ETHERNET SCPI COMMANDS

Ethernet Test Module for FTB-400, FTB-500 and IQS-600 Platforms

NETWORK TESTING

REFERENCE GUIDE

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1 Introducing the Packet Blazer 8510B SCPI Commands

Main Features

- Packet Blazer 8510B supports FTB-400/FTB-500 and IQS-600 Platforms
- SCPI can be operated locally and remotely over GPIB, RS232 and Ethernet
- It supports different Test Setups like BERT (Unframed, Layer-1, Layer-2) and Frame Analysis
- It also supports Dual Port Test and Alarm/Frequency Analysis
- MPLS and PBB-TE support for complete carrier Ethernet validation
- It supports Multiple-stream generation and analysis
- It supports Advanced Filter Functionalities
- It offers current IPv4 testing capabilities for IPv6 network
- It supports Throughput, Back-to-Back, Latency and Frame Loss measurements as per RFC 2544 (bidirectional)
- It supports remote module selection
- It supports Clock synchronization command capabilities.
- It supports TCP Throughput Test and command for Test Name.
- It provides per stream status and TCP frame format.
- It supports 802.3 Frame Format and Smart Loop Back.
- It supports IPTV commands.
- It supports Test Summary command capabilities.
- It supports MPLS-PBBTE command capabilities.
- It supports Ping command capabilities.
- It supports SDT command capabilities.

- It supports Auto Negotiation command capabilities.
- It supports Timer Configuration command capabilities.
- It supports Test Status command capabilities.

The Packet Blazer 8510B SCPI Commands Compatibility

The SCPI commands can be used with the FTB-400 Universal Test System and FTB-500 Intelligent Test System controller unit.

For the FTB-400 refer to the following sections in the FTB-400 Universal Test System user guide:

- Preparing for Automation or Remote Control
- Using FTB Products in an Automated Test Environment
- Data Types
- IEEE 488.2 and Specific Command Reference
- SCPI-Based Errors
- IPTV
- Frame Format(802.3)
- Smart Loopback

Conventions

Before using the product described in this manual, 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 with Packet Blazer 8510B SCPI Commands

This section contains a brief summary of the Packet Blazer 8510B specific commands.

Following steps will give an idea about the command and sequence of commands to execute and perform a specific test on FTB-400/FTB-500 and IQS-600 platforms.

Using SCPI Commands to Create a BERT test

1. *CLS

   This command clears the register of module.

2. INST:CAT:FULL?

   This command will detect the module attached to the FTB-400/FTB-500 and IQS-600 back panel and returns the name of the module and its position with Unit number and Slot number.

   For example "Packet Blazer FTB-8510B",12. You need to add this information with LINS keyword before each and every SCPI command.

   Following SCPI commands describes the use of LINS:

3. LINS12:SOUR:DATA:TEL:CLE

   This command clears any existing running test.

4. LINS12:SOUR:DATA:TEL:ITYP ETH

   This command selects the interface type as Ethernet.

5. LINS12:SOUR:DATA:TEL:ITYP?

   This query returns the interface type for the instrument.

6. LINS12:SOUR:DATA:TEL:TEST:TYPE BERT

   This command selects the test application type as BERT.

7. LINS12:SOUR:DATA:TEL:TEST:TYPE?

   The query returns the application type as BERT.

8. LINS12:OUTP:TEL:PORT:SEL PORT1

This command sets the instrument Ethernet port as Port 1.

9. LINS12:OUTP:TEL:PORT:SEL?

This query returns the selected port to the instrument.

10. LINS12:OUTP:TEL:INT 1,OPT

This command sets the interface of instrument as Optical.

11. LINS12:OUTP:TEL:INT? 1

This query returns the interface of the instrument.

12. LINS12:SOUR:DATA:TEL:ETH:BERT:FRAM 1,LAYER2

This command selects the framing mode as Unframed.

13. LINS12:SOUR:DATA:TEL:ETH:BERT:FRAM? 1

This query returns the frame layer type for BERT application.

14. LINS12:SOUR:DATA:TEL:MOUN

This command mounts the test.

15. LINS12:OUTP:TEL:LAS 1,ON

This command sets the Laser on.

16. LINS12:OUTP:TEL:LAS? 1

This query returns the current status of laser.

17. LINS12:SOUR:DATA:TEL:PATT:TYPE 1,PRBS2E9

This command sets the pattern type for the transmitter as PRBS2^9-1.

18. LINS12:SOUR:DATA:TEL:PATT:TYPE? 1

This query returns the pattern type for the transmitter.

19. LINS12:SOUR:DATA:TEL:TEST ON

This command enables or disables the manual test.

20. LINS12:SOURce:DATA:TELecom:TEST?

This query returns the status of manual test.

21. LINS12:SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE 1,BIT

This command sets pattern error type as bit.

22. LINS12:SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE? 1

This query returns the manual type pattern error.

23. LINS12:SOUR:DATA:TEL:PATT:ERR:PATT:AMO 1,15

This command sets the amount of pattern error to inject as 15.

24. LINS12:SOUR:DATA:TEL:PATT:ERR:PATT:AMO? 1

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

25. LINS12:SOUR:DATA:TEL:PATT:ERR:PATT:INJ 1

This command injects the pattern error.

26. LINS12:SOUR:DATA:TEL:TEST OFF

This command stops the manual test.

For more information refer to SCPI Command Reference for Packet Blazer 8510B. This section contains information on Commands Description, Syntax, Examples and See Also.

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	0.00
<STRING RESPONSE DATA> <CHARACTER RESPONSE DATA>	No	"--"

Modification on existing commands:

For the commands below:

A new parameter "Stream" is added from this version onwards, as the respected functionality is been changed to accept a new Stream Number parameter.

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:MINimum?

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:MAXimum?

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:CURRent?

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:AVERage?

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:ESTimate?

Previous Commands:

The commands mentioned below were earlier present in TrafficAnalyzer Tab but now it is moved to Stream Analyzer Tab with additional stream parameter. They are now not available on GUI also; so the commands below will become obsolite from next version onwards.

FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:STReam:HISTory? FLOS

FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:STReam:CURRent? FLOS

FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:STReam:SEConds? FLOS

FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:STReam:COUNt? FLOS

FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:STReam:RATE? FLOS

New Commands

The commands mentioned below are new commands.

:FETCh[1..n]:DATA:TELecom:ETHernet: ERRor:SANalyzer:HISTory?

:FETCh[1..n]:DATA:TELecom:ETHernet: ERRor:SANalyzer:CURRent?

:FETCh[1..n]:DATA:TELecom:ETHernet: ERRor:SANalyzer:SEConds?

:FETCh[1..n]:DATA:TELecom:ETHernet: ERRor:SANalyzer:COUNt?

:FETCh[1..n]:DATA:TELecom:ETHernet: ERRor:SANalyzer:RATE?

3 Introducing the SCPI over TCP/IP Service

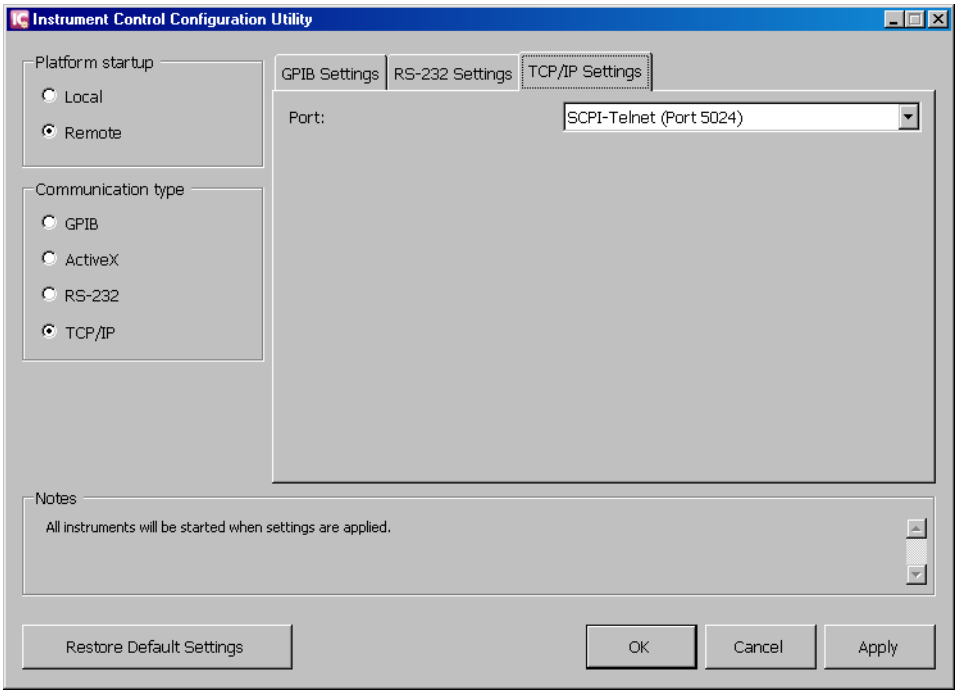
SCPI over TCP/IP Service is a Windows Service that continuously listens to a port (5024) at Server (IQS) on which modules to be tested are connected. For communication TCP/IP protocols are used. All Windows versions include Telnet Client and Telnet Server components. By using this, one can create a remote command console session on a remote computer. Commands can be executed just by logging on Server using Telnet interface.

Features

- Client from any platform (Windows/Linux/Unix) can connect to this service
- Client from any network domain can connect to the service
- Client can use Telent components which are freely available on any platform
- Client can execute single command or list of commands
- One user session can now connect to multiple modules
- User can forcefully disconnect any already connected client

To activate SCPI over TCP/IP Service perform the following procedure:

1. Go to **Utilies** and click **Instrument Control Configureation,** the following screen will be displayed:

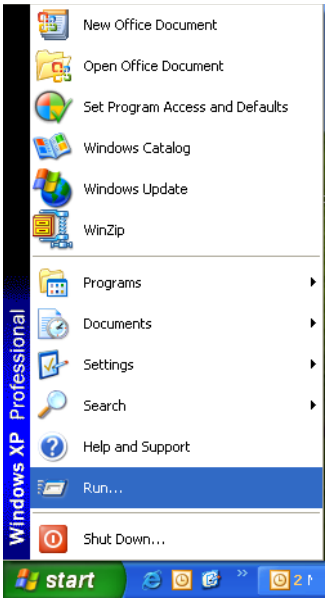


2. Make sure that the **TCP/IP** and **Remote** are selected.
3. Click on **Apply**, and then **OK**.

Steps to execute SCPI commands through SCPI over TCP/IP Service

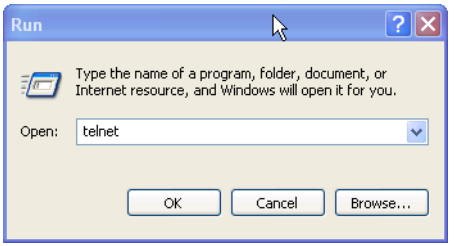
Following is the procedure to connect SCPI over TCP/IP Service from any remote client through Windows Platform:

1. Click on Start, then Run.



2. In **Open** window, type **telnet**.

   It will open the telnet prompt as shown on second image below:



3. Connect to the Service using the following command:

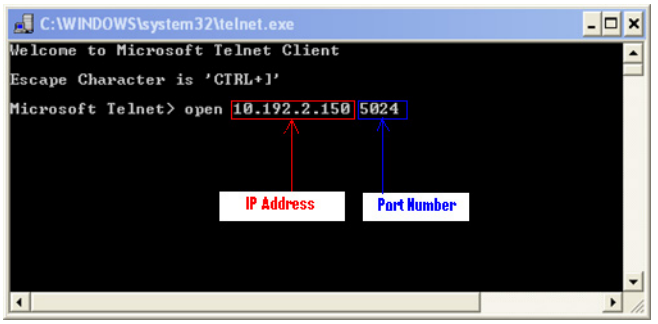
   open <IPADDRESS><PORT>

   Example: open 10.192.2.45 5024

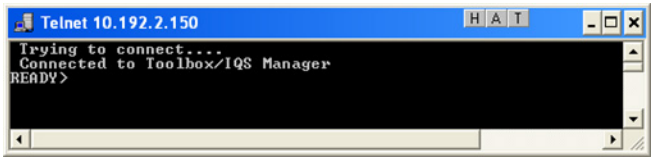
   Red color denotes the IP address of IQS where SCPI over TCP/IP Service is running.

   Blue color denotes the port number. #5024 is the default port number for SCPI over TCP/IP Service.

4. Press **Enter** to establish connection with the Service.



5. If connection is established successfully, the following window is displayed with READY> prompt.



Scenarios for release/block of module(s)

Scenario 1: Block

A module is blocked for other session once a connection is established with any session by executing either "CONNECT LINSxx" or a valid Instrument Command eg. "LINS10:SOURce:DATA:TELecom:CLEar".

Example: "LINS10:SOURce:DATA:TELecom:CLEar"

Once the above command is executed by client session "10.192.2.155:1364"; the module will be blocked for any other Session till the user does not release it by any of the following different activities:

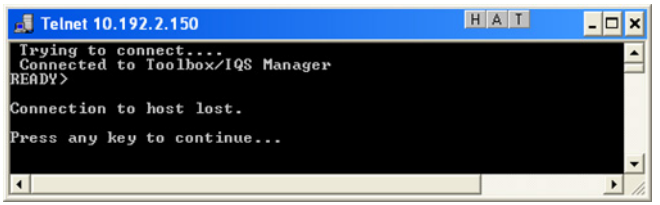
- Execute CLOSE LINSxx command to disconnect the link with the module.
- Executing CLOSE command to end current session.
- Closing the current session by clicking Close button on caption bar.
- Shutdown/Restart client computer.
- Network down.

Scenario 2: Release

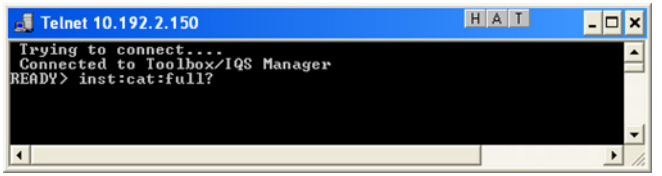
- A module can be released forcefully by executing CLOSE LINSxx command from other session.

➤ Also one can kill a session by executing KILL LINSxx command (For more information please refer to KILL LINSxx).

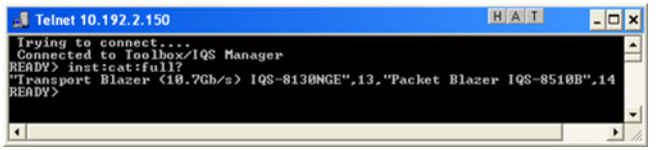
If connection is not established, the following window is displayed.



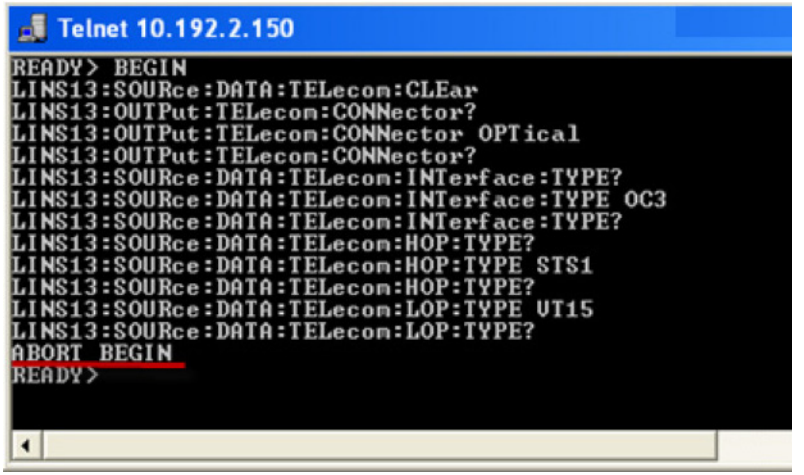
6. Once the connection is established, type or copy the SCPI command on Editor window to execute the command.



The response for the above command will appear as below:



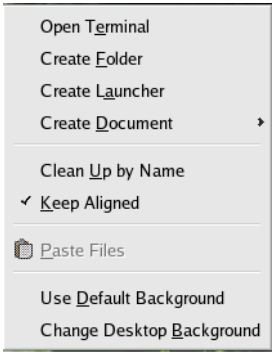
7. To execute multiple commands, copy the commands from any Script file and paste them between BEGIN ... END blocks on Editor window, and press **Enter.** Refer to Internal (Protocol) Commands of SCPI over TCP/IP Service on page 12 for more information.



Note: *If a client tries to execute multiple commands without using BEGIN ...END blocks, it will still execute but with some ambiguity.*

Following is the procedure to connect SCPI over TCP/IP Service from any remote client through Linux Platform:

1. Right click on the Desktop, open the **Terminal**.



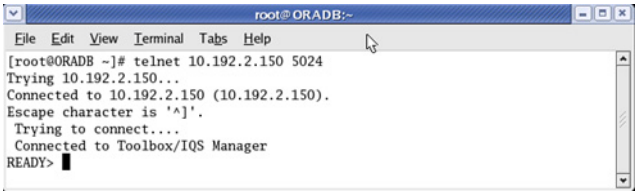
2. The command prompt will be displayed as below:

3. Type the following command

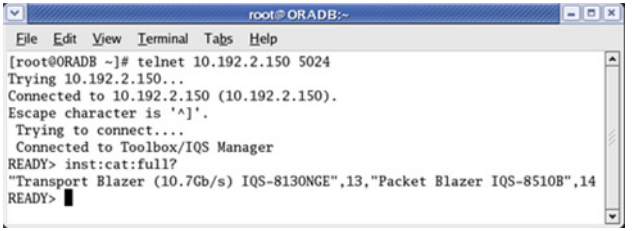
telnet<IPADDRESS><PORT>

Example: telnet 10.192.3.27 5024

4. The connection is established displaying the message “Connected to Toolbox/IQS Manager”.



5. Type a SCPI command on the Editor to execute.



6. Click on **X** to close the session.

Internal (Protocol) Commands of SCPI over TCP/IP Service

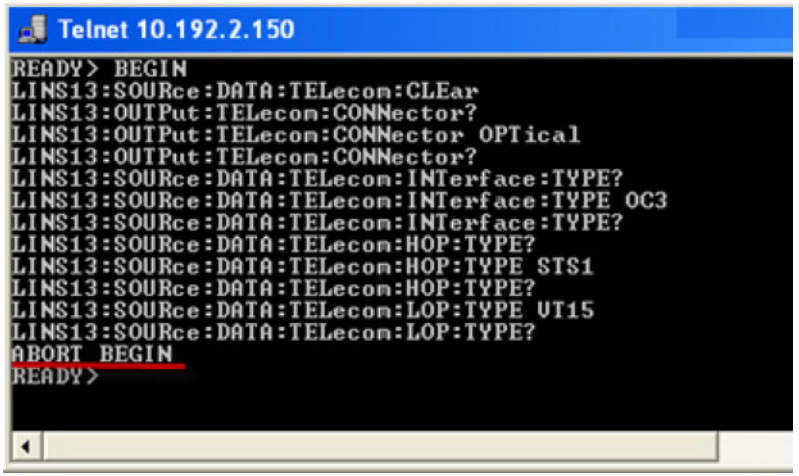
Note: *SCPI over TCP/IP Service Protocol commands are not case sensitive.*

Execution of single command

For executing single command, no protocol is required, simply type or paste the command on command prompt and execute.

Execution of multiple commands (BEGIN and END block)

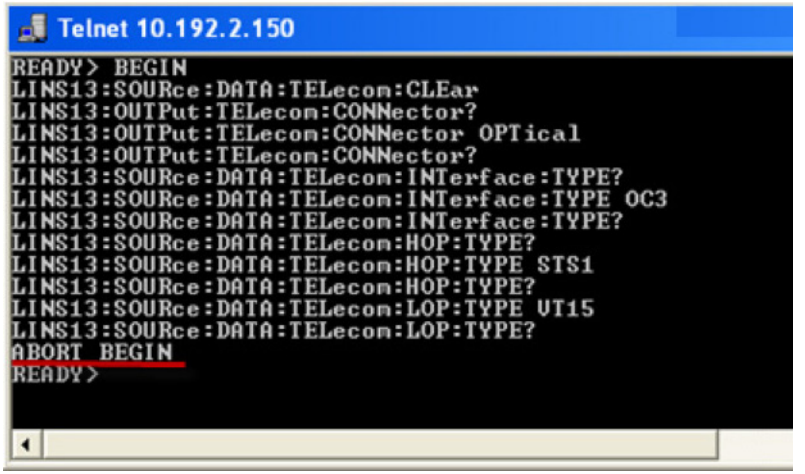
All commands should be entered within the “BEGIN” and “END” block.



Note: *No Protocol commands are valid between Begin and End block except “ABORT BEGIN”*

ABORT BEGIN

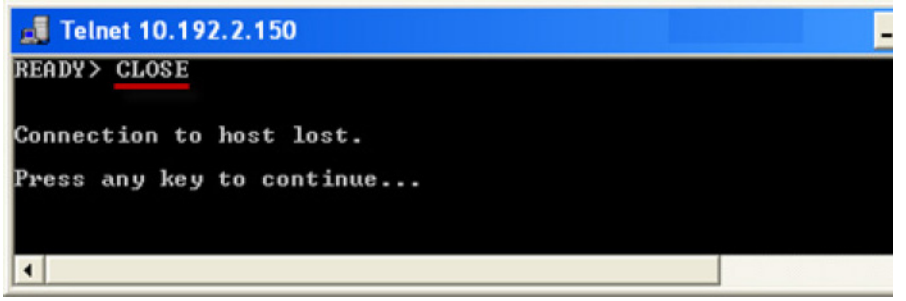
ABORT BEGIN command will terminate the BEGIN ...END blocks, and returns to READY> prompt.



Note: *Except ABORT BEGIN any verb comes between BEGIN END block, that will be treated as a SCPI string.*
Even if any commands script does not contain BEGIN END block, it will execute but with some ambiguity.

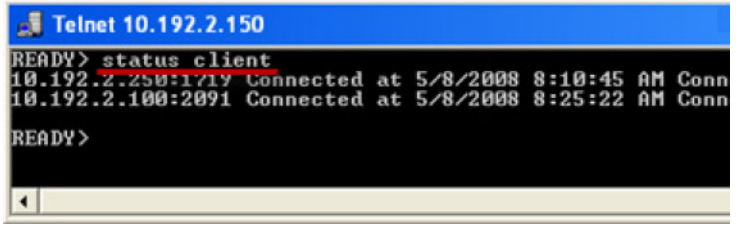
CLOSE

Close command terminates the current client session of Telnet.



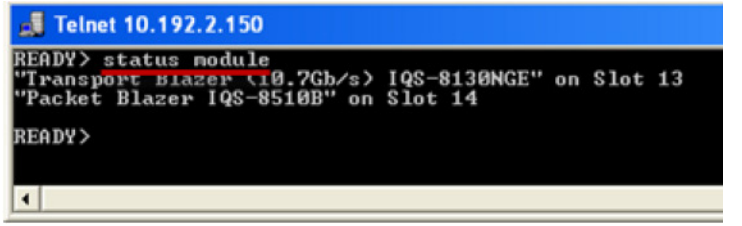
STATUS CLIENT

Status Client lists out the status of clients with connection time and modules connected



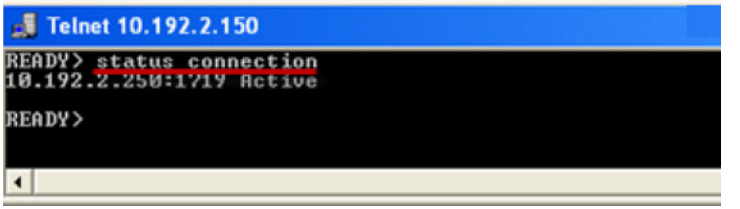
STATUS MODULE

Status Module lists out the status of modules; with the slot numbers where they are connected.



STATUS CONNECTION

Status Connection displays the connection along with status whether it is Active or Idle.



Note: *If any session is idle for a certain period (10 minutes), the service automatically changes its status to "Idle". The Idle time is configurable.*

CONNECT LINS

Syntax: CONNECT LINS[1..n]

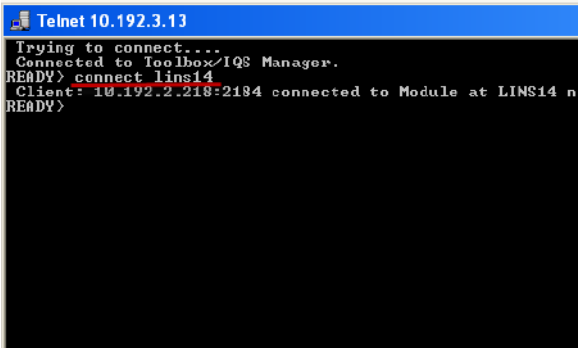
This command will allow the user to connect to different modules through TCP/IP. User can connect to multiple modules from a single Session. Where as, [1..n] denotes the unit number and slot number to which the session will connect.

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

- The module is already connected to different client session.
- Module is not present at said position(LINS[1..n])
- Not a valid LINS.

Note: *To ensure the backward compatibility,*

Connecting to a single module is not compulsorily requiring the "CONNECT LINS" command. A valid instrument command (eg. Lins10:SOURce:DATA:TELecom:CLEar) for a valid lins position will still do fine for first module connectivity. It will compulsory only second module onwards.

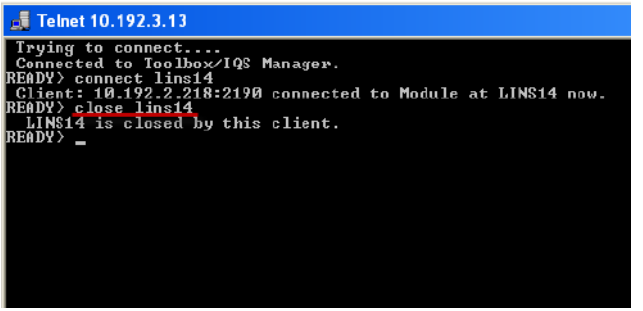


CLOSE LINS

Syntax: CLOSE LINS[1..n]

This command will allow user to close an active connection. User can issue this command to close self as well as different client's connection with any Module.

The possible failure of this commands will be same as CONNECT LINS[1..n]

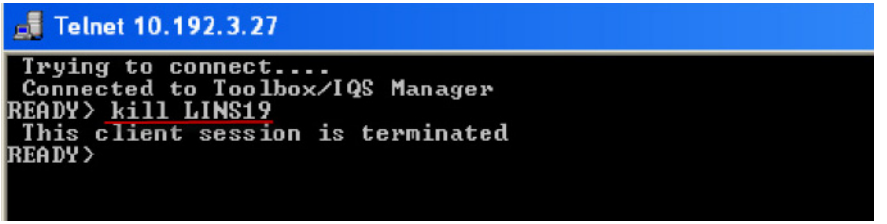


KILL LINS

Syntax: Kill Lins[1..n]

This command allows any user to forcefully disconnect any existing client session.

Where as, [1..n] denotes the unit number and slot number to which the session is connected..

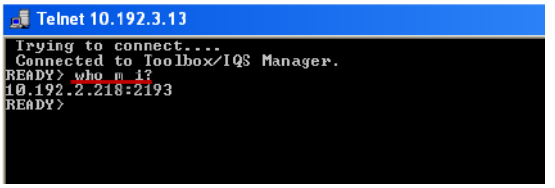


Note: *This command will terminate all active connections along with the Session; that it was connected before.*

WHO M I?

Syntax – WHO M I?

It will retrieve current sessions IP along with Port, through which the session is communicating.

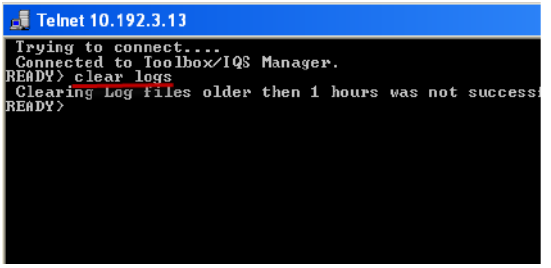


CLEAR LOGS

Syntax: CLEAR LOGS

It will clear all the log files generated under Client as well as Server sessions. Which are older than the 36 hours from the time of “CLEAR LOGS” command.

