

Description	This command resets the LOP overhead byte values.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > SONET/SDH BERT > Functions > OH > OC > TX > VT > Default
	Navigation Path: Setup > SONET/SDH BERT > Functions > OH > SDH > TX > TU > Default
Syntax	:SOURce:DATA:TELecom:SDHSonet:OH:LOP:OVERhead:DEFault \<wsp>\<Overhead>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a \<CHARACTER PROGRAM DATA> element.
	Selects the Low Order Path (LOP) overhead byte for the receiver.
	V5: VT Path Overhead.
	J2: VT Path Trace.
	Z6: VT Tandem Connection Monitoring.
	Z7: Extended Signal Label.
	N2: Network Operator Byte.
	K4: Extended Signal Label.
Response Syntax	\<Value>
Example(s)	SOUR:DATA:TEL:SDHS:OH:LOP:OVER:DEF V5
See Also	SOURce:DATA:TELecom:SDHSonet:OH:HOP:OVERhead:DEFault

:SOURce:DATA:TELecom:SDHSonet:OH:LOP:OVERhead?

Description	This query returns the Low Order Path (LOP) overhead values in decimal format.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > OH > OC > TX > VT
	Navigation Path: Setup > SONET/SDH BERT > Functions > OH > STM > TX > TU
Syntax	:SOURce:DATA:TELecom:SDHSonet:OH:LOP:OVERhead? <wsp><Overhead>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Low Order Path (LOP) overhead byte.
	V5: VT Path Overhead.
	J2: VT Path Trace.
	Z6: VT Tandem Connection Monitoring.
	Z7: Extended Signal Label.
	N2: Network Operator Byte.
	K4: Extended Signal Label.
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Low Order Path (LOP) overhead byte value in hexadecimal format..
Example(s)	SOUR:DATA:TEL:SDHS:OH:LOP:OVER V5, #H01
	SOUR:DATA:TEL:SDHS:OH:LOP:OVER? V5
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:OH:LOP:OVERhead

:SOURce:DATA:TELecom:SDHSonet:OH:LOPTu:OVERhead

Description	This command sets the Low Order Path (LOP) overhead values in hexadecimal format.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > OH > STM > TX > TU3
Syntax	:SOURce:DATA:TELecom:SDHSonet:OH:LOPTu:OVERhead <wsp><Overhead>,[<Value>]
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the High Order Path (HOP) overhead values.
	J1: J1 trace.
	B3: Bit Interleaved Parity code (BIP-8).
	C2: Path Signal Label.
	G1: Path Status.
	F2: User Channel.
	H4: Multiframe Indicator.
	Z3: Growth.
	Z4: Growth.
	N1: Tandem Connection Monitoring.
	F3: F3
	K3: K3
	Value:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Selects the LOP(TU3) overhead values in hexadecimal format.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDHS:OH:LOPT:OVER J1, #H01
	SOUR:DATA:TEL:SDHS:OH:LOPT:OVER? J1
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:OH:LOPTu:OVERhead?

:SOURce:DATA:TELecom:SDHSonet:OH:LOPTu:OVERhead:DEFault

Description	This command resets the LOP overhead byte values.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > SONET/SDH BERT > Functions > OH > SDH > TX > TU3 > Default
Syntax	:SOURce:DATA:TELecom:SDHSonet:OH:LOPTu:OVERhead:DEFault <wsp><Overhead>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the High Order Path (HOP) overhead values for the receiver.
	J1: J1 trace.
	B3: Bit Interleaved Parity code (BIP-8).
	C2: Path Signal Label.
	G1: Path Status.
	F2: User Channel.
	H4: Multiframe Indicator.
	Z3: Growth.
	Z4: Growth.
	N1: Tandem Connection Monitoring.
	F3: F3-
	K3: K3
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDHS:OH:LOPTu:OVER:DEF J1
See Also	SOURce:DATA:TELecom:SDHSonet:OH:HOP:OVERhead:DEFault J1

:SOURce:DATA:TELecom:SDHSonet:OH:LOPTu:OVERhead?

Description	This query returns the Low Order Path (LOP) overhead values in decimal format.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > OH > STM > TX > TU3
Syntax	:SOURce:DATA:TELecom:SDHSonet:OH:LOPTu:OVERhead? <wsp><Overhead>
Parameter(s)	**Overhead**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the High Order Path (HOP) overhead values.
	J1: J1 trace.
	B3: Bit Interleaved Parity code (BIP-8).
	C2: Path Signal Label.
	G1: Path Status.
	F2: User Channel.
	H4: Multiframe Indicator.
	Z3: Growth.
	Z4: Growth.
	N1: Tandem Connection Monitoring.
	F3: F3
	K3: K3
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Low Order Path (LOPTU) overhead byte value in hexadecimal format.
Example(s)	SOUR:DATA:TEL:SDHS:OH:LOPT:OVER J1, #H01
	SOUR:DATA:TEL:SDHS:OH:LOPT:OVER? J1
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:OH:LOPTu:OVERhead

:SOURce:DATA:TELecom:SDHSonet:OH:REStore:DEFault

Description	This command it restores the default application.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SONET > TX > Default all OH
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SDH > TX > Default all OH
Syntax	:SOURce:DATA:TELecom:SDHSonet:OH:REStore:DEFault
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDHS:OH:RES:DEF
See Also	SOURce:DATA:TELecom:GFP:OH:RESTore:DEFault
	SOURce:DATA:TELecom:OTN:REStore:DEFault

:SOURce:DATA:TELecom:SONet:OH:LINE:OVERhead

Description	This command sets the line overhead byte values in hexadecimal format.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SONET > LINE > TX
Syntax	:SOURce:DATA:TELecom:SONet:OH:LINE:OVERhead <wsp><Timeslot>, <Overhead>,[<Value>]
Parameter(s)	**Timeslot**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the line overhead timeslot number for transmitter.
	Overhead:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the line overhead bytes.
	H1 to H3: respectively H1, H2, or H3
	B2: Bit Interleaved Parity code (BIP-8)
	K1 and K2: Respectively K1 or K2 for Automatic Protection Switching (APS)
	D4, D5, D6, D7, D8, D9, D10, D11, D12: Respectively D4 to D12 for Data Communications Channel (DCC)
	Z1 and Z2: Respectively Z1 or Z2 for Growth byte
	M1: Remote Error Indicator - Line (REI-L)
	M0: Remote Error Indicator - Line (REI-L)
	S1: S1 byte
	Value:
	The program data syntax for the third parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Selects the line overhead byte values in hexadecimal format.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SON:OH:LINE:OVER 1, D4,#H00
	SOUR:DATA:TEL:SON:OH:LINE:OVER? 1, D4
	Returns: 0
See Also	SOURce:DATA:TELecom:SONet:OH:SECTion:OVERhead?

:SOURce:DATA:TELecom:SONet:OH:LINE:OVERhead:DEFault

Description	This command resets the line overhead byte values.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SONET > TX > LINE > Default
Syntax	:SOURce:DATA:TELecom:SONet:OH:LINE:OVERhead:DEFault <wsp><Timeslot>, <Overhead>
Parameter(s)	**Timeslot**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the line overhead timeslot number.
	Overhead:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the line overhead bytes.
	Selects the line overhead bytes.
	H1 to H3: Respectively H1, H2, or H3 for Pointer
	B2: Bit Interleaved Parity code (BIP-8)
	K1 and K2: Respectively K1 or K2 for Automatic Protection Switching (APS)
	D4, D5, D6, D7, D8, D9, D10, D11, D12: Respectively D4 to D12 for Data Communications Channel (DCC)
	Z1 and Z2: Respectively Z1 or Z2 for Growth byte
	M1: Remote Error Indicator - Line (REI-L)
	M0: Remote Error Indicator - Line (REI-L)
	S1: S1 byte
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SON:OH:LINE:OVER:DEF 1, H1
See Also	SOURce:DATA:TELecom:SONet:OH:SECTion:OVERhead:DEFault

:SOURce:DATA:TELecom:SONet:OH:LINE:OVERhead?

Description	This query returns the line overhead byte values in decimal format.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SONET > LINE > TX
Syntax	:SOURce:DATA:TELecom:SONet:OH:LINE:OVERhead? <wsp><Timeslot>, <Overhead>
Parameter(s)	**Timeslot**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the line overhead timeslot number.
	Overhead:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the line overhead bytes.
	H1 to H3: Respectively H1, H2, or H3
	B2: Bit Interleaved Parity code (BIP-8)
	K1 and K2: Respectively K1 or K2 for Automatic Protection Switching (APS)
	D4, D5, D6, D7, D8, D9, D10, D11, D12: Respectively D4 to D12 for Data Communications Channel (DCC)
	Z1 and Z2: Respectively Z1 or Z2 for Growth byte
	M1: Remote Error Indicator - Line (REI-L)
	M0: Remote Error Indicator - Line (REI-L)
	S1: S1 byte
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the line overhead byte value.
Example(s)	SOUR:DATA:TEL:SON:OH:LINE:OVER 1, D4,#H00
	SOUR:DATA:TEL:SON:OH:LINE:OVER? 1, D4
	Returns: 0
See Also	SOURce:DATA:TELecom:SONet:OH:SECTion:OVERhead

:SOURce:DATA:TELecom:SONet:OH:SECTion:OVERhead

Description	This command sets the section overhead byte values in hexadecimal format.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SONET > SECTION > TX
Syntax	:SOURce:DATA:TELecom:SONet:OH:SECTion:OVERhead <wsp><Timeslot>, <Overhead>,[<Value>]
Parameter(s)	**Timeslot**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the section overhead timeslot number for transmitter.
	Overhead:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the section overhead bytes.
	A1: F6 hexadecimal value
	A2: 28 hexadecimal value
	J0: J0 trace
	B1: Bit Interleaved Parity code (BIP-8)
	E1: Orderwire
	F1: User
	D1: Data Communications Channel (DCC)
	D2: Data Communications Channel (DCC)
	D3: Data Communications Channel (DCC)
	Z0: Growth
	Value:
	The program data syntax for the third parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Selects the section overhead byte values in hexadecimal format.

:SOURce:DATA:TELecom:SONet:OH:SECTion:OVERhead

Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SON:OH:SECT:OVER 1, A1, #HF6
	SOUR:DATA:TEL:SON:OH:SECT:OVER? 1, A1
	Returns: 246
See Also	SOURce:DATA:TELecom:SONet:OH:LINE:OVERhead?

:SOURce:DATA:TELecom:SONet:OH:SECTion:OVERhead:DEFault

Description	This command resets the section overhead byte values.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SONET > TX > SECTION > Default
Syntax	:SOURce:DATA:TELecom:SONet:OH:SECTion:OVERhead:DEFault <wsp><Timeslot>, <Overhead>
Parameter(s)	**Timeslot**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the section overhead timeslot number.
	Overhead:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the section overhead bytes.
	A1: F6 hexadecimal value
	A2: 28 hexadecimal value
	J0: J0 trace
	B1: Bit Interleaved Parity code (BIP-8)
	E1: Orderwire
	F1: User
	D1: Data Communications Channel (DCC)
	D2: Data Communications Channel (DCC)
	D3: Data Communications Channel (DCC)
	Z0: Growth
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SON:OH:SECT:OVER:DEF 1,A1
See Also	SOURce:DATA:TELecom:SDHSonet:OH:REStore:DEF

:SOURce:DATA:TELecom:SONet:OH:SECTion:OVERhead?

Description	This query returns the section overhead byte values in decimal format.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > OH > SONET > SECTION > TX
Syntax	:SOURce:DATA:TELecom:SONet:OH:SECTion:OVERhead? <wsp><Timeslot>, <Overhead>
Parameter(s)	**Timeslot**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the section overhead timeslot number.
	Overhead:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the section overhead bytes.
	A1: F6 hexadecimal value
	A2: 28 hexadecimal value
	J0: J0 trace
	B1: Bit Interleaved Parity code (BIP-8)
	E1: Orderwire
	F1: User
	D1: Data Communications Channel (DCC)
	D2: Data Communications Channel (DCC)
	D3: Data Communications Channel (DCC)
	Z0: Growth
Response Syntax	<Value>

:SOURce:DATA:TELecom:SONet:OH:SECTion:OVERhead?

Response(s)	Value: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the section overhead byte value.
Example(s)	SOUR:DATA:TEL:SON:OH:SECT:OVER 1, A1, #HF6 SOUR:DATA:TEL:SON:OH:SECT:OVER? 1, A1 Returns: 246
See Also	SOURce:DATA:TELecom:SONet:OH:LINE:OVERhead

OH - GFP-F/GFP-T

:FETCh:DATA:TELecom:GFP:OH:DFRames?

Description	This query returns selection of the Client Data Frames.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > RX > Frames > Client Data
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > RX > Frames > Client Data
Syntax	:FETCh:DATA:TELecom:GFP:OH:DFRames? <wsp><Dframes>
Parameter(s)	**Dframes**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Client Data Frames.
	PLI
	CHEC
	PTI
	PFI
	EXI
	UPI
	THEC
	CID
	SPARe
	EHEC
Response Syntax	<Dframes>
Response(s)	**Dframes**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the selection of Data Frames.
Example(s)	FETC:DATA:TEL:GFP:OH:DFR? PLI
See Also	SOURce:DATA:TELecom:GFP:OH:THEader:PFI

:FETCh:DATA:TELecom:GFP:OH:MFRames?

Description	This query returns selection of the Client Management Frames.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > RX > Frames > Client Management
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > RX > Frames > Client Management
Syntax	:FETCh:DATA:TELecom:GFP:OH:MFRames? <wsp><Mframes>
Parameter(s)	**Mframes**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Client Management Frames.
	PLI
	CHEC
	PTI
	PFI
	EXI
	UPI
	THEC
	CID
	SPARe
	EHEC
Response Syntax	<Mframes>
Response(s)	**Mframes**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the selection of Management Frames.
Example(s)	FETC:DATA:TEL:GFP:OH:MFRames? PLI
See Also	SOURce:DATA:TELecom:GFP:OH:EHEader:SPARe

:FETCh:DATA:TELecom:GFP:OH:RPTiframes?

Description	This query returns selection of Reserved PTI Frames.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > RX > Frames > Reserved PTI
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > RX > Frames > Reserved PTI
Syntax	:FETCh:DATA:TELecom:GFP:OH:RPTiframes? <wsp><Rptiframes>
Parameter(s)	**Rptiframes**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Reserved PTI Frames.
	PLI
	CHEC
	PTI
	PFI
	EXI
	UPI
	THEC
	CID
	SPARe
	EHEC
Response Syntax	<Rptiframes>
Response(s)	**Rptiframes**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the selection of Reserved PTI Frames.
Example(s)	FETC:DATA:TEL:GFP:OH:RPT? PLI
See Also	SOURce:DATA:TELecom:GFP:OH:EHEader:CID

:SOURce:DATA:TELecom:GFP:OH:DEFault

Description	This command resets or overwrites the overhead byte values.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Default
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Default
Syntax	:SOURce:DATA:TELecom:GFP:OH:DEFault <wsp><Frames>, <Bytes>
Parameter(s)	**Frames**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Frame Type.
	DFRames
	MFRames
	Bytes:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Client Data Frames Bytes.
	PTI
	PFI
	EXI
	UPI
	CID
	SPARe
Response Syntax	<Rptiframes>
Example(s)	SOUR:DATA:TEL:GFP:OH:DEF DFR, PTI
See Also	SOURce:DATA:TELecom:GFP:OH:REStore:DEFault

:SOURce:DATA:TELecom:GFP:OH:EHEader:CID

Description	This command sets the Channel ID.
	At *RST condition, this value is 0000 0000.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Extension Header > CID
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Extension Header > CID
Syntax	:SOURce:DATA:TELecom:GFP:OH:EHEader:CID <wsp><Frames>, <CID>
Parameter(s)	**Frames**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Client Framing Types.
	DFRames
	MFRames
	CID:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Selects Channel Id between 0000 0000 to 1111 1111.
	MAXimum,sets Channed Id to maximum value.
	MINimum,sets Channed Id to minimum value.
Response Syntax	<Rptiframes>
Example(s)	SOUR:DATA:TEL:GFP:OH:EHE:CID DFR,#B0
	SOUR:DATA:TEL:GFP:OH:EHE:CID? DFR
	Returns: 0
See Also	SOURce:DATA:TELecom:GFP:OH:THEader:UPI?

:SOURce:DATA:TELecom:GFP:OH:EHEader:CID?

Description	This query returns the Channel ID.
	At *RST condition, this value is 0000 0000.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Extension Header > CID
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Extension Header > CID
Syntax	:SOURce:DATA:TELecom:GFP:OH:EHEader:CID? <wsp><Frames>,[<CID>]
Parameter(s)	**Frames**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Client Framing Types.
	DFRames
	MFRames
	CID:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current CID value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<CID>
Response(s)	**CID**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Channel ID.
Example(s)	SOUR:DATA:TEL:GFP:OH:EHE:CID DFR,#B0
	SOUR:DATA:TEL:GFP:OH:EHE:CID? DFR
	Returns: 0
See Also	SOURce:DATA:TELecom:GFP:OH:EHEader:SPARe

:SOURce:DATA:TELecom:GFP:OH:EHEader:SPARe

Description	This command sets the Extension Header Spare Field.
	At *RST condition, this value is 0000 0000.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Extension Header > Spare
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Extension Header > Spare
Syntax	:SOURce:DATA:TELecom:GFP:OH:EHEader:SPARe <wsp><Frames>, <Spare>
Parameter(s)	**Frames**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Client Framing Types.
	DFRames
	MFRames
	Spare:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Spare value between 0000 0000 and 1111 1111
	MAXimum,sets Spare to maximum value.
	MINimum,sets Spare to minimum value.
Response Syntax	<CID>
Example(s)	SOUR:DATA:TEL:GFP:OH:EHE:SPAR DFR,#B0
	SOUR:DATA:TEL:GFP:OH:EHE:SPAR? DFR
	Returns: 0
See Also	SOURce:DATA:TELecom:GFP:OH:THEader:EXI?

:SOURce:DATA:TELecom:GFP:OH:EHEader:SPARe?

Description	This query returns the the Extension Header Spare Field value.
	At *RST condition, this value is 0000 0000.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Extension Header > Spare
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Extension Header > Spare
Syntax	:SOURce:DATA:TELecom:GFP:OH:EHEader:SPARe? <wsp><Frames>,[<Spare>]
Parameter(s)	**Frames**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Client Framing Types.
	DFRames
	MFRames
	Spare:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current spare value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<SPARe>
Response(s)	**SPARe**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the SPARe value.
Example(s)	SOUR:DATA:TEL:GFP:OH:EHE:SPAR DFR,#B0
	SOUR:DATA:TEL:GFP:OH:EHE:SPAR? DFR
	Returns: 0
See Also	SOURce:DATA:TELecom:GFP:OH:EHEader:CID

:SOURce:DATA:TELecom:GFP:OH:RESTore:DEFault

Description	This command resets or overwrites the overhead byte values.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Default All OH
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Default All OH
Syntax	:SOURce:DATA:TELecom:GFP:OH:RESTore:DEFault
Response Syntax	<SPARe>
Example(s)	SOUR:DATA:TEL:GFP:OH:RESTore:DEF
See Also	SOURce:DATA:TELecom:OTN:OH:ODU[1..n]:OVERhead?
	SOURce:DATA:TELecom:SDHSonet:OH:REStore:DEFault

:SOURce:DATA:TELecom:GFP:OH:THEader:EXI

Description	This command sets the Extension Header Identifier.
	At *RST condition, this value is 0000.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Type Header > EXI
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Type Header > EXI
Syntax	:SOURce:DATA:TELecom:GFP:OH:THEader:EXI <wsp><Frames>, <Exi>
Parameter(s)	**Frames**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Client Framing Types.
	DFRames
	MFRames
	Exi:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Selects the EXI value between 0000 and 1111
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<SPARe>
Example(s)	SOUR:DATA:TEL:GFP:OH:THE:EXI MFR,#B0
	SOUR:DATA:TEL:GFP:OH:THE:EXI? MFR
	Returns: 0
See Also	SOURce:DATA:TELecom:GFP:OH:EHEader:SPARe?

:SOURce:DATA:TELecom:GFP:OH:THEader:EXI?

Description	This query returns the value of the Extension Header Identifier.
	At *RST condition, this value is 0000.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Type Header > EXI
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Type Header > EXI
Syntax	:SOURce:DATA:TELecom:GFP:OH:THEader:EXI? <wsp><Frames>,[<EXI>]
Parameter(s)	**Frames**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Client Framing Types.
	DFRames
	MFRames
	EXI:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current EXI value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Exi>
Response(s)	**Exi**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Extension Header Identifier value.
Example(s)	SOUR:DATA:TEL:GFP:OH:THE:EXI MFR,#B0
	SOUR:DATA:TEL:GFP:OH:THE:EXI? MFR
	Returns: 0
See Also	SOURce:DATA:TELecom:GFP:OH:THEader:UPI

:SOURce:DATA:TELecom:GFP:OH:THEader:PFI

Description	This command sets the Payload FCS Indicator.
	At *RST condition, this value is 0.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Type Header > PFI
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Type Header > PFI
Syntax	:SOURce:DATA:TELecom:GFP:OH:THEader:PFI <wsp><Frames>, <Pfi>
Parameter(s)	**Frames**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Client Framing Types.
	DFRames
	MFRames
	Pfi:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Selects the PFI value between 0 and 1
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Exi>
Example(s)	SOUR:DATA:TEL:GFP:OH:THE:PFI MFR,#B0
	SOUR:DATA:TEL:GFP:OH:THE:PFI? MFR
	Returns: 0
See Also	SOURce:DATA:TELecom:GFP:OH:THEader:PTI?

:SOURce:DATA:TELecom:GFP:OH:THEader:PFI?

Description	This query returns the Payload FCS Indicator.
	At *RST condition, this value is 0.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Type Header > PFI
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Type Header > PFI
Syntax	:SOURce:DATA:TELecom:GFP:OH:THEader:PFI? <wsp><Frames>,[<PFI>]
Parameter(s)	**Frames**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Client Framing Types.
	DFRames
	MFRames
	PFI:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current PTI value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Pfi>
Response(s)	**Pfi**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Payload FCS Indicator.
Example(s)	SOUR:DATA:TEL:GFP:OH:THE:PFI MFR,#B0
	SOUR:DATA:TEL:GFP:OH:THE:PFI? MFR
	Returns: 0
See Also	SOURce:DATA:TELecom:GFP:OH:THEader:PTI

:SOURce:DATA:TELecom:GFP:OH:THEader:PTI

Description	This command sets the Type of GFP Client Frame.
	At *RST condition, this value is 000.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Type Header > PTI
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Type Header > PTI
Syntax	:SOURce:DATA:TELecom:GFP:OH:THEader:PTI <wsp><Frames>,[<Pti>]
Parameter(s)	**Frames**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Client Framing Types.
	DFRames
	MFRames
	Pti:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Selects the PTI value between 000 and 111
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Pfi>
Example(s)	SOUR:DATA:TEL:GFP:OH:THE:PTI MFR,#B0
	SOUR:DATA:TEL:GFP:OH:THE:PTI? MFR
	Returns: 0
See Also	SOURce:DATA:TELecom:GFP:OH:THEader:PFI?

:SOURce:DATA:TELecom:GFP:OH:THEader:PTI?

Description	This query returns the Type of GFP Client Frame.
	At *RST condition, this value is 000.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Type Header > PTI
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Type Header > PTI
Syntax	:SOURce:DATA:TELecom:GFP:OH:THEader:PTI? <wsp><Frames>,[<PTI>]
Parameter(s)	**Frames**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Client Framing Types.
	DFRames
	MFRames
	PTI:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current PFI value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Pti>
Response(s)	**Pti**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Type of GFP Client Frame.
Example(s)	SOUR:DATA:TEL:GFP:OH:THE:PTI MFR,#B0
	SOUR:DATA:TEL:GFP:OH:THE:PTI? MFR
	Returns: 0
See Also	SOURce:DATA:TELecom:GFP:OH:THEader:PFI

:SOURce:DATA:TELecom:GFP:OH:THEader:UPI

Description	This command sets the User Payload Identifier.
	At *RST condition, this value is 0000 0000.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Type Header > UPI
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Type Header > UPI
Syntax	:SOURce:DATA:TELecom:GFP:OH:THEader:UPI <wsp><Frames>, <Upi>
Parameter(s)	**Frames**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Client Framing Types.
	DFRames
	MFRames
	Upi:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Selects the UPI value between 0000 0000 and 1111 1111
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Pti>
Example(s)	SOUR:DATA:TEL:GFP:OH:THE:UPI MFR,#B0
	SOUR:DATA:TEL:GFP:OH:THE:UPI? MFR
	Returns: 0
See Also	SOURce:DATA:TELecom:GFP:OH:THEader:EXI?

:SOURce:DATA:TELecom:GFP:OH:THEader:UPI?

Description	This query returns the values of User Payload Identifier.
	At *RST condition, this value is 0000 0000.
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (Ethernet(flex/GFP-F)/10GbE) > GFP-F > Functions > OH > GFP-F > Type Header > UPI
	Navigation Path: Setup > OTN BERT > Test Configurator > Modify Structure > Client (1GbE) > GFP-T > Functions > OH > GFP-T > Type Header > UPI
Syntax	:SOURce:DATA:TELecom:GFP:OH:THEader:UPI? <wsp><Frames>,[<UPI>]
Parameter(s)	**Frames**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Client Framing Types.
	DFRames
	MFRames
	UPI:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current UPI value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Upi>
Response(s)	**Upi**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the User Payload Identifier value.
Example(s)	SOUR:DATA:TEL:GFP:OH:THE:UPI MFR,#B0
	SOUR:DATA:TEL:GFP:OH:THE:UPI? MFR
	Returns: 0
See Also	SOURce:DATA:TELecom:GFP:OH:EHEader:CID

OH - FlexE (TX/RX)

:SENSe:DATA:TELecom:FETHernet:OH:BYTE?

Description	This command returns the OH bytes for selected PHY and Frame.
	At *RST condition, this value is device dependant.
	Navigation Path: Functions > OH > RX > FlexE OH Frame Summary - Block 1/2/3/4-5/6-7-8 - [byte]
Syntax	:SENSe:DATA:TELecom:FETHernet:OH:BYTE? <wsp><PHY/Instance>, <Frame>, <OH Byte>

:SENSe:DATA:TELecom:FETHernet:OH:BYTE?

Parameter(s)	
	PHY/Instance:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	PHY Number or Instance Number:
	PHY number for 100GE Interface/Rate
	Instance number for 200GE/400GE Interface/Rate
	Frame:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Frame number
	OH Byte:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the OH byte value
	B1SH: Block 1 - SH byte
	B1TYPE: Block 1 - Type byte
	B1RPF: Block 1 - RPF bit
	B1SC: Block 1 - SC bit
	B1GROUP: Block 1 - Group byte
	B1OCODE: Block 1 - O code byte
	B1OXO: Block 1 - Oxo code byte
	B2SH: Block 2 - SH byte
	B2PHY: Block 2 - PHY number byte
	B2RES1: Block 2 - Reserved byte 1
	B2RES2: Block 2 - Reserved byte 2
	B2RES3: Block 2 - Reserved byte 3
	B2RES4: Block 2 - Reserved byte 4
	B2RES5: Block 2 - Reserved byte 5
	B2RES6: Block 2 - Reserved byte 6
	B3SH: Block 3 - SH byte

	:SENSe:DATA:TELecom:FETHernet:OH:BYTE?
Parameter(s)	B3CLRES1: Block 3 - Client Reserved byte 1
	B3CLRES2: Block 3 - Client Reserved byte 2
	B3CLRES3: Block 3 - Client Reserved byte 3
	B3CLRES4: Block 3 - Client Reserved byte 4
	B3RES1: Block 3 - Reserved byte 1
	B3RES2: Block 3 - Reserved byte 2
	B3CRC1: Block 3 - CRC-16 first byte
	B3CRC2: Block 3 - CRC-16 second byte
	B4SH: Block 4 - SH byte
	B4MCS1: Block 4 - Management Channel - Section byte 1
	B4MCS2: Block 4 - Management Channel - Section byte 2
	B4MCS3: Block 4 - Management Channel - Section byte 3
	B4MCS4: Block 4 - Management Channel - Section byte 4
	B4MCS5: Block 4 - Management Channel - Section byte 5
	B4MCS6: Block 4 - Management Channel - Section byte 6
	B4MCS7: Block 4 - Management Channel - Section byte 7
	B4MCS8: Block 4 - Management Channel - Section byte 8
	B4RES1: Block 4 - Reserved byte 1
	B4RES2: Block 4 - Reserved byte 2
	B4RES3: Block 4 - Reserved byte 3
	B4RES4: Block 4 - Reserved byte 4
	B4RES5: Block 4 - Reserved byte 5
	B4RES6: Block 4 - Reserved byte 6
	B4RES7: Block 4 - Reserved byte 7
	B4RES8: Block 4 - Reserved byte 8
	B5SH: Block 5 - SH byte
	B5MCS1: Block 5 - Management Channel - Section byte 1
	B5MCS2: Block 5 - Management Channel - Section byte 2
	B5MCS3: Block 5 - Management Channel - Section byte 3

:SENSe:DATA:TELecom:FETHernet:OH:BYTE?