The Clear Log Duration is configurable



4 SCPI Command Reference for Packet Blazer 8510B

This chapter presents detailed information of the SCPI commands and queries supported by the Packet Blazer 8510B.

IMPORTANT

Since the FTB-400, FTB-500 and IQS-600 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 identification number of the instrument.

FTB-400 backplane identification number

1Y

Instrument slot number:
4-slot backplane: 0 to 3;
8-slot backplane: 0 to 7

FTB-500/IQS-600 backplane identification number

1Y

Instrument slot number:
5-slot backplane: 0 to 4;
10-slot backplane: 0 to 9

For information on modifying unit identification, refer to the *FTB-400 Universal Test System* User Guide, FTB-500 *Intelligent Test System* User Guide and IQS-600 Integrated Qualification System User Guide.

Test Setup Command Reference

:OUTPut[1..n]:TELecom:INTerface	
Description	This command sets the interface of the instrument. At *RST, this value is set to NONE.
Syntax	:OUTPut[1..n]:TELecom:INTerface<wsp><Port>, ELECtrical|OPTical

:OUTPut[1..n]:TELecom:INTerface

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Interface:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:ELECtrical|OPTical.

Selects the interface for the instrument.

ELECtrical, selects Electrical as an interface.

OPTical, selects Optical as an interface.

Example(s)

* OUTP:TEL:INT 1,OPT

* OUTP:TEL:INT? 1 Returns OPTICAL

See Also

* OUTPut[1..n]:TELecom:INTerface?

:OUTPut[1..n]:TELecom:INTerface?

Description

This query returns the interface of the instrument.

At *RST, this value is set to NONE.

Syntax

:OUTPut[1..n]:TELecom:INTerface?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Interface>

:OUTPut[1..n]:TELecom:INTerface?

Response(s)

Interface:

The response data syntax for <Interface> is defined as a <CHARACTER RESPONSE DATA> element.

This query returns the interface type.

ELECTRICAL, Electrical is selected as an interface.

OPTICAL, Optical is selected as an interface.

NONE, No interface is selected.

Example(s)

* OUTP:TEL:INT 1,OPT
* OUTP:TEL:INT? 1 Returns OPTICAL

See Also

* OUTPut[1..n]:TELecom:INTerface

:OUTPut[1..n]:TELecom:PORT:SELect

Description

This command selects the Ethernet port.

At *RST, this value is set to PORT1.

Syntax

:OUTPut[1..n]:TELecom:PORT:SELect<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: PORT1|PORT2.

Selects the port number.

PORT1, selects the Port number 1.

PORT2, selects the Port number 2.

Example(s)

* OUTP:TEL:PORT:SEL PORT1
* OUTP:TEL:PORT:SEL? Returns PORT1

See Also

* OUTPut[1..n]:TELecom:PORT:SELect?
* OUTPut[1..n]:TELecom:INTerface

:OUTPut[1..n]:TELecom:PORT:SELect?

Description

This query returns the selected Ethernet port.

At *RST, this value is set to PORT1.

Syntax

:OUTPut[1..n]:TELecom:PORT:SELect?

Parameter(s)

None.

Response Syntax

<Port>

Response(s)

Port:

The response data syntax for <Port> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the port number.

PORT1, Port number 1 is selected.

PORT2, Port number 2 is selected.

Example(s)

* OUTP:TEL:PORT:SEL PORT1
* OUTP:TEL:PORT:SEL? Returns PORT1

See Also

* OUTPut[1..n]:TELecom:PORT:SELect
* OUTPut[1..n]:TELecom:INTerface

:CONFig[1..n]:DATA:TELecom:LOAD

Description

This command loads the saved test.

This command is an event and has no associated *RST condition or query form.

Syntax

:CONFig[1..n]:DATA:TELecom:LOAD<wsp><Path>

Parameter(s)

Path

The program data syntax for the parameter is defined as a <STRING PROGRAM DATA> element.

Sets the file name.

Example(s)

```
* CONF:DATA:TEL:LOAD "C:\Program Files\
EXFO\ToolBox\UserFiles\PacketBlazer8510B\
Configuration\test.cfg"
```

:SOURce[1..n]:DATA:TELecom:CLEar

Description

This command clears the test.

This command is an event and has no associated *RST condition or query form.

Syntax

:SOURce[1..n]:DATA:TELecom:CLEar

Parameter(s)

None

Example(s)

* SOUR:DATA:TEL:TEST ON
* SOUR:DATA:TEL:CLE

See Also

* SOURce[1..n]:DATA:TELecom:TEST

:SOURce[1..n]:DATA:TELecom:MOUNt

Description

This command mounts the test.

This command is an event and has no associated *RST condition or query form.

Syntax

:SOURce[1..n]:DATA:TELecom:MOUNt

Parameter(s)

None

Example(s)

* SOUR:DATA:TEL:MOUN

See Also

* SOURce[1..n]:DATA:TELecom:TEST
* SOURce[1..n]:DATA:TELecom:CLEar

:SOURce[1..n]:DATA:TELecom:RESet

Description

This command resets the test.

This command is an event and has no associated *RST condition or query form.

Syntax

:SOURce[1..n]:DATA:TELecom:RESet

Parameter(s)

None

Example(s)

* SOUR:DATA:TEL:RES

See Also

* SOURce[1..n]:DATA:TELecom:HRESet

:SOURce[1..n]:DATA:TELecom:HRESet

Description

This command resets the history status of the test.

This command is an event and has no associated *RST condition or query form.

Syntax

:SOURce[1..n]:DATA:TELecom:HRESet

Parameter(s)

None

Example(s)

* SOUR:DATA:TEL:HRES

See Also

* SOURce[1..n]:DATA:TELecom:RESet

:SOURce[1..n]:DATA:TELecom:TEST

Description

This command enables or disables the manual test.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:TEST<wsp><Set>

Parameter(s)

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the manual test.

Example(s)

* SOUR:DATA:TEL:TEST ON

* SOUR:DATA:TEL:TEST? Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:TEST?

:SOURce[1..n]:DATA:TELecom:TEST?

Description	This query returns the status of manual test. At *RST, this value is set to OFF.
Syntax	:SOURce[1..n]:DATA:TELecom:TEST?
Parameter(s)	None
Response Syntax	<Set>
Response(s)	Set: The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the status of manual test.
Example(s)	* SOUR:DATA:TEL:TEST ON * SOUR:DATA:TEL:TEST? Returns 1
See Also	* SOURce[1..n]:DATA:TELecom:TEST

:FETCh[1..n]:DATA:TELecom:TEST:TIME?

Description	This query returns the time elapsed since the beginning of the test. At *RST, this value is device dependent.
Syntax	:FETCh[1..n]:DATA:TELecom:TEST:TIME?
Parameter(s)	None
Response Syntax	<Time>
Response(s)	Time: The response data syntax for <Time> 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? Returns the time elapsed since the beginning of the test.
See Also	* SOURce[1..n]:DATA:TELecom:TEST

:FETCh[1..n]:DATA:TELecom:TEST:GLOBal:HISTory?

Description	This query returns the history status of any alarms/errors related to the test carried out. At *RST, this value is device dependent.
Syntax	:FETCh[1..n]:DATA:TELecom:TEST:GLOBal:HISTory?
Parameter(s)	None
Response Syntax	<History>

:FETCh[1..n]:DATA:TELecom:TEST:GLOBal:HISTory?

Response(s)	History: The response data syntax for <History> is defined as a <CHARACTER RESPONSE DATA> element. Returns the history status of any alarms/errors related to the test. PRESENT, indicates that at least one alarm/error has occurred. ABSENT, indicates that no alarm/error occurred. INACTIVE, indicates that the test did not run yet.
Example(s)	* FETC:DATA:TEL:TEST:GLOB:HIST? Returns the history status of any alarms/errors related to the test.
See Also	* FETCh[1..n]:DATA:TELecom:TEST:GLOBal:CURRent?

:FETCh[1..n]:DATA:TELecom:TEST:GLOBal:CURRent?

Description	This query returns the current status of any alarms/errors related to the test carried out. At *RST, this value is device dependent.
Syntax	:FETCh[1..n]:DATA:TELecom:TEST:GLOBal:CURRent?
Parameter(s)	None
Response Syntax	<Current>

:FETCh[1..n]:DATA:TELecom:TEST:GLOBal:CURRent?

Response(s)

Current:
The response data syntax for <Current> is defined as a <CHARACTER RESPONSE DATA> element.
Returns the current status of any alarms/errors related to the test.
PRESENT, indicates that at least one alarm/error has occurred in the last second.
ABSENT, indicates that there is no alarm/error.
INACTIVE, indicates that the test is not running.

Example(s)

* FETC:DATA:TEL:TEST:GLOB:CURR?
Returns the current status of any alarms/errors related to the test.

See Also

* FETCh[1..n]:DATA:TELecom:TEST:GLOBal:HISTory?

:SOURce[1..n]:DATA:TELecom:ITYPe

Description

This command sets an interface type for the instrument.

At *RST, this value is set to ETHernet.

Syntax

:SOURce[1..n]:DATA:TELecom:ITYPe<wsp>ETHernet|FCHannel

Parameter(s)

Interface:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA>

element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

ETHernet|FCHannel.

Sets the interface type for an instrument.

ETHernet, selects Ethernet 10/100/1000 as an interface type.

FCHannel, selects Fibre Channel as an interface type.

Example(s)

* SOUR:DATA:TEL:ITYP ETH
* SOUR:DATA:TEL:ITYP? Returns ETHERNET

See Also

* SOURce[1..n]:DATA:TELecom:ITYPe?

:SOURce[1..n]:DATA:TELecom:ITYPe?

Description

This query returns an interface type for the instrument.

At *RST, this value is set to ETHernet.

Syntax

:SOURce[1..n]:DATA:TELecom:ITYPe?

Parameter(s)

None

Response Syntax

<Interface>

Response(s)

Interface:

The response data syntax for <Interface> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the interface type for the instrument.

ETHernet, Ethernet 10/100/1000 is selected as an interface type.

FCHannel, Fibre Channel is selected as an interface type.

Example(s)

* SOUR:DATA:TEL:ITYP ETH
* SOUR:DATA:TEL:ITYP? Returns ETHERNET

See Also

* SOURce[1..n]:DATA:TELecom:ITYPe

:SOURce[1..n]:DATA:TELecom:TEST:TYPE

Description

This command selects the application type.

At *RST, this value is set to FANalyzer.

Syntax

:SOURce[1..n]:DATA:TELecom:TEST:TYPE <wsp>FANalyzer|BERT|RFC2544|SLOopback|TCPThroughput| ETHERSAM

:SOURce[1..n]:DATA:TELecom:TEST:TYPE

Parameter(s)

Ttype:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: FANalyzer|BERT|RFC2544|SLOopback|TCPThroughput.

Selects the application type.

FANalyzer, selects Frame Analyzer as an application type.

BERT, selects Bit Error Rate Test (BERT) as an application type.

RFC2544, selects Request for Comments 2544 (RFC2544) as an application type.

SLOopback, selects Smart Loopback as an application type.

TCPThroughput, selects Transport Control Protocol Throughput as an application type.

ETHERSAM, selects TETHERSAM as an application type.

Example(s)

* SOUR:DATA:TEL:TEST:TYPE BERT

* SOUR:DATA:TEL:TEST:TYPE? Returns BERT

See Also

* SOURce[1..n]:DATA:TELecom:TEST:TYPE?

:SOURce[1..n]:DATA:TELecom:TEST:TYPE?

Description	The query returns the application type in discrete form. At *RST, this value is set to FANalyzer.
Syntax	:SOURce[1..n]:DATA:TELecom:TEST:TYPE?
Parameter(s)	None
Response Syntax	<Ttype>

:SOURce[1..n]:DATA:TELecom:TEST:TYPE?

Response(s)

Ttype:

The response data syntax for <Ttype> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the application type.

FANALYZER, Frame analyzer is selected as an application type.

BERT, Bit Error Rate Test is selected as an application type.

RFC2544, Request for Comments 2544 is selected as an application type.

SLOOPBACK, Smart Loopback is selected as an application type.

TCPTHROUGHPUT, Transport Control Protocol Throughput is selected as an application type.

ETHERSAM is selected as an application type.

Example(s)

* SOUR:DATA:TEL:TEST:TYPE BERT

* SOUR:DATA:TEL:TEST:TYPE? Returns BERT

See Also

* SOURce[1..n]:DATA:TELecom:TEST:TYPE

:SOURce[1..n]:DATA:TELecom:TEST:NAME

Description

This command selects the application name.

At *RST, this value is set to Test.

Syntax

:SOURce[1..n]:DATA:TELecom:TEST:NAME <wsp><TNAMe>

Parameter(s)

Tname:
The program data syntax for the parameter is defined as a <STRING PROGRAM DATA> element.
Selects the application name.

Example(s)

* SOUR:DATA:TEL:TEST:NAME "TEST"
* SOUR:DATA:TEL:TEST:NAME? Returns "TEST"

See Also

* SOURce[1..n]:DATA:TELecom:TEST:NAME?

:SOURce[1..n]:DATA:TELecom:TEST:NAME?

Description

The query returns the application name.

At *RST, this value is set to Test.

Syntax

:SOURce[1..n]:DATA:TELecom:TEST:NAME?

Parameter(s)

None.

Response Syntax

<Tname>

Response(s)

Tname:

The response data syntax for <Tname> is defined as a <STRING RESPONSE DATA> element.

Returns the application name.

Example(s)

* SOUR:DATA:TEL:TEST:NAME "TEST"
* SOUR:DATA:TEL:TEST:NAME? Returns "TEST"

See Also

* SOURce[1..n]:DATA:TELecom:TEST:NAME?

:SOURce[1..n]:DATA:TELecom:ETHernet:BERT:FRAMing

Description

This command selects the frame layer type for Bit Error Rate Test (BERT) application.

At *RST, this value is set to NONE.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:BERT:FRAMing<wsp><Port>,UNFRamed|LAYER1|LAYER2

:SOURce[1..n]:DATA:TELecom:ETHernet:BERT:FRAMing

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Layer:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: UNFRamed|LAYER1|LAYER2

Selects the frame layer type for BERT application.

UNFRamed, selects Unframed as frame layer type.

LAYER1, selects Ethernet Framed Layer 1.

LAYER2, selects Ethernet Framed Layer 2.

Example(s)

* SOUR:DATA:TEL:TEST:TYPE BERT

* SOUR:DATA:TEL:ETH:BERT:FRAM 1,LAYER1

* SOUR:DATA:TEL:ETH:BERT:FRAM? 1

Returns LAYER1

:SOURce[1..n]:DATA:TELecom:ETHernet:BERT:FRAMing

See Also

* SOURce[1..n]:DATA:TELecom:TEST:TYPE
* SOURce[1..n]:DATA:TELecom:ETHernet:BERT:FRAMing?

:SOURce[1..n]:DATA:TELecom:ETHernet:BERT:FRAMing?

Description

This query returns the frame layer type for Bit Error Rate Test (BERT) application.

At *RST, this value is set to NONE.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:BERT:FRAMing?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Layer>

:SOURce[1..n]:DATA:TELecom:ETHernet:BERT:FRAMing?

Response(s)

Layer:

The response data syntax for <Layer> is defined as a <CHATRACTER RESPONSE DATA> element.

Returns the frame layer type.

NONE, No frame layer is selected.

UNFRAMED, Unframed is selected.

LAYER1, Ethernet Frame Layer 1 is selected.

LAYER2, Ethernet Frame Layer 2 is selected.

Example(s)

* SOUR:DATA:TEL:TEST:TYPE BERT

* SOUR:DATA:TEL:ETH:BERT:FRAM 1,LAYER1

* SOUR:DATA:TEL:ETH:BERT:FRAM? 1

Returns LAYER1

See Also

* SOURce[1..n]:DATA:TELecom:TEST:TYPE

* SOURce[1..n]:DATA:TELecom:ETHernet:BERT:FRAMing

:SOURce[1..n]:DATA:TELecom:ETHernet:UNFRamed:SYNChronize

Description

This command enables or disables the synchronization of unframed layer.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:UNFRamed:SYNChronize<wsp><Port>,<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:UNFRamed:SYNChronize

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the synchronization.

Example(s)

* SOUR:DATA:TEL:TEST:TYPE BERT

* SOUR:DATA:TEL:ETH:BERT:FRAM 1,UNFR

* SOUR:DATA:TEL:ETH:UNFR:SYNC 1,ON

* SOUR:DATA:TEL:ETH:UNFR:SYNC? 1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:UNFRamed:SYNChronize?

:SOURce[1..n]:DATA:TELecom:ETHernet:UNFRamed:SYNChronize?

Description

This query returns the status of synchronization of unframed layer.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:

UNFRamed:SYNChronize?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:UNFRamed:SYNChronize?

Response	Set: The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the status of synchronization.
Example(s)	* SOUR:DATA:TEL:TEST:TYPE BERT * SOUR:DATA:TEL:ETH:BERT:FRAM 1,UNFR * SOUR:DATA:TEL:ETH:UNFR:SYNC 1,ON * SOUR:DATA:TEL:ETH:UNFR:SYNC? 1 Returns 1
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:UNFRamed:SYNChronize

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:BANDwidth

Description

This command sets the transmitted bandwidth for the selected instrument port.

At *RST, this value is set to B100MBPS.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:BANDwidth<wsp><Port>,B10MBPS|B100MBPS|B1GBPS

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:BANDwidth

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Bandwidth:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

B10MBPS|B100MBPS|B1GBPS.

Selects the speed of the module.

B10MBPS, selects 10 Mbps speed.

B100MBPS, selects 100 Mbps speed.

B1GBPS, selects 1 Gbps speed.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:BAND 1,B1GBPS

* SOUR:DATA:TEL:ETH:PORT:BAND? 1

Returns B1GBPS

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:BANDwidth?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:BANDwidth?

Description

This query returns the value of transmitted bandwidth for the selected instrument.

At *RST, this value is set to B100MBPS.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:BANDwidth?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Bandwidth>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:BANDwidth?

Response(s)

Bandwidth:

The response data syntax for <Bandwidth> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the bandwidth in bps.

B10MBPS, 10 Mbps speed is selected.

B100MBPS, 100 Mbps speed is selected.

B1GBPS, 1 Gbps speed is selected.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:BAND 1,B1GBPS

* SOUR:DATA:TEL:ETH:PORT:BAND? 1

Returns B1GBPS

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:BANDwidth

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DHCP

Description

This command enables or disables the Dynamic Host Configuration Protocol (DHCP).

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DHCP<wsp><Port>,<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DHCP

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the Dynamic Host Configuration Protocol (DHCP).

Example(s)

* SOUR:DATA:TEL:ETH:PORT:DHCP 1,ON

* SOUR:DATA:TEL:ETH:PORT:DHCP? 1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DHCP?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DHCP?

Description

This query returns the status of Dynamic Host Configuration Protocol (DHCP).

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DHCP?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DHCP?

Response (s)	Set: The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the status of the Dynamic Host Configuration Protocol (DHCP).
Example(s)	* SOUR:DATA:TEL:ETH:PORT:DHCP 1,ON * SOUR:DATA:TEL:ETH:PORT:DHCP? 1 Returns 1
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DHCP

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DUPLex

Description	This command sets the duplex mode for the selected instrument port. At *RST, this value is set to FULL.
Syntax	:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DUPLex<wsp><Port>,FULL|HALF

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DUPLex

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Duplex:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: FULL|HALF.

Selects the duplex mode for the instrument.

FULL, selects the Full Duplex mode.

HALF, selects the Half Duplex mode.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:DUPL 1,HALF

* SOUR:DATA:TEL:ETH:PORT:DUPL? 1

Returns HALF

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DUPLex?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DUPLex?

Description

This query returns the duplex mode for the selected instrument port.

At *RST, this value is set to FULL.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DUPLex?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Duplex>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DUPLex?

Response(s)

Duplex:

The response data syntax for <Duplex> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the duplex mode.

FULL, Full Duplex mode is selected.

HALF, Half Duplex mode is selected.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:DUPL 1,HALF

* SOUR:DATA:TEL:ETH:PORT:DUPL? 1

Returns HALF

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DUPLex

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:FCONtrol

Description

This command selects the flow control of the connected interface.

At *RST, this value is set to NONE.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:FCONtrol<wsp><Port>, NONE|TXRX

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:FCONtrol

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Control:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: NONE|TXRX.

Selects the flow control.

NONE, no flow control is selected.

TXRX, selects the flow control from transmitter to receiver.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:FCON 1,TXRX

* SOUR:DATA:TEL:ETH:PORT:FCON? 1

Returns TXRX

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:FCONtrol?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:FCONtrol?

Description

This query returns the flow control of the connected interface.

At *RST, this value is set to NONE.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:FCONtrol?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Control>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:FCONtrol?

Response(s)	Control: The response data syntax for <Control> is defined as a <CHARACTER RESPONSE DATA> element. Returns the flow control. NONE, no flow control is selected. TXRX, flow control from transmitter to receiver is selected.
Example(s)	* SOUR:DATA:TEL:ETH:PORT:FCON 1,TXRX * SOUR:DATA:TEL:ETH:PORT:FCON? 1 Returns TXRX
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:FCONtrol

:SOURce[1..n]:DATA:TELecom:PORT:TOPology

Description

This command sets the topology for the instrument.

At *RST, this value is set to SINGle.

Syntax

:SOURce[1..n]:DATA:TELecom:PORT:TOPology <wsp>SINGle|DUAL

Parameter(s)

Topology:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: SINGle|DUAL.

Selects the port.

SINGle, selects the port as Single.

DUAL, selects the port as Dual.

Example(s)

* SOUR:DATA:TEL:PORT:TOP SING

* SOUR:DATA:TEL:PORT:TOP? Returns SINGLE

See Also

* SOURce[1..n]:DATA:TELecom:PORT:TOPology?

:SOURce[1..n]:DATA:TELecom:PORT:TOPology?

Description

This query returns the topology for the selected instrument.

At *RST, this value is set to SINGle.

Syntax

:SOURce[1..n]:DATA:TELecom:PORT:TOPology?

Parameter(s)

None.

Response Syntax

<Topology>

Response(s)

Topology:

The response data syntax for <Topology> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the port.

SINGLE, Single is selected as topology.

DUAL, Dual is selected as topology.

Example(s)

* SOUR:DATA:TEL:PORT:TOP SING

* SOUR:DATA:TEL:PORT:TOP? Returns SINGLE

See Also

* SOURce[1..n]:DATA:TELecom:PORT:TOPology

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:DUALtest

Description

This command enables or disables the Dual Test Set (controls a remote IQS/FTB-8510B or a compatible module).

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:DUALtest<wsp><Set>

Parameter(s)

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the Dual Test Set.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:DUAL ON

* SOUR:DATA:TEL:ETH:RFC:DUAL? Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:DUALtest?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:DUALtest?

Description	This query returns the status of Dual Test Set (controls a remote IQS/FTB-8510B or a compatible module). At *RST, this value is set to OFF.
Syntax	:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:DUALtest?
Parameter(s)	None
Response Syntax	<Set>
Response(s)	Set: The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the status of Dual Test set.
Example(s)	* SOUR:DATA:TEL:ETH:RFC:DUAL ON * SOUR:DATA:TEL:ETH:RFC:DUAL? Returns 1
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:DUALtest

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:MODE

Description

This command selects the mode type for Dual Test Set.

At *RST, this value is set to LOCal.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:MODE<wsp>LOCal|REMote

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:MODE

Parameter(s)

Mode:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LOCal|REMote

Selects the mode type for dual test set.

LOCal, selects Local as dual test set mode.

REMote, selects Remote as dual test set mode.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:DUAL ON

* SOUR:DATA:TEL:ETH:RFC:MODE LOC

* SOUR:DATA:TEL:ETH:RFC:MODE?

Returns LOCAL

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:MODE?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:MODE?

Description	This query returns the mode type for Dual Test Set. At *RST, this value is set to LOCal.
Syntax	:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:MODE?
Parameter(s)	None
Response Syntax	<Mode>

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:MODE?

Response(s)

Mode:

The response data syntax for <Mode> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the mode type for dual test set.

LOCAL, Local is selected as dual test set mode.

REMOTE, Remote is selected as dual test set mode.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:DUAL ON

* SOUR:DATA:TEL:ETH:RFC:MODE LOC

* SOUR:DATA:TEL:ETH:RFC:MODE?

Returns LOCAL

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:MODE

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:ID

Description

This command sets ID for IQS/FTB-8510B unit.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:ID<wsp><Id>

Parameter(s)

Id:

The program data syntax for the parameter is defined as a <STRING PROGRAM DATA> element.
Sets the ID for IQS/FTB-8510B unit.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:REM:ID "EXF"

* SOUR:DATA:TEL:ETH:RFC:REM:ID?

Returns "EXF"

Note

Remote ID is available when Remote mode is selected.

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:ID?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:ID?

Description

This query returns the ID for IQS/FTB-8510B unit.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:ID?

Parameter(s)

None

Response Syntax

<Id>

Response(s)

Id:

The response data syntax for <Id> is defined as a <STRING RESPONSE DATA> element.

Returns the ID for IQS/FTB-8510B unit.

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:ID?

Example(s)	* SOUR:DATA:TEL:ETH:RFC:REM:ID "EXF" * SOUR:DATA:TEL:ETH:RFC:REM:ID? Returns "EXF"
Note	Remote ID is available when Remote mode is selected.
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:ID

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:BDEStination

Description

This command sets subnet mask of the network to be scanned, based on the IP address and subnet of its interface.

At *RST, this value is set to "255.255.255.255".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:BDEStination<wsp><Bdestination>

Parameter(s)

Bdestination:

The program data syntax for the parameter is defined as a <STRING PROGRAM DATA> element.
Sets subnet mask of the network.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:REM:BDES "255:255:255:255"

* SOUR:DATA:TEL:ETH:RFC:REM:BDES?

Returns "255:255:255:255"

Note

Broadcast Destination is available only when the IP Version is set to IPv4.

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:BDEStination?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:BDEStination?

Description

This query returns the subnet mask of the network to be scanned, based on the IP address and subnet of its interface.

At *RST, this value is set to "255.255.255.255".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:BDEStination?

Parameter(s)

None

Response Syntax

<Bdestination>

Response(s)

Bdestination:

The response data syntax for <Bdestination> is defined as a <STRING RESPONSE DATA> element.
Returns the subnet mask of the network.

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:BDEStination?

Example(s)	* SOUR:DATA:TEL:ETH:RFC:REM:BDES "255:255:255:255" * SOUR:DATA:TEL:ETH:RFC:REM:BDES? Returns "255:255:255:255"
Note	Broadcast Destination is available only when the IP Version is set to IPv4.
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:BDEStination

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:SSUBnet

Description

This command enables or disables the Scan Subnet button. This button allows to scan the subnet to find remote IQS/FTB-8510B or compatible modules.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:SSUBnet<wsp><Set>

Parameter(s)

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the Scan Subnet.

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:SSUBnet

Example(s)	* SOUR:DATA:TEL:ETH:RFC:REM:SSUB ON * SOUR:DATA:TEL:ETH:RFC:REM:SSUB? Returns 1
Note	Only modules having Remote Dual Test Set mode enabled will be listed.
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:SSUBnet?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:SSUBnet?

Description

This query returns the status of Scan Subnet button. This button allows to scan the subnet to find remote IQS/FTB-8510B or compatible modules.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:SSUBnet?

Parameter(s)

None

Response Syntax

<Set>

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of Scan Subnet button.

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:SSUBnet?

Example(s)	* SOUR:DATA:TEL:ETH:RFC:REM:SSUB ON * SOUR:DATA:TEL:ETH:RFC:REM:SSUB? Returns 1
Note	Only modules having Remote Dual Test Set mode enabled will be listed.
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:SSUBnet

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:CONNect

Description

This command establishes the connection with the remote module.

This command is an event and is not associated with *RST condition or query form.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:CONNect<wsp><Ip>

Parameter(s)

Ip:

The program data syntax for the parameter is defined as a <STRING PROGRAM DATA> element.
Selects the IP address of remote module.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:REM:CONN "10.192.2.2"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:DISConnect

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:DISConnect

Description

This command disconnects the established connection from the remote module.

This command is an event and is not associated with *RST condition or query form.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:DISConnect<wsp><Ip>

Parameter(s)

Ip:

The program data syntax for the parameter is defined as a <STRING PROGRAM DATA> element.
Selects the IP address of remote module.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:REM:DISC "10.192.2.2"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:CONNect

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:REMote:STATus?

Description	This query returns the detected remote IQS/FTB-8510B or a compatible module status. At *RST, this value is device dependent.
Syntax	:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:REMote:STATus?
Parameter(s)	None
Response Syntax	<Status>

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:REMote:STATus?

Response(s)

Status:

The response data syntax for <Status> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the status of the remote module.

FREE, Free denotes that the remote module is not connected to another module.

BUSY, Busy denotes that the remote module is connected to another module.

CONNECTED, Connected denotes that the remote module is connected to the current module.

IPNFOUND, IP Not Found denotes that the remote module's IP is not found.

INCVERSION, Incompatible Version denotes that the remote module version is not compatible.

Example(s)

* FETC:DATA:TEL:ETH:RFC:REM:STAT?

Returns the remote module status.

See Also

* FETCh[1..n]:DATA:TELecom:ETHernet:RFC:REMote:IP?

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:REMote:IP?

Description

This query returns the selected unit's IP address.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:REMote:IP?

Parameter(s)

None

Response Syntax

<Ip>

Response(s)

Ip:

The response data syntax for <Ip> is defined as a <STRING RESPONSE DATA> element.

Returns the selected unit's IP address.

Example(s)

* FETC:DATA:TEL:ETH:RFC:REM:IP?

Returns the remote IP address.

See Also

* FETCh[1..n]:DATA:TELecom:ETHernet:RFC:REMote:ID?

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:REMote:ID?

Description

This query returns the selected unit's remote ID.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:REMote:ID?

Parameter(s)

None

Response Syntax

<Id>

Response(s)

Id:

The response data syntax for <Id> is defined as a <STRING RESPONSE DATA> element.

Returns the selected unit's remote ID.

Example(s)

* FETC:DATA:TEL:ETH:RFC:REM:ID?

Returns the remote ID.

See Also

* FETCh[1..n]:DATA:TELecom:ETHernet:RFC:REMote:IP?

:SOURce[1..n]:DATA:TELecom:THRough

Description

This command enables or disables the Through mode.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:REMote:DISConnect<wsp><Ip>

Parameter(s)

Set:
The program data syntax for the parameter is defined as a <Boolean Program Data> element. Enables or disables the Through mode.

Example(s)

* SOUR:DATA:TEL:THR ON
* SOUR:DATA:TEL:THR? Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:COUPled
* SOURce[1..n]:DATA:TELecom:THRough?
* SOURce[1..n]:DATA:TELecom:INTRusive

:SOURce[1..n]:DATA:TELecom:THRough?

Description This query returns the status of Through mode.

At *RST, this value is set to OFF.

Syntax :SOURce[1..n]:DATA:TELecom:THRough?

Parameter(s) None

Response Syntax <Set>

Response(s) Set:
The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.
Returns the status of the Through mode.

Example(s)
* SOUR:DATA:TEL:COUP ON
* SOUR:DATA:TEL:THR ON
* SOUR:DATA:TEL:THR? Returns 1

See Also
* SOURce[1..n]:DATA:TELecom:COUPled
* SOURce[1..n]:DATA:TELecom:THRough
* SOURce[1..n]:DATA:TELecom:INTRusive

Clock Synchronization Command Reference

:OUTPut[1..n]:TELecom:CODE	
Description	This command sets the external timing line code for the output port. At *RST, this value is set to B8ZS.
Syntax	:OUTPut[1..n]:TELecom:CODE<wsp>B8ZS|HDB3|AMI

:OUTPut[1..n]:TELecom:CODE

Parameter(s)

Code:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

B8ZS|HDB3|AMI.

Sets the external timing line code.

B8ZS, selects B8ZS as external timing line code.

HDB3, selects HDB3 as external timing line code.

AMI, selects AMI as external timing line code.

Example(s)

* OUTP:TEL:LEV DS1L
* OUTP:TEL:CODE HDB3
* OUTP:TEL:CODE? Returns HDB3

See Also

* OUTPut[1..n]:TELecom:CODE?

:OUTPut[1..n]:TELecom:CODE?

Description	This query returns the external timing line code for the output port. At *RST, this value is set to B8ZS.
Syntax	:OUTPut[1..n]:TELecom:CODE?
Parameter(s)	None
Response Syntax	<Code>

:OUTPut[1..n]:TELecom:CODE?

Response(s)

Code:

The response data syntax for <Code> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the external timing line code.

B8ZS1, 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[1..n]:TELecom:CODE

:OUTPut[1..n]:TELecom:FRAMing

Description

This command selects the interface framing.

At *RST, this value is set to SF.

Syntax

:OUTPut[1..n]:TELecom:FRAMing<wsp>SF|
ESF1|PCM30|PCM30CRC|PCM31|PCM31CRC

Parameter(s)

Framing:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

SF|ESF1|PCM30|PCM30CRC|PCM31|
PCM31CRC.

Selects the interface framing.

SF, selects the SF (Superframe) as interface framing

ESF1, selects the ESF (Extended Superframe) as interface framing.

PCM30, selects the PCM30 (Pulse Code Modulation) as interface framing.

PCM30CRC, selects the PCM30 (Pulse Code Modulation) CRC (Cyclic Redundancy Check) as interface framing.

:OUTPut[1..n]:TELecom:FRAMing

PCM31 selects the PCM31 (Pulse Code Modulation) as interface framing.

PCM31CRC, selects the PCM31(Pulse Code Modulation) CRC (Cyclic Redundancy Check) as interface framing

Example(s)

* OUTP:TEL:LEV DS1L
* OUTP:TEL:FRAM ESF1
* OUTP:TEL:FRAM? Returns ESF1

See Also

* OUTPut[1..n]:TELecom:LEVel
* OUTPut[1..n]:TELecom:FRAMing?

:OUTPut[1..n]:TELecom:FRAMing?

Description

This query returns the interface framing.

At *RST, this value is set to SF.

Syntax

:OUTPut[1..n]:TELecom:FRAMing?

Parameter(s)

None

Response Syntax

<Framing>

Response(s)

Framing:

The response data syntax for <Framing> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the interface framing.

SF, Superframe (SF) is selected.

ESF1, Extended Superframe (ESF) is selected.

PCM30, Pulse Code Modulation (PCM30) is selected.

PCM30CRC, Pulse Code Modulation (PCM30) Cyclic Redundancy Check (CRC) is selected.

PCM31, Pulse Code Modulation (PCM31) is selected.

:OUTPut[1..n]:TELecom:FRAMing?

PCM31CRC, Pulse Code Modulation (PCM31) Cyclic Redundancy Check (CRC) is selected.

Example(s)

* OUTP:TEL:LEV DS1L
* OUTP:TEL:FRAM ESF1
* OUTP:TEL:FRAM? Returns ESF1

See Also

* OUTPut[1..n]:TELecom:LEVel
* OUTPut[1..n]:TELecom:FRAMing

:OUTPut[1..n]:TELecom:LEVel

Description	This command sets the external timing interface output level for the output port. At *RST, this value is set to NONE.
Syntax	:OUTPut[1..n]:TELecom:LEVel<wsp>NONE|DS1LEVEL|E1

:OUTPut[1..n]:TELecom:LEVel

Parameter(s)

Level:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

NONE|DS1LEVEL|E1.

Selects the external timing interface output level.

NONE, No external timing interface output level is selected.

DS1LEVEL, selects DS1 (Digital Signal-level 1) as external timing interface output level.

E1, selects the E1 as the external timing interface output level.

Example(s)

* OUTP:TEL:LEV DS1LEVEL

* OUTP:TEL:LEV? Returns DS1LEVEL

See Also

* OUTPut[1..n]:TELecom:LEVel?

:OUTPut[1..n]:TELecom:LEVel?

Description	This query returns the external timing interface output level for the output port. At *RST, this value is set to NONE.
Syntax	:OUTPut[1..n]:TELecom:LEVel?
Parameter(s)	None
Response Syntax	<Level>

:OUTPut[1..n]:TELecom:LEVel?

Response(s)

Level:

The response data syntax for <Level> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the external timing interface output level.

NONE, No external timing interface output level is selected.

DS1LEVEL, Digital Signal-level 1 (DS1) as external timing interface output level is selected.

E1, E1 as the external timing interface output level is selected.

Example(s)

* OUTP:TEL:LEV DS1L

* OUTP:TEL:LEV? Returns DS1LEVEL

See Also

* OUTPut[1..n]:TELecom:LEVel

:OUTPut[1..n]:TELecom:TERMination

Description

This command sets the termination mode for the external timing.

At *RST, this value is set to TERM.

Syntax

:OUTPut[1..n]:TELecom:TERMination<wsp>
TERM

Parameter(s)

Termination:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: TERM.

Sets the termination mode.

TERM, selects the Term as termination mode.

Example(s)

* OUTP:TEL:LEV DS1L

* OUTP:TEL:TERM TERM

* OUTP:TEL:TERM? Returns TERM

See Also

* OUTPut[1..n]:TELecom:TERMination?

:OUTPut[1..n]:TELecom:TERMination?

Description

This query returns the termination mode.

At *RST, this value is set to TERM.

Syntax

:OUTPut[1..n]:TELecom:TERMination?

Parameter(s)

None

Response Syntax

<Termination>

Response(s)

Termination:

The response data syntax for <Termination> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the termination mode.

TERM, Term as termination mode is selected.

Example(s)

* OUTP:TEL:LEV DS1L

* OUTP:TEL:TERM TERM

* OUTP:TEL:TERM? Returns TERM

See Also

* OUTPut[1..n]:TELecom:TERMination

:OUTPut[1..n]:TELecom:CLOCk:ALARm:STATus?

Description

This query returns the clock alarm status for the output port.

At *RST, this value is device dependent.

Syntax

:OUTPut[1..n]:TELecom:CLOCk:ALARm:
STATus?<wsp>LOS|AIS|LOF|FREQuency

Parameter(s)

Alarm:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LOS|AIS|LOF|FREQuency.

Sets the clock alarm status.

LOS, selects LOS (Loss Of Signal) as the alarm status.

AIS, selects AIS (Alarm Indication Signal) as the alarm status.

LOF, selects LOF(Loss Of Frequency) as the alarm status.

FREQuency, selects frequency as the clock alarm status.

:OUTPut[1..n]:TELecom:CLOCk:ALARm:STATus?

Response Syntax <Status>

Response(s)

Status:

The response data syntax for <Status> is defined as <CHARACTER RESPONSE DATA> element.

Returns the clock alarm status.

PRESENT, indicates that at least one alarm/error has occurred.

ABSENT, indicates that no alarm/error occurred.

INACTIVE, indicates that the test did not run yet.

Example(s)

* OUTP:TEL:LEV DS1LEVEL

* OUTP:TEL:CLOC:ALAR:STAT? LOS Returns the clock alarm status for the output port.

:OUTPut[1..n]:TELecom:CLOCk:FREQuency?

Description

This query returns the received signal rate.

At *RST, this value is device dependent.

Syntax

:OUTPut[1..n]:TELecom:CLOCk:FREQuency?

Parameter(s)

None

Response Syntax

<Frequency>

Response(s)

Frequency:

The response data syntax for <Frequency> is defined as <NR2 NUMERIC RESPONSE DATA> element.

Returns the received signal rate.

Example(s)

* OUTP:TEL:LEV DS1LEVEL

* OUTP:TEL:CLOC:FREQ? Returns the received signal rate.]

See Also

* OUTPut[1..n]:TELecom:CLOCk:FREQuency:OFFSet?

:OUTPut[1..n]: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, this value is device dependent.

Syntax

:OUTPut[1..n]:TELecom:CLOCk:FREQuency:OFFSet?

Parameter(s)

None

Response Syntax

<Offset>

Response(s)

Offset:

The response data syntax for <Offset> is defined as <STRING RESPONSE DATA> element.

Returns the frequency offset.

Example(s)

* OUTP:TEL:LEV DS1LEVEL

* OUTP:TEL:CLOC:FREQ:OFFS? Returns the offset value of the frequency.

See Also

* OUTPut[1..n]:TELecom:CLOCk:FREQuency?

:INPut[1..n]:TELecom:BACKplane:CLOCk

Description

This command sets the backplane 8 kHz clock mode for synchronization at the input port.

At *RST, this value is set to INTERNAL.

Syntax

:INPut[1..n]:TELecom:BACKplane:CLOCk <wsp>INTernal|EXTernal|RECovered

:INPut[1..n]:TELecom:BACKplane:CLOCk

Parameter(s)

Clock:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

INTernal|EXTernal|RECovered

Sets the backplane 8 kHz clock mode for synchronization.

INTernal, indicates the internal clock of the unit (STRATUM 3).

EXTernal, indicates the clock received from the connected DS1/E1/2M external clock signal (port).

RECovered, indicates the live clock from the optical/electrical port input signal involved in the test.

Example(s)

* INP:TEL:BACK:CLOC REC

* INP:TEL:BACK:CLOC? Returns: RECOVERED

See Also

* INPut[1..n]:TELecom:BACKplane:CLOCk?

:INPut[1..n]:TELecom:BACKplane:CLOCk?

Description	This query returns the backplane 8 kHz clock mode at the input port. At *RST, this value is set to INTERNAL.
Syntax	:INPut[1..n]:TELecom:BACKplane:CLOCk?
Parameter(s)	None
Response Syntax	<Status>

:INPut[1..n]:TELecom:BACKplane:CLOCk?

Response(s)

Clock:

The response data syntax for <Status> is defined as <CHARACTER RESPONSE DATA> element.

Returns the backplane 8 kHz clock mode.

INTERNAL, indicates the internal clock of the unit (STRATUM 3).

EXTERNAL, indicates the clock received from the connected DS1/E1/2M external clock signal (port).

RECOVERED, indicates the live clock from the optical/electrical port input signal involved in the test.

Example(s)

* INP:TEL:BACK:CLOC REC

* INP:TEL:BACK:CLOC? Returns: RECOVERED

See Also

* INPut[1..n]:TELecom:BACKplane:CLOCk

:INPut[1..n]:TELecom:BACKplane

Description	This command sets the configuration of the backplane 8 kHz clock that will be generated when enabled. At *RST, this value is set to OFF.
Syntax	:INPut[1..n]:TELecom:BACKplane
Parameter(s)	Set: The program data syntax for the parameter is defined as a <Boolean Program Data> element. Enables or disables the configuration of the backplane 8 kHz clock.
Example(s)	* INP:TEL:BACK ON * INP:TEL:BACK? Returns: 1
See Also	* INPut[1..n]:TELecom:BACKplane?

:INPut[1..n]:TELecom:BACKplane?

Description

This query returns the status of the backplane 8 kHz clock synchronization.

At *RST, this value is set to OFF.

Syntax

:INPut[1..n]:TELecom:BACKplane?

Parameter(s)

None

Response Syntax

<Set>

Response(s)

Set:

The response data syntax for <Set> is defined as <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of the backplane 8 kHz clock synchronization.

Example(s)

* INP:TEL:BACK ON

* INP:TEL:BACK? Returns: 1

See Also

* INPut[1..n]:TELecom:BACKplane

:INPut[1..n]:TELecom:BACKplane:ALARm:STATus?

Description

This query returns the status whether the module is able to synchronize with the selected backplane 8 kHz clock or not.

At *RST, this value is device dependent.

Syntax

:INPut[1..n]:TELecom:BACKplane:ALARm:STATus?<wsp>LOC

Parameter(s)

Alarm:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter is:

LOC

Sets the status of the backplane 8 kHz clock for synchronization.

LOC, selects the LOC (Loss Of Clock) as the alarm status for the input port.

:INPut[1..n]:TELecom:BACKplane:ALARm:STATus?

Response Syntax <Status>

Response(s) Status:

The response data syntax for <Status> is defined as <CHARACTER RESPONSE DATA> element.

Returns the status of the clock synchronization.

PRESENT, indicates the module is able to synchronize with the selected test clock.

ABSENT, indicates the module is not able to synchronize with the selected test clock.

Example(s) * INP:TEL:BACK:ALAR:STAT? LOS Returns the status of the clock synchronization.

:OUTPut[1..n]:TELecom:REFoutput:FREQuency?

Description	This query returns the generated frequency at the REF OUT port. At *RST, this value is device dependent.
Syntax	:OUTPut[1..n]:TELecom:REFoutput:FREQuency?
Parameter(s)	None
Response Syntax	<Frequency>
Response(s)	Frequency: The response data syntax for <Frequency> is defined as <NR2 NUMERIC RESPONSE DATA> element. Returns the generated frequency.
Example(s)	* OUTP:TEL:REF:FREQ? Returns the generated frequency.

:OUTPut[1..n]:TELecom:REFoutput:SIGNal:STATus?

Description

This query returns the status of the signal at the REF OUT port.

At *RST, this value is device dependent.

Syntax

:OUTPut[1..n]:TELecom:REFoutput:SIGNal:STATus?<wsp>OUTPut

Parameter(s)

Alarm:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter is:

OUTPut

Sets the status of the signal.

OUTPut, selects output as the status of the signal.

:OUTPut[1..n]:TELecom:REFoutput:SIGNal:STATus?

Response Syntax <Status>

Response(s) Status:

The response data syntax for <Status> is defined as <CHARACTER RESPONSE DATA> element.

Returns the status of a signal.

PRESENT, indicates the signal is present.

ABSENT, indicates the signal is absent.

Example(s) * OUTP:TEL:REF:SIGN:STAT? OUTP Returns the status of the signal.

:OUTPut[1..n]:TELecom:REFoutput:DRATio

Description

This command sets the selection of the transmit test clock divider ratio.

At *RST, this value is set to C16.

Syntax

:OUTPut[1..n]:TELecom:REFoutput:DRATio <wsp>C16|C32|C64

:OUTPut[1..n]:TELecom:REFoutput:DRATio

Parameter(s)

Dratio:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

C16|C32|C64

Sets the ratio for the clock output frequency.

C16, selects C16 as the ratio for the clock output frequency.

C32, selects C32 as the ratio for the clock output frequency.

C64, selects C64 as the ratio for the clock output frequency.

Example(s)

* OUTP:TEL:REF:DRAT C16

* OUTP:TEL:REF:DRAT? Returns C16

See Also

* OUTPut[1..n]:TELecom:REFoutput:DRATio?

:OUTPut[1..n]:TELecom:REFoutput:DRATio?

Description	This query returns the transmit test clock divider ratio. At *RST, this value is set to C16.
Syntax	:OUTPut[1..n]:TELecom:REFoutput:DRATio?
Parameter(s)	None
Response Syntax	<Dratio>

:OUTPut[1..n]:TELecom:REFoutput:DRATio?

Response(s)

Dratio:

The response data syntax for <Dratio> is defined as <CHARACTER RESPONSE DATA> element.

Returns the transmit test clock divider ratio.

C16, selects C16 as the ratio for the clock output frequency.

C32, selects C32 as the ratio for the clock output frequency.

C64, selects C64 as the ratio for the clock output frequency.

Example(s)

* OUTP:TEL:REF:DRAT C16

* OUTP:TEL:REF:DRAT? Returns C16

See Also

* OUTPut[1..n]:TELecom:REFoutput:DRATio

Port Command Reference

:SOURce[1..n]:DATA:TELecom:OPTical:PORT:FREQuency?

Description

This query returns frequency of input signal for the transmitter.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:OPTical:PORT:FREQuency?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:SOURce[1..n]:DATA:TELecom:OPTical:PORT:FREQuency?

Response Syntax <Frequency>

Response(s) Frequency:

The response data syntax for <Frequency> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns frequency of input signal for the transmitter.

Example(s) * SOUR:DATA:TEL:OPT:PORT:FREQ? 1

Returns the frequency of the input signal.

:SOURce[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:NOMinal?

Description

This query returns the nominal frequency of the input signal.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:NOMinal?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Frequency>

Response(s)

Frequency:

The response data syntax for <Frequency> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the nominal frequency of the input signal.

Example(s)

* SOUR:DATA:TEL:OPT:PORT:FREQ:NOM? 1

Returns the nominal frequency.

:SOURce[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue

Description

This command sets the offset value between the standard rate specification and the rate of input signal for the transmitter of optical port.

At *RST, this value is set to 0.

Syntax

:SOURce[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue<wsp><Port>,<Value>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Value:

The program data syntax for the second parameter is defined as a <numeric_value> element.

The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.

MAXimum allows to set the instrument to the greatest supported value.

MINimum allows to set the instrument to the smallest supported value.

Sets the offset value between the standard rate specification and the rate of input signal for transmitter of optical port.

Choices are -120 through +120.

Example(s)

* SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:VAL 1,15
* SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:VAL? 1
Returns 15

See Also

* SOURce[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue?

:SOURce[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue?

Description

This query returns the offset value between the standard rate specification and the rate of input signal for the transmitter of the optical port.

At *RST, this value is set to 0.

Syntax

:SOURce[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue?<wsp><Port>,[,MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue?

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.
MAXimum is used to retrieve the instrument's greatest supported value.
MINimum is used to retrieve the instrument's smallest supported value.
This parameter is optional. If no token is specified, the current offset value will be returned.

Response Syntax <Offset>

:SOURce[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue?

Response(s)	Offset: The response data syntax for <Offset> 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 1,15 * SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:VAL? 1 Returns 15
See Also	* SOURce[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue

:SOURce[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet

Description

This command enables or disables the frequency offset generation of the optical port.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet<wsp><Port>,<Set>

:SOURce[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0. Enables or disables the frequency offset generation.

Example(s)

* SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:VAL 1,15

* SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS 1,ON

* SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS? 1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet?

:SOURce[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet?

Description

This query returns the status of frequency offset generation of the optical port.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Offset>

:SOURce[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet?

Response(s)

Offset:

The response data syntax for <Offset> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the frequency offset generation of the optical port.

Example(s)

* SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS:VAL 1,15

* SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS 1,ON

* SOUR:DATA:TEL:OPT:PORT:FREQ:OFFS? 1
Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet

:SENSe[1..n]:DATA:TELecom:OPTical:PORT:FREQuency?

Description

This query returns the frequency of the input signal for the receiver of the optical port.

At *RST, this value is device dependent.

Syntax

:SENSe[1..n]:DATA:TELecom:OPTical:PORT:FREQuency?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:SENSe[1..n]:DATA:TELecom:OPTical:PORT:FREQuency?

Response Syntax <Frequency>

Response(s) Frequency:

The response data syntax for <Frequency> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the frequency of input signal for the receiver.

Example(s) * SENS:DATA:TEL:OPT:PORT:FREQ? 1

Returns the frequency of input signal.

:SENSe[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:POSitive?

Description

This query returns the offset between the standard rate specification and the largest rate recorded from the received signal of optical port.

At *RST, this value is device dependent.

Syntax

:SENSe[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:POSitive?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:SENSe[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:POSitive?

Response Syntax <Poffset>

Response(s) Poffset:

The response data syntax for <Poffset> 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? 1

Returns the receiver maximum positive offset.

:SENSe[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:NEGative?

Description

This query returns the offset between the standard rate specification and the smallest rate recorded from the received signal of an optical port.

At *RST, this value is device dependent.

Syntax

:SENSe[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:NEGative?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:SENSe[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:NEGative?

Response Syntax <Noffset>

Response(s) Noffset:

The response data syntax for <Noffset> 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? 1

Returns the receiver maximum negative offset.

:SENSe[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue?

Description

This query returns the offset value between the standard rate specification and the rate of input signal for the receiver of an optical port.

At *RST, this value is device dependent.

Syntax

:SENSe[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:SENSe[1..n]:DATA:TELecom:OPTical:PORT:FREQuency:OFFSet:VALue?

Response Syntax <Offset>

Response(s) Offset:

The response data syntax for <Offset> 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? 1

Returns the frequency offset value.

:OUTPut[1..n]:TELecom:LASer

Description

This command enables or disables the state of the laser.

At *RST, this value is set to OFF.

Syntax

:OUTPut[1..n]:TELecom:LASer<wsp><Port>,
<Set>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the state of laser.

Example(s)

* OUTP:TEL:LAS 1,ON

* OUTP:TEL:LAS? 1 Returns 1

See Also

* OUTPut[1..n]:TELecom:LASer?

:OUTPut[1..n]:TELecom:LASer?

Description

This query returns the status of the laser.

At *RST, this value is set to OFF.

Syntax

:OUTPut[1..n]:TELecom:LASer?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Set>

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of laser.

Example(s)

* OUTP:TEL:LAS 1,ON

* OUTP:TEL:LAS? 1 Returns 1

See Also

* OUTPut[1..n]:TELecom:LASer

:OUTPut[1..n]:TELecom:LASer:WAVelength?

Description

This query returns the wavelength of the optical output port.

At *RST, this value is device dependent.

Syntax

:OUTPut[1..n]:TELecom:LASer:WAVelength? <wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:OUTPut[1..n]:TELecom:LASer:WAVelength?

Response Syntax <Wavelength>

Response(s) Wavelength:

The response data syntax for <Wavelength> is defined as a <CHARACTER RESPONSE DATA> element.

NM850, 850 nm wavelength is retrieved.

NM1310, 1310 nm wavelength is retrieved.

NM1550, 1550 nm wavelength is retrieved.

UNKNOWN, wavelength is Unknown.

Example(s) * OUTP:TEL:LAS:WAV? 1

Returns the wavelength.

:FETCh[1..n]:DATA:TELecom:OPTical:INPut:STATus?

Description

This query returns the presence of input signal.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:OPTical:INPut:STATus?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:FETCh[1..n]:DATA:TELecom:OPTical:INPut:STATus?

Response Syntax <Status>

Response(s) Status:
The response syntax for <Status> is defined as a <CHARACTER RESPONSE DATA> element.
Returns the status of input signal.
PRESENT, indicates the presence of input signal.
ABSENT, indicates the absence of input signal.

Example(s) * FETC:DATA:TEL:OPT:INP:STAT? 1
Returns the status of input signal.

:FETCh[1..n]:DATA:TELecom:OPTical:OUTPut:STATus?

Description

This query returns the presence of output signal.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:OPTical:OUTPut:STATus?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:FETCh[1..n]:DATA:TELecom:OPTical:OUTPut:STATus?

Response Syntax

<Status>

Response(s)

Status:

The response syntax for <Status> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the status of output signal.

PRESENT, indicates the presence of output signal at optical port.

ABSENT, indicates the absence of output signal at optical port.

Example(s)

* FETC:DATA:TEL:OPT:OUTP:STAT? 1

Returns the status of output signal.

:SENSe[1..n]:DATA:TELecom:OPTical:PORT:PLEVel?

Description

This query returns the receiver power level in decibels.

At *RST, this value is device dependent.

Syntax

:SENSe[1..n]:DATA:TELecom:OPTical:PORT:PLEVel?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:SENSe[1..n]:DATA:TELecom:OPTical:PORT:PLEVel?

Response Syntax <Plevel>

Response(s) Plevel:

The response data syntax for <Plevel> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the receiver power level in decibel milliwats.

Example(s) * SENS:DATA:TEL:OPT:PORT:PLEV? 1

Returns the receiver power level in decibel milliwats.

:SOURce[1..n]:DATA:TELecom:OPTical:ALARm:PORT

Description

This command enables or disables the port alarm generation.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:OPTical:ALARm:PORT<wsp><Port>,<Set>

:SOURce[1..n]:DATA:TELecom:OPTical: ALARm:PORT

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the alarm generation.

Example(s)

* SOUR:DATA:TEL:OPT:ALAR:PORT:TYPE 1,LOS

* SOUR:DATA:TEL:OPT:ALAR:PORT 1,ON

* SOUR:DATA:TEL:OPT:ALAR:PORT? 1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:OPTical: ALARm:PORT:TYPE

* SOURce[1..n]:DATA:TELecom:OPTical: ALARm:PORT?

:SOURce[1..n]:DATA:TELecom:OPTical:ALARm:PORT?

Description

This query returns the status of port alarm.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:OPTical:ALARm:PORT?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:OPTical:ALARm:PORT?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of alarm generation.

Example(s)

* SOUR:DATA:TEL:OPT:ALAR:PORT:TYPE 1,LOS
* SOUR:DATA:TEL:OPT:ALAR:PORT 1,ON
* SOUR:DATA:TEL:OPT:ALAR:PORT? 1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:OPTical:ALARm:PORT:TYPE
* SOURce[1..n]:DATA:TELecom:OPTical:ALARm:PORT

:SOURce[1..n]:DATA:TELecom:OPTical:ALARm:PORT:TYPE

Description

This command sets the type of port alarm for the instrument.