Parameter(s)	B5MCS4: Block 5 - Management Channel - Section byte 4
	B5MCS5: Block 5 - Management Channel - Section byte 5
	B5MCS6: Block 5 - Management Channel - Section byte 6
	B5MCS7: Block 5 - Management Channel - Section byte 7
	B5MCS8: Block 5 - Management Channel - Section byte 8
	B5RES1: Block 5 - Reserved byte 1
	B5RES2: Block 5 - Reserved byte 2
	B5RES3: Block 5 - Reserved byte 3
	B5RES4: Block 5 - Reserved byte 4
	B5RES5: Block 5 - Reserved byte 5
	B5RES6: Block 5 - Reserved byte 6
	B5RES7: Block 5 - Reserved byte 7
	B5RES8: Block 5 - Reserved byte 8
	B6SH: Block 6 - SH byte
	B6MCSTS1: Block 6 - Management Channel - Shim to Shim byte 1
	B6MCSTS2: Block 6 - Management Channel - Shim to Shim byte 2
	B6MCSTS3: Block 6 - Management Channel - Shim to Shim byte 3
	B6MCSTS4: Block 6 - Management Channel - Shim to Shim byte 4
	B6MCSTS5: Block 6 - Management Channel - Shim to Shim byte 5
	B6MCSTS6: Block 6 - Management Channel - Shim to Shim byte 6
	B6MCSTS7: Block 6 - Management Channel - Shim to Shim byte 7
	B6MCSTS8: Block 6 - Management Channel - Shim to Shim byte 8
	B6RES1: Block 6 - Reserved byte 1
	B6RES2: Block 6 - Reserved byte 2
	B6RES3: Block 6 - Reserved byte 3
	B6RES4: Block 6 - Reserved byte 4
	B6RES5: Block 6 - Reserved byte 5
	B6RES6: Block 6 - Reserved byte 6
	B6RES7: Block 6 - Reserved byte 7
	B6RES8: Block 6 - Reserved byte 8

:SENSe:DATA:TELecom:FETHernet:OH:BYTE?

Parameter(s)	B6SC1: Block 6 - Synchronization Channel 1
	B6SC2: Block 6 - Synchronization Channel 2
	B6SC3: Block 6 - Synchronization Channel 3
	B6SC4: Block 6 - Synchronization Channel 4
	B6SC5: Block 6 - Synchronization Channel 5
	B6SC6: Block 6 - Synchronization Channel 6
	B6SC7: Block 6 - Synchronization Channel 7
	B6SC8: Block 6 - Synchronization Channel 8
	B7SH: Block 7 - SH byte
	B7MCSTS1: Block 7 - Management Channel - Shim to Shim byte 1
	B7MCSTS2: Block 7 - Management Channel - Shim to Shim byte 2
	B7MCSTS3: Block 7 - Management Channel - Shim to Shim byte 3
	B7MCSTS4: Block 7 - Management Channel - Shim to Shim byte 4
	B7MCSTS5: Block 7 - Management Channel - Shim to Shim byte 5
	B7MCSTS6: Block 7 - Management Channel - Shim to Shim byte 6
	B7MCSTS7: Block 7 - Management Channel - Shim to Shim byte 7
	B7MCSTS8: Block 7 - Management Channel - Shim to Shim byte 8
	B7RES1: Block 7 - Reserved byte 1
	B7RES2: Block 7 - Reserved byte 2
	B7RES3: Block 7 - Reserved byte 3
	B7RES4: Block 7 - Reserved byte 4
	B7RES5: Block 7 - Reserved byte 5
	B7RES6: Block 7 - Reserved byte 6
	B7RES7: Block 7 - Reserved byte 7
	B7RES8: Block 7 - Reserved byte 8
	B8SH: Block 8 - SH byte
	B8MCSTS1: Block 8 - Management Channel - Shim to Shim byte 1
	B8MCSTS2: Block 8 - Management Channel - Shim to Shim byte 2
	B8MCSTS3: Block 8 - Management Channel - Shim to Shim byte 3
	B8MCSTS4: Block 8 - Management Channel - Shim to Shim byte 4

:SENSe:DATA:TELecom:FETHernet:OH:BYTE?

Parameter(s)	B8MCSTS5: Block 8 - Management Channel - Shim to Shim byte 5
	B8MCSTS6: Block 8 - Management Channel - Shim to Shim byte 6
	B8MCSTS7: Block 8 - Management Channel - Shim to Shim byte 7
	B8MCSTS8: Block 8 - Management Channel - Shim to Shim byte 8
	B8RES1: Block 8 - Reserved byte 1
	B8RES2: Block 8 - Reserved byte 2
	B8RES3: Block 8 - Reserved byte 3
	B8RES4: Block 8 - Reserved byte 4
	B8RES5: Block 8 - Reserved byte 5
	B8RES6: Block 8 - Reserved byte 6
	B8RES7: Block 8 - Reserved byte 7
	B8RES8: Block 8 - Reserved byte 8
Response Syntax	<Return Value>
Response(s)	Return Value:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the byte decimal value.
Example(s)	SENS:DATA:TEL:FETH:OH:BYTE? 2,2,B3RES1
	Returns: 255
See Also	SENSe:DATA:TELecom:FETHernet:OH?
	SENSe:DATA:TELecom:FETHernet:OH:PHY:MAP?
	SENSe:DATA:TELecom:FETHernet:OH:REServed?

:SENSe:DATA:TELecom:FETHernet:OH:CLIent:CALendar?

Description	This query returns the current FlexE Client Calendar Configuration as a string containing a coma separated list of
	(Client ID, List of Occupied Calendar Slots)
	Navigation Path: Functions > OH > RX > FlexE OH Frame Summary - Block 3 - Client Calendar
Syntax	:SENSe:DATA:TELecom:FETHernet:OH:CLIent:CALendar? <wsp><PHY>, <Calendar>
Parameter(s)	**PHY**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	PHY Number
	Calendar:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Calendar Value.
	A: Calendar A
	B: Calendar B
Response Syntax	<Return Value>
Response(s)	**Return Value**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the current FlexE Client Calendar Configuration as a string containing a coma separated list of (Client ID, List of Occupied Calendar Slots)
	(1,(0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31, 32,33,34,35,36,37,38,39))
Example(s)	SOUR:DATA:TEL:FETH:OH:CLI:CAL? 1,A
See Also	SOURce:DATA:TELecom:FETHernet:CLIent:CALendar:DELete

:SENSe:DATA:TELecom:FETHernet:OH:FMAP?

Description	This query returns the byte value for particular frame in FlexE Map.
	At *RST condition, this value is device dependant.
	Navigation Path: Functions > OH > RX > FlexE OH Frame Summary - Block 2 - FlexE Map
Syntax	:SENSe:DATA:TELecom:FETHernet:OH:FMAP? <wsp><PHY/Instance>, <Frame>
Parameter(s)	**PHY/Instance**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	PHY Number or Instance Number:
	PHY number for 100GE Interface/Rate
	Instance number for 200GE/400GE Interface/Rate
	Frame:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Frame Number
Response Syntax	<Return Value>
Response(s)	**Return Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the byte decimal value.
Example(s)	SENS:DATA:TEL:FETH:OH:FMAP? 1,1
	Returns: 0
See Also	SENSe:DATA:TELecom:FETHernet:OH?
	SENSe:DATA:TELecom:FETHernet:OH:BYTE?
	SENSe:DATA:TELecom:FETHernet:OH:REServed?

:SENSe:DATA:TELecom:FETHernet:OH:PHY:MAP?

Description	This query returns the byte value for particular frame in PHY Map.
	At *RST condition, this value is device dependant.
	Navigation Path: Functions > OH > RX > FlexE OH Frame Summary - Block 2 - PHY Map
Syntax	:SENSe:DATA:TELecom:FETHernet:OH:PHY:MAP? <wsp><PHY>, <Frame>
Parameter(s)	**PHY**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	PHY number
	Frame:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Frame Number
Response Syntax	<Return Value>
Response(s)	**Return Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the byte decimal value.
Example(s)	SENS:DATA:TEL:FETH:OH:PHY:MAP? 1,1
	Returns: 0
See Also	SENSe:DATA:TELecom:FETHernet:OH?
	SENSe:DATA:TELecom:FETHernet:OH:BYTE?
	SENSe:DATA:TELecom:FETHernet:OH:REServed?

:SENSe:DATA:TELecom:FETHernet:OH:REServed?

Description	This query returns the OH bytes for Block 1 Reserved.
	At *RST condition, this value is device dependant.
	Navigation Path: Functions > OH > RX > FlexE OH Frame Summary - Block 1 - Res
Syntax	:SENSe:DATA:TELecom:FETHernet:OH:REServed? <wsp><Instance>, <Reserved bit>
Parameter(s)	**Instance**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the instance number
	Reserved bit:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the reserved bit
	B1RES1 block 1 (bit 8) Reserved
	B1RES2 block 1 (bit 9) Reserved
	B1RES3 block 1 (bit 10) Reserved
	B1RES4 block 1 (bit 11) Reserved
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Return the Reserved byte value.
Example(s)	SENS:DATA:TEL:FETH:OH:RES? 1,B1RES1
See Also	SOURce:DATA:TELecom:FETHernet:OH
	SOURce:DATA:TELecom:FETHernet:OH:BYTE

:SENSe:DATA:TELecom:FETHernet:OH?

Description	This query gets CR and CA bits for Block 3 and C bit for Block 1/2/3.
	At *RST condition, this value is set to #HA
	Navigation Path: Functions > OH > RX > FlexE OH Frame Summary - Block 1/2/3 - C/CR/CA
Syntax	:SENSe:DATA:TELecom:FETHernet:OH? <wsp><Calendar>
Parameter(s)	**Calendar:**
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the OH byte value
	CR: Block 3 CR bit
	CA: Block 3 CA bit
	B1C: Block 1 C bit
	B2C: Block 2 C bit
	B3C: Block 3 C bit
Response Syntax	<Value>
Response(s)	**Value:**
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Calendar value.
	A, Calender is A
	B, Calender is B
Example(s)	SENS:DATA:TEL:FETH:OH? CR
	Returns: A
See Also	SENSe:DATA:TELecom:FETHernet:OH:BYTE?
	SENSe:DATA:TELecom:FETHernet:OH:PHY:MAP?
	SENSe:DATA:TELecom:FETHernet:OH:REServed?

:SOURce:DATA:TELecom:FETHernet:OH

Description	This command sets the CR and CA bytes for Block 3.
	At *RST condition, this value is set to #HA
	Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 3 - CR/CA
Syntax	:SOURce:DATA:TELecom:FETHernet:OH <wsp><Calendar>, <Value>
Parameter(s)	**Calendar**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the OH byte value
	CR: Block 3 CR byte
	CA: Block 3 CA byte
	Value:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	A Sets A
	B Sets B
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:FETH:OH CR,A
See Also	SOURce:DATA:TELecom:FETHernet:OH:BYTE
	SOURce:DATA:TELecom:FETHernet:OH:REServed

:SOURce:DATA:TELecom:FETHernet:OH:BYTE

Description	This command sets the OH bytes for selected PHY and Frame.
	At *RST condition, this value is set to #H00
	Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 1/2/3/4-5/6-7-8 - [byte]
Syntax	:SOURce:DATA:TELecom:FETHernet:OH:BYTE <wsp><PHY/Instance>, <Frame>, <OH Byte>,[<Value>]

:SOURce:DATA:TELecom:FETHernet:OH:BYTE

Parameter(s)	**PHY/Instance**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	PHY Number or Instance Number:
	PHY number for 100GE Interface/Rate
	Instance number for 200GE/400GE Interface/Rate
	Frame:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Frame number
	OH Byte:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the OH byte value
	B2RES1: Block 2 - Reserved byte 1
	B2RES2: Block 2 - Reserved byte 2
	B2RES3: Block 2 - Reserved byte 3
	B2RES4: Block 2 - Reserved byte 4
	B2RES5: Block 2 - Reserved byte 5
	B2RES6: Block 2 - Reserved byte 6
	B3CLRES1: Block 3 - Client Reserved byte 1
	B3CLRES2: Block 3 - Client Reserved byte 2
	B3CLRES3: Block 3 - Client Reserved byte 3
	B3CLRES4: Block 3 - Client Reserved byte 4
	B3RES1: Block 3 - Reserved byte 1
	B3RES2: Block 3 - Reserved byte 2
	B4SH: Block 4 - SH byte
	B4MCS1: Block 4 - Management Channel - Section byte 1
	B4MCS2: Block 4 - Management Channel - Section byte 2
	B4MCS3: Block 4 - Management Channel - Section byte 3
	B4MCS4: Block 4 - Management Channel - Section byte 4

:SOURce:DATA:TELecom:FETHernet:OH:BYTE

Parameter(s)	B4MCS5: Block 4 - Management Channel - Section byte 5
	B4MCS6: Block 4 - Management Channel - Section byte 6
	B4MCS7: Block 4 - Management Channel - Section byte 7
	B4MCS8: Block 4 - Management Channel - Section byte 8
	B4RES1: Block 4 - Reserved byte 1
	B4RES2: Block 4 - Reserved byte 2
	B4RES3: Block 4 - Reserved byte 3
	B4RES4: Block 4 - Reserved byte 4
	B4RES5: Block 4 - Reserved byte 5
	B4RES6: Block 4 - Reserved byte 6
	B4RES7: Block 4 - Reserved byte 7
	B4RES8: Block 4 - Reserved byte 8
	B5SH: Block 5 - SH byte
	B5MCS1: Block 5 - Management Channel - Section byte 1
	B5MCS2: Block 5 - Management Channel - Section byte 2
	B5MCS3: Block 5 - Management Channel - Section byte 3
	B5MCS4: Block 5 - Management Channel - Section byte 4
	B5MCS5: Block 5 - Management Channel - Section byte 5
	B5MCS6: Block 5 - Management Channel - Section byte 6
	B5MCS7: Block 5 - Management Channel - Section byte 7
	B5MCS8: Block 5 - Management Channel - Section byte 8
	B5RES1: Block 5 - Reserved byte 1
	B5RES2: Block 5 - Reserved byte 2
	B5RES3: Block 5 - Reserved byte 3
	B5RES4: Block 5 - Reserved byte 4
	B5RES5: Block 5 - Reserved byte 5
	B5RES6: Block 5 - Reserved byte 6
	B5RES7: Block 5 - Reserved byte 7
	B5RES8: Block 5 - Reserved byte 8
	B6SH: Block 6 - SH byte

:SOURce:DATA:TELecom:FETHernet:OH:BYTE

Parameter(s)	
	B6MCSTS1: Block 6 - Management Channel - Shim to Shim byte 1
	B6MCSTS2: Block 6 - Management Channel - Shim to Shim byte 2
	B6MCSTS3: Block 6 - Management Channel - Shim to Shim byte 3
	B6MCSTS4: Block 6 - Management Channel - Shim to Shim byte 4
	B6MCSTS5: Block 6 - Management Channel - Shim to Shim byte 5
	B6MCSTS6: Block 6 - Management Channel - Shim to Shim byte 6
	B6MCSTS7: Block 6 - Management Channel - Shim to Shim byte 7
	B6MCSTS8: Block 6 - Management Channel - Shim to Shim byte 8
	B6RES1: Block 6 - Reserved byte 1
	B6RES2: Block 6 - Reserved byte 2
	B6RES3: Block 6 - Reserved byte 3
	B6RES4: Block 6 - Reserved byte 4
	B6RES5: Block 6 - Reserved byte 5
	B6RES6: Block 6 - Reserved byte 6
	B6RES7: Block 6 - Reserved byte 7
	B6RES8: Block 6 - Reserved byte 8
	B6SC1: Block 6 - Synchronization Channel 1
	B6SC2: Block 6 - Synchronization Channel 2
	B6SC3: Block 6 - Synchronization Channel 3
	B6SC4: Block 6 - Synchronization Channel 4
	B6SC5: Block 6 - Synchronization Channel 5
	B6SC6: Block 6 - Synchronization Channel 6
	B6SC7: Block 6 - Synchronization Channel 7
	B6SC8: Block 6 - Synchronization Channel 8
	B7SH: Block 7 - SH byte
	B7MCSTS1: Block 7 - Management Channel - Shim to Shim byte 1
	B7MCSTS2: Block 7 - Management Channel - Shim to Shim byte 2
	B7MCSTS3: Block 7 - Management Channel - Shim to Shim byte 3
	B7MCSTS4: Block 7 - Management Channel - Shim to Shim byte 4

:SOURce:DATA:TELecom:FETHernet:OH:BYTE

Parameter(s)	B7MCSTS5: Block 7 - Management Channel - Shim to Shim byte 5
	B7MCSTS6: Block 7 - Management Channel - Shim to Shim byte 6
	B7MCSTS7: Block 7 - Management Channel - Shim to Shim byte 7
	B7MCSTS8: Block 7 - Management Channel - Shim to Shim byte 8
	B7RES1: Block 7 - Reserved byte 1
	B7RES2: Block 7 - Reserved byte 2
	B7RES3: Block 7 - Reserved byte 3
	B7RES4: Block 7 - Reserved byte 4
	B7RES5: Block 7 - Reserved byte 5
	B7RES6: Block 7 - Reserved byte 6
	B7RES7: Block 7 - Reserved byte 7
	B7RES8: Block 7 - Reserved byte 8
	B8SH: Block 8 - SH byte
	B8MCSTS1: Block 8 - Management Channel - Shim to Shim byte 1
	B8MCSTS2: Block 8 - Management Channel - Shim to Shim byte 2
	B8MCSTS3: Block 8 - Management Channel - Shim to Shim byte 3
	B8MCSTS4: Block 8 - Management Channel - Shim to Shim byte 4
	B8MCSTS5: Block 8 - Management Channel - Shim to Shim byte 5
	B8MCSTS6: Block 8 - Management Channel - Shim to Shim byte 6
	B8MCSTS7: Block 8 - Management Channel - Shim to Shim byte 7
	B8MCSTS8: Block 8 - Management Channel - Shim to Shim byte 8
	B8RES1: Block 8 - Reserved byte 1
	B8RES2: Block 8 - Reserved byte 2
	B8RES3: Block 8 - Reserved byte 3
	B8RES4: Block 8 - Reserved byte 4
	B8RES5: Block 8 - Reserved byte 5
	B8RES6: Block 8 - Reserved byte 6
	B8RES7: Block 8 - Reserved byte 7
	B8RES8: Block 8 - Reserved byte 8
Parameter(s)	**Value**:
	The program data syntax for the fourth parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Value to be return

:SOURce:DATA:TELecom:FETHernet:OH:BYTE

Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:FETH:OH:BYTE 5,10,B2RES3,#HF6
See Also	SOURce:DATA:TELecom:FETHernet:OH
	SOURce:DATA:TELecom:FETHernet:OH:REServed

:SOURce:DATA:TELecom:FETHernet:OH:BYTE?

Description	This command gets the OH bytes for selected PHY and Frame.
	At *RST condition, this value is set to #H00
	Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 1/2/3/4-5/6-7-8 - [byte]
Syntax	:SOURce:DATA:TELecom:FETHernet:OH:BYTE? <wsp><PHY/Instance>, <Frame>, <OH Byte>

:SOURce:DATA:TELecom:FETHernet:OH:BYTE?

Parameter(s)	
	PHY/Instance:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	PHY Number or Instance Number:
	PHY number for 100GE Interface/Rate
	Instance number for 200GE/400GE Interface/Rate
	Frame:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Frame Number
	OH Byte:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	OH Byte name for which value needs to be return.
	Selects the OH byte value
	B2RES1: Block 2 - Reserved byte 1
	B2RES2: Block 2 - Reserved byte 2
	B2RES3: Block 2 - Reserved byte 3
	B2RES4: Block 2 - Reserved byte 4
	B2RES5: Block 2 - Reserved byte 5
	B2RES6: Block 2 - Reserved byte 6
	B3CLRES1: Block 3 - Client Reserved byte 1
	B3CLRES2: Block 3 - Client Reserved byte 2
	B3CLRES3: Block 3 - Client Reserved byte 3
	B3CLRES4: Block 3 - Client Reserved byte 4
	B3RES1: Block 3 - Reserved byte 1
	B3RES2: Block 3 - Reserved byte 2
	B4SH: Block 4 - SH byte
	B4MCS1: Block 4 - Management Channel - Section byte 1
	B4MCS2: Block 4 - Management Channel - Section byte 2

	:SOURce:DATA:TELecom:FETHernet:OH:BYTE?
Parameter(s)	B4MCS3: Block 4 - Management Channel - Section byte 3
	B4MCS4: Block 4 - Management Channel - Section byte 4
	B4MCS5: Block 4 - Management Channel - Section byte 5
	B4MCS6: Block 4 - Management Channel - Section byte 6
	B4MCS7: Block 4 - Management Channel - Section byte 7
	B4MCS8: Block 4 - Management Channel - Section byte 8
	B4RES1: Block 4 - Reserved byte 1
	B4RES2: Block 4 - Reserved byte 2
	B4RES3: Block 4 - Reserved byte 3
	B4RES4: Block 4 - Reserved byte 4
	B4RES5: Block 4 - Reserved byte 5
	B4RES6: Block 4 - Reserved byte 6
	B4RES7: Block 4 - Reserved byte 7
	B4RES8: Block 4 - Reserved byte 8
	B5SH: Block 5 - SH byte
	B5MCS1: Block 5 - Management Channel - Section byte 1
	B5MCS2: Block 5 - Management Channel - Section byte 2
	B5MCS3: Block 5 - Management Channel - Section byte 3
	B5MCS4: Block 5 - Management Channel - Section byte 4
	B5MCS5: Block 5 - Management Channel - Section byte 5
	B5MCS6: Block 5 - Management Channel - Section byte 6
	B5MCS7: Block 5 - Management Channel - Section byte 7
	B5MCS8: Block 5 - Management Channel - Section byte 8
	B5RES1: Block 5 - Reserved byte 1
	B5RES2: Block 5 - Reserved byte 2
	B5RES3: Block 5 - Reserved byte 3
	B5RES4: Block 5 - Reserved byte 4
	B5RES5: Block 5 - Reserved byte 5
	B5RES6: Block 5 - Reserved byte 6
	B5RES7: Block 5 - Reserved byte 7

:SOURce:DATA:TELecom:FETHernet:OH:BYTE?

Parameter(s)	B5RES8: Block 5 - Reserved byte 8
	B6SH: Block 6 - SH byte
	B6MCSTS1: Block 6 - Management Channel - Shim to Shim byte 1
	B6MCSTS2: Block 6 - Management Channel - Shim to Shim byte 2
	B6MCSTS3: Block 6 - Management Channel - Shim to Shim byte 3
	B6MCSTS4: Block 6 - Management Channel - Shim to Shim byte 4
	B6MCSTS5: Block 6 - Management Channel - Shim to Shim byte 5
	B6MCSTS6: Block 6 - Management Channel - Shim to Shim byte 6
	B6MCSTS7: Block 6 - Management Channel - Shim to Shim byte 7
	B6MCSTS8: Block 6 - Management Channel - Shim to Shim byte 8
	B6RES1: Block 6 - Reserved byte 1
	B6RES2: Block 6 - Reserved byte 2
	B6RES3: Block 6 - Reserved byte 3
	B6RES4: Block 6 - Reserved byte 4
	B6RES5: Block 6 - Reserved byte 5
	B6RES6: Block 6 - Reserved byte 6
	B6RES7: Block 6 - Reserved byte 7
	B6RES8: Block 6 - Reserved byte 8
	B6SC1: Block 6 - Synchronization Channel 1
	B6SC2: Block 6 - Synchronization Channel 2
	B6SC3: Block 6 - Synchronization Channel 3
	B6SC4: Block 6 - Synchronization Channel 4
	B6SC5: Block 6 - Synchronization Channel 5
	B6SC6: Block 6 - Synchronization Channel 6
	B6SC7: Block 6 - Synchronization Channel 7
	B6SC8: Block 6 - Synchronization Channel 8
	B7SH: Block 7 - SH byte
	B7MCSTS1: Block 7 - Management Channel - Shim to Shim byte 1
	B7MCSTS2: Block 7 - Management Channel - Shim to Shim byte 2
	B7MCSTS3: Block 7 - Management Channel - Shim to Shim byte 3

:SOURce:DATA:TELecom:FETHernet:OH:BYTE?

Parameter(s)	B7MCSTS4: Block 7 - Management Channel - Shim to Shim byte 4
	B7MCSTS5: Block 7 - Management Channel - Shim to Shim byte 5
	B7MCSTS6: Block 7 - Management Channel - Shim to Shim byte 6
	B7MCSTS7: Block 7 - Management Channel - Shim to Shim byte 7
	B7MCSTS8: Block 7 - Management Channel - Shim to Shim byte 8
	B7RES1: Block 7 - Reserved byte 1
	B7RES2: Block 7 - Reserved byte 2
	B7RES3: Block 7 - Reserved byte 3
	B7RES4: Block 7 - Reserved byte 4
	B7RES5: Block 7 - Reserved byte 5
	B7RES6: Block 7 - Reserved byte 6
	B7RES7: Block 7 - Reserved byte 7
	B7RES8: Block 7 - Reserved byte 8
	B8SH: Block 8 - SH byte
	B8MCSTS1: Block 8 - Management Channel - Shim to Shim byte 1
	B8MCSTS2: Block 8 - Management Channel - Shim to Shim byte 2
	B8MCSTS3: Block 8 - Management Channel - Shim to Shim byte 3
	B8MCSTS4: Block 8 - Management Channel - Shim to Shim byte 4
	B8MCSTS5: Block 8 - Management Channel - Shim to Shim byte 5
	B8MCSTS6: Block 8 - Management Channel - Shim to Shim byte 6
	B8MCSTS7: Block 8 - Management Channel - Shim to Shim byte 7
	B8MCSTS8: Block 8 - Management Channel - Shim to Shim byte 8
	B8RES1: Block 8 - Reserved byte 1
	B8RES2: Block 8 - Reserved byte 2
	B8RES3: Block 8 - Reserved byte 3
	B8RES4: Block 8 - Reserved byte 4
	B8RES5: Block 8 - Reserved byte 5
	B8RES6: Block 8 - Reserved byte 6
	B8RES7: Block 8 - Reserved byte 7
	B8RES8: Block 8 - Reserved byte 8
Response Syntax	<Return Value>

:SOURce:DATA:TELecom:FETHernet:OH:BYTE?

Response(s)	**Return Value**: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the byte decimal value.
Example(s)	SOUR:DATA:TEL:FETH:OH:BYTE 5,10,B2RES3,#HF6 SOUR:DATA:TEL:FETH:OH:BYTE? 5,10,B2RES3 Returns: 246
See Also	SOURce:DATA:TELecom:FETHernet:OH? SOURce:DATA:TELecom:FETHernet:OH:REServed?

:SOURce:DATA:TELecom:FETHernet:OH:DEFault

Description	This command resets or overwrites the FlexE overhead byte values.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Functions > OH > Default FlexeE OH
Syntax	:SOURce:DATA:TELecom:FETHernet:OH:DEFault
Response Syntax	<Return Value>
Example(s)	SOUR:DATA:TEL:FETH:OH:DEF

:SOURce:DATA:TELecom:FETHernet:OH:DEFault:BYTE?

Description	This query gets the OH bytes for SH, Type, O Code.
	At *RST condition, this value is set to device dependent.
	Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 1/2/3 - SH, Type, O Code
Syntax	:SOURce:DATA:TELecom:FETHernet:OH:DEFault:BYTE? <wsp><Token>
Parameter(s)	**Token**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	OH Byte name for which value needs to be returned.
	Selects the OH byte value
	B1SH: Block 1 - SH byte
	B1TYPE: Block 1 - Type byte
	B1OCODE: Block 1 - O Code byte
	B2SH: Block 2 - SH byte
	B3SH: Block 3 - SH byte
Response Syntax	<Return Value>
Response(s)	**Return Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the byte decimal value.
Example(s)	SOUR:DATA:TEL:FETH:OH:DEF:BYTE? SH
	Returns: 10
See Also	SOURce:DATA:TELecom:FETHernet:OH?

:SOURce:DATA:TELecom:FETHernet:OH:FMAP?

Description	This query returns the byte value for particular frame in FlexE Map.
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 2 - FlexE Map
Syntax	:SOURce:DATA:TELecom:FETHernet:OH:FMAP? <wsp><Frame>
Parameter(s)	**Frame**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Frame Number
Response Syntax	<Return value>
Response(s)	**Return value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Return the byte decimal value.
Example(s)	SOUR:DATA:TEL:FETH:OH:FMAP? 1
	Returns: 0
See Also	SENSe:DATA:TELecom:FETHernet:OH?