At *RST, this value is set to LOS.

Syntax

:SOURce[1..n]:DATA:TELecom:OPTical:ALARm:PORT:TYPE<wsp><Port>,LOS

:SOURce[1..n]:DATA:TELecom:OPTical:ALARm:PORT:TYPE

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Alarm:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

Selects the type of port alarm.

LOS, selects LOS (Loss of Signal) as type of port alarm.

Example(s)

* SOUR:DATA:TEL:OPT:ALAR:PORT:TYPE 1,LOS

* SOUR:DATA:TEL:OPT:ALAR:PORT:TYPE? 1

Returns LOS

See Also

* SOURce[1..n]:DATA:TELecom:OPTical:ALARm :PORT:TYPE?

* SOURce[1..n]:DATA:TELecom:OPTical:ALARm :PORT

:SOURce[1..n]:DATA:TELecom:OPTical:ALARm:PORT:TYPE?

Description

This query returns the type of port alarm for the instrument.

At *RST, this value is set to LOS.

Syntax

:SOURce[1..n]:DATA:TELecom:OPTical:ALARm:PORT:TYPE?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Alarm>

:SOURce[1..n]:DATA:TELecom:OPTical:ALARm:PORT:TYPE?

Response(s)

Alarm:

The response data syntax for <Alarm> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the type of port alarm.

LOS, Loss of Signal (LOS) is selected as type of alarm.

Example(s)

* SOUR:DATA:TEL:OPT:ALAR:PORT:TYPE 1,LOS

* SOUR:DATA:TEL:OPT:ALAR:PORT:TYPE? 1

Returns LOS

See Also

* SOURce[1..n]:DATA:TELecom:OPTical:ALARm:PORT:TYPE

* SOURce[1..n]:DATA:TELecom:OPTical:ALARm:PORT

:FETCh[1..n]:DATA:TELecom:OPTical:ALARm:PORT:HISTory?

Description

This query returns the history status of optical port alarm.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:OPTical:ALARm:PORT:HISTory?<wsp><Port>,LOS|FREQuency

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Alarm:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LOS|FREQuency.

Selects the type of port alarm.

LOS, selects Loss of Signal (LOS) as type of port alarm.

FREQuency, selects Frequency as type of port alarm.

:FETCh[1..n]:DATA:TELecom:OPTical:ALARm:PORT:HISTory?

Response Syntax

<History>

Response(s)

History:

The response data syntax for <History> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the history status of port 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)

* SOUR:DATA:TEL:OPT:ALAR:PORT:TYPE 1,LOS

* SOUR:DATA:TEL:OPT:ALAR:PORT 1,ON

* FETC:DATA:TEL:OPT:ALAR:PORT:HIST? 1,LOS
Returns the alarm history.

See Also

* SOURce[1..n]:DATA:TELecom:OPTical:ALARm:PORT:TYPE

* SOURce[1..n]:DATA:TELecom:OPTical:ALARm:PORT

:FETCh[1..n]:DATA:TELecom:OPTical:ALARm:PORT:CURRent?

Description

This query returns the current status of optical port alarm.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:OPTical:ALARm:PORT:CURRent?<wsp><Port>,LOS|FREQuency

:FETCh[1..n]:DATA:TELecom:OPTical:ALARm:PORT:CURRent?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Alarm:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LOS|FREQuency.

Selects the type of port alarm.

LOS, selects Loss of Signal (LOS) as type of port alarm.

FREQuency, selects Frequency as type of port alarm.

Response Syntax

<Current>

:FETCh[1..n]:DATA:TELecom:OPTical:ALARm:PORT:CURRent?

Response(s)

Current:

The response data syntax for <Current> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the current status of port alarm.

PRESENT, indicates that at least one alarm has occurred in the last second.

ABSENT, indicates that there is no alarm.

INACTIVE, indicates that the test is not running.

Example(s)

* SOUR:DATA:TEL:OPT:ALAR:PORT:TYPE 1,LOS

* SOUR:DATA:TEL:OPT:ALAR:PORT 1,ON

* FETC:DATA:TEL:OPT:ALAR:PORT:CURR? 1,LOS
Returns the current status of alarm.

See Also

* SOURce[1..n]:DATA:TELecom:OPTical:ALARm:PORT:TYPE

* SOURce[1..n]:DATA:TELecom:OPTical:ALARm:PORT

:FETCh[1..n]:DATA:TELecom:OPTical:ALARm:PORT:SEConds?

Description

This query returns the number of seconds within which optical port alarm occurred.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:OPTical:ALARm:PORT:SEConds?<wsp><Port>,LOS|FREQuency

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Alarm:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LOS|FREQuency.

Selects the port alarm type.

LOS, selects Loss of Signal (LOS) as type of port alarm.

FREQuency, selects Frequency as type of port alarm.

:FETCh[1..n]:DATA:TELecom:OPTical:ALARm:PORT:SEConds?

Response Syntax <Seconds>

Response(s) Seconds:

The response data syntax for <Seconds> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of seconds of port alarm.

Example(s) * SOUR:DATA:TEL:OPT:ALAR:PORT:TYPE 1,LOS

* SOUR:DATA:TEL:OPT:ALAR:PORT 1,ON

* FETC:DATA:TEL:OPT:ALAR:PORT:SEC? 1,LOS
Returns the number of alarmed seconds.

See Also * SOURce[1..n]:DATA:TELecom:OPTical:ALARm:PORT:TYPE

* SOURce[1..n]:DATA:TELecom:OPTical:ALARm:PORT

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:ADDRess:IP

Description

This command sets the Internet Protocol (IP) address for the instrument.

At *RST, this value is set to "10.10.0.0".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:ADDRess:IP<wsp><Port>,<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:ADDRess:IP

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Address:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

Sets the IP address in the form of string.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:ADDR:IP 1,"0.0.0.1"

* SOUR:DATA:TEL:ETH:PORT:ADDR:IP? 1

Returns "0.0.0.1"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:ADDRess:IP?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:ADDRess:IP?

Description

This query returns the Internet Protocol (IP) address for the instrument.

At *RST, this value is set to "10.10.0.0".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:ADDRess:IP?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:ADDRess:IP?

Response(s)

Address:

The response data syntax for <Address> 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 1,"0.0.0.1"

* SOUR:DATA:TEL:ETH:PORT:ADDR:IP? 1

Returns "0.0.0.1"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:ADDRess:IP

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:ADDRess:SOURce

Description

This command sets the Media Access Control address of the instrument.

At *RST, this value is set to "00:00:00:00:00:00".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:ADDRess:SOURce<wsp><Port>,<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:ADDRess:SOURce

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Address:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

Sets the MAC address of the instrument.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:ADDR:SOUR 1,"FE:FE:FE:FE:00:00"

* SOUR:DATA:TEL:ETH:PORT:ADDR:SOUR? 1

Returns "FE:FE:FE:FE:00:00"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:ADDRess:SOURce?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:ADDRess:SOURce?

Description

This query returns the Media Access Control address of the instrument.

At *RST, this value is set to "00:00:00:00:00:00".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:ADDRess:SOURce?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:ADDRess:SOURce?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the MAC address in the form of string.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:ADDR:SOUR 1,"FE:FE:FE:FE:00:00"

* SOUR:DATA:TEL:ETH:PORT:ADDR:SOUR? 1

Returns "FE:FE:FE:FE:00:00"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:ADDRess:SOURce

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IP:GATeway

Description

This command enables or disables the Internet Protocol (IP) gateway.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IP:GATeway<wsp><Port>,<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IP:GATeway

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the IP gateway.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:IP:GAT 1,ON

* SOUR:DATA:TEL:ETH:PORT:IP:GAT? 1

Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IP:GATeway?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IP:GATeway?

Description

This query returns the status of Internet Protocol (IP) gateway.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IP:GATeway?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IP:GATeway?

Response (s)	Set: The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the status of IP gateway.
Example(s)	* SOUR:DATA:TEL:ETH:PORT:IP:GAT 1,ON * SOUR:DATA:TEL:ETH:PORT:IP:GAT? 1 Returns 1
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IP:GATeway

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IP:GATeway:ADDRess

Description

This command sets the default gateway address for the instrument.

At *RST, this value is set to "0.0.0.0".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IP:GATeway:ADDRess<wsp><Port>,<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IP:GATeway:ADDRess

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Address:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

Sets the default gateway address for the instrument.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:IP:GAT 1,ON

* SOUR:DATA:TEL:ETH:PORT:IP:GAT:ADDR 1,"0.0.1.1"

* SOUR:DATA:TEL:ETH:PORT:IP:GAT:ADDR? 1

Returns "0.0.1.1"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IP:GATeway

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IP:GATeway:ADDRess?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IP:GATeway:ADDRess?

Description

This query returns the default gateway address for the instrument.

At *RST, this value is set to "0.0.0.0".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IP:GATeway:ADDRess?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IP:GATeway:ADDRess?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the default gatewa y address in the form of string.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:IP:GAT 1,ON

* SOUR:DATA:TEL:ETH:PORT:IP:GAT:ADDR 1,"0.0.1.1"

* SOUR:DATA:TEL:ETH:PORT:IP:GAT:ADDR? 1 Returns "0.0.1.1"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IP:GATeway

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IP:GATeway:ADDRess

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IP:MASK:ADDRess

Description	This command sets the subnet mask for the instrument. At *RST, this value is set to "255.255.0.0".
Syntax	:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IP:MASK:ADDRess<wsp><Port>,<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IP:MASK:ADDRess

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Address:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

Sets the subnet mask for the instrument.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:IP:MASK:ADDR 1,"255.255.255.0"

* SOUR:DATA:TEL:ETH:PORT:IP:MASK:ADDR? 1
Returns "255.255.255.0"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IP:MASK:ADDRess?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IP:MASK:ADDRess?

Description

This query returns the subnet mask for the instrument.

At *RST, this value is set to "255.255.0.0".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IP:MASK:ADDRess?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IP:MASK:ADDRess?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the subnet mask in the form of string.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:IP:MASK:ADDR 1,"255.255.255.0"

* SOUR:DATA:TEL:ETH:PORT:IP:MASK:ADDR? 1
Returns "255.255.255.0"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IP:MASK:ADDRess

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:NEGotiation

Description	This command enables or disables the auto-negotiation status for the selected instrument port. At *RST, this value is set to OFF.
Syntax	:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:NEGotiation<wsp><Port>,<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:NEGotiation

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the auto-negotiation mode.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:NEG 1,ON

* SOUR:DATA:TEL:ETH:PORT:NEG? 1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:NEGotiation?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:NEGotiation?

Description

This query returns the status of auto-negotiation for the selected instrument port.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:NEGotiation?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:NEGotiation?

Response (s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of auto-negotiation mode.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:NEG 1,ON

* SOUR:DATA:TEL:ETH:PORT:NEG? 1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:NEGotiation

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:SEQuence:ENABled

Description

This command enables or disables the sequence tag.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:SEQuence:ENABled<wsp><Port>,<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:SEQuence:ENABled

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the sequence tag.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:SEQ:ENAB 1,ON

* SOUR:DATA:TEL:ETH:PORT:SEQ:ENAB? 1
Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:SEQuence:ENABled?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:SEQuence:ENABled?

Description

This query returns the status of sequence tag.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:SEQuence:ENABled?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:SEQuence:ENABled?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of sequence tag.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:SEQ:ENAB 1,ON

* SOUR:DATA:TEL:ETH:PORT:SEQ:ENAB? 1
Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:SEQuence:ENABled

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:COUPled

Description

This command enables or disables the port direction algorithm for Bidirectional flow direction.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:COUPled<wsp><Port>,<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:COUPled

Parameter(s)

Port:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.
Set:
The program data syntax for <Set> is defined as a <Boolean Program Data> element.
The <Set> special forms ON and OFF are accepted on input for increased readability.
ON corresponds to 1 and OFF corresponds to 0.
Selects the port direction algorithm for Bidirectional flow direction.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:COUP1,ON
* SOUR:DATA:TEL:ETH:PORT:COUP? 1 Returns:1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:COUPled?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:COUPled?

Description

This query returns the status of the port direction algorithm for Bidirectional flow direction.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:COUPled?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:COUPled?

Response(s)	Set: The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the status of the port direction algorithm for Bidirectional flow direction.
Example(s)	* SOUR:DATA:TEL:ETH:PORT:COUP1,ON * SOUR:DATA:TEL:ETH:PORT:COUP? 1 Returns:1
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:COUPled

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN

Description

This command enables or disables the Virtual Local Area Network (VLAN) configuration.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN<wsp><Port>,<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are

accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the Virtual Local Area Network (VLAN) configuration.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:VLAN 1,ON

* SOUR:DATA:TEL:ETH:PORT:VLAN? 1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN?

Description

This query returns the status of Virtual Local Area Network (VLAN) configuration.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of Virtual Local Area Network (VLAN) configuration.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:VLAN 1,ON

* SOUR:DATA:TEL:ETH:PORT:VLAN? 1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:STACked

Description

This command sets the value of the Virtual Local Area Network (VLAN) stacked.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:STACked<wsp><Port>,<Stacked>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:STACked

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stacked:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the VLAN stacked.

Selects the Stacked range from 1 to 3.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:VLAN 1,ON

* SOUR:DATA:TEL:ETH:PORT:VLAN:STAC 1,3

* SOUR:DATA:TEL:ETH:PORT:VLAN:STAC? 1

Returns 3

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:STACked?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:STACked?

Description

This query returns the value of the Virtual Local Area Network (VLAN) stacked.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:STACked?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Stacked>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:STACked?

Response(s)

Stacked:

The response data syntax for <Stacked> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the VLAN stacked.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:VLAN 1,ON

* SOUR:DATA:TEL:ETH:PORT:VLAN:STAC 1,3

* SOUR:DATA:TEL:ETH:PORT:VLAN:STAC? 1

Returns 3

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:STACked

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:TYPE

Description

This command sets the type of Virtual Local Area Network (VLAN) identification for specific VLAN stacked.

At *RST, this value is set to V8100.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:TYPE<wsp><Port>,<Stacked>,V8100|V88A8|V9100|V9200|V9300

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:TYPE

Parameter(s)

Stacked:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the VLAN stacked.

Selects the Stacked range from 1 to 3.

Idtype:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

V8100|V88A8|V9100|V9300.

Selects Virtual Local Area Network (VLAN) type.

V8100, selects VLAN type as 8100.

V88A8, selects VLAN type as 88A8.

V9100, selects VLAN type as 9100.

V9200, selects VLAN type as 9200.

V9300, selects VLAN type as 9300.

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:TYPE

Example(s)

* SOUR:DATA:TEL:ETH:PORT:VLAN 1,ON
* SOUR:DATA:TEL:ETH:PORT:VLAN:STAC 1,2
* SOUR:DATA:TEL:ETH:PORT:VLAN:TYPE 1,2,V9100
* SOUR:DATA:TEL:ETH:PORT:VLAN:TYPE? 1,2 Returns V9100

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:STACked
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:TYPE?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:TYPE?

Description

This query returns the type of the Virtual Local Area Network (VLAN) identification for specific VLAN stacked.

At *RST, this value is set to V8100.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:TYPE?<wsp><Port>,<Stacked>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stacked:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the VLAN stacked.

Selects the Stacked range from 1 to 3.

Response Syntax

<Idtype>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:TYPE?

Response(s)

Idtype:

The response data syntax for <Idtype> 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)

* SOUR:DATA:TEL:ETH:PORT:VLAN 1,ON

* SOUR:DATA:TEL:ETH:PORT:VLAN:STAC 1,2

* SOUR:DATA:TEL:ETH:PORT:VLAN:TYPE 1,2,V9100

* SOUR:DATA:TEL:ETH:PORT:VLAN:TYPE? 1,2

Returns V9100

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:STACked

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:TYPE

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:ID

Description

This command sets the Virtual Local Area Network (VLAN) Identification for the specific VLAN stacked.

At *RST, this value is set to 2.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:ID<wsp><Port>,<Stacked>,<Id>|MAXimum|MINimum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stacked:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the VLAN stacked.

Selects the Stacked range from 1 to 3.

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:ID

Parameter(s)

Id:

The program data syntax for the third parameter is defined as a <numeric_value> element.

The <Id> special forms MINimum, MAXimum are accepted on input.

MINimum, allows to set the instrument to the smallest supported value.

MAXimum, allows to set the instrument to the greatest supported value.

Sets the VLAN ID.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:VLAN 1,ON

* SOUR:DATA:TEL:ETH:PORT:VLAN:STAC 1,2

* SOUR:DATA:TEL:ETH:PORT:VLAN:ID 1,2,50

* SOUR:DATA:TEL:ETH:PORT:VLAN:ID? 1,2

Returns 50

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:STACked

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:ID?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:ID?

Description

This command returns the Virtual Local Area Network Identification for specific VLAN ID stacked.

At *RST, this value is set to 2.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:ID?<wsp><Port>,<Stacked>[,MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:ID?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stacked:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the VLAN stacked.

Selects the Stacked range from 1 to 3.

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:
MAXimum|MINimum.
MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current VLAN ID value will be returned.

Response Syntax

<Id>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:ID?

Response(s)

Id:

The response data syntax for <Id> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the value of VLAN identification.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:VLAN 1,ON

* SOUR:DATA:TEL:ETH:PORT:VLAN:STAC 1,2

* SOUR:DATA:TEL:ETH:PORT:VLAN:ID 1,2,50

* SOUR:DATA:TEL:ETH:PORT:VLAN:ID? 1,2

Returns 50

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:STACked

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:ID

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:ID:ELIGiblebit

Description

This command enables or disables the user Virtual Local Area Network (VLAN) eligible bit for specific VLAN stacked.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:ID:ELIGiblebit<wsp><Port>,<Stacked>,<Set>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stacked:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the VLAN stacked.

Selects the Stacked range from 1 to 3.

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:ID:ELIGiblebit

Parameter(s)

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the eligible bit for the specific VLAN ID.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:VLAN 1,ON
* SOUR:DATA:TEL:ETH:PORT:VLAN:STAC 1,2
* SOUR:DATA:TEL:ETH:PORT:VLAN:ID:ELIG? 1,2,ON
* SOUR:DATA:TEL:ETH:PORT:VLAN:ID:ELIG? 1,2

Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:STACked
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:TYPE
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:ID:ELIGiblebit?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:ID:ELIGiblebit?

Description

This query returns the status of the user Virtual Local Area Network (VLAN) eligible bit for specific VLAN stacked.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:ID:ELIGiblebit?<wsp><Port>,<Stacked>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stacked:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the VLAN stacked.

Selects the Stacked range from 1 to 3.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:ID:ELIGiblebit?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the value of VLAN ID.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:VLAN 1,ON
* SOUR:DATA:TEL:ETH:PORT:VLAN:STAC 1,2
* SOUR:DATA:TEL:ETH:PORT:VLAN:ID:ELIG? 1,2,ON
* SOUR:DATA:TEL:ETH:PORT:VLAN:ID:ELIG? 1,2

Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:STACked
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:TYPE
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:ID:ELIGiblebit

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:PRIority

Description

This command sets the priority of the Virtual Local Area Network (VLAN) identification for the specific VLAN stacked.

At *RST, this value is set to 0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:PRIority<wsp><Port>,<Stacked>,<Priority>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stacked:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the VLAN stacked.

Selects the Stacked range from 1 to 3.

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:PRIority

Parameter(s)

Priority:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the priority of the stream.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:VLAN 1,ON
* SOUR:DATA:TEL:ETH:PORT:VLAN:STAC 1,2
* SOUR:DATA:TEL:ETH:PORT:VLAN:PRI 1,2,5
* SOUR:DATA:TEL:ETH:PORT:VLAN:PRI? 1,2

Returns 5

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:STACked
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:TYPE
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:PRIority?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:PRIority?

Description

This query returns the priority of the Virtual Local Area Network (VLAN) identification for specific VLAN stacked.

At *RST, this value is set to 0.

Syntax

SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:PRIority?<wsp><Port>,<Stacked>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Select port number 1 or 2.

Stacked:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the VLAN stacked.

Selects the Stacked range from 1 to 3.

Response Syntax

<Priority>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:PRIority?

Response(s)

Priority:
The program data syntax for the parameter is defined as a <NR1 NUMERIC RESPONSE DATA> element.
Returns the priority of the stream.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:VLAN 1,ON
* SOUR:DATA:TEL:ETH:PORT:VLAN:STAC 1,2
* SOUR:DATA:TEL:ETH:PORT:VLAN:PRI 1,2,5
* SOUR:DATA:TEL:ETH:PORT:VLAN:PRI? 1,2

Returns 5

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:STACked
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:TYPE
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:VLAN:PRIority

:SOURce[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency?

Description

This query returns the frequency of the input signal for the transmitter of the electrical port.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:SOURce[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency?

Response Syntax <Frequency>

Response(s) Frequency:

The response data syntax for <Frequency> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the frequency of input signal for the transmitter.

Example(s) * SOUR:DATA:TEL:ELEC:PORT:FREQ? 1

Returns the frequency of input signal.

:SOURce[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency:NOMinal?

Description

This query returns the nominal frequency of the signal.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency:NOMinal?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Nominal>

Response(s)

Nominal:

The response data syntax for <Nominal> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the nominal frequency of the signal.

Example(s)

* SOUR:DATA:TEL:ELEC:PORT:FREQ:NOM? 1

Returns the nominal frequency of the signal.

:SOURce[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet:VALue

Description

This commands sets the frequency offset value between the standard rate specification and the rate of input signal for the transmitter of the electrical port.

At *RST, this value is set to 0.

Syntax

:SOURce[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet:VALue <wsp><Port>, <Value>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet:VALue

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Value:

The program data syntax for the second parameter is defined as a <numeric_value> element.

The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.

MAXimum allows to set the instrument to the greatest supported value.

MINimum allows to set the instrument to the smallest supported value.

Sets the frequency offset value.

Example(s)

* SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS:VAL 1,15

* SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS:VAL? 1 Returns 15

See Also

* SOURce[1..n]:DATA:TELecom:ELECtrical:FREQuency:OFFSet:VALue?

* SOURce[1..n]:DATA:TELecom:ELECtrical:FREQuency:OFFSet

:SOURce[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet:VALue?

Description

This query returns the frequency offset value between the standard rate specification and the rate of input signal for the transmitter of the electrical port.

At *RST, this value is set to 0.

Syntax

:SOURce[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet:VALue?<wsp><Port>[,MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet:VALue?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum is used to retrieve the instrument's greatest supported value.

MINimum is used to retrieve the instrument's smallest supported value.

This parameter is optional. If no token is specified, the current frequency offset value will be returned.

Response Syntax

<Value>

:SOURce[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet:VALue?

Response(s)

Value:

The response data syntax for <Value> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the frequency offset value between the standard rate specification and the rate of input signal

Example(s)

* SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS:VAL 1,15

* SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS:VAL? 1 Returns 15

See Also

* SOURce[1..n]:DATA:TELecom:ELECtrical:FREQuency:OFFSet:VALue

* SOURce[1..n]:DATA:TELecom:ELECtrical:FREQuency:OFFSet

:SOURce[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet

Description

This command enables or disables the frequency offset generation of the electrical port.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet<wsp><Port>,<Set>

:SOURce[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Set:

The program data syntax for the second parameter is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are

accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the frequency offset generation.

Example(s)

* SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS:VAL 1,15

* SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS 1,ON

* SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS? 1
Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ELECtrical:FREQuency:OFFSet:VALue

* SOURce[1..n]:DATA:TELecom:ELECtrical:FREQuency:OFFSet?

:SOURce[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet?

Description

This query returns the frequency offset generation of the electrical port.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of frequency offset generation.

Example(s)

* SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS:VAL 1,15

* SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS 1,ON

* SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS? 1
Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ELECtrical:FREQuency:OFFSet:VALue

* SOURce[1..n]:DATA:TELecom:ELECtrical:FREQuency:OFFSet

:SENSe[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency?

Description

This query returns the input signal frequency for the receiver of an electrical port.

At *RST, this value is device dependent.

Syntax

:SENSe[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:SENSe[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency?

Response Syntax <Frequency>

Response(s) Frequency:
The response data syntax for <Frequency> is defined as a <NR2 NUMERIC RESPONSE DATA> element.
Returns the frequency of input signal for the receiver.

Example(s) * SENS:DATA:TEL:ELEC:PORT:FREQ? 1
Returns the frequency of input signal for the receiver.

:SENSe[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency:NEGative?

Description

This query returns the offset between the standard rate specification and the smallest rate recorded from the received signal of an electrical port.

At *RST, this value is device dependent.

Syntax

:SENSe[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency:NEGative?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Negative>

:SENSe[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency:NEGative?

Response(s)

Negative:

The response data syntax for <Negative> is defined as a <STRING RESPONSE DATA> element.

Returns the negative frequency of the input signal.

Example(s)

* SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS:VAL 1,15

* SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS 1,ON

* SENS:DATA:TEL:ELEC:PORT:FREQ:NEG? 1
Returns the negative frequency.

See Also

* SOURce[1..n]:DATA:TELecom:OPTical:FREQuency:OFFSet:VALue?

* SOURce[1..n]:DATA:TELecom:OPTical:FREQuency:OFFSet

:SENSe[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet:Value?

Description

This query returns the offset value between the standard rate specification and the rate of input signal for the receiver of an electrical port.

At *RST, this value is device dependent.

Syntax

:SENSe[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet:VALue?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Offset>

:SENSe[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency:OFFSet:Value?

Response(s)

Offset:

The response data syntax for <Offset> is defined as a <STRING RESPONSE DATA> element.

Returns the frequency offset value for the receiver.

Example(s)

* SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS:VAL 1,15

* SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS 1,ON

* SENS:DATA:TEL:ELEC:PORT:FREQ:OFFS:VAL? 1

Returns the frequency offset value.

See Also

* SOURce[1..n]:DATA:TELecom:OPTical:FREQuency:OFFSet:VALue?

* SOURce[1..n]:DATA:TELecom:OPTical:FREQuency:OFFSet

:SENSe[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency:POSitive?

Description

This query returns the offset between the standard rate specification and the largest rate recorded from the received signal of electrical port.

At *RST, this value is device dependent.

Syntax

:SENSe[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency:POSitive?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Positive>

:SENSe[1..n]:DATA:TELecom:ELECtrical:PORT:FREQuency:POSitive?

Response(s)

Positive:

The response data syntax for <Positive> is defined as a <STRING RESPONSE DATA> element.

Returns the positive frequency of the input signal.

Example(s)

* SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS:VAL 1,15

* SOUR:DATA:TEL:ELEC:PORT:FREQ:OFFS 1,ON

* SENS:DATA:TEL:ELEC:PORT:FREQ:POS? 1
Returns the positive frequency.

See Also

* SOURce[1..n]:DATA:TELecom:OPTical:FREQuency:OFFSet:VALue?

* SOURce[1..n]:DATA:TELecom:OPTical:FREQuency:OFFSet

:FETCh[1..n]:DATA:TELecom:ELECtrical:ALARm:PORT:HISTory?

Description

This query returns the history status of an electrical port alarm.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ELECtrical:ALARm:PORT:HISTory?<wsp><Port>,FREQuency

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Alarm:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA>

element for this parameter is: FREQuency.

Selects the type of port alarm.

FREQuency, selects the type of port alarm as frequency.

:FETCh[1..n]:DATA:TELecom:ELECtrical:ALARm:PORT:HISTory?

Response Syntax <History>

Response(s) History:

The response data syntax for <History> is defined as a <CHARACTER RESPONSE DATA>

element.

Returns the history status of port 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:ELEC:ALAR:PORT:HIST? 1,LOS
Returns the alarm history.

:FETCh[1..n]:DATA:TELecom:ELECtrical:ALARm:PORT:CURRent?

Description

This query returns the current status of an electrical port alarm.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ELECtrical:ALARm:PORT:CURRent?<wsp><Port>,FREQuency

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Alarm:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA>

element for this parameter is: FREQuency.

Selects the type of port alarm.

FREQuency, selects the type of port alarm as frequency.

:FETCh[1..n]:DATA:TELecom:ELECtrical:ALARm:PORT:CURRent?

Response Syntax <Current>

Response(s) Current:

The response data syntax for <Current> is defined as a <CHARACTER RESPONSE DATA>

element.

Returns the current status of port alarm.

PRESENT, indicates that at least one alarm has occurred in the last second.

ABSENT, indicates that there is no alarm.

INACTIVE, indicates that the test is not running.

Example(s) * FETC:DATA:TEL:ELEC:ALAR:PORT:CURR?

1,LOS

Returns the current alarm status.

:FETCh[1..n]:DATA:TELecom:ELECtrical:ALARm:PORT:SEConds?

Description

This query returns the number of seconds within which electrical port alarm occurred.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ELECtrical:ALARm:PORT:SEConds?<wsp><Port>,FREQuency

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Alarm:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA>

element for this parameter is: FREQuency.

Selects the type of port alarm.

FREQuency, selects the type of port alarm as frequency.

:FETCh[1..n]:DATA:TELecom:ELECtrical:ALARm:PORT:SEConds?

Response Syntax <Seconds>

Response(s) Seconds:

The response data syntax for <Seconds> is defined as a <NR1 NUMERIC RESPONSE DATA>

element.

Returns the number of seconds of port alarm.

Example(s) * FETC:DATA:TEL:ELEC:ALAR:PORT:SEC? 1,LOS
Returns the number of alarmed seconds.

:SOURce[1..n]:DATA:TELecom:ELECtrical:PORT:ECRossover

Description	This command enables or disables the type of cable used. At *RST, this value is set to OFF.
Syntax	:SOURce[1..n]:DATA:TELecom:ELECtrical:PORT:ECRossover<wsp><Port>,<Set>

:SOURce[1..n]:DATA:TELecom:ELECtrical:PORT:ECRossover

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Set:

The program data syntax for the second parameter is defined as a <Boolean Program Data> element.
The <Set> special forms ON and OFF are accepted on input for increased readability. ON corresponds to 1 and OFF corresponds to 0.
Enables or disables the cable used.

Example(s)

* SOUR:DATA:TEL:ELEC:PORT:ECR 1,ON

* SOUR:DATA:TEL:ELEC:PORT:ECR? 1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ELECtrical:PORT:ECRossover?

:SOURce[1..n]:DATA:TELecom:ELECtrical:PORT:ECRossover?

Description

This query returns the status of cable used.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ELECtrical:PORT:ECRossover?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Set >

:SOURce[1..n]:DATA:TELecom:ELECtrical:PORT:ECRossover?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of the cable used.

Example(s)

* SOUR:DATA:TEL:ELEC:PORT:ECR 1,ON

* SOUR:DATA:TEL:ELEC:PORT:ECR? 1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ELECtrical:PORT:ECRossover

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:MPLS

Description

This command enables or disables the Multi Protocol Label Switching (MPLS) Configuration.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:MPLS<wsp><Port>,<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:MPLS

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the MPLS Configuration.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:MPLS 1,ON

* SOUR:DATA:TEL:ETH:PORT:MPLS? 1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:MPLS?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:MPLS?

Description

This query returns the status of Multi Protocol Label Switching (MPLS) Configuration.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:MPLS?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:MPLS?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of MPLS Configuration.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:MPLS 1,ON

* SOUR:DATA:TEL:ETH:PORT:MPLS? 1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:MPLS

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:MPLS:LABel

Description

This command sets the Multi Protocol Label Switching (MPLS) label type.

At *RST, this value is set to 16.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:MPLS:LABel<wsp><Port>,<Type>,<Label>|MAXimum|MINimum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Type:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: TX|RX.

Selects the label type.

TX, sets the label type for transmitter.

RX, sets the label type for receiver.

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:MPLS:LABel

Label:

The program data syntax for the third parameter is defined as a <numeric_value> element.

The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.

MAXimum allows to set the instrument to the greatest supported value.

MINimum allows to set the instrument to the smallest supported value.

Sets the label.

Choices are 0 through 1048575.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:MPLS 1,ON

* SOUR:DATA:TEL:ETH:PORT:MPLS:LAB 1,TX,16

* SOUR:DATA:TEL:ETH:PORT:MPLS:LAB? 1,TX
Returns 16

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:MPLS

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:MPLS:LABel?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:MPLS:LABel?

Description

This query returns the Multi Protocol Label Switching (MPLS) label type.

At *RST, this value is set to 16.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:MPLS:LABel?<wsp><Port>,<Type>[,MAXimum|MINimum]

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Type:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: TX|RX.

Selects the label type.

TX, sets the label type for transmitter.

RX, sets the label type for receiver.

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:MPLS:LABel?

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum is used to retrieve the instrument's greatest supported value.

MINimum is used to retrieve the instrument's smallest supported value.

This parameter is optional. If no token is specified, the current label value will be returned.

Response Syntax <Label>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:MPLS:LABel?

Response(s)

Label:

The response data syntax for <Label> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the label value.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:MPLS 1,ON

* SOUR:DATA:TEL:ETH:PORT:MPLS:LAB 1,TX,16

* SOUR:DATA:TEL:ETH:PORT:MPLS:LAB? 1,TX
Returns 16

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:MPLS

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:MPLS:LABel

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe

Description

This command enables or disables the Provider Bridge Backbone with Traffic Engineering (PBB-TE) Configuration.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe<wsp><Port>,<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the PBB-TE Configuration.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:PBBT 1,ON
* SOUR:DATA:TEL:ETH:PORT:PBBT? 1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe?

Description

This query returns the status of Provider Bridge Backbone with Traffic Engineering (PBB-TE) Configuration.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe?

Response(s)	Set: The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the status of PBB-TE Configuration.
Example(s)	* SOUR:DATA:TEL:ETH:PORT:PBBT 1,ON * SOUR:DATA:TEL:ETH:PORT:PBBT? 1 Returns 1
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:PORT :PBBTe

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ADDRess:SOURce

Description

This command sets the Backbone Media Access Control (B-MAC) source address.

At *RST, this value is set to "00:00:00:00:00:00".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ADDRess:SOURce<wsp><Port>, <Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ADDRess:SOURce

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Address:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

Sets the B-MAC Source address.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:PBBT 1,ON

* SOUR:DATA:TEL:ETH:PORT:PBBT:ADDR:SOUR 1,"FE:FE:FE:FE:00:00"

* SOUR:DATA:TEL:ETH:PORT:PBBT:ADDR:SOUR? 1 Returns "FE:FE:FE:FE:00:00"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ADDRess:SOURce?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ADDRess:SOURce?

Description

This query returns the Backbone Media Access Control (B-MAC) source address.

At *RST, this value is set to "00:00:00:00:00:00".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ADDRess:SOURce?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ADDRess:SOURce?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the B-MAC Source address in the form of string.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:PBBT 1,ON

* SOUR:DATA:TEL:ETH:PORT:PBBT:ADDR:SOUR 1,"FE:FE:FE:FE:00:00"

* SOUR:DATA:TEL:ETH:PORT:PBBT:ADDR: SOUR? 1 Returns "FE:FE:FE:FE:00:00"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ADDRess:SOURce

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ADDRess:DESTination

Description

This command sets the Backbone Media Access Control (B-MAC) destination address.

At *RST, this value is set to "00:00:00:00:00:00".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ADDRess:DESTination<wsp><Port>,<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ADDRess:DESTination

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Address:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

Sets the B-MAC Destination address.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:PBBT 1,ON

* SOUR:DATA:TEL:ETH:PORT:PBBT:ADDR:DEST 1,"FE:FE:FE:FE:00:00"

* SOUR:DATA:TEL:ETH:PORT:PBBT:ADDR:DEST? 1 Returns "FE:FE:FE:FE:00:00"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ADDRess:DESTination?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ADDRess:DESTination?

Description

This query returns the Backbone Media Access Control (B-MAC) destination address.

At *RST, this value is set to "00:00:00:00:00:00".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ADDRess:DESTination?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ADDRess:DESTination?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the B-MAC Destination address in the form of string.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:PBBT 1,ON

* SOUR:DATA:TEL:ETH:PORT:PBBT:ADDR:DEST 1,"FE:FE:FE:FE:00:00"

* SOUR:DATA:TEL:ETH:PORT:PBBT:ADDR:DEST? 1 Returns "FE:FE:FE:FE:00:00"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ADDRess:DESTination

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:SID

Description

This command sets the Service Instance Identifier (SID), which identifies the backbone service instance of the selected stream.

At *RST, this value is set to 256.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:SID<wsp><Port>,<Id>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:SID

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Id:

The program data syntax for the second parameter is defined as a <numeric_value> element.

The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.

MAXimum allows to set the instrument to the greatest supported value.

MINimum allows to set the instrument to the smallest supported value.

Sets the Service Instance Identifier (SID).

Choices are 0 through 16777215.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:PBBT 1,ON

* SOUR:DATA:TEL:ETH:PORT:PBBT:ITAG:SID 1,50

* SOUR:DATA:TEL:ETH:PORT:PBBT:ITAG:SID? 1
Returns 50

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:SID

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:SID?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:SID?

Description

This query returns the Service Instance Identifier (SID), which identifies the backbone service instance of the selected stream.

At *RST, this value is set to 256.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:SID?<wsp><Port>[,MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:SID?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Id:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum is used to retrieve the instrument's greatest supported value.

MINimum is used to retrieve the instrument's smallest supported value.

This parameter is optional. If no token is specified, the current SID value will be returned.

Response Syntax

<Id>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:SID?

Response(s)

Id:

The response data syntax for <Id> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the SID.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:PBBT 1,ON

* SOUR:DATA:TEL:ETH:PORT:PBBT:ITAG:SID 1,50

* SOUR:DATA:TEL:ETH:PORT:PBBT:ITAG:SID? 1
Returns 50

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:SID

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:PRIority

Description

This command sets the I-TAG user Priority Code Point (PCP).

At *RST, this value is set to 0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:PRIority<wsp><Port>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:PRIority

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Priority:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the priority code point.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:PBBT 1,ON

* SOUR:DATA:TEL:ETH:PORT:PBBT:ITAG:PRI 1,3

* SOUR:DATA:TEL:ETH:PORT:PBBT:ITAG:PRI? 1
Returns 3

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:SID

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:PRIority?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:PRIority?

Description

This query returns the I-TAG user Priority Code Point (PCP).

At *RST, this value is set to 0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:PRIority?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Priority>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:PRIority?

Response(s)

Priority:

The response data syntax for <Priority> is defined as a <NR1 NUMERIC RESPONSE DATA>

element.

Returns the priority code point.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:PBBT 1,ON

* SOUR:DATA:TEL:ETH:PORT:PBBT:ITAG:PRI 1,3

* SOUR:DATA:TEL:ETH:PORT:PBBT:ITAG:PRI? 1
Returns 3

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:SID

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:PRIority

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:SID:ELIGiblebit

Description

This command enables or disables the eligible bit of Backbone Service Instance Tag (I-TAG).

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:SID:ELIGiblebit<wsp><Port>,<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:SID:ELIGiblebit

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the eligible bit.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:PBBT 1,ON

* SOUR:DATA:TEL:ETH:PORT:PBBT:ITAG:SID:ELIG 1,ON

* SOUR:DATA:TEL:ETH:PORT:PBBT:ITAG:SID:ELIG? 1 Returns 1

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:SID:ELIGiblebit

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:SID
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:PRIority
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:SID:ELIGiblebit?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:SID:ELIGiblebit?

Description

This query returns the status of eligible bit of Backbone Service Instance Tag (I-TAG).

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:SID:ELIGiblebit?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:SID:ELIGiblebit?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of eligible bit.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:PBBT 1,ON

* SOUR:DATA:TEL:ETH:PORT:PBBT:ITAG:SID:ELIG 1,ON

* SOUR:DATA:TEL:ETH:PORT:PBBT:ITAG:SID:ELIG? 1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:SID

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:PRIority

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:ITAG:SID:ELIGiblebit

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan

Description

This command enables or disables the B-Virtual Local Area Network (B-VLAN) identifier.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan<wsp><Port>,<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the B-VLAN identifier.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:PBBT 1,ON

* SOUR:DATA:TEL:ETH:PORT:PBBT:BVL 1,ON

* SOUR:DATA:TEL:ETH:PORT:PBBT:BVL? 1
Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan?

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:PRIority

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan?

Description

This query returns the status of B-Virtual Local Area Network (B-VLAN) identifier.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of B-VLAN identifier.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:PBBT 1,ON

* SOUR:DATA:TEL:ETH:PORT:PBBT:BVL 1,ON

* SOUR:DATA:TEL:ETH:PORT:PBBT:BVL? 1
Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:PRIority

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:ID

Description

This command sets the Backbone Virtual Local Area Network (B-VLAN) identifier.

At *RST, this value is set to 2.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:ID<wsp><Port>,<Id>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:ID

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Id:

The program data syntax for the second parameter is defined as a <numeric_value> element.

The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.

MAXimum allows to set the instrument to the greatest supported value.

MINimum allows to set the instrument to the smallest supported value.

Select the B-VLAN identifier.

Choices are 0 through 4095.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:PBBT 1,ON

* SOUR:DATA:TEL:ETH:PORT:PBBT:BVL 1,ON

* SOUR:DATA:TEL:ETH:PORT:PBBT:BVL:ID 1,50

* SOUR:DATA:TEL:ETH:PORT:PBBT:BVL:ID? 1
Returns 50

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:ID

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:ID?
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:PRIority

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:ID?

Description

This query returns the B-Virtual Local Area Network (VLAN) Identification for a specific VLAN stacked.

At *RST, this value is set to 2.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:ID?<wsp><Port>[,MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:ID?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum is used to retrieve the instrument's greatest supported value.

MINimum is used to retrieve the instrument's smallest supported value.

This parameter is optional. If no token is specified, the current B-VLAN will be returned.

Response Syntax

<Id>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:ID?

Response(s)

Id:

The response data syntax for <Id> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the value of B-VLAN identification.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:PBBT 1,ON

* SOUR:DATA:TEL:ETH:PORT:PBBT:BVL 1,ON

* SOUR:DATA:TEL:ETH:PORT:PBBT:BVL:ID 1,50

* SOUR:DATA:TEL:ETH:PORT:PBBT:BVL:ID? 1
Returns 50

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe

* SOURce[1..n]:DATA:TELecom:ETHernetPORT:PBBTe:BVLan

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:ID

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:PRIority

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:PRIority

Description

This command sets the B-VLAN user Priority Code Point (PCP).

At *RST, this value is set to 0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:PRIority<wsp><Port>, <Priority>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:PRIority

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Priority:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the B-VLAN Priority.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:PBBT 1,ON
* SOUR:DATA:TEL:ETH:PORT:PBBT:BVL 1,ON
* SOUR:DATA:TEL:ETH:PORT:PBBT:BVL:ID 1,50
* SOUR:DATA:TEL:ETH:PORT:PBBT:BVL:PRI 1,5
* SOUR:DATA:TEL:ETH:PORT:PBBT:BVL:PRI? 1
Returns 5

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe
* SOURce[1..n]:DATA:TELecom:ETHernetPORT:PBBTe:BVLan
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:ID
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:PRIority?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:PRIority?

Description

This query returns the B-VLAN user Priority Code Point (PCP).

At *RST, this value is set to 0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:PRIority?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Priority>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:PRIority?

Response(s)

Priority:

The response data syntax for <Priority> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the B-VLAN priority.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:PBBT 1,ON

* SOUR:DATA:TEL:ETH:PORT:PBBT:BVL 1,ON

* SOUR:DATA:TEL:ETH:PORT:PBBT:BVL:ID 1,50

* SOUR:DATA:TEL:ETH:PORT:PBBT:BVL:PRI 1,5

* SOUR:DATA:TEL:ETH:PORT:PBBT:BVL:PRI? 1
Returns 5

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:ID

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:PRIority

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:ID:ELIGiblebit

Description

This command enables or disables the eligible bit of Backbone Virtual Local Area Network (B-VLAN).

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:ID:ELIGiblebit<wsp><Port>, <Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:ID:ELIGiblebit

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the eligible bit.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:PBBT 1,ON
* SOUR:DATA:TEL:ETH:PORT:PBBT:BVL 1,ON
* SOUR:DATA:TEL:ETH:PORT:PBBT:BVL:ID 1,50
* SOUR:DATA:TEL:ETH:PORT:PBBT:BVL:ID:ELIG 1,ON
* SOUR:DATA:TEL:ETH:PORT:PBBT:BVL:ID:ELIG? 1 Returns 1

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:ID:ELIGiblebit

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe
* SOURce[1..n]:DATA:TELecom:ETHernetPORT:PBBTe:BVLan
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:ID
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:PRIority
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:ID:ELIGiblebit?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:ID:ELIGiblebit?

Description

This query returns the eligible bit of Backbone Virtual Local Area Network (B-VLAN).

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:ID:ELIGiblebit?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:PBBTe:BVLan:ID:ELIGiblebit?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of eligible bit.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:PBBT 1,ON

* SOUR:DATA:TEL:ETH:PORT:PBBT:BVL 1,ON

* SOUR:DATA:TEL:ETH:PORT:PBBT:BVL:ID 1,50

* SOUR:DATA:TEL:ETH:PORT:PBBT:BVL:ID:ELIG 1,ON

* SOUR:DATA:TEL:ETH:PORT:PBBT:BVL:ID: ELIG? 1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT :PBBTe

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT :PBBTe:BVLan

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT :PBBTe:BVLan:ID

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT :PBBTe:BVLan:PRIority

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT :PBBTe:BVLan:ID:ELIGiblebit

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IPVersion

Description

This command selects the IP Version.

At *RST, this value is set to IPV4.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IPVersion<wsp><Port>,<Ipversion>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IPVersion

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Ipversion:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: IPV6|IPV4.

Selects the IP version.

IPV6, selects IPV6 as IP version.

IPV4, selects IPV4 as IP version.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:IPV 1,IPV6

* SOUR:DATA:TEL:ETH:PORT:IPV? 1

Returns IPV6

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IPVersion?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IPVersion?

Description

This query returns the IP Version.

At *RST, this value is set to IPV4.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IPVersion?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Ipversion>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IPVersion?

Response(s)

Ipversion:

The response data syntax for <Ipversion> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the IP version.

IPV6, IPV6 is selected as IP version.

IPV4, IPV4 is selected as IP version.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:IPV 1,IPV6

* SOUR:DATA:TEL:ETH:PORT:IPV? 1

Returns IPV6

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:IPVersion

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:LOCal:IPV:ADDRess

Description

This command sets the Link-Local IPv6 Address.

At *RST, this value is set to "FE80:0000:0000:0000:0000:0000:0000:0000".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:LOCal:IPV:ADDRess<wsp><Port>,<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:LOCal:IPV:ADDRess

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Address:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
Sets 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[1..n]:DATA:TELecom:ETHernet:PORT:LOCal:IPV:ADDRess?

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:LOCal:IPV:MODE

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:LOCal:IPV:ADDRess?

Description

This query returns the Link-Local IPv6 Address.

At *RST, this value is set to "FE80:0000:0000:0000:0000:0000:0000:0000".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:LOCal:IPV:ADDRess?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:LOCal:IPV:ADDRess?

Response(s)

Address:

The response data syntax for <Address> 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[1..n]:DATA:TELecom:ETHernet:PORT:LOCal:IPV:ADDRess
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:LOCal:IPV:MODE

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:LOCal:IPV:MODE

Description This command selects the Link-Local IPv6 Mode.

At *RST, this value is set to STATic.

Syntax :SOURce[1..n]:DATA:TELecom:ETHernet:PORT:LOCal:IPV:MODE<wsp><Port>,<Mode>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:LOCal:IPV:MODE

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Mode:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: STATic|SAUTo.

Selects the Link-Local IPv6 mode.

STATic, selects Static as Link-Local IPv6 mode.

SAUTo, selects Stateless Auto. (SAUTo) 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 STATIC

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:LOCal:IPV:MODE?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:LOCal:IPV:MODE?

Description

This query returns the Link-Local IPv6 Mode.

At *RST, this value is set to STATic.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:LOCal:IPV:MODE?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Mode>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:LOCal:IPV:MODE?

Response(s)

Mode:

The response data syntax for <Mode> 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 STATIC

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:LOCal:IPV:MODE

:FETCh[1..n]:DATA:TELecom:ETHernet:PORT:LOCal:IPV:STATus?

Description

This query returns the Link-Local IPv6 Status.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:PORT:LOCal:IPV:STATus?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:FETCh[1..n]:DATA:TELecom:ETHernet:PORT:LOCal:IPV:STATus?

Response Syntax <Status>

Response(s)

Status:

The response data syntax for <Status> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the Link-Local IPv6 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:PORT:LOC:IPV:STAT? 1

Returns the Link-Local IPv6 status.

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:ADDRess

Description

This command sets the Global IPv6 Address.

At *RST, this value is set to "2001:0000:0000:0000".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:ADDRess<wsp><Port>,

<Address>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Address:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

Sets the Global IPv6 Address.

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV: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"

Note

When Interface ID Coupled is enabled, Global IPV6 Address will configure up to 64 MSB and when it is disabled, it will configure up to 128 bits.

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:ADDRess?
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:MODE
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:IICoupled

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:ADDRess?

Description

This query returns the Global IPv6 Address.

At *RST, this value is set to "2001:0000:0000:0000".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:ADDRess?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Address>

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the Global IPv6 Address.

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV: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"

Note

When Interface ID Coupled is enabled, Global IPV6 Address will configure up to 64 MSB and when it is disabled, it will configure up to 128 bits.

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:ADDRess
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:MODE
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:IICoupled

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:MODE

Description

This command selects the Global IPv6 Mode.

At *RST, this value is set to NONE.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:MODE<wsp><Port>,<Mode>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:MODE

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Mode:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: NONE|STATic|SAUTo.

Selects the Global IPv6 mode.

NONE, No Global IPv6 mode is selected.

STATic, selects Static as Global IPv6 mode.

SAUTo, selects Stateless Auto. (SAUTo) 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[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:MODE?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:MODE?

Description

This query returns the Global IPv6 Mode.

At *RST, this value is set to NONE.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:MODE?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Mode>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:MODE?

Response(s)

Mode:

The response data syntax for <Mode> 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[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:MODE

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:PMASk

Description

This command sets the Global IPv6 Address Prefix Mask.

At *RST, this value is set to "0000:0000:0000:0000:0000:0000:0000:0000".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:PMASk<wsp><Port>,<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:PMASk

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Address:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
Sets 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[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:PMASk?
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:MODE

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:PMASk?

Description

This query returns the Global IPv6 Address Prefix Mask.

At *RST, this value is set to "0000:0000:0000:0000:0000:0000:0000:0000".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:PMASk?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:PMASk?

Response(s)

Address:

The response data syntax for <Address> 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[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:PMASk
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:MODE

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:IICoupled

Description

This command enables or disables the Interface ID of the Global IPv6 address.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:IICoupled<wsp><Port>,<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:IICoupled

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the 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[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:IICoupled?
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:MODE

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:IICoupled?

Description

This query returns the status of Interface ID of the Global IPv6 address.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:IICoupled?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:IICoupled?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC 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[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:IICoupled
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:MODE

:FETCh[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:STATus?

Description

This query returns the Global IPv6 Status.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:STATus?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:FETCh[1..n]:DATA:TELecom:ETHernet:PORT:GLOBal:IPV:STATus?

Response Syntax <Status>

Response(s) Status:

The response data syntax for <Status> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the Global IPv6 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:PORT:GLOB:IPV:STAT?

1 Returns the Global IPv6 status.

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:ADDRess

Description

This command sets the Default Gateway IPv6 Address.

At *RST, this value is set to "FE80:0000:0000:0000:0000:0000:0000:0000".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:ADDRess<wsp><Port>,<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:ADDRess

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Address:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.
Sets the Default Gateway IPv6 Address.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:DGAT:IPV:MODE 1,MAN
* 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[1..n]:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:ADDRess?
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:MODE

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:ADDRess?

Description

This query returns the Default Gateway IPv6 Address.

At *RST, this value is set to "FE80:0000:0000:0000:0000:0000:0000:0000".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:ADDRess?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:ADDRess?

Response(s)

Address:

The response data syntax for <Address> 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,MAN
* 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[1..n]:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:ADDRess
* SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:MODE

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:MODE

Description

This command selects the Default Gateway IPv6 Address Mode.

At *RST, this value is set to MANual.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:MODE<wsp><Port>,<Mode>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:MODE

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Mode:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: AUTomatic|MANual.

Selects the Default Gateway IPv6 Address mode.

AUTomatic, selects Automatic as default gateway address mode.

MANual, selects Manual 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[1..n]:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:MODE?

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:MODE?

Description

This query returns the Default Gateway IPv6 Address Mode.

At *RST, this value is set to MANual.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:MODE?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Mode>

:SOURce[1..n]:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:MODE?

Response(s)

Mode:

The response data syntax for <Mode> 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[1..n]:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:MODE

:FETCh[1..n]:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:STATus?

Description

This query returns the Default Gateway IPv6 Address Status.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:

PORT:DGATeway:IPV:STATus?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:FETCh[1..n]:DATA:TELecom:ETHernet:PORT:DGATeway:IPV:STATus?

Response Syntax <Status>

Response(s) Status:

The response data syntax for <Status> 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:PORT:DGAT:IPV:STAT? 1

Returns the Default Gateway IPv6 Address status.

:FETCh[1..n]:DATA:TELecom:ETHernet:PORT:NETWork:FRAMe:FORMat

Description

This command sets the frame format for the Port Network.

At *RST, this value is set to EthernetII.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:PORT:NETWork:FRAMe:FORMat<wsp><Port>, 8023SNAP| ETHERNETII

:FETCh[1..n]:DATA:TELecom:ETHernet:PORT:NETWork:FRAMe:FORMat

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Type:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: 8023SNAP|ETHERNETII.

Selects the Ethernet Frame Format.

8023SNAP, selects 8023SNAP as the Ethernet Frame Format.

ETHERNETII, selects ETHERNETII as the Ethernet Frame Format.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:NETW:FRAM:FORM 8023SNAP

* SOUR:DATA:TEL:ETH:PORT:NETW:FRAM:FORM? Returns 8023SNAP

See Also

* SOURce:DATA:TELecom:ETHernet:PORT:NETWork:FRAMe:FORMat?

:FETCh[1..n]:DATA:TELecom:ETHernet:PORT:NETWork:FRAMe:FORMat?

Description

This query returns the frame format for the Port Network.

At *RST, this value is set to EthernetII.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:PORT:NETWork:FRAMe:FORMat<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Format>

:FETCh[1..n]:DATA:TELecom:ETHernet:PORT:NETWork:FRAMe:FORMat?

Response(s)

Format:

The response data syntax for <Format> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the selected Ethernet Frame Format.

8023SNAP, port is selected as the Frame Format.

ETHERNETII, port is selected as the Frame Format.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:NETW:FRAM:FORM 8023SNAP

* SOUR:DATA:TEL:ETH:PORT:NETW:FRAM:FORM? Returns 8023SNAP

See Also

* SOURce:DATA:TELecom:ETHernet:PORT:NETWork:FRAMe:FORMat

:FETCh[1..n]:DATA:TELecom:ETHernet:PORT:NETWork:FRAMe:FORMat:OUI

Description

This command sets the OUI frame format for the Port Network.

At *RST, this value is set to RFC1042.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:PORT:NETWork:FRAMe:FORMat:OUI<wsp><Port>, RFC1042|8021H

:FETCh[1..n]:DATA:TELecom:ETHernet:PORT:NETWork:FRAMe:FORMat:OUI

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Type:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: RFC1042|8021H.

Selects the Organizational Unique Identifier (OUI) for 8023 Frame Format.

RFC1042, selects RFC1042 as the Organizational Unique Identifier (OUI) for the 8023 Frame Format.

8021H, selects 8021H as the Organizational Unique Identifier (OUI) for the 8023 Frame Format.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:NETW:FRAM:FORM:OUI RFC1042

* SOUR:DATA:TEL:ETH:PORT:NETW:FRAM:FORM:OUI? Returns RFC1042

See Also

* SOURce:DATA:TELecom:ETHernet:PORT:NETWork:FRAMe:FORMat:OUI?

:FETCh[1..n]:DATA:TELecom:ETHernet:PORT:NETWork:FRAMe:FORMat:OUI?

Description

This query returns the OUI frame format for the Port Network.

At *RST, this value is set to RFC1042.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:PORT:NETWork:FRAMe:FORMat:OUI<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<OUI>

:FETCh[1..n]:DATA:TELecom:ETHernet:PORT:NETWork:FRAMe:FORMat:OUI?