:SOURce:DATA:TELecom:FETHernet:OH:GROup?

Description	This query returns the group number associated with a FlexE group.
	At *RST condition, this value is device dependant.
	Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 1 Group
Syntax	:SOURce:DATA:TELecom:FETHernet:OH:GROup?[<wsp><Instance>]
Parameter(s)	**Instance**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Instance number for 200GE/400GE Interface/Rate
	Parameter is not required for 100GE Interface/Rate
Response Syntax	<value>
Response(s)	**value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Value to be return
Example(s)	SOURce:DATA:TELecom:FETHernet:OH:GROup? 1
See Also	SOURce:DATA:TELecom:FETHernet:OH:SC? 1

:SOURce:DATA:TELecom:FETHernet:OH:OXO?

Description	This query gets the Oxo bytes for Block 1.
	At *RST condition, this value is set to 0
	Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 1 OXO code
Syntax	:SOURce:DATA:TELecom:FETHernet:OH:OXO?
Response Syntax	\<Return value\>
Response(s)	**Return value**:
	The response data syntax for the first parameter is defined as a \<NR1 NUMERIC RESPONSE DATA\> element.
	Return the Oxo Code bytes value.
Example(s)	SOUR:DATA:TEL:FETH:OH:OXO?
	Returns: 0
See Also	SENSe:DATA:TELecom:FETHernet:OH:REServed?

:SOURce:DATA:TELecom:FETHernet:OH:PHY:MAP?

Description	This query returns the byte value for particular frame in PHY Map.
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 2 - PHY Map
Syntax	:SOURce:DATA:TELecom:FETHernet:OH:PHY:MAP? <wsp><Frame>
Parameter(s)	**Frame**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Frame Number
Response Syntax	<Return value>
Response(s)	**Return value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Return the byte decimal value.
Example(s)	SOUR:DATA:TEL:FETH:OH:PHY:MAP? 1
	Returns: 0
See Also	SENSe:DATA:TELecom:FETHernet:OH?

:SOURce:DATA:TELecom:FETHernet:OH:REServed

Description	This command sets the Reserved bytes for Block 1.
	At *RST condition, this value is set to #H1
	Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 1 - Res
Syntax	:SOURce:DATA:TELecom:FETHernet:OH:REServed <wsp><Instance>, <Reserved bit>, <Value>
Parameter(s)	**Instance**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the instance number
	Reserved bit:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the reserved bit
	B1RES1 block 1 (bit 8) Reserved
	B1RES2 block 1 (bit 9) Reserved
	B1RES3 block 1 (bit 10) Reserved
	B1RES4 block 1 (bit 11) Reserved
	Value:
	The program data syntax for the third parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the value for reserved bit
Response Syntax	<Return value>
Example(s)	SOUR:DATA:TEL:FETH:OH:RES 1,B1RES1,#B1
See Also	SOURce:DATA:TELecom:FETHernet:OH
	SOURce:DATA:TELecom:FETHernet:OH:BYTE

:SOURce:DATA:TELecom:FETHernet:OH:REServed?

Description	This command sets the Reserved bytes for Block 1.
	At *RST condition, this value is set to #H1
	Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 1 - Res
Syntax	:SOURce:DATA:TELecom:FETHernet:OH:REServed? <wsp><Instance>, <Reserved bit>
Parameter(s)	**Instance**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the instance number
	Reserved bit:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the reserved bit
	B1RES1 block 1 (bit 8) Reserved
	B1RES2 block 1 (bit 9) Reserved
	B1RES3 block 1 (bit 10) Reserved
	B1RES4 block 1 (bit 11) Reserved
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Return the Reserved byte value.
Example(s)	SOUR:DATA:TEL:FETH:OH:RES? 1,B1RES1
See Also	SOURce:DATA:TELecom:FETHernet:OH
	SOURce:DATA:TELecom:FETHernet:OH:BYTE

:SOURce:DATA:TELecom:FETHernet:OH:RPF?

Description	This query gets the RPF bit for Block 1.
	At *RST condition, this value is set to 0
	Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 1 - RPF
Syntax	:SOURce:DATA:TELecom:FETHernet:OH:RPF? <wsp><PHY/Instance>
Parameter(s)	**PHY/Instance**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	PHY Number or Instance Number:
	PHY number for 100GE Interface/Rate
	Instance number for 200GE/400GE Interface/Rate
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Return the RPF bit value.
Example(s)	SOUR:DATA:TEL:FETH:OH:RPF? 1
See Also	SOURce:DATA:TELecom:FETHernet:OH:RES?

:SOURce:DATA:TELecom:FETHernet:OH:SC

Description	This command sets the SC bit for Block 1.
	At *RST condition, this value is set to 0
	Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 1 - SC
Syntax	:SOURce:DATA:TELecom:FETHernet:OH:SC <wsp><PHY/Instance>, <Value>
Parameter(s)	**PHY/Instance**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	PHY Number or Instance Number:
	PHY number for 100GE Interface/Rate
	Instance number for 200GE/400GE Interface/Rate
	Value:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Value to be set
Response Syntax	<Value>
Example(s)	SOURce:DATA:TELecom:FETHernet:OH:SC 1,1
See Also	SOURce:DATA:TELecom:FETHernet:OH:RES

:SOURce:DATA:TELecom:FETHernet:OH:SC?

Description	This query returns the SC bit for Block 1.
	At *RST condition, this value is set to 0
	Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 1 - SC
Syntax	:SOURce:DATA:TELecom:FETHernet:OH:SC? <wsp><PHY/Instance>
Parameter(s)	**PHY/Instance**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	PHY Number or Instance Number:
	PHY number for 100GE Interface/Rate
	Instance number for 200GE/400GE Interface/Rate
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Return value
Example(s)	SOURce:DATA:TELecom:FETHernet:OH:SC 1,1
	SOURce:DATA:TELecom:FETHernet:OH:SC? 1
	Returns: 1
See Also	SOURce:DATA:TELecom:FETHernet:OH:RPF?

:SOURce:DATA:TELecom:FETHernet:OH?

Description	This query gets the CR and CA OH bytes for Block 3.
	At *RST condition, this value is set to A
	Navigation Path: Functions > OH > TX > FlexE OH Frame Summary - Block 3 - CR/CA
Syntax	:SOURce:DATA:TELecom:FETHernet:OH? <wsp><Calendar>
Parameter(s)	**Calendar**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects OH byte value
	CR: Block 3 CR byte
	CA: Block 3 CA byte
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the CR or CA Calendar value.
	A, Calender is A
	B, Calender is B
Example(s)	SOUR:DATA:TEL:FETH:OH CA,A
	SOUR:DATA:TEL:FETH:OH? CA
	Returns: A
See Also	SOURce:DATA:TELecom:FETHernet:OH:BYTE?
	SOURce:DATA:TELecom:FETHernet:OH:REServed?

RTD

:FETCh:DATA:TELecom:RTD:COUNt:FAILed?

Description	This query returns the total number of failed measurements.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: OTN BERT > Functions > RTD
Syntax	:FETCh:DATA:TELecom:RTD:COUNt:FAILed?
Response Syntax	<Failed>
Response(s)	**Failed**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the total number of failed measurements.
Example(s)	SENS:DATA:TEL:RTD:MODE SING
	SENS:DATA:TEL:RTD ON
	FETC:DATA:TEL:RTD:COUN:FAIL?
See Also	FETCh:DATA:TELecom:RTD:COUNt:SUCCessful?

:FETCh:DATA:TELecom:RTD:COUNt:SUCCessful?

Description	This query returns the total number of successful measurements.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: OTN BERT > Functions > RTD
Syntax	:FETCh:DATA:TELecom:RTD:COUNt:SUCCessful?
Response Syntax	<Successful>
Response(s)	**Successful**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the total number of successful measurements.
Example(s)	SENS:DATA:TEL:RTD:MODE SING
	SENS:DATA:TEL:RTD ON
	FETC:DATA:TEL:RTD:COUN:SUCC?
See Also	FETCh:DATA:TELecom:RTD:COUNt:FAILed?

:FETCh:DATA:TELecom:RTD:DELay:AVERage?

Description	This query returns the average Round Trip Delay value.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: OTN BERT > Functions > RTD
Syntax	:FETCh:DATA:TELecom:RTD:DELay:AVERage?
Response Syntax	<Average>
Response(s)	**Average**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the average Round Trip Delay value.
Example(s)	SENS:DATA:TEL:RTD:MODE SING
	SENS:DATA:TEL:RTD ON
	FETC:DATA:TEL:RTD:DEL:AVER?
See Also	FETCh:DATA:TELecom:RTD:DELay:MINimum?

:FETCh:DATA:TELecom:RTD:DELay:LAST?

Description	This query returns the result of the last Round Trip Delay.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: OTN BERT > Functions > RTD
Syntax	:FETCh:DATA:TELecom:RTD:DELay:LAST?
Response Syntax	<Last>
Response(s)	**Last**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the result of the last Round Trip Delay.
Example(s)	SENS:DATA:TEL:RTD:MODE SING
	SENS:DATA:TEL:RTD ON
	FETC:DATA:TEL:RTD:DEL:LAST?
See Also	FETCh:DATA:TELecom:RTD:DELay:MAXimum?

:FETCh:DATA:TELecom:RTD:DELay:MAXimum?

Description	This query returns the maximum Round Trip Delay recorded.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: OTN BERT > Functions > RTD
Syntax	:FETCh:DATA:TELecom:RTD:DELay:MAXimum?
Response Syntax	<Maximum>
Response(s)	**Maximum**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the maximum Round Trip Delay recorded.
Example(s)	SENS:DATA:TEL:RTD:MODE SING
	SENS:DATA:TEL:RTD ON
	FETC:DATA:TEL:RTD:DEL:MAX?
See Also	FETCh:DATA:TELecom:RTD:DELay:LAST?

:FETCh:DATA:TELecom:RTD:DELay:MINimum?

Description	This query returns the minimum Round Trip Delay recorded.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: OTN BERT > Functions > RTD
Syntax	:FETCh:DATA:TELecom:RTD:DELay:MINimum?
Response Syntax	<Minimum>
Response(s)	**Minimum**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the minimum Round Trip Delay recorded.
Example(s)	SENS:DATA:TEL:RTD:MODE SING
	SENS:DATA:TEL:RTD ON
	FETC:DATA:TEL:RTD:DEL:MIN?
See Also	FETCh:DATA:TELecom:RTD:DELay:MAXimum?

:FETCh:DATA:TELecom:RTD:DELay:STATus?

Description	This query returns the test status of the Round Trip Delay measurements.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: OTN BERT > Functions > RTD
Syntax	:FETCh:DATA:TELecom:RTD:DELay:STATus?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the test status of the Round Trip Delay measurements.
	READY, Ready indicates that the test is ready to perform RTD measurement.
	RUNNING, Running indicates that the RTD test is running.
	CANCELLED, Cancelled indicates that the RTD test has been stopped before its completion.
	CFAILED, Calibration Failed indicates that the test calibration failed.
Example(s)	SENS:DATA:TEL:RTD:MODE CONT
	SENS:DATA:TEL:RTD ON
	FETC:DATA:TEL:RTD:DEL:STAT?
See Also	FETCh:DATA:TELecom:RTD:DELay:LAST?

:SENSe:DATA:TELecom:RTD

Description	This command enables/disables the round trip delay measurements.
	At *RST condition, this value is set to OFF.
	Navigation Path: OTN BERT > Functions > RTD > Measure Delay
Syntax	:SENSe:DATA:TELecom:RTD <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the round trip delay measurement.
	ON, enables the round trip delay measurement.
	OFF, disables the round trip delay measurement.
Response Syntax	<Status>
Example(s)	SENS:DATA:TEL:RTD:MODE CONT
	SENS:DATA:TEL:RTD ON
	SENS:DATA:TEL:RTD?
	Returns: 1
See Also	SENSe:DATA:TELecom:RTD:MODE
	SENSe:DATA:TELecom:RTD:MODE?

:SENSe:DATA:TELecom:RTD:MODE

Description	This command selects the round trip delay test mode.
	At *RST condition, this value is set to SINGle.
	Navigation Path: OTN BERT > Functions > RTD
Syntax	:SENSe:DATA:TELecom:RTD:MODE <wsp><Mode>
Parameter(s)	**Mode**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the round trip delay test mode.
	SINGle: Single.
	CONTinuous: Continuous
Response Syntax	<Status>
Example(s)	SENS:DATA:TEL:RTD:MODE SING
	SENS:DATA:TEL:RTD:MODE?
	Returns: SINGLE
See Also	SENSe:DATA:TELecom:RTD
	SENSe:DATA:TELecom:RTD?

:SENSe:DATA:TELecom:RTD:MODE?

Description	This query returns the round trip delay test mode.
	At *RST condition, this value is set to SINGle.
	Navigation Path: OTN BERT > Functions > RTD
Syntax	:SENSe:DATA:TELecom:RTD:MODE?
Response Syntax	<Mode>
Response(s)	**Mode**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the round trip delay test mode.
	SINGLE, single mode is selected as the round trip delay.
	CONTINUOUS, continuous mode is selected as the round trip delay.
Example(s)	SENS:DATA:TEL:RTD:MODE CONT
	SENS:DATA:TEL:RTD:MODE?
	Returns: SINGLE
See Also	SENSe:DATA:TELecom:RTD
	SENSe:DATA:TELecom:RTD?

:SENSe:DATA:TELecom:RTD:RESet

Description	This command resets the results and measurement count.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: OTN BERT > Functions > RTD
Syntax	:SENSe:DATA:TELecom:RTD:RESet
Response Syntax	<Mode>
Example(s)	SENS:DATA:TEL:RTD:MODE SING
	SENS:DATA:TEL:RTD ON
	SENS:DATA:TEL:RTD:RES
See Also	FETCh:DATA:TELecom:RTD:COUNt:SUCCessful?

:SENSe:DATA:TELecom:RTD?

Description	This query returns the status of round trip delay measurements.
	At *RST condition, this value is set to OFF.
	Navigation Path: OTN BERT > Functions > RTD > Measure Delay
Syntax	:SENSe:DATA:TELecom:RTD?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the round trip delay measurement.
	1, enables measurement of the round trip delay.
	0, disables measurement of the round trip delay.
Example(s)	SENS:DATA:TEL:RTD:MODE CONT
	SENS:DATA:TEL:RTD ON
	SENS:DATA:TEL:RTD?
	Returns: 1
See Also	SENSe:DATA:TELecom:RTD:MODE
	SENSe:DATA:TELecom:RTD:MODE?

RTD (CPRI Framed L2)

:FETCh:DATA:TELecom:CPRI:OBSai:IDELay?

Description	This Query returns the OBSAI RTT value.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > RTT > RRH - Delay
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:IDELay?
Response Syntax	<Internal Delay>
Response(s)	**Internal Delay**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Return Internal Delay Value.
Example(s)	FETC:DATA:TEL:CPRI:OBS:IDEL?
See Also	FETCh:DATA:TEL:CPRI:OBS:MESS:C1?

:FETCh:DATA:TELecom:CPRI:OBSai:PROPdelay?

Description	This Query returns the OBSAI RTT Propagation delay value.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > RTT > Propagation Delay.
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:PROPdelay? <wsp><Value>
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Propagation Delay Type
	LAST: Propagation Delay Last
	RMINimum: Propagation Delay Minimum
	RMAXimum:Propagation Delay Maximum
	AVERAGE: Propagation Delay Average
Response Syntax	<Propagation Delay>
Response(s)	**Propagation Delay**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Return Propagation Delay Value.
Example(s)	FETC:DATA:TEL:CPRI:OBS:PROP?
See Also	FETCh:DATA:TEL:CPRI:OBS:RXS?

:FETCh:DATA:TELecom:CPRI:OBSai:RTT?

Description	This Query returns the OBSAI RTT value.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > RTT > RTT.
Syntax	:FETCh:DATA:TELecom:CPRI:OBSai:RTT? <wsp><Value>
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	RTT Type
	LAST: RTT Last
	RMINimum: RTT Minimum
	RMAXimum:RTT Maximum
	AVERAGE: RTT Average
Response Syntax	<RTT>
Response(s)	**RTT**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Return RTT Value.
Example(s)	FETC:DATA:TEL:CPRI:OBS:RTT?
See Also	FETCh:DATA:TEL:CPRI:OBS:MESS:C1?

:SENSe:DATA:TELecom:CPRI:RTD:CABLe:AVERage?

Description	This query returns the Maximum count for Cable Delay.
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > RTD (CPRI) > Cable Delay > Average
Syntax	:SENSe:DATA:TELecom:CPRI:RTD:CABLe:AVERage?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Maximum count for Cable Delay.
Example(s)	SENS:DATa:TEL:CPRI:RTD:CABL:AVER?
See Also	SENSe:DATA:TELecom:CPRI:RTD:CABLe:MAXimum?

:SENSe:DATA:TELecom:CPRI:RTD:CABLe:LAST?

Description	This query returns the Last count for Cable Delay.
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > RTD (CPRI) > Cable Delay > Last
Syntax	:SENSe:DATA:TELecom:CPRI:RTD:CABLe:LAST?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Last count for Cable Delay.
Example(s)	SENS:DATa:TEL:CPRI:RTD:CABL:LAST?
See Also	SENSe:DATA:TELecom:CPRI:RTD:CABLe:MINimum?

:SENSe:DATA:TELecom:CPRI:RTD:CABLe:MAXimum?

Description	This query returns the Maximum count for Cable Delay.
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > RTD (CPRI) > Cable Delay > Maximum
Syntax	:SENSe:DATA:TELecom:CPRI:RTD:CABLe:MAXimum?
Response Syntax	<Count>
Response(s)	Count:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Maximum count for Cable Delay.
Example(s)	SENS:DATa:TEL:CPRI:RTD:CABL:MAX?
See Also	SENSe:DATA:TELecom:CPRI:RTD:CABLe:AVERage?

:SENSe:DATA:TELecom:CPRI:RTD:CABLe:MINimum?

Description	This query returns the Minimum count for Cable Delay.
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > RTD (CPRI) > Cable Delay > Mimimum
Syntax	:SENSe:DATA:TELecom:CPRI:RTD:CABLe:MINimum?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Minimum count for Cable Delay.
Example(s)	SENSe:DATa:TEL:CPRI:RTD:CABL:MIN?
See Also	SENSe:DATA:TELecom:CPRI:RTD:CABLe:LAST?

:SENSe:DATA:TELecom:CPRI:RTD:DELay:AVERage?

Description	This query returns the Average count for Delay T14.
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > RTD (CPRI) > Delay T14 > Average
Syntax	:SENSe:DATA:TELecom:CPRI:RTD:DELay:AVERage?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Average count for Delay T14.
Example(s)	SENS:DATa:TEL:CPRI:RTD:DEL:AVER?
See Also	SENSe:DATA:TELecom:CPRI:RTD:DELay:MAXimum?

:SENSe:DATA:TELecom:CPRI:RTD:DELay:LAST?

Description	This query returns the Last count for Delay T14.
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > RTD (CPRI) > Delay T14 > Last
Syntax	:SENSe:DATA:TELecom:CPRI:RTD:DELay:LAST?
Response Syntax	\<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a \<STRING RESPONSE DATA> element.
	Returns the Last count for Delay T14.
Example(s)	SENS:DATa:TEL:CPRI:RTD:DEL:LAST?
See Also	SENSe:DATA:TELecom:CPRI:RTD:DELay:MINimum?

:SENSe:DATA:TELecom:CPRI:RTD:DELay:MAXimum?

Description	This query returns the Maximum count for Delay T14.
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > RTD (CPRI) > Delay T14 > Maximum
Syntax	:SENSe:DATA:TELecom:CPRI:RTD:DELay:MAXimum?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Minimum count for Delay T14.
Example(s)	SENS:DATa:TEL:CPRI:RTD:DEL:MAX?
See Also	SENSe:DATA:TELecom:CPRI:RTD:DELay:AVERage?

:SENSe:DATA:TELecom:CPRI:RTD:DELay:MINimum?

Description	This query returns the Minimum count for Delay T14.
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > RTD (CPRI) > Delay T14 > Mimimum
Syntax	:SENSe:DATA:TELecom:CPRI:RTD:DELay:MINimum?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Minimum count for Delay T14.
Example(s)	SENS:DATa:TEL:CPRI:RTD:DEL:MIN?
See Also	SENSe:DATA:TELecom:CPRI:RTD:DELay:LAST?

:SOURce:DATA:TELecom:CPRI:RTD:TOFFset

Description	This Command set toffset Value.
	At *RST condition, this value is 0.00.
	Navigation Path: Functions > RTD (CPRI) > Toffset
Syntax	:SOURce:DATA:TELecom:CPRI:RTD:TOFFset <wsp><Toffset>
Parameter(s)	**Toffset**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Toffset value. Choices are 0 to 66670.
	MAXimum, sets the instrument's greatest supported Toffset value.
	MINimum, sets the instrument's smallest supported Toffset value.
	DEFault, sets the Toffset as default value.
Response Syntax	<Count>
Example(s)	SOUR:DATA:TEL:CPRI:RTD:TOFF
See Also	SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:AMOunt

:SOURce:DATA:TELecom:CPRI:RTD:TOFFset?

Description	This Query returns toffset Value.
	At *RST condition, this value is 0.00.
	Navigation Path: Functions > RTD (CPRI) > Toffset
Syntax	:SOURce:DATA:TELecom:CPRI:RTD:TOFFset?[<wsp><Toffset>]
Parameter(s)	**Toffset**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current Toffset value is returned.
	MAXimum is used to retrieve the instrument's greatest supported Toffset value.
	MINimum is used to retrieve the instrument's smallest supported Toffset value.
	DEFault is used to retrieve the default Toffset value.
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns toffset Value.
Example(s)	SOUR:DATA:TEL:CPRI:RTD:TOFF?
See Also	SOURce:DATA:TELecom:CPRI:INTerface:ERRor:MANual:AMOunt?

FEAC

:FETCh:DATA:TELecom:DSN:FEAC:LINK?

Description	This query returns the activity for the No Activity (All 1's), Alarm/Status, Loopback and Unassigned parameters during the last second of measurement.
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > FEAC > Received Messages > Link Activity
Syntax	:FETCh:DATA:TELecom:DSN:FEAC:LINK? <wsp><Activity>
Parameter(s)	**Activity**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the activity for the following parameters during the last second of measurement.
	NOACtivity: No Activity (All 1's).
	ASTatus: Alarm/Status.
	LOOPback: Loopback.
	UNASsigned: Unassigned.
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the activity for the selected parameters during the last second of measurement.
	1, selected parameter is present
	0, selected parameter is absent
Example(s)	FETC:DATA:TEL:DSN:FEAC:LINK? LOOP
See Also	FETCh:DATA:TEL:SONet:SECTion:PM:STATistics?

:FETCh:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel?

Description	This query returns the channel Loopback commands for Current or Previous state.
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > FEAC > Received Messages > Loopback Commands > Current/Previous > Channel
Syntax	:FETCh:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Alarm/Status Unassigned Messages.
	CURRent: Alarm/Status Unassigned Messages for Current state.
	PREVious: Alarm/Status Unassigned Messages for Previous state.
Response Syntax	<Command>
Response(s)	**Command**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the channel loopback commands for Current or Previous state.
Example(s)	FETC:DATA:TEL:DSN:FEAC:LOOP:CHAN? CURR
See Also	FETCh:DATA:TELecom:DSN:FEAC:CONTrol?

:FETCh:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol?

Description	This query returns the control Loopback commands for Current or Previous state.
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > FEAC > Received Messages > Loopback Commands > Current/Previous > Control
Syntax	:FETCh:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Alarm/Status Unassigned Messages.
	CURRent: Alarm/Status Unassigned Messages for Current state.
	PREVious: Alarm/Status Unassigned Messages for Previous state.
Response Syntax	<Command>
Response(s)	**Command**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the control loopback commands for Current or Previous state.
Example(s)	FETC:DATA:TEL:DSN:FEAC:LOOP:CONT? CURR
See Also	FETCh:DATA:TELecom:DSN:FEAC:CHANnel?

:FETCh:DATA:TELecom:DSN:FEAC:MESSage?

Description	This query returns the Alarm/Status Unassigned Messages.
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > FEAC > Received Messages > Alarm/Status and Unassigned > Mode(Manual) > Inject
Syntax	:FETCh:DATA:TELecom:DSN:FEAC:MESSage? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Alarm/Status Unassigned Messages.
	CURRent: Alarm/Status Unassigned Messages for Current state.
	PREVious: Alarm/Status Unassigned Messages for Previous state.
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Alarm/Status Unassigned Messages.
Example(s)	FETC:DATA:TEL:DSN:FEAC:MESS? CURR
See Also	FETCh:DATA:TEL:SONet:SECTion:PM:STATistics?

:SOURce:DATA:TELecom:DSN:FEAC:CODeword

Description	This command selects the continuous codeword for Alarm/Status Unassigned Messages.
	At *RST condition, this value is set to DS3IR.
	Navigation Path: Functions > FEAC > Generated Messages > Alarm/Status and Unassigned > Codeword
Syntax	:SOURce:DATA:TELecom:DSN:FEAC:CODeword <wsp><Codeword>
Parameter(s)	**Codeword**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the codeword.
	DS3EFSA: DS3 Eqpt. Failure (SA) (00110010)
	DS3LOS: DS3 LOS (00011100)
	DS3OOF: DS3 Out of Frame (00000000)
	DS3AR: DS3 AIS Received (00101100)
	DS3IR: DS3 IDLE Received (00110100)
	DS3EFNSA: DS3 Eqpt. Failure (NSA) (00011110)
	CEFailure: Common Eqpt. Failure (NSA) (00111010)
	MDS1LOS: Multiple DS1 LOS (00101010)
	DS1EFSA: DS1 Eqpt. Failure (SA) (00001010)
	SDS1LOS: Single DS1 LOS (00111100)
	DS1EFNSA: DS1 Eqpt. Failure (NSA) (00000110)
	U00000010: Unassigned (00000010); U00000100: Unassigned (00000100); U00001000: Unassigned (00001000); U00001100: Unassigned (00001100); U00010000: Unassigned (00010000); U00010010: Unassigned (00010010); U00010100: Unassigned (00010100); U00010110: Unassigned (00010110); U00011000: Unassigned (00011000); U00011010: Unassigned (00011010); U00100000: Unassigned (00100000); U00100010: Unassigned (00100010); U00100100: Unassigned (00100100); U00101000: Unassigned (00101000); U00101110: Unassigned (00101110); U00110000: Unassigned (00110000); U00111110: Unassigned (00111110); U01000000: Unassigned (01000000); U01111010: Unassigned (01111010); U01111100: Unassigned (U01111100); U01111110: Unassigned (01111110);
	IVALue: Invalid Value

:SOURce:DATA:TELecom:DSN:FEAC:CODeword

Response Syntax	\<Message\>
Example(s)	SOUR:DATA:TEL:DSN:FEAC:COD DS3LOS
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:CONTinous:CODEword?

:SOURce:DATA:TELecom:DSN:FEAC:CODeword?

Description	This query returns the continuous codeword for Alarm/Status Unassigned Messages.
	At *RST condition, this value is set to DS3IR.
	Navigation Path: Functions > FEAC > Generated Messages > Alarm/Status and Unassigned > Codeword
Syntax	:SOURce:DATA:TELecom:DSN:FEAC:CODeword?
Response Syntax	<Codeword>

:SOURce:DATA:TELecom:DSN:FEAC:CODeword?

Response(s)

Codeword:

The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.

Returns the codeword.

DS3EFSA: DS3 Eqpt. Failure (SA) (00110010)

DS3LOS: DS3 LOS (00011100)

DS3OOF: DS3 Out of Frame (00000000)

DS3AR: DS3 AIS Received (00101100)

DS3IR: DS3 IDLE Received (00110100)

DS3EFNSA: DS3 Eqpt. Failure (NSA) (00011110)

CEFailure: Common Eqpt. Failure (NSA) (00111010)

MDS1LOS: Multiple DS1 LOS (00101010)

DS1EFSA: DS1 Eqpt. Failure (SA) (00001010)

SDS1LOS: Single DS1 LOS (00111100)

DS1EFNSA: DS1 Eqpt. Failure (NSA) (00000110)

U00000010: Unassigned (00000010); U00000100: Unassigned (00000100); U00001000: Unassigned (00001000); U00001100: Unassigned (00001100); U00010000: Unassigned (00010000); U00010010: Unassigned (00010010); U00010100: Unassigned (00010100); U00010110: Unassigned (00010110); U00011000: Unassigned (00011000); U00011010: Unassigned (00011010); U00100000: Unassigned (00100000); U00100010: Unassigned (00100010); U00100100: Unassigned (00100100); U00101000: Unassigned (00101000); U00101110: Unassigned (00101110); U00110000: Unassigned (00110000); U00111110: Unassigned (00111110); U01000000: Unassigned (01000000); U01111010: Unassigned (01111010); U01111100: Unassigned (01111100); U01111110: Unassigned (01111110)

IVALue: Invalid Value

Example(s)

SOUR:DATA:TEL:DSN:FEAC:COD DS3LOS

SOUR:DATA:TEL:DSN:FEAC:COD?