Response(s)

OUI:

The response data syntax for <OUI> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the selected Organizational Unique Identifier (OUI) for the 8023 Frame Format.

RFC1042, selects RFC1042 as the Organizational Unique Identifier (OUI) for the 8023 Frame Format.

8021H, selects 8021H as the Organizational Unique Identifier (OUI) for the 8023 Frame Format.

Example(s)

* SOUR:DATA:TEL:ETH:PORT:NETW:FRAM:FORM:OUI RFC1042

* SOUR:DATA:TEL:ETH:PORT:NETW:FRAM:FORM:OUI? Returns RFC1042

See Also

* SOURce:DATA:TELecom:ETHernet:PORT:NETWork:FRAMe:FORMat:OUI

Pattern Command Reference

:SOURce[1..n]:DATA:TELecom:COUPled

Description	This command enables or disables transmitter coupling. At *RST, this value is set to OFF.
Syntax	:SOURce[1..n]:DATA:TELecom:COUPled<wsp><Port>,<Set>

:SOURce[1..n]:DATA:TELecom:COUPled

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the transmitter coupling.

Example(s)

* SOUR:DATA:TEL:COUP 1,ON
* SOUR:DATA:TEL:COUP? 1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:COUPled?

:SOURce[1..n]:DATA:TELecom:COUPled?

Description

This query returns the status of transmitter coupling.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:COUPled? <wsp><Port>

Parameter(s)

Port:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.

Response Syntax

<Set>

Response(s)

Set:
The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.
Returns the coupled status of the transmitter.

Example(s)

* SOUR:DATA:TEL:COUP 1,ON
* SOUR:DATA:TEL:COUP? 1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:COUPled

:SENSe[1..n]:DATA:TELecom:COUPled

Description

This command enables or disables the receiver coupling.

At *RST, this value is set to OFF.

Syntax

:SENSe[1..n]:DATA:TELecom:COUPled<wsp><Port>,<Set>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the receiver coupling.

Example(s)

* SENS:DATA:TEL:COUP 1,ON

* SENS:DATA:TEL:COUP? 1 Returns 1

See Also

* SENSe[1..n]:DATA:TELecom:COUPled?

:SENSe[1..n]:DATA:TELecom:COUPled?

Description

This query returns the status of receiver coupling.

At *RST, this value is set to OFF.

Syntax

:SENSe[1..n]:DATA:TELecom:COUPled? <wsp><Port>

Parameter(s)

Port:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.

Response Syntax

<Set>

Response(s)

Set:
The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.
Returns the coupled status of the receiver.

Example(s)

* SENS:DATA:TEL:COUP 1,ON
* SENS:DATA:TEL:COUP? 1 Returns 1

See Also

* SENSe[1..n]:DATA:TELecom:COUPled

:SOURce[1..n]:DATA:TELecom:POLarity

Description

This command sets the polarity pattern for the transmitter.

At *RST, this value is set to NINVerted.

Syntax

:SOURce[1..n]:DATA:TELecom:POLarity<wsp><Port>,NINVerted|INVerted

:SOURce[1..n]:DATA:TELecom:POLarity

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Polarity:
The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:
NINVerted|INVerted.
Selects the polarity pattern for the transmitter.
NINVerted, selects the polarity as Non Inverted.
INVerted, selects the polarity as Inverted.

Example(s)

* SOUR:DATA:TEL:POL 1,INV
* SOUR:DATA:TEL:POL? 1 Returns INVERTED

See Also

* SOURce[1..n]:DATA:TELecom:PATTern:TYPE
* SOURce[1..n]:DATA:TELecom:POLarity?

:SOURce[1..n]:DATA:TELecom:POLarity?

Description

This query returns the polarity pattern for the transmitter.

At *RST, this value is set to NINVerted.

Syntax

:SOURce[1..n]:DATA:TELecom:POLarity?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Polarity>

:SOURce[1..n]:DATA:TELecom:POLarity?

Response(s)

Polarity:

The response data syntax for <Polarity> is defined as <CHARACTER RESPONSE DATA> element.

Returns polarity pattern for the transmitter.

NINVERTED, Non-Inverted is selected as polarity pattern.

INVERTED, Inverted is selected as polarity pattern.

Example(s)

* SOUR:DATA:TEL:POL 1,INV

* SOUR:DATA:TEL:POL? 1 Returns INVERTED

See Also

* SOURce[1..n]:DATA:TELecom:PATTern:TYPE

* SOURce[1..n]:DATA:TELecom:POLarity

:SENSe[1..n]:DATA:TELecom:POLarity

Description

This command sets the polarity pattern for the receiver.

At *RST, this value is set to NINVerted.

Syntax

:SENSe[1..n]:DATA:TELecom:POLarity<wsp><Port>, NINVerted|INVerted

:SENSe[1..n]:DATA:TELecom:POLarity

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Polarity:

The program data syntax for the second parameter is defined as <CHARACTER PROGRAM DATA> element. The allowed <CHARACTER PROGRAM DATA> elements for this parameters are: NINVerted|INVerted.

Selects polarity pattern for the receiver.

NINVerted, selects Non Inverted as polarity pattern.

INVerted, selects Inverted as polarity pattern.

Example(s)

* SENS:DATA:TEL:POL 1,INV
* SENS:DATA:TEL:POL? 1 Returns INVERTED

See Also

* SENSe[1..n]:DATA:TELecom:PATTern:TYPE
* SENSe[1..n]:DATA:TELecom:POLarity?

:SENSe[1..n]:DATA:TELecom:POLarity?

Description

This query returns the polarity pattern for the receiver.

At *RST, this value is set to NINVerted.

Syntax

:SENSe[1..n]:DATA:TELecom:POLarity?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Polarity>

:SENSe[1..n]:DATA:TELecom:POLarity?

Response(s)

Polarity:

The response data syntax for <Polarity> is defined as <CHARACTER RESPONSE DATA> element.

Returns the polarity pattern for the receiver.

NINVERTED, Non-Inverted is selected as polarity pattern.

INVERTED, Inverted is selected as polarity pattern.

Example(s)

* SENS:DATA:TEL:POL 1,INV
* SENS:DATA:TEL:POL? 1 Returns INVERTED

See Also

* SENSe[1..n]:DATA:TELecom:PATTern:TYPE
* SENSe[1..n]:DATA:TELecom:POLarity

:SOURce[1..n]:DATA:TELecom:PATTern:TYPE

Description

This command sets the payload pattern type for transmitter.

At *RST, this value is set to PRBS2E9.

Syntax

:SOURce[1..n]:DATA:TELecom:PATTern:TYPE

<wsp><Port>,PRBS2E9|PRBS2E11|PRBS2E15|PRBS2E20|PRBS2E23|PRBS2E31|CRPat|CSPat|CJTPat|SCRTpat|LCRTpat|UPATtern

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:SOURce[1..n]:DATA:TELecom:PATTern:TYPE

Pattern:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: PRBS2E9|PRBS2E11|PRBS2E15|PRBS2E20|PRBS2E23|PRBS2E31|CRPat|CSPat|CJTPat|SCRTpat|LCRTpat|UPATtern.

Selects the pattern type for transmitter.

PRBS2E9, selects pattern type as PRBS 2 ^ 9-1.

PRBS2E11, selects pattern type as PRBS 2 ^ 11-1.

PRBS2E15, selects pattern type as PRBS 2 ^ 15-1.

PRBS2E20, selects pattern type as PRBS 2 ^ 20-1.

PRBS2E23, selects pattern type as PRBS 2 ^ 23-1.

PRBS2E31, selects pattern type as PRBS 2 ^ 31-1.

CRPat, selects pattern type as CRPAT.

CSPat, selects pattern type as CSPAT.

CJTPat, selects pattern type as CJTPAT.

SCRTpat, selects pattern type as Short CRTPAT.

LCRTpat, selects pattern type as Long CRTPAT.

UPATtern, selects User Pattern type.

Example(s)

* SOUR:DATA:TEL:PATT:TYPE 1,PRBS2E15

* SOUR:DATA:TEL:PATT:TYPE? 1

Returns PRBS2E15

See Also

* SOURce[1..n]:DATA:TELecom:PATTern:TYPE?

:SOURce[1..n]:DATA:TELecom:PATTern:TYPE?

Description

This query returns the payload pattern type for transmitter.

At *RST, this value is set to PRBS2E9.

Syntax

:SOURce[1..n]:DATA:TELecom:PATTern:TYPE? <wsp><Port>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Pattern>

:SOURce[1..n]:DATA:TELecom:PATTern:TYPE?

Response

Pattern:

The response data syntax for <Pattern> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the pattern type for transmitter.

PRBS2E9, pattern type PRBS 2^9-1 is selected.

PRBS2E11, pattern type PRBS 2^11-1is selected.

PRBS2E15, pattern type PRBS 2^15-1 is selected.

PRBS2E20, pattern type PRBS 2^22-1 is selected.

PRBS2E23, pattern type PRBS 2^23-1 is selected.

PRBS2E31, pattern type PRBS 2^31-1 is selected.

CRPAT, pattern type as CRPAT is selected.

CSPAT, pattern type as CSPAT is selected.

CJTPAT, pattern type as CJTPAT is selected.

SCRTPAT, pattern type as Short CRTPAT is selected.

LCRTPAT, pattern type as Long CRTPAT is selected.

UPATTERN, User Pattern type is selected.

Example(s)

* SOUR:DATA:TEL:PATT:TYPE 1,PRBS2E15

* SOUR:DATA:TEL:PATT:TYPE? 1

Returns PRBS2E15

See Also

* SOURce[1..n]:DATA:TELecom:PATTern:TYPE

:SENSe[1..n]:DATA:TELecom:PATTern:TYPE

Description

This command sets the payload pattern type for the receiver.

At *RST, this value is set to PRBS2E9.

Syntax

:SENSe[1..n]:DATA:TELecom:PATTern:TYPE <wsp><Port>PRBS2E9|PRBS2E11|PRBS2E15|PRBS2E20|PRBS2E23|PRBS2E31|CRPat|CSPat|CJTPat|SCRTpat|LCRTpat|UPATtern

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:SENSe[1..n]:DATA:TELecom:PATTern:TYPE

Type:

The program data syntax for the second parameter is defined as <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: PRBS2E9|PRBS2E11|PRBS2E15|PRBS2E20|PRBS2E23|PRBS2E31|CRPat|CSPat|CJTPat|SCRTpat|LCRTpat|UPATtern.

Selects the pattern type for transmitter.

PRBS2E9, selects pattern type as PRBS 2 ^ 9-1.

PRBS2E11, selects pattern type as PRBS 2 ^ 11-1.

PRBS2E15, selects pattern type as PRBS 2 ^ 15-1.

PRBS2E20, selects pattern type as PRBS 2 ^ 20-1.

PRBS2E23, selects pattern type as PRBS 2 ^ 23-1.

PRBS2E31, selects pattern type as PRBS 2 ^ 31-1.

CRPat, selects pattern type as CRPAT.

CSPat, selects pattern type as CSPAT.

CJTPat, selects pattern type as CJTPAT.

SCRTpat, selects pattern type as Short CRTPAT.

LCRTpat, selects pattern type as Long CRTPAT.

UPATtern, selects User Pattern type.

Example(s)

* SENS:DATA:TEL:PATT:TYPE 1,PRBS2E15

* SENS:DATA:TEL:PATT:TYPE? 1

Returns PRBS2E15

See Also

* SENSe[1..n]:DATA:TELecom:PATTern:TYPE?

:SENSe[1..n]:DATA:TELecom:PATTern:TYPE?

Description

This query returns payload pattern type for the receiver.

At *RST, this value is set to PRBS2E9.

Syntax

:SENSe[1..n]:DATA:TELecom:PATTern:TYPE? <wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Pattern>

:SENSe[1..n]:DATA:TELecom:PATTern:TYPE?

Response(s)

Pattern:

The response data syntax for <Pattern> is defined as <CHARACTER RESPONSE DATA> element.

Returns the pattern type for transmitter.

PRBS2E9, pattern type PRBS 2 ^ 9-1 is selected.

PRBS2E11, pattern type PRBS 2 ^ 11-1is selected.

PRBS2E15, pattern type PRBS 2 ^ 15-1 is selected.

PRBS2E20, pattern type PRBS 2 ^ 22-1 is selected.

PRBS2E23, pattern type PRBS 2 ^ 23-1 is selected.

PRBS2E31, pattern type PRBS 2 ^ 31-1 is selected.

CRPAT, pattern type as CRPAT is selected.

CSPAT, pattern type as CSPAT is selected.

CJTPAT, pattern type as CJTPAT is selected.

SCRTPAT, pattern type as Short CRTPAT is selected.

LCRTPAT, pattern type as Long CRTPAT is selected.

UPATTERN, User Pattern type is selected.

Example(s)

* SENS:DATA:TEL:PATT:TYPE 1,PRBS2E15

* SENS:DATA:TEL:PATT:TYPE? 1

Returns PRBS2E15

See Also

* SENSe[1..n]:DATA:TELecom:PATTern:TYPE

:SOURce[1..n]:DATA:TELecom:PATTern:TYPE:USER:VALue

Description

This command sets the transmitter user pattern value for the specified index.

At *RST, this value is set to #H00000000.

Syntax

:SOURce[1..n]:DATA:TELecom:PATTern:TYPE:USER:VALue<wsp><Pattern>,<Value>

:SOURce[1..n]:DATA:TELecom:PATTern:TYPE:USER:VALue

Parameter(s)

Pattern:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the user pattern for transmitter.

Value:

The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.

Sets the transmitter user pattern value for the specified index.

Example(s)

* SOUR:DATA:TEL:PATT:TYPE 1,UPAT

* SOUR:DATA:TEL:PATT:TYPE:USER:VAL 1,#HFFFF0000

* SOUR:DATA:TEL:PATT:TYPE:USER:VAL? 1
Returns #HFFFF0000

See Also

* SOURce[1..n]:DATA:TELecom:PATTern:TYPE

* SOURce[1..n]:DATA:TELecom:PATTern:TYPE:USER:VALue?

:SOURce[1..n]:DATA:TELecom:PATTern:TYPE:USER:VALue?

Description

This query returns the transmitter user pattern value for the specified index.

At *RST, this value is set to #H00000000.

Syntax

:SOURce[1..n]:DATA:TELecom:PATTern:TYPE:USER:VALue?<wsp><Pattern>

Parameter(s)

Pattern:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the user pattern for transmitter.

Response Syntax

<Value>

:SOURce[1..n]:DATA:TELecom:PATTern:TYPE:USER:VALue?

Response(s)

Value:

The response data syntax for <Value> is defined as a <HEXADECIMAL NUMERIC RESPONSE DATA> element.

Returns the user pattern value for the transmitter.

Example(s)

* SOUR:DATA:TEL:PATT:TYPE 1,UPAT

* SOUR:DATA:TEL:PATT:TYPE:USER:VAL 1,#HFFFF0000

* SOUR:DATA:TEL:PATT:TYPE:USER:VAL? 1
Returns #HFFFF0000

See Also

* SOURce[1..n]:DATA:TELecom:PATTern:TYPE

* SOURce[1..n]:DATA:TELecom:PATTern:TYPE:USER:VALue

:SENSe[1..n]:DATA:TELecom:PATTern:TYPE:USER:VALue

Description

This command sets the receiver user pattern value for the specified index.

At *RST, this value is set to #H00000000.

Syntax

:SENSe[1..n]:DATA:TELecom:PATTern:TYPE:USER:VALue<wsp><Pattern>,<Value>

:SENSe[1..n]:DATA:TELecom:PATTern:TYPE:USER:VALue

Parameter(s)

Pattern:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the user pattern index for the receiver.

Value:

The program data syntax for the second parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.

Sets the user pattern value for the specified index.

Example(s)

* SENS:DATA:TEL:PATT:TYPE 1,UPAT

* SENS:DATA:TEL:PATT:TYPE:USER:VAL 1,#HFFFF0000

* SENS:DATA:TEL:PATT:TYPE:USER:VAL? 1
Returns #HFFFF0000

See Also

* SENSe[1..n]:DATA:TELecom:PATTern:TYPE

* SENSe[1..n]:DATA:TELecom:PATTern:TYPE:USER:VALue?

:SENSe[1..n]:DATA:TELecom:PATTern:TYPE:USER:VALue?

Description

This query returns the receiver user pattern value for the specified index.

At *RST, this value is set to #H00000000.

Syntax

:SENSe[1..n]:DATA:TELecom:PATTern:TYPE:USER:VALue?<wsp><Pattern>

Parameter(s)

Pattern:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the user pattern index for the receiver.

Response Syntax

<Value>

:SENSe[1..n]:DATA:TELecom:PATTern:TYPE:USER:VALue?

Response(s)

Value:

The response data syntax for <Pattern> is defined as a <HEXADECIMAL NUMERIC RESPONSE DATA> element.

Returns the user pattern value for the receiver.

Example(s)

* SENS:DATA:TEL:PATT:TYPE 1,UPAT

* SENS:DATA:TEL:PATT:TYPE:USER:VAL 1,#HFFFF0000

* SENS:DATA:TEL:PATT:TYPE:USER:VAL? 1
Returns #HFFFF0000

See Also

* SENSe[1..n]:DATA:TELecom:PATTern:TYPE

* SENSe[1..n]:DATA:TELecom:PATTern:TYPE:USER:VALue

:SOURce[1..n]:DATA:TELecom:PATTern:ALARm:PATTern

Description

This command enables or disables the pattern alarm generation.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:PATTern:ALARm:PATTern<wsp><Port>,<Set>

:SOURce[1..n]:DATA:TELecom:PATTern:ALARm:PATTern

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the alarm generation.

Example(s)

* SOUR:DATA:TEL:PATT:ALAR:PATT:TYPE 1,PLOS
* SOUR:DATA:TEL:PATT:ALAR:PATT 1,ON
* SOUR:DATA:TEL:PATT:ALAR:PATT? 1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:PATTern:ALARm:PATTern:TYPE
* SOURce[1..n]:DATA:TELecom:PATTern:

A LARm:PATTern?

:SOURce[1..n]:DATA:TELecom:PATTern:ALARm:PATTern?

Description	This query returns the status of pattern alarm generation. At *RST, this value is set to OFF.
Syntax	:SOURce[1..n]:DATA:TELecom:PATTern:ALARm:PATTern?<wsp><Port>
Parameter(s)	Port: The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the port number 1 or 2.
Response Syntax	<Set>

:SOURce[1..n]:DATA:TELecom:PATTern:ALARm:PATTern?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of alarm generation.

Example(s)

* SOUR:DATA:TEL:PATT:ALAR:PATT:TYPE 1,PLOS

* SOUR:DATA:TEL:PATT:ALAR:PATT 1,ON

* SOUR:DATA:TEL:PATT:ALAR:PATT? 1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:PATTern:ALARm:PATTern:TYPE

* SOURce[1..n]:DATA:TELecom:PATTern:ALARm:PATTern

:SOURce[1..n]:DATA:TELecom:PATTern:ALARm:PATTern:TYPE

Description

This command sets the type of pattern alarm.

At *RST, this value is set to PLOSs.

Syntax

:SOURce[1..n]:DATA:TELecom:PATTern:ALARm:PATTern:TYPE<wsp><Port>,PLOSs

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:SOURce[1..n]:DATA:TELecom:PATTern:ALARm:PATTern:TYPE

Alarm:
The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
The allowed <CHARACTER PROGRAM DATA> element for this parameter is: PLOSs.
Selects the type of pattern alarm.
PLOSs, selects the type of pattern alarm as Pattern Loss.

Example(s)

* SOUR:DATA:TEL:PATT:ALAR:PATT:TYPE 1,PLOS
* SOUR:DATA:TEL:PATT:ALAR:PATT:TYPE?1
Returns PLOSS

See Also

* SOURce[1..n]:DATA:TELecom:PATTern:ALARm:PATTern:TYPE?
* SOURce[1..n]:DATA:TELecom:PATTern:ALARm:PATTern

:SOURce[1..n]:DATA:TELecom:PATTern:ALARm:PATTern:TYPE?

Description

This query returns the type of pattern alarm.

At *RST, this value is set to PLOSs.

Syntax

:SOURce[1..n]:DATA:TELecom:PATTern:ALARm:PATTern:TYPE?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Alarm>

:SOURce[1..n]:DATA:TELecom:PATTern:ALARm:PATTern:TYPE?

Response(s)

Alarm:
The response data syntax for <Alarm> is defined as a <CHARACTER RESPONSE DATA> element.
Returns the type of pattern alarm.
PLOSS, Pattern Loss is selected as type of pattern alarm.

Example(s)

* SOUR:DATA:TEL:PATT:ALAR:PATT:TYPE 1,PLOS
* SOUR:DATA:TEL:PATT:ALAR:PATT:TYPE?
Returns PLOSS

See Also

* SOURce[1..n]:DATA:TELecom:PATTern:ALARm:PATTern:TYPE
* SOURce[1..n]:DATA:TELecom:PATTern:ALARm:PATTern

:FETCh[1..n]:DATA:TELecom:PATTern:ALARm:PATTern:HISTory?

Description

This query returns the history status of pattern alarm.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:PATTern:ALARm:HISTory?<wsp><Port>,PLOSs|NTRaffic

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Alarm:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: PLOSs|NTRaffic.

Selects the type of pattern alarm.

PLOSs, selects the type of pattern alarm as Pattern Loss.

NTRaffic, selects the type of pattern alarm as No Traffic.

:FETCh[1..n]:DATA:TELecom:PATTern:ALARm:PATTern:HISTory?

Response Syntax <History>

Response(s) History:

The response data syntax for <History> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the history status of 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) * SOUR:DATA:TEL:PATT:ALAR:PATT:TYPE 1,PLOS

* SOUR:DATA:TEL:PATT:ALAR:PATT 1,ON

* FETC:DATA:TEL:PATT:ALAR:PATT:HIST? 1,PLOS
Returns the alarm history.

See Also * SOURce[1..n]:DATA:TELecom:PATTern:ALARm:PATTern:TYPE

* SOURce[1..n]:DATA:TELecom:PATTern:ALARm:PATTern

:FETCh[1..n]:DATA:TELecom:PATTern:ALARm:PATTern:CURRent?

Description

This query returns the current status of pattern alarm.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:PATTern:ALARm:CURRent?<wsp><Port>,PLOSs|NTRaffic

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Alarm:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: PLOSs|NTRaffic.

Selects the type of pattern alarm.

PLOSs, selects the type of pattern alarm as Pattern Loss.

NTRaffic, selects the type of pattern alarm as No Traffic.

:FETCh[1..n]:DATA:TELecom:PATTern:ALARm:PATTern:CURRent?

Response Syntax

<Current>

Response(s)

Current:

The response data syntax for <Current> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the current status of Pattern alarm.

PRESENT, indicates that at least one alarm has occurred in the last second.

ABSENT, indicates that there is no alarm.

INACTIVE, indicates that the test is not running.

Example(s)

* SOUR:DATA:TEL:PATT:ALAR:PATT:TYPE 1,PLOS

* SOUR:DATA:TEL:PATT:ALAR:PATT 1,ON

* FETC:DATA:TEL:PATT:ALAR:PATT:CURR? 1,PLOS

Returns the current alarm status.

See Also

* SOURce[1..n]:DATA:TELecom:PATTern:ALARm:PATTern:TYPE

* SOURce[1..n]:DATA:TELecom:PATTern:ALARm:PATTern

:FETCh[1..n]:DATA:TELecom:PATTern:ALARm:PATTern:SEConds?

Description

This query returns the number of seconds within which pattern alarm occurred.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:PATTern:ALARm:SEConds?<wsp><Port>,PLOSs|NTRaffic

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Alarm:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: PLOSs|NTRaffic.

Selects the type of pattern alarm.

PLOSs, selects the type of pattern alarm as Pattern Loss.

NTRaffic, selects the type of pattern alarm as No Traffic.

:FETCh[1..n]:DATA:TELecom:PATTern:ALARm:PATTern:SEConds?

Response Syntax <Seconds>

Response(s) Seconds:

The response data syntax for <Seconds> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of seconds of pattern alarm.

Example(s) * SOUR:DATA:TEL:PATT:ALAR:PATT:TYPE 1,PLOS

* SOUR:DATA:TEL:PATT:ALAR:PATT 1,ON

* FETC:DATA:TEL:PATT:ALAR:PATT:SEC? 1,PLOS
Returns the number of alarmed seconds.

See Also * SOURce[1..n]:DATA:TELecom:PATTern:ALARm:PATTern:TYPE

* SOURce[1..n]:DATA:TELecom:PATTern:ALARm:PATTern

:SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE

Description	This command sets the manual type pattern error. At *RST, this value is set to BIT.
Syntax	:SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE<wsp><Port>,BIT

:SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: BIT.

Selects the manual type pattern error.

BIT, selects the manual type pattern error as bit.

Example(s)

* SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE 1,BIT

* SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE? 1 Returns BIT

See Also

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE?

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:INJect

:SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE?

Description

This query returns manual type pattern error.

At *RST, this value is set to BIT.

Syntax

:SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Error>

:SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE?

Response(s)

Error:

The response data syntax for <Error> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the manual type pattern error.

BIT, bit is selected as manual type pattern error.

Example(s)

* SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE 1,BIT

* SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE? 1
Returns BIT

See Also

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:INJect

:SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt

Description

This command sets the amount of pattern error to inject into the instrument.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt<wsp><Port>,<Amount>|MAXimum|MINimum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt

Amount:

The program data syntax for the second parameter is defined as a <numeric_value> element. The allowed <numeric_value> elements for this parameter are:
MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.
Sets the amount of error to inject into the instrument.

Example(s)

* SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE 1,BIT

* SOUR:DATA:TEL:PATT:ERR:PATT:AMO 1,25

* SOUR:DATA:TEL:PATT:ERR:PATT:AMO? 1
Returns 25

See Also

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt?

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:INJect

:SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt?

Description

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

At *RST, this value is set to 1.

Syntax

SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PATTern:AMOunt?<wsp><Port>[,MAXimum|MINimum]

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element. The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current amount will be returned.

:SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt?

Response Syntax

<Amount>

Response(s)

Amount:

The response data syntax for <Amount> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the amount of error injected into the instrument.

Example(s)

* SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE 1,BIT

* SOUR:DATA:TEL:PATT:ERR:PATT:AMO 1,25

* SOUR:DATA:TEL:PATT:ERR:PATT:AMO? 1
Returns 25

See Also

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:INJect

:SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:INJect

Description

This command injects the pattern error into the instrument.

This command is an event and has no associated *RST condition or query form.

Syntax

:SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:INJect<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Example(s)

* SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE 1,BIT

* SOUR:DATA:TEL:PATT:ERR:PATT:AMO 1,25

* SOUR:DATA:TEL:PATT:ERR:PATT:INJ 1

See Also

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt

:FETCh[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:HISTory?

Description

This query returns the history status of pattern error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:HISTory?<wsp><Port>,BIT|MISMATCH0|MISMATCH1

:FETCh[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:HISTory?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: BIT|MISMATCH0|MISMATCH1.

Selects the pattern error.

BIT, selects the pattern error as Bit Error.

MISMATCH0, selects the pattern error as Mismatch '0'.

MISMATCH1, selects the pattern error as Mismatch '1'.

Response Syntax

<History>

:FETCh[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:HISTory?

Response(s)

History:

The response data syntax for <History> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the history status of pattern 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:PATT:ERR:PATT:MAN:TYPE 1,BIT

* SOUR:DATA:TEL:PATT:ERR:PATT:AMO 1,25

* SOUR:DATA:TEL:PATT:ERR:PATT:INJ 1

* FETC:DATA:TEL:PATT:ERR:PATT:HIST? 1,BIT
Returns the error history.

See Also

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:INJect

:FETCh[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:CURRent?

Description

This query returns the current status of pattern error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:CURRent?<wsp><Port>,BIT|MISMATCH0|MISMATCH1

:FETCh[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:CURRent?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: BIT|MISMATCH0|MISMATCH1.

Selects the pattern error.

BIT, selects the pattern error as Bit.

MISMATCH0, selects the pattern error as Mismatch '0'.

MISMATCH1, selects the pattern error as Mismatch '1'.

Response Syntax

<Current>

:FETCh[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:CURRent?