Returns: DS3LOS

See Also

SOURce:DATA:TELecom:DSN:FEAC

SOURce:DATA:TELecom:DSN:FEAC:CONTinous:CODeword

:SOURce:DATA:TELecom:DSN:FEAC:CONTinuous

Description	This command enables/disables the Continuous Codeword feature.
	At *RST condition, this value is set to OFF.
	Navigation Path: Functions > FEAC > Generated Messages > Alarm/Status and Unassigned > Mode(Continous) > Codeword
Syntax	:SOURce:DATA:TELecom:DSN:FEAC:CONTinuous <wsp><Set>
Parameter(s)	Set:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the Continuous Codeword feature.
	ON, enables the Continuous Codeword feature.
	OFF,disables the Continuous Codeword feature.
Response Syntax	<Codeword>
Example(s)	SOUR:DATA:TEL:DSN:FEAC:CONT ON
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:CONTinous:CODEword
	SOURce:DATA:TELecom:DSN:FEAC:CONTinous?

:SOURce:DATA:TELecom:DSN:FEAC:CONTinuous?

Description	This query returns the status of the Continuous Codeword feature.
	At *RST condition, this value is set to OFF.
	Navigation Path: Functions > FEAC > Generated Messages > Alarm/Status and Unassigned > Mode(Continous) > Codeword
Syntax	:SOURce:DATA:TELecom:DSN:FEAC:CONTinuous?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the Continuous Codeword feature.
Example(s)	SOUR:DATA:TEL:DSN:FEAC:CONT:COD DS3LOS
	SOUR:DATA:TEL:DSN:FEAC:CONT ON
	SOUR:DATA:TEL:DSN:FEAC:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:CONTinous:CODEword
	SOURce:DATA:TELecom:DSN:FEAC:CONTinous

:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:AMOunt

Description	This command sets the amount of channel codeword for Loopback Commands.
	At *RST condition, this value is set to 10.
	Navigation Path: Functions > FEAC > Generated Messages > Loopback Commands > Channel > Amount
Syntax	:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of channel codeword for Loopback Commands.
	Choices are 1 through 15.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:DSN:FEAC:LOOP:CHAN:AMO 10
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:CODEword
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:AMOunt?
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:INJect

:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:AMOunt?

Description	This query returns the amount of channel codeword for Loopback Commands.
	At *RST condition, this value is set to 10.
	Navigation Path: Functions > FEAC > Generated Messages > Loopback Commands > Channel > Amount
Syntax	:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:AMOunt?[<wsp><Amount>]
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of channel codeword for Loopback commands.
Example(s)	SOUR:DATA:TEL:DSN:FEAC:LOOP:CHAN:COD DS3L2
	SOUR:DATA:TEL:DSN:FEAC:LOOP:CHAN:AMO 10
	SOUR:DATA:TEL:DSN:FEAC:LOOP:CHAN:AMO?
	Returns: 10
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:CODEword
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:AMOunt
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:INJect

:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:CODeword

Description	This command selects the channel codeword for Loopback commands.
	At *RST condition, this value is set to DS3L.
	Navigation Path: Functions > FEAC > Generated Messages > Loopback Commands > Channel > Codeword
Syntax	:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:CODeword <wsp><Codeword>
Parameter(s)	**Codeword**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the channel codeword for Loopback commands.
	DS3L: DS3 Line (00110110); DS1L1: DS1 Line-No1 (01000010); DS1L2: DS1 Line-No2 (01000100); DS1L3: DS1 Line-No3 (01000110); DS1L4: DS1 Line-No4 (01001000); DS1L5: DS1 Line-No5 (01001010); DS1L6: DS1 Line-No6 (01001100); DS1L7: DS1 Line-No7 (01001110); DS1L8: DS1 Line-No8 (01010000); DS1L9: DS1 Line-No9 (01010010); DS1L10: DS1 Line-No10 (01010100); DS1L11: DS1 Line-No11 (01010110); DS1L12: DS1 Line-No12 (01011000); DS1L13: DS1 Line-No13 (01011010); DS1L14: DS1 Line-No14 (01011100); DS1L15: DS1 Line-No15 (01011110); DS1L16: DS1 Line-No16 (01100000); DS1L17: DS1 Line-No17 (01100010); DS1L18: DS1 Line-No18 (01100100); DS1L19: DS1 Line-No19 (01100110); DS1L20: DS1 Line-No20 (01101000); DS1L21: DS1 Line-No21 (01101010); DS1L22: DS1 Line-No22 (01101100); DS1L23: DS1 Line-No23 (01101110); DS1L24: DS1 Line-No24 (01110000); DS1L25: DS1 Line-No25 (01110010); DS1L26: DS1 Line-No26 (01110100); DS1L27: DS1 Line-No27 (01110110); DS1L28: DS1 Line-No28 (01111000); DS1LALL: DS1 Line-All (00100110)
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:DSN:FEAC:LOOP:CHAN:COD DS3L
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:CODEword?
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:AMOunt
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:INJect

:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:CODeword?

Description	This query returns the channel codeword for Loopback commands.
	At *RST condition, this value is set to DS3L.
	Navigation Path: Functions > FEAC > Generated Messages > Loopback Commands > Channel > Codeword
Syntax	:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:CODeword?
Response Syntax	<Codeword>
Response(s)	**Codeword**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the channel codeword for Loopback commands.
	DS3L: DS3 Line (00110110); DS1L1: DS1 Line-No1 (01000010); DS1L2: DS1 Line-No2 (01000100); DS1L3: DS1 Line-No3 (01000110); DS1L4: DS1 Line-No4 (01001000); DS1L5: DS1 Line-No5 (01001010); DS1L6: DS1 Line-No6 (01001100); DS1L7: DS1 Line-No7 (01001110); DS1L8: DS1 Line-No8 (01010000); DS1L9: DS1 Line-No9 (01010010); DS1L10: DS1 Line-No10 (01010100); DS1L11: DS1 Line-No11 (01010110); DS1L12: DS1 Line-No12 (01011000); DS1L13: DS1 Line-No13 (01011010); DS1L14: DS1 Line-No14 (01011100); DS1L15: DS1 Line-No15 (01011110); DS1L16: DS1 Line-No16 (01100000); DS1L17: DS1 Line-No17 (01100010); DS1L18: DS1 Line-No18 (01100100); DS1L19: DS1 Line-No19 (01100110); DS1L20: DS1 Line-No20 (01101000); DS1L21: DS1 Line-No21 (01101010); DS1L22: DS1 Line-No22 (01101100); DS1L23: DS1 Line-No23 (01101110); DS1L24: DS1 Line-No24 (01110000); DS1L25: DS1 Line-No25 (01110010); DS1L26: DS1 Line-No26 (01110100); DS1L27: DS1 Line-No27 (01110110); DS1L28: DS1 Line-No28 (01111000); DS1LALL: DS1 Line-All (00100110)
Example(s)	SOUR:DATA:TEL:DSN:FEAC:LOOP:CHAN:COD DS3L
	SOUR:DATA:TEL:DSN:FEAC:LOOP:CHAN:COD?
	Returns: DS3L
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:CODeword
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:AMOunt
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:INJect

:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:AMOunt

Description	This command sets the amount of control codeword for Loopback commands.
	At *RST condition, this value is set to 10.
	Navigation Path: Functions > FEAC > Generated Messages > Loopback Commands > Control > Amount
Syntax	:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount of control codeword for Loopback commands.
	Choices are 1 through 15.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
Response Syntax	<Codeword>
Example(s)	SOUR:DATA:TEL:DSN:FEAC:LOOP:CONT:AMO 10
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:CODEword
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:AMOunt?
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:INJect

:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:AMOunt?

Description	This query returns the amount of control codeword for Loopback commands.
	At *RST condition, this value is set to 10.
	Navigation Path: Functions > FEAC > Generated Messages > Loopback Commands > Control > Amount
Syntax	:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:AMOunt?[<wsp><Amount>]
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount of control codeword for Loopback commands.
Example(s)	SOUR:DATA:TEL:DSN:FEAC:LOOP:CONT:COD LLAC
	SOUR:DATA:TEL:DSN:FEAC:LOOP:CONT:AMO 10
	SOUR:DATA:TEL:DSN:FEAC:LOOP:CONT:AMO?
	Returns: 10
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:CODEword
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:AMOunt
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:INJect

:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:CODeword

Description	This command selects the control codeword for Loopback commands.
	At *RST condition, this value is set to LLACtivate.
	Navigation Path: Functions > FEAC > Generated Messages > Loopback Commands > Control > Codeword
Syntax	:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:CODeword <wsp><Codeword>
Parameter(s)	**Codeword**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the control codeword for loopback commands.
	LLACtivate: Line Loopback Activate (00001110)
	LLDeactivate: Line Loopback Deactivate (00111000)
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:DSN:FEAC:LOOP:CONT:COD LLACTIVATE
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:CODeword?
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:AMOunt
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:INJect

:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:CODeword?

Description	This query returns the control codeword for Loopback commands.
	At *RST condition, this value is set to LLACtivate.
	Navigation Path: Functions > FEAC > Generated Messages > Loopback Commands > Control > Codeword
Syntax	:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:CODeword?
Response Syntax	<Codeword>
Response(s)	**Codeword**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the control codeword for loopback commands.
	LLACTIVATE, Line Loopback Activate (00001110) is selected as control codeword.
	LLDEACTIVATE, Line Loopback Deactivate (00111000) is selected as control codeword.
Example(s)	SOUR:DATA:TEL:DSN:FEAC:LOOP:CONT:COD LLACTIVATE
	SOUR:DATA:TEL:DSN:FEAC:LOOP:CONT:COD?
	Returns: LLACTIVATE
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:CODeword
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CONTrol:AMOunt
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:INJect

:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:INJect

Description	This command injects the Loopback commands.
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Functions > FEAC > Generated Messages > Loopback Commands > Channel > Inject
Syntax	:SOURce:DATA:TELecom:DSN:FEAC:LOOPback:INJect
Response Syntax	<Codeword>
Example(s)	SOUR:DATA:TEL:DSN:FEAC:LOOP:CHAN:COD DS3L2
	SOUR:DATA:TEL:DSN:FEAC:LOOP:CHAN:AMO 10
	SOUR:DATA:TEL:DSN:FEAC:LOOP:INJ
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:CODEword
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:AMOunt

:SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOunt

Description	This command sets the amount for Alarm/Status Unassigned Messages.
	At *RST condition, this value is set to 10.
	Navigation Path: Functions > FEAC > Generated Messages > Alarm/Status and Unassigned > Mode(Manual) > Amount
Syntax	:SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount for Alarm/Status Unassigned Messages.
	Choices are 1 through 15.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
	Choices are 1 through 15.
Response Syntax	<Codeword>
Example(s)	SOUR:DATA:TEL:DSN:FEAC:MAN:AMO 10
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:MANual:CODEword
	SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOunt?
	SOURce:DATA:TELecom:DSN:FEAC:MANual:INJect

:SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOunt?

Description	This query returns the amount for Alarm/Status Unassigned Messages.
	At *RST condition, this value is set to 10.
	Navigation Path: Functions > FEAC > Generated Messages > Alarm/Status and Unassigned > Mode(Manual) > Amount
Syntax	:SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOunt?[<wsp><Amount>]
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount for Alarm/Status Unassigned Messages.
Example(s)	SOUR:DATA:TEL:DSN:FEAC:MAN:AMO 10
	SOUR:DATA:TEL:DSN:FEAC:MAN:AMO?
	Returns: 10
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:MANual:CODEword
	SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOunt
	SOURce:DATA:TELecom:DSN:FEAC:MANual:INJect

:SOURce:DATA:TELecom:DSN:FEAC:MANual:INJect

Description	This command injects the Alarm/Status Unassigned Messages.
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Functions > FEAC > Generated Messages > Alarm/Status and Unassigned > Mode(Manual) > Inject
Syntax	:SOURce:DATA:TELecom:DSN:FEAC:MANual:INJect
Response Syntax	<Amount>
Example(s)	SOUR:DATA:TEL:DSN:FEAC:MAN:INJ
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:MANual:CODEword
	SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOunt

FDL - Bit-Oriented Message

:FETCh:DATA:TELecom:DSN:FDL:PRIority:MESSage?

Description	This query returns the Alarm/Status Unassigned Messages.
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > FDL > Bit-Oriented Message > Received Messages > Priority > Current/Previous
Syntax	:FETCh:DATA:TELecom:DSN:FDL:PRIority:MESSage? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Alarm/Status Unassigned Messages.
	CURRent: Alarm/Status Unassigned Messages for Current state.
	PREVious: Alarm/Status Unassigned Messages for Previous state.
Response Syntax	<Message>
Response(s)	**Message**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the Alarm/Status Unassigned Messages.
Example(s)	FETC:DATA:TEL:DSN:FDL:PRI:MESS? CURRENT
See Also	FETCh:DATA:TEL:SON:SECTion:PM:STAT?

:FETCh:DATA:TELecom:DSN:FDL:RESPonse:CONTrol?

Description	This query returns the control Loopback commands for Current or Previous state.
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > FDL > Bit-Oriented Message > Received Messages > Response > Current/Previous
Syntax	:FETCh:DATA:TELecom:DSN:FDL:RESPonse:CONTrol? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Alarm/Status Unassigned Messages.
	CURRent: Alarm/Status Unassigned Messages for Current state.
	PREVious: Alarm/Status Unassigned Messages for Previous state.
Response Syntax	<Command>
Response(s)	**Command**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the control loopback commands for Current or Previous state.
Example(s)	FETC:DATA:TEL:DSN:FDL:RESP:CONT? CURRENT
See Also	FETCh:DATA:TELecom:DSN:FEAC:CHANnel?

:SOURce:DATA:TELecom:DSN:FDL:MANual:INJect

Description	This command sets the manual codeword
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Functions > FDL > Bit-Oriented Message > Generated Messages > Priority > Inject
Syntax	:SOURce:DATA:TELecom:DSN:FDL:MANual:INJect <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the manual codeword Injection
	ON, enables the manual codeword Injection
	OFF, disables the manual codeword Injection
Response Syntax	<Command>
Example(s)	SOUR:DATA:TEL:DSN:FDL:MAN:INJ ON
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:MANual:CODEword
	SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOunt

:SOURce:DATA:TELecom:DSN:FDL:MANual:INJect?

Description	This query returns the status of manual codeword Injection
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Functions > FDL > Bit-Oriented Message > Generated Messages > Priority > Inject
Syntax	:SOURce:DATA:TELecom:DSN:FDL:MANual:INJect?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the Manual codeword Injection
	1, status of the Manual codeword Injection is enabled.
	0, status of the Manual codeword Injection is disabled.
Example(s)	SOUR:DATA:TEL:DSN:FDL:MAN:INJ ON
	SOUR:DATA:TEL:DSN:FDL:MAN:INJ? Returns: 1
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:MANual:CODEword
	SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOunt

:SOURce:DATA:TELecom:DSN:FDL:PRIority:CODeword

Description	This command selects the manual codeword for Alarm/Status Unassigned Messages.
	At *RST condition, this value is set to DS3IR.
	Navigation Path: Functions > FDL > Bit-Oriented Message > Generated Messages > Priority > Codeword
Syntax	:SOURce:DATA:TELecom:DSN:FDL:PRIority:CODeword <wsp><Codeword>
Parameter(s)	**Codeword**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the manual codeword.
	RAI
	RACI
	LOOPACK
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:DSN:FDL:PRI:COD RAI
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:MANual:CODeword?
	SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOunt
	SOURce:DATA:TELecom:DSN:FEAC:MANual:INJect

:SOURce:DATA:TELecom:DSN:FDL:PRIority:CODeword?

Description	This query returns the manual codeword for Alarm/Status Unassigned Messages.
	At *RST condition, this value is set to DS3IR.
	Navigation Path: Functions > FDL > Bit-Oriented Message > Generated Messages > Priority > Codeword
Syntax	:SOURce:DATA:TELecom:DSN:FDL:PRIority:CODeword?
Response Syntax	<Codeword>
Response(s)	**Codeword**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the manual codeword.
	RAI, RAI is selected as manual codeword.
	RACI, RACI is selected as manual codeword.
	LOOPACK,LOOPACK is selected as manual codeword.
Example(s)	SOUR:DATA:TEL:DSN:FDL:PRI:COD RAI
	SOUR:DATA:TEL:DSN:FDL:PRI:COD? Returns: RAI
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:MANual:CODeword
	SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOunt
	SOURce:DATA:TELecom:DSN:FEAC:MANual:INJect

:SOURce:DATA:TELecom:DSN:FDL:RESPonse:AMOunt

Description	This command sets the amount for Alarm/Status Unassigned Messages.
	At *RST condition, this value is set to 10.
	Navigation Path: Functions > FDL > Bit-Oriented Message > Generated Messages > Command/Response > Amount
Syntax	:SOURce:DATA:TELecom:DSN:FDL:RESPonse:AMOunt <wsp><Amount>
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the amount for Alarm/Status Unassigned Messages.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
	DEFault: Default value
	Choices are 1 through 15.
Response Syntax	<Codeword>
Example(s)	SOUR:DATA:TEL:DSN:FDL:RESP:AMO 10
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:MANual:CODEword
	SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOunt?
	SOURce:DATA:TELecom:DSN:FEAC:MANual:INJect

:SOURce:DATA:TELecom:DSN:FDL:RESPonse:AMOunt?

Description	This query returns the amount for Alarm/Status Unassigned Messages.
	At *RST condition, this value is set to 10.
	Navigation Path: Functions > FDL > Bit-Oriented Message > Generated Messages > Command/Response > Amount
Syntax	:SOURce:DATA:TELecom:DSN:FDL:RESPonse:AMOunt?[<wsp><Amount>]
Parameter(s)	**Amount**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current amount is returned.
	MAXimum: Biggest supported value.
	MINimum: Smallest supported value.
	DEFault: Default value.
Response Syntax	<Amount>
Response(s)	**Amount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the amount for Alarm/Status Unassigned Messages.
Example(s)	SOUR:DATA:TEL:DSN:FDL:RESP:AMO 10
	SOUR:DATA:TEL:DSN:FDL:RESP:AMO? Returns: 10
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:MANual:CODEword
	SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOunt
	SOURce:DATA:TELecom:DSN:FEAC:MANual:INJect

:SOURce:DATA:TELecom:DSN:FDL:RESPonse:CODeword

Description	This command selects the manual codeword Response for Alarm/Status Unassigned Messages.
	At *RST condition, this value is set to DS3IR.
	Navigation Path: Functions > FDL > Bit-Oriented Message > Generated Messages > Response > Codeword
Syntax	:SOURce:DATA:TELecom:DSN:FDL:RESPonse:CODeword <wsp><Codeword>

:SOURce:DATA:TELecom:DSN:FDL:RESPonse:CODeword

| **Parameter(s)** | **Codeword**:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the Response codeword.

CICSULILBCK: CiCsuLineLoopback.

DNTUSESYSC: DS3 Eqpt. Failure (SA) (00110010).

ISDNLILBCK: IsdnLineLoopback.

LILPBCKACT: LineLoopbackActivate.

LILBCKDEACT: LineLoopbackDeactivate.

NWLPBCKACT: NetworkLoobackActivate.

NT1PWOFF: Nt1PowerOff.

PAYLLPBCKACT: PayloadLoobackActivate.

PLLPBCKDEACT: PayloadLoopbackDeactivate.

PROTSWTCACK: ProtectionSwitchAcknowledge.

PROTSWLI1: ProtectionSwitchLine1.

PROTSWLI2, PROTSWLI3, PROTSWLI4, PROTSWLI5, PROTSWLI6, PROTSWLI7, PROTSWLI8, PROTSWLI9, PROTSWLI10, PROTSWLI11, PROTSWLI12, PROTSWLI13, PROTSWLI14, PROTSWLI15, PROTSWLI16, PROTSWLI17, PROTSWLI18, PROTSWLI19, PROTSWLI20, PROTSWLI21, PROTSWLI22, PROTSWLI23, PROTSWLI24, PROTSWLI25, PROTSWLI26, PROTSWLI27

PROTSWREL: ProtectionSwitchRelease.

ALLZ: ALLZeros as response code word.

RFCUST000001: ReservedForCustomer000001.

RFCUST000011: ReservedForCustomer000011.

RFCUST000101: ReservedForCustomer000101.

RFCUST011011: ReservedForCustomer011011.

RFNWUS001011: ReservedForNetworkUse001011.

RFNWUS001101: ReservedForNetworkUse001101.

RFNWUS001111: ReservedForNetworkUse001111.

RFNWUE011101: ReservedForNetworkUse011101.

:SOURce:DATA:TELecom:DSN:FDL:RESPonse:CODeword

Parameter(s)	RESNWSYNC: ReservedForNetworkSynchronization.
	SOTMINCLKTRA: SonetMinimumClockTraceabl.
	STRTRACE: StratumTraceable.
	STR2TRA: Stratum2Traceable.
	STR3ETRA: Stratum3ETraceable.
	STR4TRA: Stratum4Traceable.
	SYNCTRAUNKWN: SynchronizationTraceabilityUnknown.
	TMITNODECLK: TransmitNodeClock.
	UNANM011110: UnassignMessage011110.
	UNANM111101: UnassignMessage111101.
	UNANM111111: UnassignMessage111111.
	UNDRST010110: UnderStudyForMaintenance010110.
	UNDRST011010: UnderStudyForMaintenance011010.
	UNIVLBCKDEACT: UniversalLoopbackDeactivate.
Response Syntax	\<Amount\>
Example(s)	SOUR:DATA:TEL:DSN:FDL:RESP:COD CICSULILBCK
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:MANual:CODEword?
	SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOunt
	SOURce:DATA:TELecom:DSN:FEAC:MANual:INJect

:SOURce:DATA:TELecom:DSN:FDL:RESPonse:CODeword?

Description	This query returns the manual codeword Response for Alarm/Status Unassigned Messages.
	At *RST condition, this value is set to DS3IR.
	Navigation Path: Functions > FDL > Bit-Oriented Message > Generated Messages > Response > Codeword
Syntax	:SOURce:DATA:TELecom:DSN:FDL:RESPonse:CODeword?
Response Syntax	<Codeword>
Response(s)	**Codeword**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the response codeword.
Example(s)	SOUR:DATA:TEL:DSN:FDL:RESP:COD CICSULILBCK
	SOUR:DATA:TEL:DSN:FDL:RESP:COD? Returns: CICSULILBCK
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:MANual:CODeword
	SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOunt
	SOURce:DATA:TELecom:DSN:FEAC:MANual:INJect

:SOURce:DATA:TELecom:DSN:FDL:RESPonse:INJect

Description	This command sends manual command response of the Alarm/Status Unassigned Messages.
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Functions > FDL > Bit-Oriented Message > Generated Messages > Response > Inject
Syntax	:SOURce:DATA:TELecom:DSN:FDL:RESPonse:INJect
Response Syntax	<Codeword>
Example(s)	SOUR:DATA:TEL:DSN:FDL:RESP:INJ
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:MANual:CODEword
	SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOunt

FDL - Performance Report Message

:FETCh:DATA:TELecom:DSN:FDL:BITevents?

Description	This command Returns the value of PRM Bit Events
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Functions > FDL > Performance Report Message > Received Messages > PRM Bit Events
Syntax	:FETCh:DATA:TELecom:DSN:FDL:BITevents? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of PRM Bit event.
	G3: 5 < CRC Error Event <= 10
	LV: Line Code Violation Event <= 1
	G4: 10 < CRC Error Event <= 100
	U1: Under study for synchronization
	U2: Under study for synchronization
	G5: 100 < CRC Error Event <= 319
	SL: Controlled Slip Event <= 1
	G6: CRC Error Event >= 320
	FE: Frame Sync. Bit Error Event <= 1
	SE: Severely-Errored Framing Event <= 1
	LB: Payload Loopback Activated
	G1: CRC Error Event = 1
	R: Reserved
	G2: 1 < CRC Error Event <= 5
	Nm and Nl: One-second report modulo 4 counter.
Response Syntax	<Value>

:FETCh:DATA:TELecom:DSN:FDL:BITevents?

Response(s)	Value:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of PRM Bit Events
Example(s)	FETC:DATA:TEL:DSN:FDL:BIT? G1
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:CODEword
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:AMOunt

:FETCh:DATA:TELecom:DSN:FDL:CIRCuit?

Description	This query returns the Circuit value
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Functions > FDL > Performance Report Message > Received Messages > Circuit
Syntax	:FETCh:DATA:TELecom:DSN:FDL:CIRCuit?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the status of Received messages Circuit
Example(s)	FETC:DATA:TEL:DSN:FDL:CIRCuit?
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:CODEword
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:AMOunt

:FETCh:DATA:TELecom:DSN:FDL:EVENtcount?

Description	This query returns the value of event count
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > FDL > Performance Report Message > Generated Messages > Eventcount
Syntax	:FETCh:DATA:TELecom:DSN:FDL:EVENtcount?
Response Syntax	<Eventcount>
Response(s)	**Eventcount**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the status of event count
Example(s)	FETC:DATA:TEL:DSN:FDL:EVENtcount?
See Also	FETCh:DATA:TEL:SON:SECTion:PM:STAT?

:FETCh:DATA:TELecom:DSN:FDL:LINK?

Description	This query returns the activity for the No Activity (All 1's), Alarm/Status, Loopback and Unassigned parameters during the last second of measurement.
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > FDL > Performance Report Message > Received Messages > Link Activity
Syntax	:FETCh:DATA:TELecom:DSN:FDL:LINK? <wsp><Activity>
Parameter(s)	**Activity**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the activity for the following parameters during the last second of measurement.
	IDLE: IDLE
	PRIority: PRIORITY
	CR: CR
	UNASSIGNED: UNASsigned
	PRM: PRM
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the activity for the selected parameters during the last second of measurement.
	1, Selected parameter is present
	0, Selected parameter is present
Example(s)	FETC:DATA:TEL:DSN:FDL:LINK? PRM
See Also	FETCh:DATA:TEL:SON:SECTion:PM:STAT?

:FETCh:DATA:TELecom:DSN:FDL:REPortcont?

Description	This command injects the Report content
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Functions > FDL > Performance Report Message > Received Messages > Report Content > Performance Information
Syntax	:FETCh:DATA:TELecom:DSN:FDL:REPortcont? <wsp><Time Line>, <Type>
Parameter(s)	**Time Line**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Time Line for Performance Messages
	Each PRM is listed into four lines called Time:
	T0 represents valid PRM message received in the last second of measurement (bytes 5 and 6).
	T0_1 represents the message one PRM ago (bytes 7 and 8).
	T0_2 represents the message two PRM ago (bytes 9 and 10).
	T0_3 represents the message three PRM ago (bytes 11 and 12).
	Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of PRM Bit event.
	G1: CRC Error Event = 1
	G2: 1 < CRC Error Event <= 5
	G3: 5 < CRC Error Event <= 10
	G4: 10 < CRC Error Event <= 100
	G5: 100 < CRC Error Event <= 319
	G6: CRC Error Event >= 320
	SE: Severely-Errored Framing Event >= 1
	FE: Frame Sync. Bit Error Event >= 1
	LV: Line Code Violation Event >= 1
	SL: Controlled Slip Event >= 1
	LB: Payload Loopback Activated
	U1BIT: Under study for synchronization
	U2BIT: Under study for synchronization
	NM and NL: One-second report modulo 4 counter.
	R: Reserved

:FETCh:DATA:TELecom:DSN:FDL:REPortcont?

Response Syntax	<Value>
Response(s)	**Value**: The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element. Returns the status of Performace Messages
Example(s)	FETC:DATA:TEL:DSN:FDL:REP? T0,G2
See Also	SOURce:DATA:TELecom:DSN:FEAC SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:CODEword SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:AMOunt

:FETCh:DATA:TELecom:DSN:FDL:VALid:EVENtcount?

Description	This query returns the activity for the No Activity (All 1's), Alarm/Status, Loopback and Unassigned parameters during the last second of measurement.
	At *RST condition, this value is device dependent.
	Navigation Path: Functions > FDL > Performance Report Message > Received Messages > Valid Event Count
Syntax	:FETCh:DATA:TELecom:DSN:FDL:VALid:EVENtcount?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the valid eventcount
Example(s)	FETC:DATA:TEL:DSN:FDL:VALid:EVENtcount?
See Also	FETCh:DATA:TEL:SON:SECTion:PM:STAT?

:SOURce:DATA:TELecom:DSN:FDL:ANSI

Description	This command enables/disables the activation of ANSI TI.403
	At *RST condition, this value is set to OFF.
	Navigation Path: Functions > FDL > Performance Report Message > Generated Messages > ANSI TI.403
Syntax	:SOURce:DATA:TELecom:DSN:FDL:ANSI <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	ON, enables the activation of ANSI TI.403
	OFF, disables the activation of ANSI TI.403
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:DSN:FDL:ANSI ON
See Also	SOURce:DATA:TELecom:DS:ENABled?