Response(s)

Current:

The response data syntax for <Current> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the current status of pattern 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:PATT:ERR:PATT:MAN:TYPE 1,BIT

* SOUR:DATA:TEL:PATT:ERR:PATT:AMO 1,25

* SOUR:DATA:TEL:PATT:ERR:PATT:INJ 1

* FETC:DATA:TEL:PATT:ERR:PATT:CURR? 1,BIT
Returns the current error status.

See Also

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:INJect

:FETCh[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:SEConds?

Description

This query returns the number of seconds within which pattern error occurred.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:SEConds?<wsp><Port>,BIT|MISMATCH0|MISMATCH1

:FETCh[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:SEConds?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: BIT|MISMATCH0|MISMATCH1.

Selects the pattern error.

BIT, selects the pattern error as Bit.

MISMATCH0, selects the pattern error as Mismatch '0'.

MISMATCH1, selects the pattern error as Mismatch '1'.

Response Syntax

<Seconds>

:FETCh[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:SEConds?

Response(s)

Seconds:

The response data syntax for <Seconds> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of seconds of pattern error.

Example(s)

* SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE 1,BIT

* SOUR:DATA:TEL:PATT:ERR:PATT:AMO 1,25

* SOUR:DATA:TEL:PATT:ERR:PATT:INJ 1

* FETC:DATA:TEL:PATT:ERR:PATT:SEC? 1,BIT
Returns the number of errored seconds.

See Also

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:INJect

:FETCh[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:COUNt?

Description

This query returns the count of pattern error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:COUNt?<wsp><Port>,BIT|MISMATCH0|MISMATCH1

:FETCh[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:COUNt?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: BIT|MISMATCH0|MISMATCH1.

Selects the pattern error.

BIT, selects the pattern error as Bit.

MISMATCH0, selects the pattern error as Mismatch '0'.

MISMATCH1, selects the pattern error as Mismatch '1'.

Response Syntax

<Count>

:FETCh[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:COUNt?

Response(s)

Count:

The response data syntax for <Count> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the count of pattern error.

Example(s)

* SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE 1,BIT

* SOUR:DATA:TEL:PATT:ERR:PATT:AMO 1,25

* SOUR:DATA:TEL:PATT:ERR:PATT:INJ 1

* FETC:DATA:TEL:PATT:ERR:PATT:COUN? 1,BIT
Returns the error count.

See Also

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:INJect

:FETCh[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:RATE?

Description

This query returns the current rate of pattern error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:RATE?<wsp><Port>,BIT|MISMATCH0|MISMATCH1

:FETCh[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:RATE?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: BIT|MISMATCH0|MISMATCH1.

Selects the pattern error.

BIT, selects the pattern error as Bit.

MISMATCH0, selects the pattern error as Mismatch '0'.

MISMATCH1, selects the pattern error as Mismatch '1'.

Response Syntax

<Rate>

:FETCh[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:RATE?

Response(s)

Rate:

The response data syntax for <Rate> is defined as a <NR3 NUMERIC RESPONSE DATA> element.

Returns the current rate of pattern error.

Example(s)

* SOUR:DATA:TEL:PATT:ERR:PATT:MAN:TYPE 1,BIT

* SOUR:DATA:TEL:PATT:ERR:PATT:AMO 1,25

* SOUR:DATA:TEL:PATT:ERR:PATT:INJ 1

* FETC:DATA:TEL:PATT:ERR:PATT:RATE? 1,BIT
Returns the error rate.

See Also

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:MANual:TYPE

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:AMOunt

* SOURce[1..n]:DATA:TELecom:PATTern:ERRor:PATTern:INJect

Traffic Stream Command Reference

:FETCh[1..n]:DATA:TELecom:ETHernet:PAUSe:LAST?

Description

This query returns the last pause time received from the link partner.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:PAUSe:LAST?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:FETCh[1..n]:DATA:TELecom:ETHernet:PAUSe:LAST?

Response Syntax <Last>

Response(s) Last:

The response syntax for <Last> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the last pause time.

Example(s) * FETC:DATA:TEL:ETH:PAUS:LAST? 1

Returns the last paused time.

:FETCh[1..n]:DATA:TELecom:ETHernet:PAUSe:MAXimum?

Description

This query returns the maximum pause time received from the link partner.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:PAUSe:MAXimum?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Maximum>

Response(s)

Maximum:

The response syntax for <Maximum> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the maximum pause time.

Example(s)

* FETC:DATA:TEL:ETH:PAUS:MAX? 1

Returns the maximum pause time.

:FETCh[1..n]:DATA:TELecom:ETHernet:PAUSe:MINimum?

Description

This query returns the minimum pause time received from the link partner.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:PAUSe:MINimum?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Minimum>

Response(s)

Minimum:

The response syntax for <Minimum> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the minimum pause time.

Example(s)

* FETC:DATA:TEL:ETH:PAUS:MIN? 1

Returns the minimum pause time.

:FETCh[1..n]:DATA:TELecom:ETHernet:PAUSe:TIME?

Description

This query returns the total number of pause time received from the link partner.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:PAUSe:TIME?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Time>

Response(s)

Time:

The response syntax for <Time> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the total number of pause time received.

Example(s)

* FETC:DATA:TEL:ETH:PAUS:TIME? 1

Returns the total number of pause time.

:FETCh[1..n]:DATA:TELecom:ETHernet:PAUSe:FRAMes?

Description

This query returns the number of received valid flow-control frames.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:PAUSe:FRAMes?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Frames>

Response(s)

Frames:

The response syntax for <Frames> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of received valid flow-control frames.

Example(s)

* FETC:DATA:TEL:ETH:PAUS:FRAM? 1

Returns the number of pause frames.

:FETCh[1..n]: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, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:PAUSe:FRAMes:ABORt?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Abort>

Response(s)

Abort:

The response syntax for <Abort> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of received pause frames.

Example(s)

* FETC:DATA:TEL:ETH:PAUS:FRAM:ABOR? 1

Returns the number of received pause frames.

:FETCh[1..n]:DATA:TELecom:ETHernet:PAUSe:FRAMes:TX?

Description

This query returns the number of flow control pause frames transmitted.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:PAUSe:FRAMes:TX?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:FETCh[1..n]:DATA:TELecom:ETHernet:PAUSe:FRAMes:TX?

Response Syntax <Frametx>

Response(s) Frametx:

The response syntax for <Frametx> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of flow control pause frames transmitted.

Example(s) * FETC:DATA:TEL:ETH:PAUS:FRAM:TX? 1

Returns the number of transmitted flow control pause frames.

:FETCh[1..n]:DATA:TELecom:ETHernet:PAUSe:FRAMes:RX?

Description

This query returns the number of flow control pause frames received.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:PAUSe:FRAMes:RX?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Framerx>

Response(s)

Framerx:

The response syntax for <Framerx> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of flow control frames received.

Example(s)

* FETC:DATA:TEL:ETH:PAUS:FRAM:RX? 1

Returns the number of received flow control frames.

:FETCh[1..n]:DATA:TELecom:ETHernet:COUNt:FRAMes:RX?

Description

This query returns the count of flow control frames received.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:COUNt:FRAMes:RX?<wsp><Port><Tgen>

Parameter(s)

Port:
The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.
Tgen:
The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

:FETCh[1..n]:DATA:TELecom:ETHernet:COUNt:FRAMes:RX?

Response Syntax <Framerx>

Response(s) Framerx:
The response syntax for <Framerx> is defined as a <NR1 NUMERIC RESPONSE DATA> element.
Returns the count of flow control frames received.

Example(s) * FETC:DATA:TEL:ETH:COUN:FRAM:RX? 1,1
Returns the number of received flow control frames.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:JITTer

Description

This command enables or disables the jitter modulation state for the selected traffic stream.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:

STReam:JITTer<wsp><Port>,<Tgen>,<Set>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the traffic stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:JITTer

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the jitter modulation state for the selected traffic stream.

Example(s)

* SOUR:DATA:TEL:ETH:STR:JITT 1,1,ON
* SOUR:DATA:TEL:ETH:STR:JITT? 1,1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:JITTer?
* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:TYPE

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:JITTer?

Description

This query returns the status of jitter modulation state for the selected traffic stream.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:

STReam:JITTer?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the traffic stream from 1 to 10.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:JITTer?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of the jitter modulation state.

Example(s)

* SOUR:DATA:TEL:ETH:STR:JITT 1,1,ON

* SOUR:DATA:TEL:ETH:STR:JITT? 1,1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:JITTer

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:TYPE

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:TYPE

Description

This command sets the jitter packet type for the selected traffic stream.

At *RST, this value is set to VG711.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:TYPE<wsp><Port>,<Tgen>,VG711|VG723|VG729|UDEFined

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the traffic stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:TYPE

Parameter(s)

Jitter:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

VG711|VG723|VG729|UDEFined.

Selects the jitter packet type.

VG711, selects VG711 as jitter packet type.

VG723, selects VG723 as jitter packet type.

VG729, selects VG729 as jitter packet type.

UDEFined, selects the User Defined as jitter packet type.

Example(s)

* SOUR:DATA:TEL:ETH:STR:JITT 1,1,ON

* SOUR:DATA:TEL:ETH:STR:JITT:TYPE 1,1,VG723

* SOUR:DATA:TEL:ETH:STR:JITT:TYPE? 1,1

Returns VG723

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:JITTer

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:TYPE?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:TYPE?

Description

This query returns the jitter packet type for the selected traffic stream.

At *RST, this value is set to VG711.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:

STReam:JITTer:TYPE?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA>

element.

Selects the traffic stream from 1 to 10.

Response Syntax

<Jitter>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:TYPE?

Response(s)

Jitter:

The response data syntax for <Jitter> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the jitter packet type.

VG711, VG711 as jitter packet type is selected.

VG723, VG723 as jitter packet type is selected.

VG729, VG729 as jitter packet type is selected.

UDEFINED, User Defined as jitter packet type is selected.

Example(s)

* SOUR:DATA:TEL:ETH:STR:JITT 1,1,ON

* SOUR:DATA:TEL:ETH:STR:JITT:TYPE 1,1,VG723

* SOUR:DATA:TEL:ETH:STR:JITT:TYPE? 1,1

Returns VG723

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:JITTer

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:TYPE

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:SAMPles?

Description

This query returns the number of measurement samples.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:SAMPles?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Samples>

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:SAMPles?

Response(s)	Samples: The response syntax for <Samples> is defined as a <STRING RESPONSE DATA> element. Returns the number of measurement samples.
Example(s)	* SOUR:DATA:TEL:ETH:STR:JITT 1,1,ON * FETC:DATA:TEL:ETH:STR:JITT:SAMP? 1 Returns the number of measurement samples.
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:JITTer

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer

Description

This command enables or disables the corresponding Filter for a specific Filter No.

At *RST, this value is set to OFF.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer<wsp><Port>,<Filterno>,<Set>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element. The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the corresponding filter for a specific Filter No.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT 1,1,ON

* SENS:DATA:TEL:ETH:STR:FILT? 1,1 Returns 1

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer?

Description

The query returns the status of corresponding Filter for a specific Filter No.

At *RST, this value is set to OFF.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer?<wsp><Port>,<Filterno>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Response Syntax

<Set>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the status of corresponding Filter for a specific Filter No.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT 1,1,ON

* SENS:DATA:TEL:ETH:STR:FILT? 1,1 Returns 1

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

Description

This command selects the Filter Type.

At *RST, this value is set to NONE.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE<wsp><Port>, <Filterno>, <Filter>, NONE | DMAC | SMAC | VLANid | VPRiority | VLAN2ID | V2PRIORITY | VLAN3ID | V3PRIORITY | IPDestination | IPSource | TOS | PRECedence | DSERvices | TDEStination | TSOurce | UDEStination | USOurce | ETHertype | IPPRotocol | IPVDestination | IPVSource | IPVFlabel | IPVNheader | MLABEL1 |MLABEL2 | MCOS1| MCOS2 | IPVTclass | IPVPrecedence| IPVDiffserv | PBVPriority | PBITsid | PBITPriority | PBMDest |PBVID | PBMSource|FRAMeformat

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Type:

The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: NONE | DMAC | SMAC | VLANid | VPRiority | VLAN2ID | V2PRIORITY | VLAN3ID | V3PRIORITY | IPDestination | IPSource | TOS | PRECedence | DSERvices | TDEStination | TSOurce | UDEStination | USOurce | ETHertype | IPPRotocol | IPVDestination | IPVSource | IPVFlabel | IPVNheader | MLABEL1 |MLABEL2 | MCOS1| MCOS2 | IPVTclass | IPVPrecedence| IPVDiffserv | PBVPriority | PBITsid | PBITPriority | PBMDest |PBVID | PBMSource|FRAMeformat.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

Selects the filter type.

None, No filter is selected.

DMAC, selects the Destination MAC address.

SMAC, selects the Source MAC address.

VLANid, selects VLAN ID (Identification).

VPRiority, selects VLAN Priority.

VLAN2ID, selects VLAN ID 2.

V2PRIORITY, selects VLAN Priority 2.

VLAN3ID, selects VLAN ID 3.

V3PRIORITY, selects VLAN Priority 3.

IPDestination, selects the Destination IP address.

IPSource, selects the IP Source address.

TOS, selects Type of Service (TOS).

PRECedence, selects Precedence.

DSERvices, selects Differentiated Services.

TDEStination, selects TCP Destination port.

TSOurce, selects TCP Source port.

UDEStination, selects UDP Destination port.

USOurce, selects UDP Source port.

ETHertype, selects Ether Type.

IPPRotocol, selects IP Protocol.

IPVDestination, selects IPv6 Destination address.

IPVSource, selects IPv6 Source address.

IPVFlabel, selects IPV6 Flow Label.

IPVNheader, selects IPv6 Next Header.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

IPVTclass, selects IPv6 Traffic Class.

IPVPrecedence, selects IPv6 Precedence.

IPVDiffserv, selects IPv6 Differentiated Services.

FRAMeformat, selects the frame format.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,TOS

* SENS:DATA:TEL:ETH:STR:FILT:TYPE? 1,1,1
Returns TOS

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE?

Description

This query returns the Filter Type.

At *RST, this value is set to NONE.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE?<wsp><Port>, <Filterno>, <Filter>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Type>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE?

Response(s)

Type:

The response data syntax for <Type> is defined as <CHARACTER RESPONSE DATA> element.

Returns the filter type.

None, No filter is selected.

DMAC, selects the Destination MAC address.

SMAC, selects the Source MAC address.

VLANid, selects VLAN ID (Identification).

VPRiority, selects VLAN Priority.

VLAN2ID, selects VLAN ID 2.

V2PRIORITY, selects VLAN Priority 2.

VLAN3ID, selects VLAN ID 3.

V3PRIORITY, selects VLAN Priority 3.

IPDestination, selects the Destination IP address.

IPSource, selects the IP Source address.

TOS, selects Type of Service (TOS).

PRECedence, selects Precedence.

DSERvices, selects Differentiated Services.

TDEStination, selects TCP Destination port.

TSOurce, selects TCP Source port.

UDEStination, selects UDP Destination port.

USOurce, selects UDP Source port.

ETHertype, selects Ether Type.

IPPRotocol, selects IP Protocol.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE?

IPVDestination, selects IPv6 Destination address.

IPVSource, selects IPv6 Source address.

IPVFlabel, selects IPV6 Flow Label.

IPVNheader, selects IPv6 Next Header.

IPVTclass, selects IPv6 Traffic Class.

IPVPrecedence, selects IPv6 Precedence.

IPVDiffserv, selects IPv6 Differentiated Services.

FRAMeformat, selects the frame format.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,TOS

* SENS:DATA:TEL:ETH:STR:FILT:TYPE? 1,1,1
Returns TOS

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:IP

Description

This command sets the destination Internet Protocol (IP) address, if Filter type is IP address for a specific Filter No.

At *RST, this value is set to "0.0.0.0".

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:IP<wsp<Filterno>, <Filter>, <Address>

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.

Filter:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:IP

Address:

The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element.

Sets the Destination IP address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1,IPD

* SENS:DATA:TEL:ETH:STR:FILT:DEST:IP 2,1,"0.1.1.1"

* SENS:DATA:TEL:ETH:STR:FILT:DEST:IP? 2,1 Returns:"0.1.1.1"

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:IP

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:IP?

Description

This query returns the destination Internet Protocol (IP) address, if Filter type is IP address for a specific Filter No.

At *RST, this value is set to "0.0.0.0".

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:IP?<wsp><Filterno>,<Filter>

Parameter(s)

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:IP?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the destination IP address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1,IPD

* SENS:DATA:TEL:ETH:STR:FILT:DEST:IP 2,1,"0.1.1.1"

* SENS:DATA:TEL:ETH:STR:FILT:DEST:IP? 2,1 Returns:"0.1.1.1"

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:IP

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:MAC

Description

This command sets the destination Media Access Control (MAC) address, if Filter type is MAC address for a specific Filter No.

At *RST, this value is set to "00:00:00:00:00:00".

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:MAC<wsp><Port>,<Filterno>,<Filter>,<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:MAC

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:MAC

Address:

The program data syntax for the fourth parameter is defined as a <STRING PROGRAM DATA> element.

Sets the destination MAC address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,DMAC

* SENS:DATA:TEL:ETH:STR:FILT:DEST:MAC 1,1,1,"FE:FE:FE:FE:00:00"

* SENS:DATA:TEL:ETH:STR:FILT:DEST:MAC? 1,1,1 Returns "FE:FE:FE:FE:00:00"

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:MAC?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:MAC?

Description

This query returns the destination Media Access Control (MAC) address, if Filter type is MAC address for a specific Filter No.

At *RST, this value is set to "00:00:00:00:00:00".

Syntax

:SENSe[1..n]:DATA:TELecom:ETHeret:STReam:FILTer:DESTinaion:MAC?<wsp> <Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:MAC?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:MAC?

Response(s)

Address:

The response data syntax for <Address> is defined as <STRING RESPONSE DATA> element.

Returns the destination MAC address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,DMAC

* SENS:DATA:TEL:ETH:STR:FILT:DEST:MAC 1,1,1,"FE:FE:FE:FE:00:00"

* SENS:DATA:TEL:ETH:STR:FILT:DEST:MAC? 1,1,1
Returns "FE:FE:FE:FE:00:00"

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:MAC

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:TCP

Description

This command sets the Transmission Control Protocol (TCP) destination port, if Filter type is TCP destination port for a specific Filter No.

At *RST, this value is set to 0.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:TCP<wsp><Port>,<Filterno>,<Filter>,<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:TCP

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:TCP

Address:

The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the destination TCP address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,TDES

* SENS:DATA:TEL:ETH:STR:FILT:DEST:TCP 1,1,1,50

* SENS:DATA:TEL:ETH:STR:FILT:DEST:TCP? 1,1,1
Returns 50

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:TCP?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:TCP?

Description

This query returns the Transmission Control Protocol (TCP) destination port, if Filter type is TCP destination port for a specific Filter No.

At *RST, this value is set to 0

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:TCP?<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:TCP?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:TCP?

Response(s)

Address:

The response data syntax for <Address> is defined as <NR1 NUMERIC RESPONSE DATA> element.

Returns the destination TCP port address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,TDES

* SENS:DATA:TEL:ETH:STR:FILT:DEST:TCP 1,1,1,50

* SENS:DATA:TEL:ETH:STR:FILT:DEST:TCP? 1,1,1
Returns 50

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:TCP

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:UDP

Description

This command sets the User Datagram Protocol (UDP) destination port, if Filter type is UDP destination port for a specific Filter No.

At *RST, this value is set to 0

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:UDP<wsp><Port>,<Filterno>,<Filter>,<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:UDP

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:UDP

Address:

The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the destination UDP address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,UDES

* SENS:DATA:TEL:ETH:STR:FILT:DEST:UDP 1,1,1,50

* SENS:DATA:TEL:ETH:STR:FILT:DEST:UDP? 1,1,1
Returns 50

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:UDP?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:UDP?

Description

This query returns the User Datagram Protocol (UDP) destination port, if Filter type is UDP destination port for a specific Filter No.

At *RST, this value is set to 0.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:UDP?<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:UDP?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:UDP?

Response(s)

Address:

The response data syntax for <Address> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the destination UDP port address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,UDES

* SENS:DATA:TEL:ETH:STR:FILT:DEST:UDP 1,1,1,50

* SENS:DATA:TEL:ETH:STR:FILT:DEST:UDP? 1,1,1
Returns 50

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:UDP

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DSERvices

Description

This command sets the value of differentiated services, if Filter type is differentiated services for a specific Filter No.

At *RST, this value is set to #B000000.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DSERvices<wsp><Port>,<Filterno>,<Filter>,<Dservices>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DSERvices

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DSERvices

Dservices:

The program data syntax for the fourth parameter is defined as <NONDECIMAL NUMERIC PROGRAM DATA> element.

Sets the value of differentiated services.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,DSER

* SENS:DATA:TEL:ETH:STR:FILT:DSER 1,1,1,#B111111

* SENS:DATA:TEL:ETH:STR:FILT:DSER? 1,1,1
Returns #B111111

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* ENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DSERvices?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DSERvices?

Description

This query returns the value of differentiated services, if Filter type is differentiated services for a specific Filter No.

At *RST, this value is set to #B000000.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DSERvices?<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DSERvices?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Dservices>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DSERvices?

Response(s)

Dservices:

The response data syntax for <Dservices> is defined as a <BINARY RESPONSE DATA> element.

Returns the value of differentiated services.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,DSER

* SENS:DATA:TEL:ETH:STR:FILT:DSER 1,1,1,#B111111

* SENS:DATA:TEL:ETH:STR:FILT:DSER? 1,1,1
Returns #B111111

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DSERvices

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:PRECedence

Description

This command sets the value of precedence, if Filter type is precedence for a specific Filter No.

At *RST, this value is set to #B000.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:PRECedence<wsp><Port>,<Filterno>,<Filter>,<Precedence>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:PRECedence

Precedence:

The program data syntax for the fourth parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.

Sets the value of precedence.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,PREC

* SENS:DATA:TEL:ETH:STR:FILT:PREC 1,1,1,#B111

* SENS:DATA:TEL:ETH:STR:FILT:PREC? 1,1,1
Returns #B111

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:PRECedence?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:PRECedence?

Description

This query returns the value of precedence, if Filter type is precedence for a specific Filter No.

At *RST, this value is set to #B000.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:PRECedence?<wsp><Port>,<Filterno>,<Filter>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:PRECedence?

Response Syntax <Precedence>

Response(s) Precedence:

The response data syntax for <Precedence> is defined as a <BINARY RESPONSE DATA> element.

Returns the value of precedence.

Example(s) * SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,PREC

* SENS:DATA:TEL:ETH:STR:FILT:PREC 1,1,1,#B111

* SENS:DATA:TEL:ETH:STR:FILT:PREC? 1,1,1
Returns #B111

See Also * SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:PRECedence

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IP

Description

This command sets the source IP address, if filter type is source IP address for a specific Filter No.

At *RST, this value is set to "0.0.0.0".

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IP<wsp><Port>,<Filterno>,<Filter>,<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IP

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IP

Address:

The program data syntax for the fourth parameter is defined as a <STRING PROGRAM DATA> element.

Sets the source filter IP address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,IPS

* SENS:DATA:TEL:ETH:STR:FILT:SOUR:IP 1,1,1,"0.1.1.1"

* SENS:DATA:TEL:ETH:STR:FILT:SOUR:IP? 1,1,1
Returns "0.1.1.1"

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IP?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IP?

Description

This query returns the source IP address, if Filter type is source IP address for a specific Filter No.

At *RST, this value is set to "0.0.0.0".

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IP?<wsp><Port>,<Filterno>,<Filter>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IP?

Response Syntax

<Address>

Response(s)

Address:

The response data syntax for <Address> is defined as <STRING RESPONSE DATA> element.

Returns source IP address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,IPS

* SENS:DATA:TEL:ETH:STR:FILT:SOUR:IP 1,1,1,"0.1.1.1"

* SENS:DATA:TEL:ETH:STR:FILT:SOUR:IP? 1,1,1
Returns "0.1.1.1"

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IP

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:MAC

Description

This command sets the source MAC address, if filter type is MAC address source for a specific Filter No.

At *RST, this value is set to "00:00:00:00:00:00".

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:MAC<wsp><Port>,<Filterno>,<Filter>,<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:MAC

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:MAC

Address:

The program data syntax for the fourth parameter is defined as a <STRING PROGRAM DATA> element.

Sets the source MAC address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,SMAC

* SENS:DATA:TEL:ETH:STR:FILT:SOUR:MAC 1,1,1,"FE:FE:FE:FE:00:00"

* SENS:DATA:TEL:ETH:STR:FILT:SOUR:MAC? 1,1,1 Returns "FE:FE:FE:FE:00:00"

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:MAC?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:MAC?

Description

This query returns the source MAC address, if filter type is MAC address source for a specific Filter No.

At *RST, this value is set to "00:00:00:00:00:00".

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:MAC?<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:MAC?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:MAC?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the source MAC address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,SMAC

* SENS:DATA:TEL:ETH:STR:FILT:SOUR:MAC 1,1,1,"FE:FE:FE:FE:00:00"

* SENS:DATA:TEL:ETH:STR:FILT:SOUR:MAC? 1,1,1 Returns "FE:FE:FE:FE:00:00"

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:MAC

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:TCP

Description

This command sets the TCP source port value, if Filter type is TCP source port for a specific Filter No.

At *RST, this value is set to 0.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:TCP<wsp><Port>,<Filterno>,<Filter>,<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:TCP

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:TCP

Address:

The program data syntax for the fourth parameter is defined as <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the source TCP port address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,TSO

* SENS:DATA:TEL:ETH:STR:FILT:SOUR:TCP 1,1,1,65

* SENS:DATA:TEL:ETH:STR:FILT:SOUR:TCP? 1,1,1
Returns 65

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:TCP?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:TCP?

Description

This query returns the Transport Control Protocol (TCP) source port value, if Filter type is TCP source port for a specific Filter No.

At *RST, this value is set to 0.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:TCP?<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:TCP?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:TCP?

Response(s)

Address:

The response data syntax for <Address> is defined as <NR1 NUMERIC RESPONSE DATA> element.

Returns the source TCP port address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,TSO

* SENS:DATA:TEL:ETH:STR:FILT:SOUR:TCP 1,1,1,65

* SENS:DATA:TEL:ETH:STR:FILT:SOUR:TCP? 1,1,1
Returns 65

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:TCP

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:UDP

Description

This command sets the User Data Protocol (UDP) source port, if Filter type is UDP source port for a specific Filter No.

At *RST, this value is set to 0.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:UDP<wsp><Port>,<Filterno>,<Filter>,<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:UDP

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:UDP

Address:

The program data syntax for the fourth parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.

Sets the source UDP port address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,USO

* SENS:DATA:TEL:ETH:STR:FILT:SOUR:UDP 1,1,1,65

* SENS:DATA:TEL:ETH:STR:FILT:SOUR:UDP? 1,1,1 Returns 65

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:UDP?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam :FILTer:SOURce:UDP?

Description

This query returns the User Data Protocol (UDP) source port, if Filter type is UDP source port for a specific Filter No.

At *RST, this value is set to 0.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam: FILTer:SOURce:UDP?<wsp><Port>, <Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam :FILTer:SOURce:UDP?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam :FILTer:SOURce:UDP?

Response(s)

Address:

The response data syntax for <Address> is defined as <NR1 NUMERIC RESPONSE DATA> element.

Returns source UDP port address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,USO

* SENS:DATA:TEL:ETH:STR:FILT:SOUR:UDP 1,1,1,65

* SENS:DATA:TEL:ETH:STR:FILT:SOUR:UDP? 1,1,1 Returns 65

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet: STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet: STReam:FILTer:SOURce:UDP

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TOS

Description

This command sets the Type of Service (TOS) value, if Filter type is TOS for a specific Filter No.

At *RST, this value is set to #B00000000.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TOS<wsp><Port>,<Filterno>,<Filter>,<Tos>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TOS

Tos:

The program data syntax for the fourth parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.

Sets the Type of Service (TOS) value.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,TOS

* SENS:DATA:TEL:ETH:STR:FILT:TOS 1,1,1,#B11111111

* SENS:DATA:TEL:ETH:STR:FILT:TOS? 1,1,1
Returns #B11111111

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TOS?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TOS?

Description

This query returns the Type of Service (TOS) value, if Filter type is TOS for a specific Filter No.