:SOURce:DATA:TELecom:DSN:FDL:ANSI?

Description	This query returns status of ANSI TI.403
	At *RST condition, this value is set to OFF.
	Navigation Path: Functions > FDL > Performance Report Message > Generated Messages > ANSI TI.403
Syntax	:SOURce:DATA:TELecom:DSN:FDL:ANSI?
Response Syntax	\<Status\>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a \<BOOLEAN RESPONSE DATA\> element.
	Returns the of ANSI mode
Example(s)	SOUR:DATA:TEL:DSN:FDL:ANSI ON
	SOUR:DATA:TEL:DSN:FDL:ANSI?
	Returns: 1
See Also	SOURce:DATA:TELecom:DS:ENABled?

:SOURce:DATA:TELecom:DSN:FDL:BITevents:STATus

Description	This command sets the Bit event Status
	At *RST condition, this value is set to off.
	Navigation Path: Functions > FDL > Performance Report Message > Generated Messages > PRM Bit Events
Syntax	:SOURce:DATA:TELecom:DSN:FDL:BITevents:STATus <wsp><Type>, <Set>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of PRM Bit event.
	G3: 5 < CRC Error Event <= 10
	LV: Line Code Violation Event <= 1
	G4: 10 < CRC Error Event <= 100
	U1BIT: Under study for synchronization
	U2BIT: Under study for synchronization
	G5: 100 < CRC Error Event <= 319
	SL: Controlled Slip Event <= 1
	G6: CRC Error Event >= 320
	FE: Frame Sync. Bit Error Event <= 1
	SE: Severely-Errored Framing Event <= 1
	LB: Payload Loopback Activated
	G1: CRC Error Event = 1
	R: Reserved
	G2: 1 < CRC Error Event <= 5
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	ON, enables the activation of PRM Bit event.
	OFF, disables the activation of PRM Bit event.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:DSN:FDL:BIT:STAT G1,ON
See Also	SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE?

:SOURce:DATA:TELecom:DSN:FDL:BITevents:STATus?

Description	This query returns the Bit event Status
	At *RST condition, this value is set to AIS.
	Navigation Path: Functions > FDL > Performance Report Message > Generated Messages > PRM Bit Events
Syntax	:SOURce:DATA:TELecom:DSN:FDL:BITevents:STATus? <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of PRM Bit event.
	G3: 5 < CRC Error Event <= 10
	LV: Line Code Violation Event <= 1
	G4: 10 < CRC Error Event <= 100
	U1BIT: Under study for synchronization
	U2BIT: Under study for synchronization
	G5: 100 < CRC Error Event <= 319
	SL: Controlled Slip Event <= 1
	G6: CRC Error Event >= 320
	FE: Frame Sync. Bit Error Event <= 1
	SE: Severely-Errored Framing Event <= 1
	LB: Payload Loopback Activated
	G1: CRC Error Event = 1
	R: Reserved
	G2: 1 < CRC Error Event <= 5
	Nm and Nl: One-second report modulo 4 counter.
Response Syntax	<Set>

:SOURce:DATA:TELecom:DSN:FDL:BITevents:STATus?

Response(s)	Set:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of PRM Bit Events
Example(s)	SOUR:DATA:TEL:DSN:FDL:BIT:STAT G1,ON
	SOUR:DATA:TEL:DSN:FDL:BIT:STAT? G1
	Returns: 1
See Also	SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE

:SOURce:DATA:TELecom:DSN:FDL:CHANnel:TYPE

Description	This command selects the type of Circuit.
	At *RST condition, this value is set to CITONETWORK.
	Navigation Path: Functions > FDL > Performance Report Message > Generated Messages > Circuit
Syntax	:SOURce:DATA:TELecom:DSN:FDL:CHANnel:TYPE <wsp><Type>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the type of FDL Channel Type.
	CITONETWORK: CI To Network
	NETWORKTOCI: Network To CI
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:DSN:FDL:CHAN:TYPE NETWORKTOCI
See Also	SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE?

:SOURce:DATA:TELecom:DSN:FDL:CHANnel:TYPE?

Description	This query returns the type of Circuit.
	At *RST condition, this value is set to CITONETWORK.
	Navigation Path: Functions > FDL > Performance Report Message > Generated Messages > Circuit
Syntax	:SOURce:DATA:TELecom:DSN:FDL:CHANnel:TYPE?
Response Syntax	<Alarm>
Response(s)	**Alarm**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the type of Digital Signal-level 1(DS1)/Digital Signal-level 3 (DS3) alarm.
	AIS, Alarm Indication Signal (AIS) is selected as Digital Signal-level 1(DS1)/Digital Signal-level 3 (DS3) alarm.
	RAI, Remote Alarm Indicates (RAI) is selected as Digital Signal-level 1(DS1) alarm.
	OOF, Out of Frame (OOF) is selected as Digital Signal-level 1(DS1)/Digital Signal-level 3 (DS3) alarm.
	RDI1, Remote Defect Indicator (RDI) is selected as Digital Signal-level 3 (DS3) alarm.
	IDLE1, IDLE is selected as Digital Signal-level 3 (DS3) alarm.
Example(s)	SOUR:DATA:TEL:DSN:FDL:CHAN:TYPE NETWORKTOCI
	SOUR:DATA:TEL:DSN:FDL:CHAN:TYPE? Returns: NETWORKTOCI
See Also	SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE

:SOURce:DATA:TELecom:DSN:FDL:INJect

Description	This command injects the FDL Circuit
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Functions > FDL > Performance Report Message > Generated Messages > Mode(Single) > Inject
Syntax	:SOURce:DATA:TELecom:DSN:FDL:INJect
Response Syntax	<Alarm>
Example(s)	SOUR:DATA:TEL:DSN:FDL:INJ
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:CODEword
	SOURce:DATA:TELecom:DSN:FEAC:LOOPback:CHANnel:AMOunt

:SOURce:DATA:TELecom:DSN:FDL:MODE

Description	This command selects the type of Mode.
	At *RST condition, this value is set to AIS.
	Navigation Path: Functions > FDL > Performance Report Message > Generated Messages > Mode(Continous) > Inject
Syntax	:SOURce:DATA:TELecom:DSN:FDL:MODE <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	enables/disables the activation of ANSI TI.403,
	ON,Enables the activation of Continous injection
	OFF, Enables the activation of Continous injection
Response Syntax	<Alarm>
Example(s)	SOUR:DATA:TEL:DSN:FDL:MODE ON
See Also	SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE?

:SOURce:DATA:TELecom:DSN:FDL:MODE?

Description	This query returns the type of Mode.
	At *RST condition, this value is set to AIS.
	Navigation Path: Functions > FDL > Performance Report Message > Generated Messages > Mode(Continous) > Inject
Syntax	:SOURce:DATA:TELecom:DSN:FDL:MODE?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of Continous mode Injection
Example(s)	SOUR:DATA:TEL:DSN:FDL:MODE ON
	SOUR:DATA:TEL:DSN:FDL:MODE?
	Returns: 1
See Also	SOURce:DATA:TELecom:DSN:ALARm:DS[1..n]:TYPE?

Pointer Adjustment

:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:DECRement: COUNt?

Description	This query returns the counts in which negative pointer adjustment is detected for High Order Path (HOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > Ptr.Decr. Count
Syntax	:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:DECRement:COUNt?
Response Syntax	\<Count\>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a \<NR2 NUMERIC RESPONSE DATA\> element.
	Returns the count of negative pointer adjustment detected.
Example(s)	FETC:DATA:TEL:SDHS:HOP:POIN:DECR:COUN?
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:DECRement

:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:DECRement: SEConds?

Description	This query returns the number of seconds in which negative pointer adjustment is detected for High Order Path (HOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > Ptr.Decr. Seconds
Syntax	:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:DECRement:SEConds?
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds of negative pointer adjustment detected.
Example(s)	FETC:DATA:TEL:SDHS:HOP:POIN:DECR:SEC?
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:DECRement

:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:INCRement:COUNt?

Description	This query returns the count in which positive pointer adjustment is detected for High Order Path (HOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > Ptr.Incr. Count
Syntax	:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:INCRement:COUNt?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of positive pointer adjustment detected.
Example(s)	FETC:DATA:TEL:SDHS:HOP:POIN:INCR:COUN?
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:INCRement

:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:INCRement:SEConds?

Description	This query returns the number of seconds in which positive pointer adjustment is detected for High Order Path (HOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > Ptr.Incr. Seconds
Syntax	:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:INCRement:SEConds?
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds of positive pointer adjustment detected.
Example(s)	FETC:DATA:TEL:SDHS:HOP:POIN:INCR:SEC?
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:INCRement

:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:NDF:COUNt?

Description	This query returns the count of New Data Flag (NDF). At *RST condition, this value is device dependent. Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > NDF Count
Syntax	:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:NDF:COUNt?
Response Syntax	<Count>
Response(s)	**Count**: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the number of counts of New Data Flag (NDF).
Example(s)	FETC:DATA:TEL:SDHS:HOP:POIN:NDF:COUN?
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:FLAG

:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:NDF:SEConds ?

Description	This query returns the number of seconds of New Data Flag (NDF) for High Order Path (HOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > NDF Seconds
Syntax	:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:NDF:SEConds?
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds of New Data Flag (NDF).
Example(s)	FETC:DATA:TEL:SDHS:HOP:POIN:NDF:SEC?
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:FLAG

:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:NNDF:COUNt?

Description	This query returns the count of No New Data Flag (NNDF).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > No NDF Count
Syntax	:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:NNDF:COUNt?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the number of counts of No New Data Flag (NNDF).
Example(s)	FETC:DATA:TEL:SDHS:HOP:POIN:NNDF:COUN?
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:FLAG

:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:NNDF:SEConds?

Description	This query returns the number of seconds of No New Data Flag (NNDF) for High Order Path (HOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > No NDF Seconds
Syntax	:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:NNDF:SEConds?
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds of No New Data Flag (NNDF).
Example(s)	FETC:DATA:TEL:SDHS:HOP:POIN:NNDF:SEC?
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:FLAG

:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:OFFSet?

Description	This query returns the difference between the pointer increment and the pointer decrement for High Order Path (HOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > Cumulative Offset
Syntax	:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:OFFSet?
Response Syntax	<Offset>
Response(s)	**Offset**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the difference between the pointer increment and the pointer decrement.
Example(s)	FETC:DATA:TEL:SDHS:HOP:POIN:OFFS?
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:VALue

:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:VALue?

Description	This query returns the actual pointer value being transmitted for High Order Path (HOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > Pointer Value
Syntax	:FETCh:DATA:TELecom:SDHSonet:HOP:POINter:VALue?
Response Syntax	<Pointer>
Response(s)	**Pointer**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the actual pointer value being transmitted.
Example(s)	FETC:DATA:TEL:SDHS:HOP:POIN:VAL?
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:VALue

:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:DECRement:COUNt?

Description	This query returns the counts in which negative pointer adjustment is detected for Low Order Path (LOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > VT > Ptr.Decr. Count
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > TU > Ptr.Decr. Count
Syntax	:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:DECRement:COUNt?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of negative pointer adjustment detected.
Example(s)	FETC:DATA:TEL:SDHS:LOP:POIN:DECR:COUN?
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:DECRement

:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:DECRement:SEConds?

Description	This query returns the number of seconds in which negative pointer adjustment is detected for Low Order Path (LOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > VT > Ptr.Decr. Seconds
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > TU > Ptr.Decr. Seconds
Syntax	:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:DECRement:SEConds?
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds of negative pointer adjustment detected.
Example(s)	FETC:DATA:TEL:SDHS:LOP:POIN:DECR:SEC?
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:DECRement

:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:INCRement:COUNt?

Description	This query returns the count in which positive pointer adjustment is detected for Low Order Path (LOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > VT > Ptr.Incr. Count
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > TU > Ptr.Incr. Count
Syntax	:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:INCRement:COUNt?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the count of positive pointer adjustment detected.
Example(s)	FETC:DATA:TEL:SDHS:LOP:POIN:INCR:COUN?
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:INCRement

:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:INCRement:SEConds?

Description	This query returns the number of seconds in which positive pointer adjustment is detected for Low Order Path (LOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > VT > Ptr.Incr. Seconds
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > TU > Ptr.Incr. Seconds
Syntax	:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:INCRement:SEConds?
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds of positive pointer adjustment detected.
Example(s)	FETC:DATA:TEL:SDHS:LOP:POIN:INCR:SEC?
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:INCRement

:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:NDF:COUNt?

Description	This query returns the count of New Data Flag (NDF).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > VT > NDF Count
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > TU > NDF Count
Syntax	:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:NDF:COUNt?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the number of counts of New Data Flag (NDF).
Example(s)	FETC:DATA:TEL:SDHS:LOP:POIN:NDF:COUN?
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG

:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:NDF:SEConds ?

Description	This query returns the number of seconds of New Data Flag (NDF) for Low Order Path (LOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > VT > NDF Seconds
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > TU > NDF Seconds
Syntax	:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:NDF:SEConds?
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds of New Data Flag (NDF).
Example(s)	FETC:DATA:TEL:SDHS:LOP:POIN:NDF:SEC?
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG

:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:NNDF:COUNt ?

Description	This query returns the count of No New Data Flag (NNDF).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > VT > No NDF Count
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > TU > No NDF Count
Syntax	:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:NNDF:COUNt?
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the number of counts of No New Data Flag (NNDF).
Example(s)	FETC:DATA:TEL:SDHS:LOP:POIN:NNDF:COUN?
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG

:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:NNDF:SEConds?

Description	This query returns the number of seconds of No New Data Flag (NNDF) for Low Order Path (LOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > VT > No NDF Seconds
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > TU > No NDF Seconds
Syntax	:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:NNDF:SEConds?
Response Syntax	<Seconds>
Response(s)	**Seconds**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of seconds of No New Data Flag (NNDF).
Example(s)	FETC:DATA:TEL:SDHS:LOP:POIN:NNDF:SEC?
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG

:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:OFFSet?

Description	This query returns the difference between the pointer increment and the pointer decrement for Low Order Path (LOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > VT > Cumulative Offset
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > TU > Cumulative Offset
Syntax	:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:OFFSet?
Response Syntax	<Offset>
Response(s)	**Offset**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the difference between the pointer increment and the pointer decrement.
Example(s)	FETC:DATA:TEL:SDHS:LOP:POIN:OFFS?
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:VALue

:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:VALue?

Description	This query returns the actual pointer value being transmitted for Low Order Path (LOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > VT > Pointer Value
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > RX Pointer Adjustment > TU > Pointer Value
Syntax	:FETCh:DATA:TELecom:SDHSonet:LOP:POINter:VALue?
Response Syntax	<Pointer>
Response(s)	**Pointer**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the actual pointer value being transmitted.
Example(s)	FETC:DATA:TEL:SDHS:LOP:POIN:VAL?
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:VALue

:FETCh:DATA:TELecom:SDHSonet:SEQuence:POINter:STATus?

Description	This query returns the actual pointer status being transmitted for Low Order Path (LOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Status
Syntax	:FETCh:DATA:TELecom:SDHSonet:SEQuence:POINter:STATus?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the status of the sequence pointer.
	STATPNTR, sequence pointer status is disabled.
	SEQUENCE, sequence pointer status is enabled.
Example(s)	FETC:DATA:TEL:SDHS:SEQuence:POINter:STATus?
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:DECRement

:FETCh:DATA:TELecom:SDHSonet:SEQuence:POINter:VALue?

Description	This query returns the actual pointer value being transmitted for Low Order Path (LOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Pointer Value
Syntax	:FETCh:DATA:TELecom:SDHSonet:SEQuence:POINter:VALue?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the sequence pointer value.
Example(s)	FETC:DATA:TEL:SDHS:SEQuence:POINter:VALue?
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG

:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:DECRement

Description	This command selects the new decrement pointer value for High Order Path (HOP).
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Step > Decrement
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:DECRement
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SDHS:HOP:POIN:DECR:SIZE 15
	SOUR:DATA:TEL:SDHS:HOP:POIN:DECR
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:DECRement:SIZE

:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:DECRement:SIZE

Description	This command selects the number of negative pointer adjustment to include into the SONET or SDH for High Order Path (HOP).
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Step > Value
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:DECRement:SIZE <wsp><Size>
Parameter(s)	Size:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the pointer size between 1 through 1000.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SDHS:HOP:POIN:DECR:SIZE 15
	SOUR:DATA:TEL:SDHS:HOP:POIN:DECR:SIZE?
	Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:INCRement:SIZE?

:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:DECRement :SIZE?

Description	This query returns the selected number of negative pointer adjustment to include into the SONET or SDH for High Order Path (HOP).
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Step > Value
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:DECRement:SIZE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	This parameter is optional.If no token is specified, the current number of negative pointer is returned.
Response Syntax	<Size>
Response(s)	**Size**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the pointer size.
Example(s)	SOUR:DATA:TEL:SDHS:HOP:POIN:DECR:SIZE 15
	SOUR:DATA:TEL:SDHS:HOP:POIN:DECR:SIZE?
	Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:INCRement:SIZE

:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:INCRement

Description	This command selects the new increment pointer value for High Order Path (HOP).
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Step > Increment
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:INCRement
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:SDHS:HOP:POIN:INCR:SIZE 15
	SOUR:DATA:TEL:SDHS:HOP:POIN:INCR
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:INCRement:SIZE

:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:INCRement: SIZE

Description	This command selects the number of positive pointer adjustment to include into the SONET or SDH for High Order Path (HOP).
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Step > Value
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:INCRement:SIZE <wsp><Size>
Parameter(s)	Size:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the pointer size between 1 through 1000.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:SDHS:HOP:POIN:INCR:SIZE 15
	SOUR:DATA:TEL:SDHS:HOP:POIN:INCR:SIZE?
	Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:DECRement:SIZE?

:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:INCRement: SIZE?

Description	This query returns the selected number of positive pointer adjustment to include into the SONET or SDH for High Order Path (HOP).
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Step > Value
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:INCRement:SIZE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current number of positive pointer is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Size>
Response(s)	**Size**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the pointer size.
Example(s)	SOUR:DATA:TEL:SDHS:HOP:POIN:INCR:SIZE 15
	SOUR:DATA:TEL:SDHS:HOP:POIN:INCR:SIZE?
	Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:DECRement:SIZE

:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW

Description	This event sets the new pointer value for High Order Path (HOP).
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Jump > New Pointer > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:SDHS:HOP:POIN:NEW:VAL 15
	SOUR:DATA:TEL:SDHS:HOP:POIN:NEW
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:VALue

:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:FLAG

Description	This command selects the status of a new pointer data flag for High Order Path (HOP).
	At *RST condition, this value is set to NNDF.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Jump > New Data Flag
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:FLAG <wsp><Flag>
Parameter(s)	**Flag**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the new pointer data flag.
	NNDF: the NNDF (No New Data Flag).
	NDF: the NDF (New Data Flag).
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:SDHS:HOP:POIN:NEW:FLAG NNDF
	SOUR:DATA:TEL:SDHS:HOP:POIN:NEW:FLAG?
	Returns: NNDF
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:VALue?

:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:FLAG?

Description	This query returns the status of a new pointer data flag for High Order Path (HOP).
	At *RST condition, this value is set to NNDF.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Jump > New Data Flag
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:FLAG?
Response Syntax	<Flag>
Response(s)	**Flag**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the new pointer data flag.
	NNDF, No New Data Flag (NNDF) is selected.
	NDF, New Data Flag (NDF) is selected.
Example(s)	SOUR:DATA:TEL:SDHS:HOP:POIN:NEW:FLAG NNDF
	SOUR:DATA:TEL:SDHS:HOP:POIN:NEW:FLAG?
	Returns: NNDF
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:VALue

:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:VALue

Description	This command sets the new pointer value for SONET/SDH of High Order Path (HOP).
	At *RST condition, this value reverts the default value.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Jump > New Pointer
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:VALue <wsp><Value>
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the new pointer value between 0 through 782.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Flag>
Example(s)	SOUR:DATA:TEL:SDHS:HOP:POIN:NEW:VAL 15
	SOUR:DATA:TEL:SDHS:HOP:POIN:NEW:VAL?
	Returns: 15
See Also	SOURce:DATA:TEL:SDHSonet:HOP:POINter:NEW

:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:VALue ?

Description	This query returns the new pointer value for High Order Path (HOP).
	At *RST condition, this value reverts the default value.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Jump > New Pointer
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:VALue?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional.If no token is specified, the current value of new pointer is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the new pointer value.
Example(s)	SOUR:DATA:TEL:SDHS:HOP:POIN:NEW:VAL 15
	SOUR:DATA:TEL:SDHS:HOP:POIN:NEW:VAL?
	Returns: 15
See Also	SOURce:DATA:TEL:SDHSonet:HOP:POINter:NEW?

:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:VALue?

Description	This query returns the actual pointer value being transmitted into the SONET/SDH for High Order Path (HOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > OTN SONET/SDH BERT OR SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Step > Pointer Value
Syntax	:SOURce:DATA:TELecom:SDHSonet:HOP:POINter:VALue?
Response Syntax	<Size>
Response(s)	**Size**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the actual pointer value being transmitted.
Example(s)	SOUR:DATA:TEL:SDHS:HOP:POIN:VAL?
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:INCRement:SIZE?

:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:DECRement

Description	This command selects the new decrement pointer value for Low Order Path (LOP).
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > VT > Step > Decrement
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > TU > Step > Decrement
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:DECRement
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:SDHS:LOP:POIN:DECR:SIZE 15
	SOUR:DATA:TEL:SDHS:LOP:POIN:DECR
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:DECRement:SIZE

:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:DECRement:SIZE

Description	This command selects the number of negative pointer adjustment to include into the SONET or SDH for Low Order Path (LOP).
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > VT > Step > Value
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > TU > Step > Value
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:DECRement:SIZE <wsp><Size>
Parameter(s)	**Size**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the pointer size.
	Choices are 1 through 1000.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:SDHS:LOP:POIN:DECR:SIZE 15
	SOUR:DATA:TEL:SDHS:LOP:POIN:DECR:SIZE?
	Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:DECRement:SIZE?

:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:DECRement:SIZE?

Description	This query returns the selected number of negative pointer adjustment to include into the SONET or SDH for Low Order Path (LOP).
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > VT > Step > Value
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > TU > Step > Value
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:DECRement:SIZE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the value of pointer size is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Size>
Response(s)	**Size**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the pointer size.
Example(s)	SOUR:DATA:TEL:SDHS:LOP:POIN:DECR:SIZE 15
	SOUR:DATA:TEL:SDHS:LOP:POIN:DECR:SIZE?
	Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:DECRement:SIZE

:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:INCRement

Description	This command selects the new increment pointer value for Low Order Path (LOP).
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > VT > Step > Increment
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > TU > Step > Increment
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:INCRement
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:SDHS:LOP:POIN:INCR:SIZE 15
	SOUR:DATA:TEL:SDHS:LOP:POIN:INCR
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:INCRement:SIZE

:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:INCRement:SIZE

Description	This command selects the number of positive pointer adjustment to include into the SONET or SDH for Low Order Path (LOP).
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > VT > Step > Value
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > TU > Step > Value
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:INCRement:SIZE <wsp><Size>
Parameter(s)	**Size**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the pointer size.
	Choices are 1 through 1000.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:SDHS:LOP:POIN:INCR:SIZE 15
	SOUR:DATA:TEL:SDHS:LOP:POIN:INCR:SIZE?
	Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:INCRement:SIZE?

:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:INCRement: SIZE?

Description	This query returns the selected number of positive pointer adjustment to include into the SONET or SDH for Low Order Path (LOP).
	At *RST condition, this value is set to 1.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > VT > Step > Value
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > TU > Step > Value
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:INCRement:SIZE?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the value of pointer size is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Size>
Response(s)	**Size**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the pointer size.
Example(s)	SOUR:DATA:TEL:SDHS:LOP:POIN:INCR:SIZE 15
	SOUR:DATA:TEL:SDHS:LOP:POIN:INCR:SIZE?
	Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:INCRement:SIZE

:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW

Description	This event sets the new pointer value for Low Order Path (LOP).
	This command is an event and has no associated *RST condition or query form.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > VT > Jump > New Pointer > Inject
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > TU > Jump > New Pointer > Inject
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:SDHS:LOP:POIN:NEW:VAL 15
	SOUR:DATA:TEL:SDHS:LOP:POIN:NEW
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:VALue

:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG

Description	This command selects the status of a new pointer data flag for Low Order Path (LOP).
	At *RST condition, this value is set to NNDF.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > VT > Jump > New Data Flag
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > TU > Jump > New Data Flag
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG <wsp><Set>
Parameter(s)	**Set**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Enables/disables New Data Flag:
	NDF: Enables.
	NNDF: Disables.
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:SDHS:LOP:POIN:NEW:FLAG ON
	SOUR:DATA:TEL:SDHS:LOP:POIN:NEW:FLAG?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG?

:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG?

Description	This query returns the status of a new pointer data flag for Low Order Path (LOP).
	At *RST condition, this value is set to NNDF.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > VT > Jump > New Data Flag
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > TU > Jump > New Data Flag
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG?
Response Syntax	<Flag>
Response(s)	**Flag**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of LOP NEW FLAG
	1, New pointer status is enabled
	0, New pointer status is disabled
Example(s)	SOUR:DATA:TEL:SDHS:LOP:POIN:NEW:FLAG ON
	SOUR:DATA:TEL:SDHS:LOP:POIN:NEW:FLAG?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG

:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:VALue

Description	This command sets the new pointer value for SONET/SDH of Low Order Path (LOP).
	At *RST condition, this value reverts the default value.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > VT > Jump > New Pointer
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > TU > Jump > New Pointer
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:VALue <wsp><Value>
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the new pointer value.
	Choices are 0 through 103.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Flag>
Example(s)	SOUR:DATA:TEL:SDHS:LOP:POIN:NEW:VAL 15
	SOUR:DATA:TEL:SDHS:LOP:POIN:NEW:VAL?
	Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:VALue?

:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:VALue ?

Description	This query returns the new pointer value for Low Order Path (LOP).
	At *RST condition, this value reverts the default value.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > VT > Jump > New Pointer
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > TU > Jump > New Pointer
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:VALue?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the new pointer value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the new pointer value.
Example(s)	SOUR:DATA:TEL:SDHS:LOP:POIN:NEW:VAL 15
	SOUR:DATA:TEL:SDHS:LOP:POIN:NEW:VAL?
	Returns: 15
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:VALue

:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:VALue?

Description	This query returns the actual pointer value being transmitted into the SONET/SDH for Low Order Path (LOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > VT > Step > Pointer Value
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > TU > Step > Pointer Value
Syntax	:SOURce:DATA:TELecom:SDHSonet:LOP:POINter:VALue?
Response Syntax	<Size>
Response(s)	**Size**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the actual pointer value being transmitted.
Example(s)	SOUR:DATA:TEL:SDHS:LOP:POIN:VAL?
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:INCRement:SIZE?

:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter

Description	This command enables/disables the sequence pointer.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Sequence
Syntax	:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:SDHS:SEQuence:POINter ON
	SOUR:DATA:TEL:SDHS:SEQuence:POINter?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG

:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:INITcool:STATus

Description	This command sets the actual pointer init-cool status being transmitted for Low Order Path (LOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Init-Cool
Syntax	:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:INITcool:STATus <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Size>
Example(s)	SOUR:DATA:TEL:SDHS:SEQuence:POINter:INITcool:STATUS ON
	SOUR:DATA:TEL:SDHS:SEQuence:POINter:INITcool:STATUS?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:INCRement

:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:INITcool:STATus?

Description	This query returns the actual pointer init-cool status being transmitted for Low Order Path (LOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Init-Cool
Syntax	:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:INITcool:STATus?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the actual pointer init-cool status of Low Order Path (LOP) alarm generation.
	0, actual pointer init-cool status is enabled.
	1, actual pointer init-cool status is disabled.
Example(s)	SOUR:DATA:TEL:SDHS:SEQuence:POINter:INITcool:STATUS?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:DECRement

:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:PATTern

Description	This command sets the Pattern type for pointer adjustment to include into the SONET/SDH BERT.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Sequence
Syntax	:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:PATTern \<wsp>\<Standard>
Parameter(s)	**Standard**:
	The program data syntax for the first parameter is defined as a \<CHARACTER PROGRAM DATA> element.
	Selects the Pattern type for pointer adjustment.
	OPPOSITEPOLARITY: Single pointers of opposite polarity
	DOUBLEPOINTER: Regular pointers plus one double pointer
	MISPOINTER: Regular pointers with one missing pointer
	DOUBLEOPPOLARITY: Double pointers of opposite polarity
	SINGLEPA: Double pointers of opposite polarity
	BURSTPA: Burst pointer adjustment
	PHASETRANS: Phase transient
	PAPATTERN: Periodic pointer adjustment 87-3 pattern
	ADD87: Periodic 87-3 with Add
	CANCEL87: Periodic 87-3 with Cancel
	PACONTINIOUS: Periodic pointer adjustment continuous
	ADDPACONTINIOUS: Periodic pointer adjustment continuous with Add
	CANCELPACONTINIOUS: Periodic pointer adjustment continuous with Cancel
	PER261: Periodic pointer adjustment 26-1 pattern
	ADDPER261: Periodic 26-1 with Add
	CANCELPER261: Periodic 26-1 with Cancel
Response Syntax	\<Set>
Example(s)	SOUR:DATA:TEL:SDHS:SEQuence:POINter:PATTern PHASETRANS
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG?

:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:PATTern?

Description	This query returns the Pattern type for pointer adjustment to include into the SONET/SDH BERT.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Sequence
Syntax	:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:PATTern?
Response Syntax	<Pattern>

:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:PATTern?

Response(s)	**Pattern**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Pattern type for pointer adjustment.
	OPPOSITEPOLARITY, Single pointers of opposite polarity is selected.
	DOUBLEPOINTER, Regular pointers plus one double pointer is selected.
	MISPOINTER, Regular pointers with one missing pointer is selected.
	DOUBLEOPPOLARITY, Double pointers of opposite polarity is selected.
	SINGLEPA, Double pointers of opposite polarity is selected.
	BURSTPA, Burst pointer adjustment is selected.
	PHASETRANS, Phase transient is selected.
	PAPATTERN, Periodic pointer adjustment 87-3 pattern is selected.
	ADD87, Periodic 87-3 with Add is selected.
	CANCEL87, Periodic 87-3 with Cancel is selected.
	PACONTINIOUS, Periodic pointer adjustment continuous is selected.
	ADDPACONTINIOUS, Periodic pointer adjustment continuous with Add is selected.
	CANCELPACONTINIOUS, Periodic pointer adjustment continuous with Cancel is selected.
	PER261, Periodic pointer adjustment 26-1 pattern is selected.
	ADDPER261, Periodic 26-1 with Add is selected.
	CANCELPER261, Periodic 26-1 with Cancel is selected.
Example(s)	SOUR:DATA:TEL:SDHS:SEQuence:POINter:PATTern?
	Returns: PHASETRANS
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG

:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:PERiodic:STATus

Description	This command sets the actual pointer periodic status being transmitted for Low Order Path (LOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Periodic
Syntax	:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:PERiodic:STATus <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Pattern>
Example(s)	SOUR:DATA:TEL:SDHS:SEQuence:POINter:PERiodic:STATUS ON
	SOUR:DATA:TEL:SDHS:SEQuence:POINter:PERiodic:STATUS?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:INCRement

:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:PERiodic:STATus?

Description	This command sets the actual pointer init-cool status being transmitted for Low Order Path (LOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Periodic
Syntax	:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:PERiodic:STATus?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of actual pointer periodic status.
	0, actual pointer periodic status is enabled.
	1, actual pointer periodic status is disabled.
Example(s)	SOUR:DATA:TEL:SDHS:SEQuence:POINter:PERiodic:STATUS?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:DECRement

:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:TIMeline:VALUe

Description	This command sets the Timeline Value status being transmitted for Low Order Path (LOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > T1(s)
Syntax	:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:TIMeline:VALUe <wsp><Type>, <Size>
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Timeline value for pointer adjustment.
	T1: T1
	T2: T2
	T3: T3
	T4: T4
	T5: T5
	T6: T6
	Size:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the Timeline value being transmitted for Low Order Path (LOP).
	Choices are 10 through 30
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:SDHS:SEQuence:POINter:TIMeline:VALUe T1, 10
	SOUR:DATA:TEL:SDHS:SEQuence:POINter:TIMeline:VALUe? T1
	Returns: 10
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG

:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:TIMeline:VALUe?

Description	This query returns the Timeline Value status being transmitted for Low Order Path (LOP).
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > T1(s)
Syntax	:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:TIMeline:VALUe? <wsp><Type>,[<Value>]
Parameter(s)	**Type**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Timeline value for pointer adjustment.
	T1: T1
	T2: T2
	T3: T3
	T4: T4
	T5: T5
	T6: T6
	Value:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the Timeline value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the Timeline value being transmitted for Low Order Path (LOP).
Example(s)	SOUR:DATA:TEL:SDHS:SEQuence:POINter:TIMeline:VALue?
	Returns: 10
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG

:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:TYPE

Description	This command sets the Pointer type for pointer adjustment to include into the SONET/SDH BERT. At *RST condition, this value is device dependent. Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Sequence
Syntax	:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:TYPE <wsp><Type>
Parameter(s)	**Type**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. Selects the Pointer type for pointer adjustment. INCR DECR
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:SDHS:SEQuence:POINter:TYPE INCR
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:VALue

:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:TYPE?

Description	This query returns the Pointer type for pointer adjustment to include into the SONET/SDH BERT.
	At *RST condition, this value is device dependent.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Sequence
Syntax	:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter:TYPE?
Response Syntax	<Pointer>
Response(s)	**Pointer**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Pointer type for pointer adjustment.
	INCR, INCR is selected as Pointer type for pointer adjustment
	DECR, DECR is selected as Pointer type for pointer adjustment
Example(s)	SOUR:DATA:TEL:SDHS:SEQuence:POINter:TYPE?
	Returns: INCR
See Also	SOURce:DATA:TELecom:SDHSonet:HOP:POINter:NEW:VALue

:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter?

Description	This query returns the status of the sequence pointer.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Setup > SONET/SDH BERT > Functions > Pointer Adjustment > TX Pointer Adjustment > Sequence
Syntax	:SOURce:DATA:TELecom:SDHSonet:SEQuence:POINter?
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the sequence pointer.
	0, sequence pointer is enabled.
	1, sequence pointer is disabled.
Example(s)	SOUR:DATA:TEL:SDHS:SEQuence:POINter ON
	SOUR:DATA:TEL:SDHS:SEQuence:POINter?
	Returns: 1
See Also	SOURce:DATA:TELecom:SDHSonet:LOP:POINter:NEW:FLAG

Spare Bits

:FETCh:DATA:TELecom:PDH:E[1..n]:SPARbit:VALues?

Description	This query returns spare bit values.
	At *RST condition, this value is set to 10.
	Navigation Path: Functions > Spare Bits > RX
Syntax	:FETCh:DATA:TELecom:PDH:E[1..n]:SPARbit:VALues? <wsp><Bits>
Parameter(s)	**Bits**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Gets the Spare bit values.
	BITSI0: Bit S i0
	BITSA4: Bit S a4
	BITSA6: Bit S a6
	BITSA8: Bit S a8
	BITSI1: Bit S i1
	BITSA5: Bit S a5
	BITSA7: Bit S a7
	BITTS16: TS16 Frame 0 Bit 5, 7, 8
	BITTS16B6: TS16 Frame 0 Bit 6
	GBITE: G.742 for E2, G.751 for E3, G.751 for E4
Response Syntax	<Value>

:FETCh:DATA:TELecom:PDH:E[1..n]:SPARbit:VALues?

Response(s)	Value:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the spare bit values
Example(s)	FETC:DATA:TEL:PDH:E:SPAR:VAL? BITSI0
	Returns: 0
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:MANual:CODEword
	SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOunt?
	SOURce:DATA:TELecom:DSN:FEAC:MANual:INJect

:SOURce:DATA:TELecom:PDH:E[1..n]:SPARbit:VALues

Description	This command sets the protocol present in the signal structured
	At *RST condition, this value is set to 10.
	Navigation Path: Functions > Spare Bits > TX
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:SPARbit:VALues <wsp><Bits>, <Values>
Parameter(s)	**Bits**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Spare bit values.
	BITSI0: Bit S i0
	BITSA4: Bit S a4
	BITSA6: Bit S a6
	BITSA8: Bit S a8
	BITSI1: Bit S i1
	BITSA5: Bit S a5
	BITSA7: Bit S a7
	BITTS16: TS16 Frame 0 Bit 5, 7, 8
	BITTS16B6: TS16 Frame 0 Bit 6
	GBITE: G.742 for E2, G.751 for E3, G.751 for E4
	Values:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the values for spare bits.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:PDH:E:SPAR:VAL BITSI0, 0
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:MANual:CODEword
	SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOunt?
	SOURce:DATA:TELecom:DSN:FEAC:MANual:INJect

:SOURce:DATA:TELecom:PDH:E[1..n]:SPARbit:VALues?

Description	This query returns spare bit values.
	At *RST condition, this value is set to 10.
	Navigation Path: Functions > Spare Bits > TX
Syntax	:SOURce:DATA:TELecom:PDH:E[1..n]:SPARbit:VALues? <wsp><Bits>,[<Token>]
Parameter(s)	**Bits**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the Spare bit values.
	BITSI0: Bit S i0
	BITSA4: Bit S a4
	BITSA6: Bit S a6
	BITSA8: Bit S a8
	BITSI1: Bit S i1
	BITSA5: Bit S a5
	BITSA7: Bit S a7
	BITTS16: TS16 Frame 0 Bit 5, 7, 8
	BITTS16B6: TS16 Frame 0 Bit 6
	GBITE: G.742 for E2, G.751 for E3, G.751 for E4
	Token:
	The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Get the Spare bit values.
	MAX: Maximum Value
	MIN: Minimum Value
Response Syntax	<Value>

:SOURce:DATA:TELecom:PDH:E[1..n]:SPARbit:VALues?

Response(s)	Value:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the spare bit values
Example(s)	SOUR:DATA:TEL:PDH:E:SPAR:VAL BITSI0, 0
	SOUR:DATA:TEL:PDH:E:SPAR:VAL? BITSI0
	Returns: 0
See Also	SOURce:DATA:TELecom:DSN:FEAC
	SOURce:DATA:TELecom:DSN:FEAC:MANual:CODEword
	SOURce:DATA:TELecom:DSN:FEAC:MANual:AMOunt
	SOURce:DATA:TELecom:DSN:FEAC:MANual:INJect

40/100/400G Advanced - Lanes Mapping & Skew

:SENSe:DATA:TELecom:OTN:OTL:RX?

Description	This query returns the value of the received bits which depends on the selected link layer.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: OTN BERT Test > Functions > 40G Advanced > Lanes Mapping & Skew > Manual Skew RX
Syntax	:SENSe:DATA:TELecom:OTN:OTL:RX? <wsp><Physical Lane>, <Link Layer Type>
Parameter(s)	**Physical Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the physical lane skew. The range for the physical lane is from 0 to 19.
	Link Layer Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Link Layer Type.
	SKEW: SKEW
	LOGicallane: Logicallane
Response Syntax	<Llayer>
Response(s)	**Llayer**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the link layer virtual to physical lane skew for the receiver.
Example(s)	SENS:DATA:TEL:OTN:OTL:RX? 1, SKEW
See Also	SOURce:DATA:TELecom:OTN:OTL:TX?

:SOURce:DATA:TELecom:ETHernet:LLAYer:MAPPing:DEFault

Description	This command injects the default mapping for the link layer.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Default Mapping (dropdown)
Syntax	:SOURce:DATA:TELecom:ETHernet:LLAYer:MAPPing:DEFault
Response Syntax	<Llayer>
Example(s)	SOUR:DATA:TEL:ETH:LLAY:MAPP:DEF
See Also	SOURce:DATA:TELecom:ETHernet:LLAYer:MAPPing:MANual

:SOURce:DATA:TELecom:ETHernet:LLAYer:MAPPing:MANUal

Description	This command selects the Manual Mapping mode for the link layer.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Manual Mapping (dropdown)
Syntax	:SOURce:DATA:TELecom:ETHernet:LLAYer:MAPPing:MANUal
Response Syntax	\<Llayer\>
Example(s)	SOUR:DATA:TEL:ETH:LLAY:MAPP:MAN
See Also	SOURce:DATA:TELecom:ETHernet:LLAYer:MAPPing:RANDom

:SOURce:DATA:TELecom:ETHernet:LLAYer:MAPPing:RANDom

Description	This command injects the random mapping for the link layer.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Random Mapping (dropdown)
Syntax	:SOURce:DATA:TELecom:ETHernet:LLAYer:MAPPing:RANDom
Response Syntax	<Llayer>
Example(s)	SOUR:DATA:TEL:ETH:LLAY:MAPP:RAND
See Also	SOURce:DATA:TELecom:ETHernet:LLAYer:MAPPing:DEFault

:SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:RESet

Description	This command resets the SKEW (Bit Time) for the link layer.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Reset Skew (dropdown)
Syntax	:SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:RESet
Response Syntax	<Llayer>
Example(s)	SOUR:DATA:TEL:ETH:LLAY:SKEW:RES
See Also	SOURce:DATA:TELecom:ETHernet:LLAYer:MAPPing:DEFault

:SOURce:DATA:TELecom:OTN:OTL:MAPPing:DEFault

Description	This command injects the default mapping for the link layer.
	At *RST condition, this value is set to Default Mapping.
	Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Mapping
Syntax	:SOURce:DATA:TELecom:OTN:OTL:MAPPing:DEFault
Response Syntax	<Llayer>
Example(s)	SOUR:DATA:TEL:OTN:OTL:MAPP:DEF
See Also	SOURce:DATA:TELecom:OTN:OTL:MAPPing:RANDom

:SOURce:DATA:TELecom:OTN:OTL:MAPPing:MANual

Description	This command selects the Manual Mapping mode for link layer.
	At *RST condition, this value is set to Default Mapping.
	Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Mapping
Syntax	:SOURce:DATA:TELecom:OTN:OTL:MAPPing:MANual
Response Syntax	<Llayer>
Example(s)	SOUR:DATA:TEL:OTN:OTL:MAPP:MAN
See Also	SOURce:DATA:TELecom:OTN:OTL:MAPPing:RANDom

:SOURce:DATA:TELecom:OTN:OTL:MAPPing:RANDom

Description	This command injects the random mapping for the link layer.
	At *RST condition, this value is set to Default Mapping.
	Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Mapping
Syntax	:SOURce:DATA:TELecom:OTN:OTL:MAPPing:RANDom
Response Syntax	<Llayer>
Example(s)	SOUR:DATA:TEL:OTN:OTL:MAPP:RAND
See Also	SOURce:DATA:TELecom:OTN:OTL:MAPPing:MANual

:SOURce:DATA:TELecom:OTN:OTL:SKEW:RESet

Description	This command resets the SKEW (Bit Time) for the link layer.
	At *RST condition, this value is set to Reset Skew.
	Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Reset Skew (dropdown)
Syntax	:SOURce:DATA:TELecom:OTN:OTL:SKEW:RESet
Response Syntax	<Llayer>
Example(s)	SOUR:DATA:TEL:OTN:OTL:SKEW:RES
See Also	SOURce:DATA:TELecom:OTN:OTL:THReshold:DEFault

:SOURce:DATA:TELecom:OTN:OTL:THReshold

Description	This command sets the OTL Threshold Value.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: OTN BERT Test > Functions > 40G Advanced > Lanes Mapping & Skew > Skew Alarms Threshold
Syntax	:SOURce:DATA:TELecom:OTN:OTL:THReshold <wsp><Threshold>
Parameter(s)	**Threshold**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets Skew Threshold.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Llayer>
Example(s)	SOUR:DATA:TEL:OTN:OTL:THR 20
See Also	SOURce:DATA:TELecom:ETHernet:ALARm:THReshold
	SOURce:DATA:TELecom:ETHernet:ALARm:THReshold?

:SOURce:DATA:TELecom:OTN:OTL:THReshold:DEFault

Description	This command resets the OTL Threshold Value to its default value.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: OTN BERT Test > Functions > 40G Advanced > Lanes Mapping & Skew > Skew Alarms Threshold Default
Syntax	:SOURce:DATA:TELecom:OTN:OTL:THReshold:DEFault
Response Syntax	<Llayer>
Example(s)	SOUR:DATA:TEL:OTN:OTL:THR:DEF
See Also	SOURce:DATA:TELecom:OTN:OTL:SKEW:RESet

:SOURce:DATA:TELecom:OTN:OTL:THReshold?

Description	This query returns the Alarm Threshold Value for TX.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: OTN BERT Test > Functions > 40G Advanced > Lanes Mapping & Skew > Skew Alarms Threshold
Syntax	:SOURce:DATA:TELecom:OTN:OTL:THReshold?[<wsp><Threshold>]
Parameter(s)	**Threshold**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets Skew Threshold.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Skew Alarm Thershold>
Response(s)	**Skew Alarm Thershold**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Skew Threshold.
	MAXimum, indicates maximum as the Skew Threshold.
	MINimum, indicates minimum as the Skew Threshold.
Example(s)	SOUR:DATA:TEL:OTN:OTL:THR 20
	SOUR:DATA:TEL:OTN:OTL:THR?
	Returns: 20
See Also	SOURce:DATA:TELecom:ETHernet:ALARm:THReshold
	SOURce:DATA:TELecom:ETHernet:ALARm:THReshold?

40/100/400G Advanced - CFP4/CFP8/QSFP Control

:SENSe:DATA:TELecom:CFP:TX:STATus?

Description	This query returns the CFP TX status.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > 40/100/400G Advanced > CFP Control > CFP TX Status
Syntax	:SENSe:DATA:TELecom:CFP:TX:STATus? <wsp><Lane>
Parameter(s)	**Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane number.
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the status of the CFP TX pins.
	INLOC, indicates the optical lane is in LOC.
	NOTINLOC, indicates the optical lane is not in LOC.
Example(s)	SENS:DATA:TEL:CFP:TX:STAT? 1
See Also	SOURce:DATA:TELecom:CFP:STATus?

:SOURce:DATA:TELecom:CFP:CPWR?

Description	This query returns the Connector Power classes.
	At *RST condition, this value is set to setup-dependent.
	Navigation Path: Functions > 40/100/400G Advanced > CFP Control > Connector Power Class
Syntax	:SOURce:DATA:TELecom:CFP:CPWR?
Response Syntax	<Class>
Response(s)	**Class**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	This query returns the Connector Power Class.
	4_5W, 4.5W is selected as Connector Power Class for CFP4.
	3W, 3W is selected as Connector Power Class for CFP4.
	8W, 8W is selected as Connector Power Class for CFP4.
Example(s)	SOUR:DATA:TEL:CFP:CPWR?
See Also	SOURce:DATA:TELecom:CFP:CPWR?

:SOURce:DATA:TELecom:CFP:CSETting

Description	This command enables/disables Control settings for TX & RX IC RST, TX Disable, Module Low Power Mode, Module Reset, CFP Power Shutdown.
	At *RST condition, this value is set to OFF.
	Navigation Path: Functions > 40/100/400G Advanced > CFP Control > CFP Control Pins
Syntax	:SOURce:DATA:TELecom:CFP:CSETting <wsp><State>, <Set>
Parameter(s)	**State**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Control settings.
	TXRXRst: TX & RX IC RST.
	TXDis: TX Disable.
	MOLopwn: Module Low Power Mode.
	MODrst: Module Reset.
	CFPshutdown: CFP Power Shutdown.
	Set:
	The program data syntax for the second parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	enables/disables the selected control settings.
	ON, enables the selected control settings.
	OFF, disables the selected control settings.
Response Syntax	<Class>
Example(s)	SOUR:DATA:TEL:CFP:CSET CFP,ON
	SOUR:DATA:TEL:CFP:CSET? CFP
	Returns: 1
See Also	SOURce:DATA:TELecom:CFP:STATus?

:SOURce:DATA:TELecom:CFP:CSETting?

Description	This query returns the status of Control settings for TX & RX IC RST, TX Disable, Module Low Power Mode, Module Reset, CFP Power Shutdown.
	At *RST condition, this value is set to OFF.
	Navigation Path: Functions > 40/100/400G Advanced > CFP Control > CFP Control Pins
Syntax	:SOURce:DATA:TELecom:CFP:CSETting? <wsp><State>
Parameter(s)	**State**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Control settings.
	TXRXRst: TX & RX IC RST.
	TXDis: TX Disable.
	MOLopwn: Module Low Power Mode.
	MODrst: Module Reset.
	CFPshutdown: CFP Power Shutdown.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the state of selected control settings.
	TXRXRST, indicates the TX & RX IC RST.
	TXDIs, indicates the TX Disable.
	MOLopwn, indicates Module Low Power Mode.
	MODRst, indicates Module Reset.
	CFPShutdown, indicates CFP Power Shutdown.
Example(s)	SOUR:DATA:TEL:CFP:CSET MOD,ON
	SOUR:DATA:TEL:CFP:CSET? MOD
	Returns: 1
See Also	SOURce:DATA:TELecom:CFP:STATus?

:SOURce:DATA:TELecom:CFP:RCLock

Description	This command selects the reference clock value.
	At *RST condition, this value is set to setup-dependent.
	Navigation Path: Functions > 40/100/400G Advanced > CFP Control > CFP Reference Clock
Syntax	:SOURce:DATA:TELecom:CFP:RCLock <wsp><Clock>
Parameter(s)	**Clock**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the reference clock value.
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:CFP:RCL 161.1328
See Also	SOURce:DATA:TELecom:CFP:RCLock?

:SOURce:DATA:TELecom:CFP:RCLock?

Description	This query returns the reference clock value.
	At *RST condition, this value is set to setup-dependent.
	Navigation Path: Functions > 40/100/400G Advanced > CFP Control > CFP Reference Clock
Syntax	:SOURce:DATA:TELecom:CFP:RCLock?
Response Syntax	<clockValue>
Response(s)	**clockValue**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	This query returns the reference clock value.
Example(s)	SOUR:DATA:TEL:CFP:RCL?
See Also	SOURce:DATA:TELecom:CFP:RCLock

:SOURce:DATA:TELecom:CFP:STATus?

Description	This query returns the status of the CFP status pins.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > 40/100/400G Advanced > CFP Control > CFP Status Pins
Syntax	:SOURce:DATA:TELecom:CFP:STATus? <wsp><State>
Parameter(s)	**State**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Returns the status of CFP Status Pins.
	HPDstate: HI Power On.
	NREady: Module Ready.
	MFAult: Module Fault.
	MABsent: Module Absent.
	RXLoss: RX Loss of Signal.
	AACtive: Global Alarm.
Response Syntax	<Status>

:SOURce:DATA:TELecom:CFP:STATus?

Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the status of the CFP Status Pins.
	UP, indicates the HI power ON.
	DOWN, indicates the HI power OFF.
	READY, indicates the Module is ready.
	NOTREADY, indicates the Module is not ready.
	NFAULT, indicates the Module is not faulty.
	FAULT, indicates the Module is faulty.
	PRESENT, indicates the CFP Status Pins is present.
	ABSENT, indicates the CFP Status Pins is absent.
	OK, indicates the signal is OK.
	RXLOSS, indicates the loss of signal.
	ALARM, indicates the global alarm is present.
	NOALARM, indicates the global alarm is absent.
Example(s)	SOUR:DATA:TEL:CFP:STAT? HPD
See Also	SOURce:DATA:TELecom:CFP:CPRating
	SOURce:DATA:TELecom:CFP:CPRating?

:SOURce:DATA:TELecom:MDIO:ADDRess

Description	This command sets the address for MDIO/I2C.
	At *RST condition, this value is set to 0000.
	Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface
Syntax	:SOURce:DATA:TELecom:MDIO:ADDRess <wsp><Address>
Parameter(s)	**Address**:
	The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the MDIO/I2C address.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:MDIO:ADDR #H0005
	SOUR:DATA:TEL:MDIO:ADDR?
	Returns: 5
See Also	SOURce:DATA:TELecom:MDIO:DATA
	SOURce:DATA:TELecom:MDIO:DATA?

:SOURce:DATA:TELecom:MDIO:ADDRess?

Description	This query returns the address for MDIO/I2C.
	At *RST condition, this value is set to 0000.
	Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface
Syntax	:SOURce:DATA:TELecom:MDIO:ADDRess?
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the MDIO/I2C address.
Example(s)	SOUR:DATA:TEL:MDIO:ADDR #H0005
	SOUR:DATA:TEL:MDIO:ADDR?
	Returns: 5
See Also	SOURce:DATA:TELecom:MDIO:DATA
	SOURce:DATA:TELecom:MDIO:DATA?

:SOURce:DATA:TELecom:MDIO:DATA

Description	This command sets the data for MDIO/I2C.
	At *RST condition, this value is set to 0000.
	Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface
Syntax	:SOURce:DATA:TELecom:MDIO:DATA <wsp><Data>
Parameter(s)	**Data**:
	The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the data for MDIO/I2C.
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:MDIO:DATA #H0005
	SOUR:DATA:TEL:MDIO:DATA?
	Returns: 5
See Also	SOURce:DATA:TELecom:MDIO:ADDRess
	SOURce:DATA:TELecom:MDIO:ADDRess?

:SOURce:DATA:TELecom:MDIO:DATA?

Description	This query returns the data for MDIO/I2C .
	At *RST condition, this value is set to 0000.
	Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface
Syntax	:SOURce:DATA:TELecom:MDIO:DATA?
Response Syntax	<Data>
Response(s)	**Data**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the data for MDIO/I2C.
Example(s)	SOUR:DATA:TEL:MDIO:DATA #H0005
	SOUR:DATA:TEL:MDIO:DATA?
	Returns: 5
See Also	SOURce:DATA:TELecom:MDIO:ADDRess
	SOURce:DATA:TELecom:MDIO:ADDRess?

:SOURce:DATA:TELecom:MDIO:DEVice:ADDRess

Description	This command sets the Device address value of the SFP I2C Access Interface.
	At *RST condition, this value is set to _0XA0.
	Navigation Path: Functions > <rate> Advanced > SFP Control > I2C Access Interface > Device Address
Syntax	:SOURce:DATA:TELecom:MDIO:DEVice:ADDRess <wsp><Device Address>
Parameter(s)	**Device Address**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	_0XA0: _0XA0
	_0XA2: _0XA2
Response Syntax	<Data>
Example(s)	SOUR:DATA:TEL:MDIO:DEV:ADDR _0XA0
	SOUR:DATA:TEL:MDIO:DEV:ADDR?
	Returns: _0XA0
See Also	SOURce:DATA:TELecom:MDIO:PGSelect?

:SOURce:DATA:TELecom:MDIO:DEVice:ADDRess?

Description	This query returns the Device Address value of the SFP I2C Access Interface.
	At *RST condition, this value is set to _0XA0.
	Navigation Path: Functions > <rate> Advanced > SFP Control > I2C Access Interface > Device Address
Syntax	:SOURce:DATA:TELecom:MDIO:DEVice:ADDRess?
Response Syntax	<Device Address>
Response(s)	**Device Address**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the Device Address
	_0XA0: 0xA0
	_0XA2: 0xA2
Example(s)	SOUR:DATA:TEL:MDIO:DEV:ADDR _0XA0
	SOUR:DATA:TEL:MDIO:DEV:ADDR?
	Returns: _0XA0
See Also	SOURce:DATA:TELecom:MDIO:BULK:WRITe:PGSelect?

:SOURce:DATA:TELecom:MDIO:END:ADDRess

Description	This command sets the end address for MDIO/I2C .
	At *RST condition, this value is set to 0000.
	Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface
Syntax	:SOURce:DATA:TELecom:MDIO:END:ADDRess[<wsp><EndAddress>]
Parameter(s)	**EndAddress**:
	The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the MDIO/I2C end address.
Response Syntax	<Device Address>
Example(s)	SOUR:DATA:TEL:MDIO:END:ADDR #H0005
	SOUR:DATA:TEL:MDIO:END:ADDR?
	Returns: 5
See Also	SOURce:DATA:TELecom:MDIO:STARt:ADDRess
	SOURce:DATA:TELecom:MDIO:STARt:ADDRess?

:SOURce:DATA:TELecom:MDIO:END:ADDRess?

Description	This query returns the end address for MDIO/I2C .
	At *RST condition, this value is set to 0000.
	Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface
Syntax	:SOURce:DATA:TELecom:MDIO:END:ADDRess?
Response Syntax	<EndAddress>
Response(s)	**EndAddress**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the MDIO/I2C end address.
Example(s)	SOUR:DATA:TEL:MDIO:END:ADDR #H0005
	SOUR:DATA:TEL:MDIO:END:ADDR?
	Returns: 5
See Also	SOURce:DATA:TELecom:MDIO:STARt:ADDRess
	SOURce:DATA:TELecom:MDIO:STARt:ADDRess?

:SOURce:DATA:TELecom:MDIO:PGSelect

Description	This command sets the Page Select value of the QSFP I2C Access Interface.
	At *RST condition, this value is set to 0000.
	Navigation Path: Functions > <rate> Advanced > QSFP Control > MDIO Access Interface > Bulk Read > MDIO Access
Syntax	:SOURce:DATA:TELecom:MDIO:PGSelect <wsp><Page Select>
Parameter(s)	**Page Select**:
	The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Set Page Selected
Response Syntax	<EndAddress>
Example(s)	SOUR:DATA:TEL:MDIO:PGS 2
	SOUR:DATA:TEL:MDIO:PGS?
	Returns 2
See Also	SOURce:DATA:TELecom:MDIO:PGSelect?

:SOURce:DATA:TELecom:MDIO:PGSelect?

Description	This query returns the Page Select value of the QSFP I2C Access Interface.
	At *RST condition, this value is set to 0000.
	Navigation Path: Functions > <rate> Advanced > QSFP Control > MDIO Access Interface
Syntax	:SOURce:DATA:TELecom:MDIO:PGSelect?
Response Syntax	<Page Select>
Response(s)	**Page Select**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Page Selected.
Example(s)	SOUR:DATA:TEL:MDIO:PGS 2
	SOUR:DATA:TEL:MDIO:PGS?
	Returns 2
See Also	SOURce:DATA:TELecom:MDIO:PGSelect

:SOURce:DATA:TELecom:MDIO:READ

Description	This command reads the MDIO/I2C values.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface
Syntax	:SOURce:DATA:TELecom:MDIO:READ
Response Syntax	<Page Select>
Example(s)	SOUR:DATA:TEL:MDIO:READ
See Also	SOURce:DATA:TELecom:MDIO:WRITe

:SOURce:DATA:TELecom:MDIO:STARt:ADDRess

Description	This command sets the start address for MDIO/I2C .
	At *RST condition, this value is set to 0000.
	Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface
Syntax	:SOURce:DATA:TELecom:MDIO:STARt:ADDRess[<wsp><StartAddress>]
Parameter(s)	**StartAddress**:
	The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the MDIO/I2C start address.
Response Syntax	<Page Select>
Example(s)	SOUR:DATA:TEL:MDIO:STAR:ADDR #H0005
	SOUR:DATA:TEL:MDIO:STAR:ADDR?
	Returns: 5
See Also	SOURce:DATA:TELecom:MDIO:END:ADDRess
	SOURce:DATA:TELecom:MDIO:END:ADDRess?

:SOURce:DATA:TELecom:MDIO:STARt:ADDRess?

Description	This query returns the start address for MDIO/I2C.
	At *RST condition, this value is set to 0000.
	Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface
Syntax	:SOURce:DATA:TELecom:MDIO:STARt:ADDRess?
Response Syntax	<StartAddress>
Response(s)	**StartAddress**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the MDIO/I2C start address.
Example(s)	SOUR:DATA:TEL:MDIO:STAR:ADDR #H0005
	SOUR:DATA:TEL:MDIO:STAR:ADDR?
	Returns: 5
See Also	SOURce:DATA:TELecom:MDIO:END:ADDRess
	SOURce:DATA:TELecom:MDIO:END:ADDRess?

:SOURce:DATA:TELecom:MDIO:WRITe

Description	This command writes the MDIO/I2C values.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface
Syntax	:SOURce:DATA:TELecom:MDIO:WRITe
Response Syntax	<StartAddress>
Example(s)	SOUR:DATA:TEL:MDIO:WRIT
See Also	SOURce:DATA:TELecom:MDIO:READ

:SOURce:DATA:TELecom:OSFP:CPWR?

Description	This query returns the OSFP Power Class.
	At *RST condition, this value is set to 8W.
	Navigation Path: Functions > 400G Advanced > OSFP Control > OSFP Power Class
Syntax	:SOURce:DATA:TELecom:OSFP:CPWR?
Response Syntax	<Power class>
Response(s)	**Power class**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	This query returns the OSFP Power Class.
	1.5W,1.5W is selected as Connector Power class for OSFP .
	2W, 2W is selected as Connector Power class for OSFP .
	2.5W, 2.5W is selected as Connector Power class for OSFP .
	3.5W, 3.5W is selected as Connector Power class for OSFP .
	4W, 4W is selected as Connector Power class for OSFP .
	4.5W, 4.5W is selected as Connector Power class for OSFP .
	5W, 5W is selected as Connector Power class for OSFP .
Example(s)	SOUR:DATA:TEL:OSFP:CPWR?
See Also	SOURce:DATA:TELecom:QSFP:CPWR?

:SOURce:DATA:TELecom:OSFP:CSETting

Description	This query returns the status of Control Pin settings for Module Low Power Mode, Module Reset, OSFP Power Shutdown.
	At *RST condition, this value is set to OFF.
	Navigation Path: Functions > 400G Advanced > OSFP Control > OSFP Control Pins
Syntax	:SOURce:DATA:TELecom:OSFP:CSETting <wsp><State>, <Status>
Parameter(s)	**State**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Control settings.
	MOLopwn: Module Low Power Mode.
	MODrst: Module Reset.
	OSFPshutdown: OSFP Power Shutdown.
	Status:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Power class>
Example(s)	SOUR:DATA:TEL:OSFP:CSET OSFP,ON
	SOUR:DATA:TEL:OSFP:CSET? OSFP
	Returns: 1
See Also	SOURce:DATA:TELecom:OSFP:STATus?

:SOURce:DATA:TELecom:OSFP:CSETting?

Description	This query returns the status of Control Pin settings for Module Low Power Mode, Module Reset, OSFP Power Shutdown.
	At *RST condition, this value is set to OFF.
	Navigation Path: Functions > 400G Advanced > OSFP Control > OSFP Control Pins
Syntax	:SOURce:DATA:TELecom:OSFP:CSETting? <wsp><State>
Parameter(s)	**State**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Control settings.
	MOLopwn: Module Low Power Mode.
	MODrst: Module Reset.
	OSFPshutdown: OSFP Power Shutdown.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the state of selected control settings.
	MOLopwn, indicates Module Low Power Mode.
	MODRst, indicates Module Reset.
	OSFPshutdown, indicates OSFP Power Shutdown.
Example(s)	SOUR:DATA:TEL:OSFP:CSET OSFP,ON
	SOUR:DATA:TEL:OSFP:CSET? OSFP
	Returns: 1
See Also	SOURce:DATA:TELecom:OSFP:STATus?

:SOURce:DATA:TELecom:OSFP:STATus?

Description	This query returns the status of the OSFP status pins.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > 400G Advanced > OSFP Control > OSFP Status Pins
Syntax	:SOURce:DATA:TELecom:OSFP:STATus? <wsp><State>
Parameter(s)	**State**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Returns the status of OSFP Status Pins.
	MABsent: Module Absent.
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the status of the OSFP Status Pins.
	PRESENT, indicates the OSFP Status Pins is present.
	ABSENT, indicates the OSFP Status Pins is absent.
Example(s)	SOUR:DATA:TEL:OSFP:STAT? MAB
See Also	SOURce:DATA:TELecom:OSFP:STATus?

:SOURce:DATA:TELecom:QSFP:CPWR?

Description	This query returns the QSFP Power Class.
	At *RST condition, this value is set to 8W.
	Navigation Path: Functions > <rate> Advanced > QSFP Control > QSFP Power Class
Syntax	:SOURce:DATA:TELecom:QSFP:CPWR?
Response Syntax	<Power class>
Response(s)	**Power class**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	This query returns the QSFP Power Class.
	1.5W,1.5W is selected as Connector Power class for QSFP.
	2W, 2W is selected as Connector Power class for QSFP.
	2.5W, 2.5W is selected as Connector Power class for QSFP.
	3.5W, 3.5W is selected as Connector Power class for QSFP.
	4W, 4W is selected as Connector Power class for QSFP.
	4.5W, 4.5W is selected as Connector Power class for QSFP.
	5W, 5W is selected as Connector Power class for QSFP.
Example(s)	SOUR:DATA:TEL:QSFP:CPWR?
See Also	SOURce:DATA:TELecom:QSFP:CPWR?

:SOURce:DATA:TELecom:QSFP:CSETting

Description	This command enables/disables Control Pins for Module Low Power Mode, Module Reset, QSFP Power Shutdown.
	At *RST condition, this value is set to OFF.
	Navigation Path: Functions > <rate> Advanced > QSFP Control > QSFP Control Pins
Syntax	:SOURce:DATA:TELecom:QSFP:CSETting <wsp><State>, <Status>
Parameter(s)	**State**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Control settings.
	MOLopwn: Module Low Power Mode.
	MODrst: Module Reset.
	QSFPshutdown: QSFP Power Shutdown.
	Status:
	The program data syntax for the second parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Power class>
Example(s)	SOUR:DATA:TEL:QSFP:CSET QSFP,ON
	SOUR:DATA:TEL:QSFP:CSET? QSFP
	Returns: 1
See Also	SOURce:DATA:TELecom:QSFP:STATus?

:SOURce:DATA:TELecom:QSFP:CSETting?

Description	This query returns the status of Control Pin settings for Module Low Power Mode, Module Reset, QSFP Power Shutdown.
	At *RST condition, this value is set to OFF.
	Navigation Path: Functions > <rate> Advanced > QSFP Control > QSFP Control Pins
Syntax	:SOURce:DATA:TELecom:QSFP:CSETting? <wsp><State>
Parameter(s)	**State**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Control settings.
	MOLopwn: Module Low Power Mode.
	MODrst: Module Reset.
	QSFPshutdown: QSFP Power Shutdown.
Response Syntax	<Set>
Response(s)	**Set**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the state of selected control settings.
	MOLopwn, indicates Module Low Power Mode.
	MODRst, indicates Module Reset.
	QSFPshutdown, indicates QSFP Power Shutdown.
Example(s)	SOUR:DATA:TEL:QSFP:CSET QSFP,ON
	SOUR:DATA:TEL:QSFP:CSET? QSFP
	Returns: 1
See Also	SOURce:DATA:TELecom:QSFP:STATus?

:SOURce:DATA:TELecom:QSFP:STATus?

Description	This query returns the status of the QSFP status pins.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > <rate> Advanced > QSFP Control > QSFP Status Pins
Syntax	:SOURce:DATA:TELecom:QSFP:STATus? <wsp><State>
Parameter(s)	**State**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Returns the status of QSFP Status Pins.
	MABsent: Module Absent.
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <CHARACTER RESPONSE DATA> element.
	Returns the status of the QSFP Status Pins.
	PRESENT, indicates the QSFP Status Pins is present.
	ABSENT, indicates the QSFP Status Pins is absent.
Example(s)	SOUR:DATA:TEL:QSFP:STAT? MAB
See Also	SOURce:DATA:TELecom:QSFP:STATus?

Default/Random/Manual Mapping

:SENSe:DATA:TELecom:ETHernet:LLAyer:RX?

Description	This query returns the RX Lane.
	At *RST condition, this value is set to 0.
	Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Manual Skew TX
Syntax	:SENSe:DATA:TELecom:ETHernet:LLAyer:RX? <wsp><Physical Lane>, <Link Layer Type>
Parameter(s)	**Physical Lane**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the physical lane skew. The range for the physical lane is from 0 to 19.
	The Lane number used for the skew is a logical lane number. The Lane number used for PCS is a physical lane number.
	Link Layer Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Link Layer Type.
	SKEW: SKEW
	PCS: PCS
Response Syntax	<Llayer>
Response(s)	**Llayer**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the link layer virtual to physical lane skew for the receiver.
Example(s)	SENS:DATA:TEL:ETH:LLAY:RX? 8,PCS
See Also	SENSe:DATA:TELecom:ETHernet:WIS:TRACe?

:SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane

Description	This command sets the applied change(s) to all PCS/Logical Lane at once.
	At *RST condition, this value is set to OFF.
	Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Manual Skew TX > All Lanes
Syntax	:SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Selects All lanes.
	ON, enables All lanes.
	OFF, disables All lanes.
Response Syntax	<Llayer>
Example(s)	SOUR:DATA:TEL:ETH:LLAY:SKEW:ALLL OFF
	SOUR:DATA:TEL:ETH:LLAY:SKEW:ALLL?
	Returns: 0
See Also	SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane:TX

:SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane:TX

Description	This command sets the value for all PCS/Logical Lane when the All Lanes check box is selected.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Manual Skew TX > All
Syntax	:SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane:TX <wsp><SKEW>
Parameter(s)	SKEW:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the skew for all.
Response Syntax	<Llayer>
Example(s)	SOUR:DATA:TEL:ETH:LLAY:SKEW:ALLL:TX 50
	SOUR:DATA:TEL:ETH:LLAY:SKEW:ALLL:TX?
	Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane

:SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane:TX?

Description	This query returns the value for all PCS/Logical Lane when the All Lanes check box is selected.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Manual Skew TX > All
Syntax	:SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane:TX?
Response Syntax	<Skew>
Response(s)	**Skew**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the all lane Skew value.
Example(s)	SOUR:DATA:TEL:ETH:LLAY:SKEW:ALLL:TX 50
	SOUR:DATA:TEL:ETH:LLAY:SKEW:ALLL:TX?
	Returns: 50
See Also	SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane?

:SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane?

Description	This query returns the status of the applied change(s) to all PCS/Logical Lane.
	At *RST condition, this value is set to OFF.
	Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Manual Skew TX > All Lanes
Syntax	:SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of All lanes selection.
	1, All lane status enabled.
	0, All lane status disabled.
Example(s)	SOUR:DATA:TEL:ETH:LLAY:SKEW:ALLL ON
	SOUR:DATA:TEL:ETH:LLAY:SKEW:ALLL?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane:TX

:SOURce:DATA:TELecom:ETHernet:LLAYer:TX

Description	This command sets the TX Lane.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Manual Mapping
Syntax	:SOURce:DATA:TELecom:ETHernet:LLAYer:TX <wsp><LaneNo>, <Layer Type>, <Skew Value or Lane Marker Number>
Parameter(s)	**LaneNo**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane for the selected layer.
	The Lane number used for the skew is a logical lane number. The Lane number used for PCS is a physical lane number.
	Layer Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Link Layer Type.
	SKEW: SKEW
	PCS: PCS
	Skew Value or Lane Marker Number:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	- Sets the Lane Marker number in case Link Layer Type equals PCS
	- Sets the Skew value in case Link Layer Type equals SKEW :
	DEFault: Default skew value
	MAXimum: Maximum skew value
	MINimum: Minimum skew value
	Numerical skew value
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:ETH:LLAY:TX 5,PCS,2
	SOUR:DATA:TEL:ETH:LLAY:TX? 5,PCS
	Returns: 2
See Also	SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane:TX

:SOURce:DATA:TELecom:ETHernet:LLAYer:TX?

Description	This query returns the TX Lane.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Manual Mapping
Syntax	:SOURce:DATA:TELecom:ETHernet:LLAYer:TX? <wsp><LaneNo>, <Layer Type>,[<Skew value Token>]
Parameter(s)	**LaneNo**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the lane for the layer.
	The Lane number used for the skew is a logical lane number. The Lane number used for PCS is a physical lane number.
	Layer Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Link Layer Type.
	SKEW
	PCS
	Skew value Token:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	- Applicable only when Link Layer Type is SKEW
	DEFault: Default skew value
	MAXimum: Maximum skew value
	MINimum: Minimum skew value
Response Syntax	<Llayer>

:SOURce:DATA:TELecom:ETHernet:LLAYer:TX?

Response(s)	Llayer:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	- Returns the skew value for the specified lane number if the Link Layer Type is SKEW
	- Returns the lane marker number mapped to the specified lane number if the Link Layer Type is PCS.
Example(s)	SOUR:DATA:TEL:ETH:LLAY:TX 5,PCS,2
	SOUR:DATA:TEL:ETH:LLAY:TX? 5,PCS
	Returns: 2
See Also	SOURce:DATA:TELecom:ETHernet:LLAYer:SKEW:ALLLane 1

Reset/Manual Skew

:SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane

Description	This command sets the All Lane.
	At *RST condition, this value is set to OFF.
	Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Manual Skew TX > All Lanes
Syntax	:SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:OTL:SKEW:ALLL 1
See Also	SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane:TX
	SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane:TX?

:SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane:TX

Description	This command sets the skew value for all lanes for the transmitted link.
	At *RST condition, this value is set to 0.
	Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Manual Skew TX > All > Skew Inc/Dec Size
Syntax	:SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane:TX <wsp><Skew>
Parameter(s)	**Skew**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the skew for all.
	MAXimum: Maximum
	MINimum: Minimum
Response Syntax	<Set>
Example(s)	SOUR:DATA:TEL:OTN:OTL:SKEW:ALLL:TX 50
See Also	SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane
	SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane?

:SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane:TX?

Description	This query returns the All Lane status for transmitted link.
	At *RST condition, this value is set to 0.
	Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Manual Skew TX > All
Syntax	:SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane:TX?[<wsp><Skew>]
Parameter(s)	**Skew**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If unspecified, the current value is returned.
	MAXimum: Maximum
	MINimum: Minimum
Response Syntax	<Skew>
Response(s)	**Skew**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the all lane Skew value.
Example(s)	SOUR:DATA:TEL:OTN:OTL:SKEW:ALLL:TX?
See Also	SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane
	SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane?

:SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane?

Description	This query returns the All Lane status.
	At *RST condition, this value is set to OFF.
	Navigation Path: Functions > 40/100/400G Advanced > Lanes Mapping & Skew > Manual Skew TX > All Lanes
Syntax	:SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of All lanes selection.
	1, returns the all lane status as ON.
	0, returns the all lane status as OFF.
Example(s)	SOUR:DATA:TEL:OTN:OTL:SKEW:ALLL ON
	SOUR:DATA:TEL:OTN:OTL:SKEW:ALLL?
	Returns: 1
See Also	SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane:TX
	SOURce:DATA:TELecom:OTN:OTL:SKEW:ALLLane:TX?

:SOURce:DATA:TELecom:OTN:OTL:TX

Description	This command sets the value of the transmitted bits which depends on the selected link layer type.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: OTN BERT Test > Functions > 40G Advanced > Lanes Mapping & Skew > Manual Skew TX
Syntax	:SOURce:DATA:TELecom:OTN:OTL:TX <wsp><LaneNo>, <Link Layer Type>, <TX Value>
Parameter(s)	**LaneNo**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	The Lane used for the skew is a logical lane number.
	The Lane used for LOG is a physical lane number.
	Link Layer Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Link Layer Type.
	SKEW: SKEW
	LOGicallane: Logicallane
	TX Value:
	The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the TX value.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:OTN:OTL:TX 3,SKEW,MIN
	SOUR:DATA:TEL:OTN:OTL:TX 5,LOG,2
See Also	SENSe:DATA:TELecom:OTN:OTL:RX?

:SOURce:DATA:TELecom:OTN:OTL:TX?

Description	This query returns the value of the transmitted bits which depends on the selected link layer.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: OTN BERT Test > Functions > 40G Advanced > Lanes Mapping & Skew > Manual Skew TX
Syntax	:SOURce:DATA:TELecom:OTN:OTL:TX? <wsp><LaneNo>, <Link Layer Type>,[<TX Value>]
Parameter(s)	**LaneNo**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	The Lane used for the skew is a logical lane number.
	The Lane used for LOG is a physical lane number.
	Link Layer Type:
	The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Selects the Link Layer Type.
	SKEW: SKEW
	LOGicallane: Logicallane
	TX Value:
	The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
	Sets the TX value.
	This parameter is optional. If no token is specified, the current value of transmitted bits is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Llayer>
Response(s)	**Llayer**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the link layer virtual to physical lane skew for the transmitter.
Example(s)	SOUR:DATA:TEL:OTN:OTL:TX? 5,LOG
See Also	SOURce:DATA:TELecom:OTN:OTL:TX?

Bulk Read

:FETCh:DATA:TELecom:MDIO:BULK:READ:INFormation?

Description	This command bulk reads the MDIO/I2C values from given MDIO/I2C address range.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface > Bulk Read > MDIO/I2C Access
Syntax	:FETCh:DATA:TELecom:MDIO:BULK:READ:INFormation?
Response Syntax	<Address and Data>
Response(s)	**Address and Data**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the list of address and data values.
Example(s)	FETC:DATA:TEL:MDIO:BULK:READ:INF?
See Also	SOURce:DATA:TELecom:MDIO:BULK:READ

:SOURce:DATA:TELecom:MDIO:BULK:READ

Description	This command bulk reads the MDIO/I2C values.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface
Syntax	:SOURce:DATA:TELecom:MDIO:BULK:READ
Response Syntax	<Address and Data>
Example(s)	SOUR:DATA:TEL:MDIO:BULK:READ
See Also	SOURce:DATA:TELecom:MDIO:READ

Bulk Write

:SOURce:DATA:TELecom:MDIO:BULK:WRITe

Description	This command writes the Bulk MDIO/I2C values.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface > Bulk Write > Bulk Write Button.
Syntax	:SOURce:DATA:TELecom:MDIO:BULK:WRITe
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:MDIO:BULK:WRIT
See Also	SOURce:DATA:TELecom:MDIO:WRITe

:SOURce:DATA:TELecom:MDIO:BULK:WRITe:ADDRess

Description	This command sets the address for Bulk Write MDIO/I2C.
	At *RST condition, this value is set to 0000.
	Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface > Bulk Write > MDIO/I2C Bulk Write table Address.
Syntax	:SOURce:DATA:TELecom:MDIO:BULK:WRITe:ADDRess <wsp><Row>, <Address>
Parameter(s)	**Row**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the row number.
	Address:
	The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the MDIO/I2C address.
Response Syntax	<Rate>
Example(s)	SOUR:DATA:TEL:MDIO:BULK:WRIT:ADDR 1, #H0005
	SOUR:DATA:TEL:MDIO:BULK:WRIT:ADDR? 1
	Returns: 5
See Also	SOURce:DATA:TELecom:MDIO:BULK:WRITe:DATA
	SOURce:DATA:TELecom:MDIO:BULK:WRITe:DATA?

:SOURce:DATA:TELecom:MDIO:BULK:WRITe:ADDRess?

Description	This query returns the Bulk Write Address for MDIO/I2C table row.
	At *RST condition, this value is set to 0000.
	NAvigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface > Bulk Write > MDIO/I2C Bulk Write table Address.
Syntax	:SOURce:DATA:TELecom:MDIO:BULK:WRITe:ADDRess? <wsp><Row>
Parameter(s)	**Row**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the row number.
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the MDIO/I2C address for row
Example(s)	SOUR:DATA:TEL:MDIO:BULK:WRIT:ADDR? 1
See Also	SOURce:DATA:TELecom:MDIO:BULK:WRITe:DATA
	SOURce:DATA:TELecom:MDIO:BULK:WRITe:DATA?

:SOURce:DATA:TELecom:MDIO:BULK:WRITe:DATA

Description	This command sets the data for Bulk Write MDIO/I2C. At *RST condition, this value is set to 0000. Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface > Bulk Write > MDIO/I2C Bulk Write table Data.
Syntax	:SOURce:DATA:TELecom:MDIO:BULK:WRITe:DATA <wsp><Row>, <Data>
Parameter(s)	**Row**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the row number **Data**: The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the MDIO/I2C data value
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:MDIO:BULK:WRIT:DATA 1, #H0005 SOUR:DATA:TEL:MDIO:BULK:WRIT:DATA? 1 Returns: 5
See Also	SOURce:DATA:TELecom:MDIO:BULK:WRITe:ADDRess SOURce:DATA:TELecom:MDIO:BULK:WRITe:ADDRess?

:SOURce:DATA:TELecom:MDIO:BULK:WRITe:DATA?

Description	This query returns the Bulk Write Data for MDIO/I2C table row.
	At *RST condition, this value is set to 0000.
	NAvigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface > Bulk Write > MDIO/I2C Bulk Write table Data.
Syntax	:SOURce:DATA:TELecom:MDIO:BULK:WRITe:DATA? <wsp><Row>
Parameter(s)	**Row**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the row number
Response Syntax	<Data>
Response(s)	**Data**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the MDIO/I2C data value for row
Example(s)	SOUR:DATA:TEL:MDIO:BULK:WRIT:DATA? 1
See Also	SOURce:DATA:TELecom:MDIO:BULK:WRITe:ADDRess
	SOURce:DATA:TELecom:MDIO:BULK:WRITe:ADDRess?

:SOURce:DATA:TELecom:MDIO:BULK:WRITe:DEFault

Description	This command default 0000 the Bulk MDIO/I2C values.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Functions > <rate> Advanced > CFP/QSFP Control > MDIO/I2C Access Interface > Bulk Write > Default Button.
Syntax	:SOURce:DATA:TELecom:MDIO:BULK:WRITe:DEFault
Response Syntax	<Data>
Example(s)	SOUR:DATA:TEL:MDIO:BULK:WRIT:DEF
See Also	SOURce:DATA:TELecom:MDIO:BULK:WRITe

:SOURce:DATA:TELecom:MDIO:BULK:WRITe:PGSelect

Description	This command sets the Page Select value of the QSFP I2C Access Interface.
	At *RST condition, this value is set to 0000.
	Navigation Path: Functions > <rate> Advanced > QSFP Control > I2C Access Interface > Bulk Write > Page Select
Syntax	:SOURce:DATA:TELecom:MDIO:BULK:WRITe:PGSelect <wsp><Page Select>
Parameter(s)	**Page Select**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets Page Selected
Response Syntax	<Data>
Example(s)	SOUR:DATA:TEL:MDIO:BULK:WRIT:PGS 2
	SOUR:DATA:TEL:MDIO:BULK:WRIT:PGS?
	Returns: 2
See Also	SOURce:DATA:TELecom:MDIO:BULK:WRITe:PGSelect?

:SOURce:DATA:TELecom:MDIO:BULK:WRITe:PGSelect?

Description	This query returns the Page Select value of the QSFP I2C Access Interface.
	At *RST condition, this value is set to 0000.
	Navigation Path: Functions > <rate> Advanced > QSFP Control > I2C Access Interface > Bulk Write > Page Select
Syntax	:SOURce:DATA:TELecom:MDIO:BULK:WRITe:PGSelect?
Response Syntax	<Page Select>
Response(s)	**Page Select**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Page Selected.
Example(s)	SOUR:DATA:TEL:MDIO:BULK:WRIT:PGS 2
	SOUR:DATA:TEL:MDIO:BULK:WRIT:PGS?
	Returns: 2
See Also	SOURce:DATA:TELecom:MDIO:BULK:WRITe:PGSelect

Ping & Trace Route

:FETCh:DATA:TELecom:PING:STATistics:AVERage?

Description	This query returns the average measured round trip time required for a Ping request.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > Ping & Trace Route > Results > Statistics
Syntax	:FETCh:DATA:TELecom:PING:STATistics:AVERage?
Response Syntax	<Result>
Response(s)	**Result**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the average measured round trip time required for a Ping request.
Example(s)	FETC:DATA:TEL:PING:STAT:AVER?
See Also	FETCh:DATA:TELecom:PING:STATistics:TX?

:FETCh:DATA:TELecom:PING:STATistics:LOST?

Description	This query returns the percentage of lost packets.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > Ping & Trace Route > Results > Statistics
Syntax	:FETCh:DATA:TELecom:PING:STATistics:LOST?
Response Syntax	<Result>
Response(s)	**Result**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the percentage of lost packets.
Example(s)	FETC:DATA:TEL:PING:STAT:LOST?
See Also	FETCh:DATA:TELecom:PING:STATistics:MINimum?

:FETCh:DATA:TELecom:PING:STATistics:MAXimum?

Description	This query returns the maximum measured round trip time required for a Ping request.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > Ping & Trace Route > Results > Statistics
Syntax	:FETCh:DATA:TELecom:PING:STATistics:MAXimum?
Response Syntax	<Result>
Response(s)	**Result**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the maximum measured round trip time required for a Ping request.
Example(s)	FETC:DATA:TEL:PING:STAT:MAX?
See Also	FETCh:DATA:TELecom:PING:STATistics:AVERage?

:FETCh:DATA:TELecom:PING:STATistics:MINimum?

Description	This query returns the minimum measured round trip time required for a Ping request. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Ping & Trace Route > Results > Statistics
Syntax	:FETCh:DATA:TELecom:PING:STATistics:MINimum?
Response Syntax	<Result>
Response(s)	**Result**: The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element. Returns the minimum measured round trip time required for a Ping request.
Example(s)	FETC:DATA:TEL:PING:STAT:MIN?
See Also	FETCh:DATA:TELecom:PING:STATistics:MAXimum?

:FETCh:DATA:TELecom:PING:STATistics:RESults?

Description	This query returns the list of Ping Statistics.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > Ping & Trace Route > Results
Syntax	:FETCh:DATA:TELecom:PING:STATistics:RESults?
Response Syntax	<Result>
Response(s)	**Result**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	This query returns the list of Ping Statistics.
Example(s)	FETC:DATA:TEL:PING:STAT:RES?
See Also	FETCh:DATA:TELecom:PING:STATistics:TX?

:FETCh:DATA:TELecom:PING:STATistics:RX?

Description	This query returns the number of packets received.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > Ping & Trace Route > Results > Statistics
Syntax	:FETCh:DATA:TELecom:PING:STATistics:RX?
Response Syntax	<Result>
Response(s)	**Result**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the number of packets received.
Example(s)	FETC:DATA:TEL:PING:STAT:RX?
See Also	FETCh:DATA:TELecom:PING:STATistics:LOST?

:FETCh:DATA:TELecom:PING:STATistics:TX?

Description	This query returns the number of packets sent.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > Ping & Trace Route > Results > Statistics
Syntax	:FETCh:DATA:TELecom:PING:STATistics:TX?
Response Syntax	<Result>
Response(s)	**Result**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the number of packets sent.
Example(s)	FETC:DATA:TEL:PING:STAT:TX?
See Also	FETCh:DATA:TELecom:PING:STATistics:RX?

:FETCh:DATA:TELecom:TRACe:STATistics:RESults?

Description	This query returns the list of Trace Statistics. At *RST condition, this value is set to device-dependent. Navigation Path: Functions > Ping & Trace Route > Results
Syntax	:FETCh:DATA:TELecom:TRACe:STATistics:RESults?
Response Syntax	<Result>
Response(s)	**Result**: The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element. This query returns the list of Trace Statistics.
Example(s)	FETC:DATA:TEL:TRAC:STAT:RES?
See Also	FETCh:DATA:TELecom:TRACe:STATistics:TX?

:FETCh:DATA:TELecom:TRACe:STATistics:RX?

Description	This query returns the number of packets received.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > Ping & Trace Route > Results > Statistics
Syntax	:FETCh:DATA:TELecom:TRACe:STATistics:RX?
Response Syntax	<Result>
Response(s)	**Result**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the number of packets received.
Example(s)	FETC:DATA:TEL:TRAC:STAT:RX?
See Also	FETCh:DATA:TELecom:TRACe:STATistics:TX?

:FETCh:DATA:TELecom:TRACe:STATistics:TX?

Description	This query returns the number of packets sent.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > Ping & Trace Route > Results > Statistics
Syntax	:FETCh:DATA:TELecom:TRACe:STATistics:TX?
Response Syntax	<Result>
Response(s)	**Result**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the number of packets sent.
Example(s)	FETC:DATA:TEL:TRAC:STAT:TX?
See Also	FETCh:DATA:TELecom:TRACe:STATistics:RX?

:SOURce:DATA:TELecom:PING:CONFig:ADDRess:DESTination :IP

Description	This command sets the ping IP destination address.
	At *RST condition, this value is set to 0.0.0.0.
	Navigation Path: Functions > Ping & Trace Route > Destination IP Address
Syntax	:SOURce:DATA:TELecom:PING:CONFig:ADDRess:DESTination:IP <wsp><Address>
Parameter(s)	**Address**:
	The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element.
	Set the ping IP address of the destination.
Response Syntax	<Result>
Example(s)	SOUR:DATA:TEL:PING:CONF:ADDR:DEST:IP 230.170.18.19
	SOUR:DATA:TEL:PING:CONF:ADDR:DEST:IP?
	Returns: 230.170.18.19
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP
	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP?

:SOURce:DATA:TELecom:PING:CONFig:ADDRess:DESTination :IP:USTReam

Description	This command sets the stream for ping IP destination address.
	At *RST condition, this value is set to OFF.
	Navigation Path: Functions > Ping & Trace Route > Destination IP Address > Use Stream
Syntax	:SOURce:DATA:TELecom:PING:CONFig:ADDRess:DESTination:IP:USTReam <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Result>
Example(s)	SOUR:DATA:TEL:PING:CONF:ADDR:DEST:IP:USTR ON
	SOUR:DATA:TEL:PING:CONF:ADDR:DEST:IP:USTR?
	Returns: 1
See Also	SOURce:DATA:TELecom:PING:CONFig:ADDRess:DESTination:IP
	SOURce:DATA:TELecom:PING:CONFig:ADDRess:DESTination:IP?

:SOURce:DATA:TELecom:PING:CONFig:ADDRess:DESTination:IP:USTReam?

Description	This returns the status of the stream for ping IP destination address.
	At *RST condition, this value is set to OFF.
	Navigation Path: Functions > Ping & Trace Route > Destination IP Address > Use Stream
Syntax	:SOURce:DATA:TELecom:PING:CONFig:ADDRess:DESTination:IP:USTReam?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the stream for ping IP destination address.
	1, returns the stream as ON.
	0, returns the stream as OFF.
Example(s)	SOUR:DATA:TEL:PING:CONF:ADDR:DEST:IP:USTR ON
	SOUR:DATA:TEL:PING:CONF:ADDR:DEST:IP:USTR?
	Returns: 1
See Also	SOURce:DATA:TELecom:PING:CONFig:ADDRess:DESTination:IP
	SOURce:DATA:TELecom:PING:CONFig:ADDRess:DESTination:IP?

:SOURce:DATA:TELecom:PING:CONFig:ADDRess:DESTination :IP?

Description	This query returns the ping IP destination address.
	At *RST condition, this value is set to 0.0.0.0.
	Navigation Path: Functions > Ping & Trace Route > Destination IP Address
Syntax	:SOURce:DATA:TELecom:PING:CONFig:ADDRess:DESTination:IP?
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the ping IP destination address in the form of a string.
Example(s)	SOUR:DATA:TEL:PING:CONF:ADDR:DEST:IP 230.170.18.19
	SOUR:DATA:TEL:PING:CONF:ADDR:DEST:IP?
	Returns: 230.170.18.19
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP
	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP?

:SOURce:DATA:TELecom:PING:CONFig:ADDRess:IPVersion:DESTination

Description	This command sets the destination ping IP6 address. At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000. Navigation Path: Test > IPV6 > Functions > Ping & Trace Route > Destination IP Address
Syntax	:SOURce:DATA:TELecom:PING:CONFig:ADDRess:IPVersion:DESTination <wsp><Address>
Parameter(s)	**Address**: The program data syntax for the first parameter is defined as a <STRING PROGRAM DATA> element. Set the ping destination IP address.
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:PING:CONF:ADDR:IPV:DEST 0000:0000:0000:0000:0000:0000:0000:0000 SOUR:DATA:TEL:PING:CONF:ADDR:IPV:DEST? Returns: 0000:0000:0000:0000:0000:0000:0000:0000.
See Also	SOURce:DATA:TELecom:PING:CONFig:TOUT?

:SOURce:DATA:TELecom:PING:CONFig:ADDRess:IPVersion:DESTination?

Description	This query returns the ping destination IP6 address.
	At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000.
	Navigation Path: Test > IPV6 > Functions > Ping & Trace Route > Destination IP Address
Syntax	:SOURce:DATA:TELecom:PING:CONFig:ADDRess:IPVersion:DESTination?
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the ping IPV6 destination address in the form of a string.
Example(s)	SOUR:DATA:TEL:PING:CONF:ADDR:IPV:DEST 0000:0000:0000:0000:0000:0000:0000:0000
	SOUR:DATA:TEL:PING:CONF:ADDR:IPV:DEST?
	Returns: 0000:0000:0000:0000:0000:0000:0000:0000.
See Also	SOURce:DATA:TELecom:PING:CONFig:TOUT?

:SOURce:DATA:TELecom:PING:CONFig:ADDRess:IPVersion:SOURce?

Description	This query returns the ping IP6 destination address.
	At *RST condition, this value is set to 0000:0000:0000:0000:0000:0000:0000:0000.
	Navigation Path: Test > IPV6 > Functions > Ping & Trace Route > Source IP Address
Syntax	:SOURce:DATA:TELecom:PING:CONFig:ADDRess:IPVersion:SOURce?
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the ping IPV6 source address in the form of a string.
Example(s)	SOUR:DATA:TEL:PING:CONF:ADDR:IPV:SOUR?
	Returns: 0000:0000:0000:0000:0000:0000:0000:0000.
See Also	SOURce:DATA:TELecom:PING:CONFig:CONTinuous

:SOURce:DATA:TELecom:PING:CONFig:ADDRess:SOURce:IP?

Description	This query returns the ping IP destination address.
	At *RST condition, this value is set to 0.0.0.0.
	Navigation Path: Test > IPV4 > Functions > Ping & Trace Route > Source IP Address
Syntax	:SOURce:DATA:TELecom:PING:CONFig:ADDRess:SOURce:IP?
Response Syntax	<Address>
Response(s)	**Address**:
	The response data syntax for the first parameter is defined as a <STRING RESPONSE DATA> element.
	Returns the ping IPV4 source address in the form of a string.
Example(s)	SOUR:DATA:TEL:PING:CONF:ADDR:SOUR:IP?
See Also	SOURce:DATA:TELecom:TRACe:CONFig:RUN?

:SOURce:DATA:TELecom:PING:CONFig:ATTempts

Description	This command sets the number of attempts of ping requests. Choices are 1 to 100.
	At *RST condition, this value is set to 4.
	Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELecom:PING:CONFig:ATTempts <wsp><Attempts>
Parameter(s)	**Attempts**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the value for the number of attempts.
	MAXimum, sets the value for the number of attempts to maximum.
	MINimum, sets the value for the number of attempts to minimum.
Response Syntax	<Address>
Example(s)	SOUR:DATA:TEL:PING:CONF:ATT 100
	SOUR:DATA:TEL:PING:CONF:ATT?
	Returns: 100
See Also	SOURce:DATA:TELecom:PING:CONFig:CONTinuous

:SOURce:DATA:TELecom:PING:CONFig:ATTempts?

Description	This query returns the number of attempts of ping. Choices are 1 to 100.
	At *RST condition, this value is set to 4.
	Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELecom:PING:CONFig:ATTempts?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current number of attempts of ping is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of attempts of ping requests.
Example(s)	SOUR:DATA:TEL:PING:CONF:ATT 100
	SOUR:DATA:TEL:PING:CONF:ATT?
	Returns: 100
See Also	SOURce:DATA:TELecom:PING:CONFig:CONTinuous?

:SOURce:DATA:TELecom:PING:CONFig:CONTinuous

Description	This command sets the Ping attempts to be made as continuous or Fixed (nAttempts).
	At *RST condition, this value is set to Continuous.
	Navigation Path: Functions > Ping & Trace Route > Ping (Attempts dropdown)
Syntax	:SOURce:DATA:TELecom:PING:CONFig:CONTinuous <wsp><Attempts>
Parameter(s)	**Attempts**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Sets the attempts.
	ON: Continuous
	OFF: Fixed (nAttempts)
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:PING:CONF:CONT ON
	SOUR:DATA:TEL:PING:CONF:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:TRACe:CONFig:RUN
	SOURce:DATA:TELecom:TRACe:CONFig:RUN?

:SOURce:DATA:TELecom:PING:CONFig:CONTinuous?

Description	This query returns status of Ping attempts.
	At *RST condition, this value is set to Continuous.
	Navigation Path: Functions > Ping & Trace Route > Ping (Attempts dropdown)
Syntax	:SOURce:DATA:TELecom:PING:CONFig:CONTinuous?
Response Syntax	<Continous>
Response(s)	**Continous**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the Ping attempts as continuous or Fixed (nAttempts).
	1, returns the attempts as continuous.
	0, returns the attempts as Fixed (nAttempts).
Example(s)	SOUR:DATA:TEL:PING:CONF:CONT ON
	SOUR:DATA:TEL:PING:CONF:CONT?
	Returns: 1
See Also	SOURce:DATA:TELecom:TRACe:CONFig:RUN
	SOURce:DATA:TELecom:TRACe:CONFig:RUN?

:SOURce:DATA:TELecom:PING:CONFig:DELay

Description	This command allows you to enter the delay between each attempt (PING). Choices are 100 to 10000 ms.
	At *RST condition, this value is set to 1000 ms.
	Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELecom:PING:CONFig:DELay <wsp><Delay>
Parameter(s)	**Delay**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the ping delay value.
	MAXimum, ping delay value is set to its maximum.
	MINimum, ping delay value is set to its minimum.
	Choices are 100 to 10000 ms.
Response Syntax	<Continous>
Example(s)	SOUR:DATA:TEL:PING:CONF:DEL 2000
	SOUR:DATA:TEL:PING:CONF:DEL?
	Returns: 2000
See Also	SOURce:DATA:TELecom:PING:CONFig:DSIZe
	SOURce:DATA:TELecom:PING:CONFig:DSIZe?

:SOURce:DATA:TELecom:PING:CONFig:DELay?

Description	This query returns the delay between each attempt (PING). Choices are 100 to 10000 ms.
	At *RST condition, this value is set to 1000 ms.
	Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELecom:PING:CONFig:DELay?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current delay between each attempt (PING) is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the delay value between each attempt in the PING request.
Example(s)	SOUR:DATA:TEL:PING:CONF:DEL 2000
	SOUR:DATA:TEL:PING:CONF:DEL?
	Returns: 2000
See Also	SOURce:DATA:TELecom:PING:CONFig:DSIZe
	SOURce:DATA:TELecom:PING:CONFig:DSIZe?

:SOURce:DATA:TELecom:PING:CONFig:DSIZe

Description	This command allows you to enter the data size. Choices are 0 to 1472 Bytes.
	At *RST condition, this value is set to 32 bytes.
	Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELecom:PING:CONFig:DSIZe <wsp><Dsize>
Parameter(s)	**Dsize:**
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the ping frame size value.
	MAXimum, ping frame size value is set to its maximum.
	MINimum,ping frame size value is set to its minimum.
	Choices are 0 to 1472 Bytes
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:PING:CONF:DSIZ 1460
	SOUR:DATA:TEL:PING:CONF:DSIZ?
	Returns: 1460
See Also	SOURce:DATA:TELecom:PING:CONFig:TTL
	SOURce:DATA:TELecom:PING:CONFig:TTL?

:SOURce:DATA:TELecom:PING:CONFig:DSIZe?

Description	This query returns the data size. Choices are 0 to 1472 Bytes.
	At *RST condition, this value is set to 32 bytes.
	Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELecom:PING:CONFig:DSIZe?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current data size is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the data size value.
Example(s)	SOUR:DATA:TEL:PING:CONF:DSIZ 1460
	SOUR:DATA:TEL:PING:CONF:DSIZ?
	Returns: 1460
See Also	SOURce:DATA:TELecom:PING:CONFig:TTL
	SOURce:DATA:TELecom:PING:CONFig:TTL?

:SOURce:DATA:TELecom:PING:CONFig:FLABel

Description	This command sets the Flow Label Value At *RST condition, this value is set to 0. Navigation Path: Test > IPV6 > Functions > Ping & Trace Route > Flow Label
Syntax	:SOURce:DATA:TELecom:PING:CONFig:FLABel <wsp><Value>
Parameter(s)	**Value**: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Sets the Flow Label Value. MAXimum, Flow Label value is set to its maximum. MINimum, Flow Label value is set to its minimum. Choices are 0 to 1048575.
Response Syntax	<Value>
Example(s)	SOURce:DATA:TELecom:PING:CONFig:FLABel 565 SOURce:DATA:TELecom:PING:CONFig:FLABel? Returns: 565
See Also	SOURce:DATA:TELecom:TRACe:CONFig:RUN SOURce:DATA:TELecom:TRACe:CONFig:RUN?

:SOURce:DATA:TELecom:PING:CONFig:FLABel?

Description	This query returns the Flow Label value for IPV6
	At *RST condition, this value is set to 0
	Navigation Path: Test > IPV6 > Functions > Ping & Trace Route > Flow Label
Syntax	:SOURce:DATA:TELecom:PING:CONFig:FLABel?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current Flow Label value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the Flow label value
Example(s)	SOURce:DATA:TELecom:PING:CONFig:FLABel 565
	SOURce:DATA:TELecom:PING:CONFig:FLABel?
	Returns: 565
See Also	SOURce:DATA:TELecom:TRACe:CONFig:RUN
	SOURce:DATA:TELecom:TRACe:CONFig:RUN?

:SOURce:DATA:TELecom:PING:CONFig:STReam:INDex

Description	This command selects either the interface or a stream as the source IP address.
	Navigation Path: Functions > Ping & Trace Route > Source IP Address
Syntax	:SOURce:DATA:TELecom:PING:CONFig:STReam:INDex <wsp><IP address index>
Parameter(s)	**IP address index**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	0: Selects the Interface IP as source IP
	1 to 16: Selects the corresponding stream IP address.
Response Syntax	<Value>
Example(s)	SOURce:DATA:TELecom:PING:CONFig:STReam:INDex 1
	SOURce:DATA:TELecom:PING:CONFig:STReam:INDex?
	Returns: 1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP
	SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP?

:SOURce:DATA:TELecom:PING:CONFig:STReam:INDex?

Description	This query returns the index of the selected Source IP address.
	Navigation Path: Functions > Ping & Trace Route > Source IP Address
Syntax	:SOURce:DATA:TELecom:PING:CONFig:STReam:INDex?
Response Syntax	<IP address index>
Response(s)	**IP address index**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the index of the selected source IP address.
Example(s)	SOURce:DATA:TELecom:PING:CONFig:STReam:INDex 1
	SOURce:DATA:TELecom:PING:CONFig:STReam:INDex?
	Returns: 1
See Also	:SOURce:DATA:TELecom:ETHernet:PORT:ADDRess:IP?
	:SOURce:DATA:TELecom:ETHernet:NETWork:LOCal:IPVersion:ADDRess?
	:SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP?
	:SENSe:DATA:TELecom:ETHernet:STReam:DESTination:IPVersion?

:SOURce:DATA:TELecom:PING:CONFig:TOS

Description	This command allows you to enter the type of service.
	At *RST condition, this value is set to 0x00.
	Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELecom:PING:CONFig:TOS <wsp><TOS>
Parameter(s)	**TOS**:
	The program data syntax for the first parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Ping TOS/DS value.
	Choices are 00 to FF.
Response Syntax	<IP address index>
Example(s)	SOUR:DATA:TEL:PING:CONF:TOS #H00
	SOUR:DATA:TEL:PING:CONF:TOS?
	Returns: 0
See Also	SOURce:DATA:TELecom:PING:CONFig:HCOunt

:SOURce:DATA:TELecom:PING:CONFig:TOS?

Description	This query returns the type of service.
	At *RST condition, this value is set to 0x00.
	Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELecom:PING:CONFig:TOS?
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the type of service value.
Example(s)	SOUR:DATA:TEL:PING:CONF:TOS #H00
	SOUR:DATA:TEL:PING:CONF:TOS?
	Returns: 0
See Also	SOURce:DATA:TELecom:PING:CONFig:HCOunt?

:SOURce:DATA:TELecom:PING:CONFig:TOUT

Description	This command allows you to enter the maximum time allowed between an ICMP echo and response. Choices are 200 ms to 10000 ms.
	At *RST condition, this value is set to 4000 ms.
	Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELecom:PING:CONFig:TOUT <wsp><TOUT>
Parameter(s)	TOUT:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the ping time out value.
	MAXimum, the ping time out value is set to its maximum.
	MINimum, the ping time out value is set to its minimum.
	Choices are 200 ms to 10000 ms.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:PING:CONF:TOUT 10000
	SOUR:DATA:TEL:PING:CONF:TOUT?
	Returns: 10000
See Also	SOURce:DATA:TELecom:PING:CONFig:DELay
	SOURce:DATA:TELecom:PING:CONFig:DELay?

:SOURce:DATA:TELecom:PING:CONFig:TOUT?

Description	This query returns the time allowed between an ICMP echo and response. Choices are 200 ms to 10000 ms. At *RST condition, this value is set to 4000 ms. Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELecom:PING:CONFig:TOUT?[<wsp><Value>]
Parameter(s)	**Value**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current time allowed between an ICMP echo and response is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	**Value**: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the time allowed between an ICMP echo and response.
Example(s)	SOUR:DATA:TEL:PING:CONF:TOUT 10000 SOUR:DATA:TEL:PING:CONF:TOUT? Returns: 10000
See Also	SOURce:DATA:TELecom:PING:CONFig:DELay SOURce:DATA:TELecom:PING:CONFig:DELay?

:SOURce:DATA:TELecom:PING:CONFig:TTL

Description	This Command sets number of hops the packet can go through.
	At *RST condition, this value is set to 128.
	Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELecom:PING:CONFig:TTL <wsp><Ttl>
Parameter(s)	Ttl:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the ping ttl value.
	MAXimum, ping ttl value is set to its maximum.
	MINimum, ping ttl value is set to its minimum.
	Choices are 1 to 255.
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:PING:CONF:TTL 255
	SOUR:DATA:TEL:PING:CONF:TTL?
	Returns: 255
See Also	SOURce:DATA:TELecom:PING:CONFig:TOS
	SOURce:DATA:TELecom:PING:CONFig:TOS?

:SOURce:DATA:TELecom:PING:CONFig:TTL?

Description	This query returns the maximum number of hops the packet can go through.
	At *RST condition, this value is set to 128.
	Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELecom:PING:CONFig:TTL?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current number of hops the packet can go through is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the number of hops the packet can go through.
Example(s)	SOUR:DATA:TEL:PING:CONF:TTL 255
	SOUR:DATA:TEL:PING:CONF:TTL?
	Returns: 255
See Also	SOURce:DATA:TELecom:PING:CONFig:TOS
	SOURce:DATA:TELecom:PING:CONFig:TOS?

:SOURce:DATA:TELecom:PING:SETup:RUN

Description	This command allows you to run the Ping command.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELecom:PING:SETup:RUN <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:PING:SET:RUN ON
	SOUR:DATA:TEL:PING:SET:RUN?
	Returns: 1
See Also	SOURce:DATA:TELecom:PING:CONFig:TOUT 10000

:SOURce:DATA:TELecom:PING:SETup:RUN?

Description	This query returns the status of the Ping command.
	This query is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Functions > Ping & Trace Route > Ping
Syntax	:SOURce:DATA:TELecom:PING:SETup:RUN?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the Ping command.
	0, returns the status of the Ping command as OFF.
	1, returns the status of the Ping command as ON.
Example(s)	SOUR:DATA:TEL:PING:SET:RUN ON
	SOUR:DATA:TEL:PING:SET:RUN?
	Returns: 1
See Also	SOURce:DATA:TELecom:PING:CONFig:TOUT?

:SOURce:DATA:TELecom:TRACe:CONFig:HCOunt

Description	This command allows you to enter the number of network device packets.
	At *RST condition, this value is set to 128.
	Navigation Path: Functions > Ping & Trace Route > Trace Route
Syntax	:SOURce:DATA:TELecom:TRACe:CONFig:HCOunt <wsp><HOP>
Parameter(s)	**HOP**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Trace maximum hop count.
	MAXimum, the hop count value is set to its maximum.
	MINimum, the hop count. value is set to its minimum.
	Choices are from 1 to 255
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:TRAC:CONF:HCO 88
	SOUR:DATA:TEL:TRAC:CONF:HCO?
	Returns: 88
See Also	SOURce:DATA:TELecom:PING:CONFig:TTL
	SOURce:DATA:TELecom:PING:CONFig:TTL?

:SOURce:DATA:TELecom:TRACe:CONFig:HCOunt?

Description	This query returns the maximum network device packets. Choices are from 1 to 255.
	At *RST condition, this value is set to 128.
	Navigation Path: Functions > Ping & Trace Route > Trace Route
Syntax	:SOURce:DATA:TELecom:TRACe:CONFig:HCOunt?[<wsp><Value>]
Parameter(s)	**Value**:
	The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.
	This parameter is optional. If no token is specified, the current network device packets value is returned.
	MAXimum: Biggest supported value
	MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	**Value**:
	The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
	Returns the trace maximum hop count.
Example(s)	SOUR:DATA:TEL:TRAC:CONF:HCO 88
	SOUR:DATA:TEL:TRAC:CONF:HCO?
	Returns: 88
See Also	SOURce:DATA:TELecom:PING:CONFig:TTL
	SOURce:DATA:TELecom:PING:CONFig:TTL?

:SOURce:DATA:TELecom:TRACe:CONFig:RUN

Description	This command allows you to run the Trace command.
	This command is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Functions > Ping & Trace Route > Trace Route
Syntax	:SOURce:DATA:TELecom:TRACe:CONFig:RUN <wsp><Status>
Parameter(s)	**Status**:
	The program data syntax for the first parameter is defined as a <BOOLEAN PROGRAM DATA> element.
	Enables/disables:
	ON: Enables
	OFF: Disables
Response Syntax	<Value>
Example(s)	SOUR:DATA:TEL:TRAC:CONF:RUN ON
	SOUR:DATA:TEL:TRAC:CONF:RUN?
	Returns: 1
See Also	SOURce:DATA:TELecom:PING:SETup:RUN
	SOURce:DATA:TELecom:PING:SETup:RUN?

:SOURce:DATA:TELecom:TRACe:CONFig:RUN?

Description	This query returns the status of the Trace command.
	This query is an event and is not associated with an *RST condition or a query form.
	Navigation Path: Functions > Ping & Trace Route > Trace Route
Syntax	:SOURce:DATA:TELecom:TRACe:CONFig:RUN?
Response Syntax	<Status>
Response(s)	**Status**:
	The response data syntax for the first parameter is defined as a <BOOLEAN RESPONSE DATA> element.
	Returns the status of the Trace command.
	0, returns the status of the Trace command as OFF.
	1, returns the status of the Trace command as ON.
Example(s)	SOUR:DATA:TEL:TRAC:CONF:RUN ON
	SOUR:DATA:TEL:TRAC:CONF:RUN?
	Returns: 1
See Also	SOURce:DATA:TELecom:PING:SETup:RUN
	SOURce:DATA:TELecom:PING:SETup:RUN?

:SOURce:DATA:TELecom:TRACe:CONFig:TOUT

Description	This command allows you to enter the maximum time allowed between an ICMP echo and response. Choices are 200 ms to 10000 ms.
	At *RST condition, this value is set to 4000 ms.
	Navigation Path: Functions > Ping & Trace Route > Trace Route
Syntax	:SOURce:DATA:TELecom:TRACe:CONFig:TOUT <wsp><TOUT>
Parameter(s)	**TOUT**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Sets the Trace time out value.
	MAXimum, the trace time out value is set to its maximum.
	MINimum, the trace time out value is set to its minimum.
	Choices are 200 ms to 10000 ms.
Response Syntax	<Status>
Example(s)	SOUR:DATA:TEL:TRAC:CONF:TOUT 10000
	SOUR:DATA:TEL:TRAC:CONF:TOUT?
	Returns: 10000
See Also	SOURce:DATA:TELecom:PING:CONFig:TOUT
	SOURce:DATA:TELecom:PING:CONFig:TOUT?

:SOURce:DATA:TELecom:TRACe:CONFig:TOUT?

Description	This query returns the time allowed between an ICMP echo and response. Choices are 200 ms to 10000 ms. At *RST condition, this value is set to 4000 ms. Navigation Path: Functions > Ping & Trace Route > Trace
Syntax	:SOURce:DATA:TELecom:TRACe:CONFig:TOUT?[<wsp><Value>]
Parameter(s)	**Value**: The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element. This parameter is optional. If no token is specified, the current time allowed between an ICMP echo and response is returned. MAXimum: Biggest supported value MINimum: Smallest supported value
Response Syntax	<Value>
Response(s)	**Value**: The response data syntax for the first parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the time out value.
Example(s)	SOUR:DATA:TEL:TRAC:CONF:TOUT 10000 SOUR:DATA:TEL:TRAC:CONF:TOUT? Returns: 10000
See Also	SOURce:DATA:TELecom:PING:CONFig:TOUT SOURce:DATA:TELecom:PING:CONFig:TOUT?

Filters

:SENSe:DATA:TELecom:ETHernet:FILTer:FRAMe:BANDwidth?

Description	This command sets the frame bandwidth in megabit per second.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > Filters & Packet Capture > Filters > Filter Statistics > Ethernet BW (Mbit/s)
Syntax	:SENSe:DATA:TELecom:ETHernet:FILTer:FRAMe:BANDwidth? <wsp><Filterno>
Parameter(s)	**Filterno**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the filter number from 1 to 10.
Response Syntax	<Bandwidth>
Response(s)	**Bandwidth**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the frame bandwidth.
Example(s)	SENS:DATA:TEL:ETH:FILT:FRAM:BAND? 1
See Also	SENSe:DATA:TELecom:ETHernet:FILTer:FRAMing:RATE?

:SENSe:DATA:TELecom:ETHernet:FILTer:FRAMe:COUNt?

Description	This query returns the number of frames matching the configured filter's criteria.
	At *RST condition, this value is set to device-dependent.
	Navigation Path: Functions > Filters & Packet Capture > Filters > Filter Statistics > Frame Count
Syntax	:SENSe:DATA:TELecom:ETHernet:FILTer:FRAMe:COUNt? <wsp><Filterno>
Parameter(s)	**Filterno**:
	The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
	Selects the filter number from 1 to 10.
Response Syntax	<Count>
Response(s)	**Count**:
	The response data syntax for the first parameter is defined as a <NR2 NUMERIC RESPONSE DATA> element.
	Returns the number of valid and invalid frames received.
Example(s)	SENS:DATA:TEL:ETH:FILT:FRAM:COUN? 1
See Also	SENSe:DATA:TELecom:ETHernet:FILTer:FRAMing:RATE?