At *RST, this value is set to #B00000000.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TOS?<wsp><Port>,<Filterno>,<Filter>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TOS?

Response Syntax

<Tos>

Response(s)

Tos:

The response data syntax for <Tos> is defined as <BINARY RESPONSE DATA> element.

Returns the value of the Type of Service (TOS) value

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,TOS

* SENS:DATA:TEL:ETH:STR:FILT:TOS 1,1,1,#B11111111

* SENS:DATA:TEL:ETH:STR:FILT:TOS? 1,1,1
Returns #B11111111

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TOS

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FRAMe:FORMat

Description

This command sets the filter frame format for a specific filter type.

At *RST, this value is set to "0.0.0.0".

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FRAMe:FORMat<wsp><Port>, <Filterno>, <Filter>, ETHERNETII|8023SNAP|8023LLC

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FRAMe:FORMat

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Format:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: ETHERNETII|8023SNAP|8023LLC.

Selects the Destination IP address.

ETHERNETII is selected as the Filter Frame Format.

8023SNAP is selected as the Filter Frame Format.

8023LLC is selected as the Filter Frame Format.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FRAMe:FORMat

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1,FRAMeformat

* SENS:DATA:TEL:ETH:STR:FILT:FRAM:FORM 2,1,8023LLC

* SENS:DATA:TEL:ETH:STR:FILT:FRAM:FORM? 2,1
Returns:8023LLC

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:FRAMe:FORMat

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FRAMe:FORMat?

Description

This query returns the filter frame format for a specific filter type.

At *RST, this value is set to "0.0.0.0".

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FRAMe:FORMat?<wsp><Port>, <Filterno>, <Filter>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FRAMe:FORMat?

Response Syntax <Type>

Response(s)

Type:

The response data syntax for <Type> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the destination IP address.

ETHERNETII, selects ETHERNETII as the Filter Frame Format.

8023SNAP, selects 8023SNAP as the Filter Frame Format.

8023LLC, selects 8023LLC as the Filter Frame Format.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 2,1,FRAMeformat

* SENS:DATA:TEL:ETH:STR:FILT:FRAM:FORM 2,1,8023LLC

* SENS:DATA:TEL:ETH:STR:FILT:FRAM:FORM? 2,1
Returns:8023LLC

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:FRAMe:FORMat

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID

Description

This command sets the value of VLAN identifier, if Filter type is VLAN ID for a specific Filter No.

At *RST, this value is set to 0

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID<wsp><Port>, <Filterno>, <Filter>, <Vlan>, <Id>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID

Parameter(s)

Vlan:

The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Sets the VLAN.

Selects the VLAN range from 1 to 3.

Id:

The program data syntax for the fifth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Sets the value of VLAN identifier.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,VLAN

* SENS:DATA:TEL:ETH:STR:FILT:VLAN:ID 1,1,1,4095

* SENS:DATA:TEL:ETH:STR:FILT:VLAN:ID? 1,1,1
Returns 4095

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID?

Description

This query returns the value of VLAN identifier, if Filter type is VLAN ID for a specific Filter No.

At *RST, this value is set to 0.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID?<wsp><Port>,<Filterno>,<Filter>,<Vlan>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID?

Vlan:

The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the VLAN.

Selects the VLAN range from 1 to 3.

Response Syntax

<Id>

Response(s)

Id:

The response data syntax for <Id> is defined as <NR1 NUMERIC RESPONSE DATA> element.

Returns the value of VLAN identifier.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,VLAN

* SENS:DATA:TEL:ETH:STR:FILT:VLAN:ID 1,1,1,4095

* SENS:DATA:TEL:ETH:STR:FILT:VLAN:ID? 1,1,1
Returns 4095

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:ID

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRIority

Description

This command sets the value of VLAN priority, if Filter type is VLAN priority for a specific Filter No.

At *RST, this value is set to 0.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRIority<wsp><Port>,<Filterno>,<Filter>,<Vlan>,<Priority>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRIority

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRIority

Vlan:

The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the VLAN.

Selects the VLAN range from 1 to 3.

Priority:

The program data syntax for the fifth parameter is defined as <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the value of VLAN priority.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,VPR
* SENS:DATA:TEL:ETH:STR:FILT:VLAN:PRI 1,1,1,1,7
* SENS:DATA:TEL:ETH:STR:FILT:VLAN:PRI? 1,1,1,1 Returns 7

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE
* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRIority?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRIority?

Description

This query returns the value of Virtual Local Area Network (VLAN) priority, if Filter type is VLAN priority for a specific Filter No.

At *RST, this value is set to 0.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRIority?<wsp><Port>,<Filterno>,<Filter>,<Vlan>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRIority?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Vlan:

The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Sets the VLAN.

Selects the VLAN range from 1 to 3.

Response Syntax

<Priority>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRIority?

Response(s)

Priority:

The response data syntax for <Priority> is defined as <NR1 NUMERIC RESPONSE DATA> element.

Returns the value of VLAN priority.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,VPR

* SENS:DATA:TEL:ETH:STR:FILT:VLAN:PRI 1,1,1,1,7

* SENS:DATA:TEL:ETH:STR:FILT:VLAN:PRI? 1,1,1,1 Returns 7

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:VLAN:PRIority

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:IPPRotocol

Description

This command sets IP Protocol, if Filter type is IP Protocol for a specific Filter No.

At *RST, this value is set to #H17.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:IPPRotocol<wsp><Port>,<Filterno>,<Filter>,<Ipprotocol>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:IPPRotocol

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Ipprotocol:

The program data syntax for the fourth parameter is defined as a <NONDECIMAL PROGRAM DATA> element.
Sets the value of IP Protocol.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:IPPRotocol

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,IPPR
* SENS:DATA:TEL:ETH:STR:FILT:IPPR 1,1,1,#H17
* SENS:DATA:TEL:ETH:STR:FILT:IPPR? 1,1,1
Returns #H17

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:IPPRotocol?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:IPPRotocol?

Description

This query returns the IP Protocol, if Filter type is IP Protocol for a specific Filter No.

At *RST, this value is set to #H17.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:IPPRotocol?<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:IPPRotocol?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Ipprotocol>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:IPPRotocol?

Response(s)

Ipprotocol:

The response data syntax for <Ipprotocol> is defined as a <HEXADECIMAL NUMERIC RESPONSE DATA>

element.

Returns the IP Protocol.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,IPPR

* SENS:DATA:TEL:ETH:STR:FILT:IPPR 1,1,1,#H17

* SENS:DATA:TEL:ETH:STR:FILT:IPPR? 1,1,1
Returns #H17

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:IPPRotocol

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:ETHertype

Description

This command sets EtherType, if Filter type is EtherType for a specific Filter No.

At *RST, this value is set to #H2048.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:ETHertype<wsp><Port>,<Filterno>,<Filter>,<Type>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:ETHertype

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:ETHertype

Type:

The program data syntax for the fourth parameter is defined as a <NONDECIMAL PROGRAM DATA> element.

Sets the value of Ether Type.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,ETH

* SENS:DATA:TEL:ETH:STR:FILT:ETH 1,1,1,#H2048

* SENS:DATA:TEL:ETH:STR:FILT:ETH? 1,1,1
Returns #H2048

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:ETHertype?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:ETHertype?

Description

This query returns the EtherType, if Filter type is EtherType for a specific Filter No.

At *RST, this value is set to #H2048.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:ETHertype?<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:ETHertype?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<lpprotocol>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:ETHertype?

Response(s)

Type:

The response data syntax for <lpprotocol> is defined as a <HEXADECIMAL NUMERIC RESPONSE DATA> element.

Returns the Ether Type.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,ETH

* SENS:DATA:TEL:ETH:STR:FILT:ETH 1,1,1,#H2048

* SENS:DATA:TEL:ETH:STR:FILT:ETH? 1,1,1
Returns #H2048

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:ETHertype

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:IP

Description

This command sets the Mask Destination IP address, if Filter type is IP address for a specific Filter No.

At *RST, this value is set to "255.255.255.255".

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:IP<wsp><Port>,<Filterno>,<Filter>,<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:IP

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:IP

Address:

The program data syntax for the fourth parameter is defined as a <STRING PROGRAM DATA> element.

Sets the Mask Destination IP address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,IPD

* SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:IP 1,1,1,"255.255.255.255"

* SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:IP? 1,1,1 Returns "255.255.255.255"

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:IP?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:IP?

Description

This query returns the Mask Destination IP address, if Filter type is IP address for a specific Filter No.

At *RST, this value is set to "255.255.255.255".

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:IP?<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:IP?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax <Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:IP?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA>

element.

Returns the Destination IP address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,IPD

* SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:IP 1,1,1,"255.255.255.255"

* SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:IP? 1,1,1 Returns "255.255.255.255"

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:IP

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:MAC

Description

This command sets the Mask Destination MAC address, if Filter type is MAC address for a specific Filter No.

At *RST, this value is set to "FF:FF:FF:FF:FF:FF".

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:MAC<wsp><Port>,<Filterno>,<Filter>,<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:MAC

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:MAC

Address:

The program data syntax for the fourth parameter is defined as a <STRING PROGRAM DATA> element.

Sets the Mask Destination MAC address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,DMAC

* SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:MAC 1,1,1,"FF:FF:FF:FF:FF:FF"

* SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:MAC? 1,1,1 Returns "FF:FF:FF:FF:FF:FF"

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:MAC?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:MAC?

Description

This query returns the Mask Destination MAC address, if Filter type is MAC address for a specific Filter No.

At *RST, this value is set to "FF:FF:FF:FF:FF:FF".

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:MAC?<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:MAC?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax <Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:MAC?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA>

element.

Returns the Destination MAC address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,DMAC

* SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:MAC 1,1,1,"FF:FF:FF:FF:FF:FF"

* SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:MAC? 1,1,1 Returns "FF:FF:FF:FF:FF:FF"

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:MAC

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:TCP

Description

This command sets the Mask TCP Destination Port, if Filter type is TCP Destination Port for a specific Filter No.

At *RST, this value is set to #HFFFF.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:TCP<wsp><Port>,<Filterno>,<Filter>,<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:TCP

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:TCP

Address:

The program data syntax for the fourth parameter is defined as a <NONDECIMAL PROGRAM DATA> element.

Sets the Mask Destination TCP address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,TDES

* SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST: TCP 1,1,1,#HFFFF

* SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST: TCP? 1,1,1 Returns #HFFFF

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:TCP?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:TCP?

Description

This query returns the Mask TCP Destination Port, if Filter type is TCP Destination Port for a specific Filter No.

At *RST, this value is set to #HFFFF.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:TCP?<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:TCP?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:TCP?

Response(s)

Address:

The response data syntax for <Address> is defined as a <HEXADECIMAL RESPONSE DATA> element.

Returns the Destination TCP Port address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,TDES

* SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST: TCP 1,1,1,#HFFFF

* SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST: TCP? 1,1,1 Returns #HFFFF

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:TCP

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:UDP

Description

This command sets the Mask UDP Destination Port, if Filter type is UDP Destination Port for a specific Filter No.

At *RST, this value is set to #HFFFF.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:UDP<wsp><Port>,<Filterno>,<Filter>,<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:UDP

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:UDP

Address:

The program data syntax for the fourth parameter is defined as a <NONDECIMAL PROGRAM DATA> element.

Sets the Mask Destination UDP address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,UDES

* SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:UDP 1,1,1,#HFFFF

* SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:UDP? 1,1,1 Returns #HFFFF

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:UDP?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:UDP?

Description

This query returns the Mask UDP Destination Port, if Filter type is UDP Destination Port for a specific Filter No.

At *RST, this value is set to #HFFFF.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:UDP?<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:UDP?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax <Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:UDP?

Response(s)

Address:

The response data syntax for <Address> is defined as a <HEXADECIMAL RESPONSE DATA> element.

Returns the Destination UDP Port address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,UDES

* SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:UDP 1,1,1,#HFFFF

* SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:UDP? 1,1,1 Returns #HFFFF

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DESTination:UDP

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DSERvices

Description

This command sets the Mask Differentiated Services, if Filter type is Differentiated Services for a specific Filter No.

At *RST, this value is set to #B111111.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DSERvices<wsp><Port>,<Filterno>,<Filter>,<Dservices>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DSERvices

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DSERvices

Dservices:

The program data syntax for the fourth parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.

Sets the Mask Differentiated Services.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,DSER

* SENS:DATA:TEL:ETH:STR:FILT:MASK:DSER 1,1,1,#B111111

* SENS:DATA:TEL:ETH:STR:FILT:MASK:DSER? 1,1,1 Returns #B111111

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DSERvices?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DSERvices?

Description

This query returns the Mask Differentiated Services, if Filter type is Differentiated Services for a specific Filter No.

At *RST, this value is set to #B111111.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DSERvices?<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DSERvices?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DSERvices?

Response(s)

Address:

The response data syntax for <Address> is defined as a <BINARY RESPONSE DATA> element.

Returns the Differentiated Services.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,DSER

* SENS:DATA:TEL:ETH:STR:FILT:MASK:DSER 1,1,1,#B111111

* SENS:DATA:TEL:ETH:STR:FILT:MASK:DSER? 1,1,1 Returns #B111111

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:DSERvices

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:PRECedence

Description

This command sets the Mask Differentiated Services, if Filter type is Differentiated Services for a specific Filter No.

At *RST, this value is set to #B111.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:PRECedence<wsp><Port>,<Filterno>,<Filter>,<Precedence>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:PRECedence

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:PRECedence

Precedence:

The program data syntax for the fourth parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.

Sets the Mask Precedence.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,PREC

* SENS:DATA:TEL:ETH:STR:FILT:MASK:PREC 1,1,1,#B111

* SENS:DATA:TEL:ETH:STR:FILT:MASK:PREC? 1,1,1 Returns #B111

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:PRECedence?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:PRECedence?

Description

This query returns the Mask Differentiated Services, if Filter type is Differentiated Services for a specific Filter No.

At *RST, this value is set to #B111.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:PRECedence?<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:PRECedence?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Precedence>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:PRECedence?

Response(s)

Precedence:

The response data syntax for <Address> is defined as a <BINARY RESPONSE DATA> element.

Returns the Precedence.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,PREC

* SENS:DATA:TEL:ETH:STR:FILT:MASK:PREC 1,1,1,#B111

* SENS:DATA:TEL:ETH:STR:FILT:MASK:PREC? 1,1,1 Returns #B111

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:PRECedence

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IP

Description

This command sets the Mask Source IP Address, if Filter type is IP Address for a specific Filter No.

At *RST, this value is set to "255.255.255.255".

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IP<wsp><Port>,<Filterno>,<Filter>,<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IP

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IP

Address:

The program data syntax for the fourth parameter is defined as a <STRING PROGRAM DATA> element.

Sets the Mask Source IP address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,IPS

* SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR:IP 1,1,1,"255.255.255.255"

* SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR:IP? 1,1,1 Returns "255.255.255.255"

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IP?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IP?

Description

This query returns the Mask Source IP Address, if Filter type is IP Address for a specific Filter No.

At *RST, this value is set to "255.255.255.255".

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IP?<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IP?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IP?

Response(s)

Address:
The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns Source IP address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,IPS

* SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR:IP 1,1,1,"255.255.255.255"

* SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR:IP? 1,1,1 Returns "255.255.255.255"

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IP

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:MAC

Description

This command sets the Mask Source MAC Address, if Filter type is MAC Address source for a specific Filter No.

At *RST, this value is set to "FF:FF:FF:FF:FF:FF".

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:MAC<wsp><Port>,<Filterno>,<Filter>,<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:MAC

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:MAC

Address:

The program data syntax for the fourth parameter is defined as a <STRING PROGRAM DATA> element.

Sets the Mask Source MAC address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,SMAC

* SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR:MAC 1,1,1,"FF:FF:FF:FF:FF:FF"

* SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR:MAC? 1,1,1 Returns "FF:FF:FF:FF:FF:FF"

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:MAC?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:MAC?

Description

This query returns the Mask Source MAC Address, if Filter type is MAC Address Source for a specific Filter No.

At *RST, this value is set to "FF:FF:FF:FF:FF:FF".

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:MAC?<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:MAC?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:MAC?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns Source MAC address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,SMAC

* SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR:MAC 1,1,1,"FF:FF:FF:FF:FF:FF"

* SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR:MAC? 1,1,1 Returns "FF:FF:FF:FF:FF:FF"

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:MAC

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:TCP

Description

This command sets the Mask TCP Source Port, if Filter type is TCP Source Port for a specific Filter No.

At *RST, this value is set to #HFFFF.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:TCP<wsp><Port>,<Filterno>,<Filter>,<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:TCP

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:TCP

Address:

The program data syntax for the fourth parameter is defined as a <NONDECIMAL PROGRAM DATA> element.

Sets the Mask Source TCP Port address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,TSO

* SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR:TCP 1,1,1,#HFFFF

* SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR:TCP? 1,1,1 Returns #HFFFF

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:TCP?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:TCP?

Description

This query returns the Mask TCP Source Port, if Filter type is TCP Source Port for a specific Filter No.

At *RST, this value is set to #HFFFF.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:TCP?<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:TCP?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:TCP?

Response(s)

Address:

The response data syntax for <Address> is defined as a <HEXADECIMAL RESPONSE DATA> element.

Returns the Source TCP Port address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,TSO

* SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR:TCP 1,1,1,#HFFFF

* SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR:TCP? 1,1,1 Returns #HFFFF

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:TCP

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:UDP

Description

This command sets the Mask UDP Source Port, if Filter type is UDP Source Port for a specific Filter No.

At *RST, this value is set to #HFFFF.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:UDP<wsp><Port>,<Filterno>,<Filter>,<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:UDP

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:UDP

Address:

The program data syntax for the fourth parameter is defined as a <NONDECIMAL PROGRAM DATA> element.

Sets the Mask Source UDP Port address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,USO

* SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR: UDP 1,1,1,#HFFFF

* SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR: UDP? 1,1,1 Returns #HFFFF

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet: STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet: STReam:FILTer:MASK:SOURce:UDP?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:UDP?

Description

This command sets the Mask TOS, if Filter type is TOS for a specific Filter No.

At *RST, this value is set to #HFFFF.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:UDP?<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:UDP?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:UDP?

Response(s)

Address:

The response data syntax for <Address> is defined as a <HEXADECIMAL RESPONSE DATA> element.

Returns the Source TCP Port address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,USO

* SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR: UDP 1,1,1,#HFFFF

* SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR: UDP? 1,1,1 Returns #HFFFF

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet: STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet: STReam:FILTer:MASK:SOURce:UDP

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:TOS

Description

This command sets the Mask TOS, if Filter type is TOS for a specific Filter No.

At *RST, this value is set to #B11111111.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:TOS<wsp><Port>,<Filterno>,<Filter>,<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:TOS

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:TOS

Address:

The program data syntax for the fourth parameter is defined as a <NONDECIMAL PROGRAM DATA> element.

Sets the Mask Type of Service (TOS).

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,TOS

* SENS:DATA:TEL:ETH:STR:FILT:MASK:TOS 1,1,1,#B11111111

* SENS:DATA:TEL:ETH:STR:FILT:MASK:TOS? 1,1,1
Returns #B11111111

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:TOS?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:TOS?

Description

This query returns the Mask TOS, if Filter type is TOS for a specific Filter No.

At *RST, this value is set to #B11111111.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:TOS?<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:TOS?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Tos>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:TOS?

Response(s)

Tos:
The response data syntax for <Address> is defined as a <BINARY RESPONSE DATA> element.

Returns the Type of Service.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,TOS

* SENS:DATA:TEL:ETH:STR:FILT:MASK:TOS 1,1,1,#B11111111

* SENS:DATA:TEL:ETH:STR:FILT:MASK:TOS? 1,1,1
Returns #B11111111

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:TOS

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:ID

Description

This command sets the Mask VLAN ID, if Filter type is VLAN ID for a specific Filter No.

At *RST, this value is set to #HFFF.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:ID<wsp><Port>,<Filterno>,<Filter>,<Vlan>,<Id>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:ID

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Vlan:

The program data syntax for the fourth parameter is defined as a <NONDECIMAL PROGRAM DATA> element.

Sets the VLAN.

Selects the VLAN range from 1 to 3.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:ID

Id:
The program data syntax for the fifth parameter is defined as a <NONDECIMAL PROGRAM DATA> element.

Sets the value of VLAN Identifier.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,VLAN
* SENS:DATA:TEL:ETH:STR:FILT:MASK:VLAN:ID 1,1,1,1,#HFFF
* SENS:DATA:TEL:ETH:STR:FILT:MASK:VLAN:ID? 1,1,1,1 Returns #HFFF

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE
* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:ID?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:ID?

Description

This query returns the Mask VLAN ID, if Filter type is VLAN ID for a specific Filter No.

At *RST, this value is set to #HFFF.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:ID?<wsp><Port>,<Filterno>,<Filter>,<Vlan>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:ID?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Vlan:

The program data syntax for the fourth parameter is defined as a <NONDECIMAL PROGRAM DATA> element.

Sets the VLAN.

Selects the VLAN range from 1 to 3.

Response Syntax

<Id>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:ID?

Response(s)

Id:
The response data syntax for <Address> is defined as a <HEXADECIMAL NUMERIC RESPONSE DATA> element.

Returns the value of VLAN identifier.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,VLAN
* SENS:DATA:TEL:ETH:STR:FILT:MASK:VLAN:ID 1,1,1,1,#HFFF
* SENS:DATA:TEL:ETH:STR:FILT:MASK:VLAN:ID? 1,1,1,1 Returns #HFFF

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE
* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:ID

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:PRIority

Description

This command sets the Mask VLAN Priority, if Filter type is VLAN Priority for a specific Filter No.

At *RST, this value is set to #B111.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:PRIority<wsp><Port>,<Filterno>,<Filter>,<Vlan>,<Priority>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:PRIority

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:PRIority

Vlan:

The program data syntax for the fourth parameter is defined as a <NONDECIMAL PROGRAM DATA> element.

Sets the VLAN.

Selects the VLAN range from 1 to 3.

Priority:

The program data syntax for the fifth parameter is defined as a <NONDECIMAL PROGRAM DATA> element.

Sets the value of VLAN priority.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,VPR

* SENS:DATA:TEL:ETH:STR:FILT:MASK:VLAN:PRI 1,1,1,1,#B111

* SENS:DATA:TEL:ETH:STR:FILT:MASK:VLAN:PRI? 1,1,1,1 Returns #B111

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:PRIority?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:PRIority?

Description

This query returns the VLAN Priority, if Filter type is VLAN Priority for a specific Filter No.

At *RST, this value is set to #B111.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:PRIority?<wsp><Port>,<Filterno>,<Filter>,<Vlan>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:PRIority?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Vlan:

The program data syntax for the fourth parameter is defined as a <NONDECIMAL PROGRAM DATA> element.

Sets the VLAN.

Selects the VLAN range from 1 to 3.

Response Syntax

<Priority>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:PRIority?

Response(s)

Priority:
The response data syntax for <Priority> is defined as a <BINARY RESPONSE DATA> element.

Returns the value of VLAN Priority.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,VPR

* SENS:DATA:TEL:ETH:STR:FILT:MASK:VLAN:PRI 1,1,1,1,#B111

* SENS:DATA:TEL:ETH:STR:FILT:MASK:VLAN:PRI? 1,1,1,1 Returns #B111

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:VLAN:PRIority

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:IPPRotocol

Description

This command sets IP Protocol, if Filter type is IP Protocol for a specific Filter No.

At *RST, this value is set to #HFF.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:IPPRotocol<wsp><Port>,<Filterno>,<Filter>,<Ipprotocol>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:IPPRotocol

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:IPPRotocol

Ipprotocol:

The program data syntax for the fourth parameter is defined as a <NONDECIMAL PROGRAM DATA> element.

Sets the Mask filter value.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,IPPR

* SENS:DATA:TEL:ETH:STR:FILT:MASK:IPPR 1,1,1,#HFF

* SENS:DATA:TEL:ETH:STR:FILT:MASK:IPPR? 1,1,1 Returns #HFF

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:IPPRotocol?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:IPPRotocol?

Description

This query returns the IP Protocol, if Filter type is IP Protocol for a specific Filter No.

At *RST, this value is set to #HFF.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:IPPRotocol<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:IPPRotocol?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Ipprotocol>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:IPPRotocol?

Response(s)

lpprotocol:
The response data syntax for <lpprotocol> is defined as a <HEXADECIMAL NUMERIC RESPONSE DATA> element.

Returns the Mask IP Protocol.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,IPPR

* SENS:DATA:TEL:ETH:STR:FILT:MASK:IPPR 1,1,1,#HFF

* SENS:DATA:TEL:ETH:STR:FILT:MASK:IPPR? 1,1,1 Returns #HFF

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:IPPRotocol

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:ETHertype

Description

This command sets the Ether Type, if Filter type is Ether Type for a specific Filter No.

At *RST, this value is set to #HFFFF.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:ETHertype<wsp><Port>,<Filterno>,<Filter>,<Type>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:ETHertype

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:ETHertype

Type:

The program data syntax for the fourth parameter is defined as a <NONDECIMAL PROGRAM DATA> element.

Sets the Mask filter value.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,ETH

* SSENS:DATA:TEL:ETH:STR:FILT:MASK:ETH 1,1,1,#HFFFF

* SENS:DATA:TEL:ETH:STR:FILT:MASK:ETH? 1,1,1
Returns #HFFFF

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:ETHertype?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:ETHertype?

Description

This query returns the EtherType, if Filter type is EtherType for a specific Filter No.

At *RST, this value is set to #HFFFF.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:ETHertype?<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:ETHertype?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Type>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:ETHertype?

Response(s)

Type:

The response data syntax for <Type> is defined as a <HEXADECIMAL RESPONSE DATA> element.

Returns the Mask EtherType.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,ETH

* SSENS:DATA:TEL:ETH:STR:FILT:MASK:ETH 1,1,1,#HFFFF

* SENS:DATA:TEL:ETH:STR:FILT:MASK:ETH? 1,1,1
Returns #HFFFF

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:ETHertype

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:OPERator

Description

This command selects the logical operator (AND or OR) between two operands when more than two operands are used.

At *RST, this value is set to AND.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:OPERator<wsp><Port>,<Filterno>,<Filter>,<Operator>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:OPERator

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:OPERator

Operator:

The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: AND|OR.

Selects the logical operators.

AND, selects AND as logical operator.

OR, selects OR as logical operator.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:OPER 1,1,1,AND

* SENS:DATA:TEL:ETH:STR:FILT:OPER? 1,1,1
Returns AND

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:OPERator?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:OPERator?

Description

This query returns the logical operator (AND or OR) between two operands when more than two operands are used.

At *RST, this value is set to AND.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:OPERator?<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:OPERator?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Operator>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:OPERator?

Response(s)

Operator:
The response data syntax for <Operator> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the logical operators.

AND, AND is selected as logical operator.

OR, OR is selected as logical operator.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:OPER 1,1,1,AND

* SENS:DATA:TEL:ETH:STR:FILT:OPER? 1,1,1
Returns AND

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:OPERator

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:OPERator:NOT

Description

This command selects the Operator Not. When it is selected, add the logicial negation (not equal) operator for the operand filter defined at its right.

At *RST, this value is set to OFF.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:OPERator:NOT<wsp><Port>,<Filterno>,<Filter>,<Set>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:OPERator:NOT

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the logical operator (AND or OR).

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:OPERator:NOT

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:OPER:NOT 1,1,1,ON

* SENS:DATA:TEL:ETH:STR:FILT:OPER:NOT? 1,1,1 Returns 1

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:OPERator:NOT?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:OPERator:NOT?

Description

This query returns the Operator Not. When it is selected, add the logicial negation (not equal) operator for the operand filter defined at its right.

At *RST, this value is set to OFF.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:OPERator:NOT?<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:OPERator:NOT?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax <Set>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:OPERator:NOT?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of logical operator (AND or OR).

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:OPER:NOT 1,1,1,ON

* SENS:DATA:TEL:ETH:STR:FILT:OPER:NOT? 1,1,1 Returns 1

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:OPERator:NOT

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:OPEN

Description

This command selects the open parenthesis to control the precedence of operands when two operands are used.

At *RST, this value is device dependent.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:OPEN<wsp><Port>,<Filterno>,<Filter>,<Bracket>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:OPEN

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:OPEN

Bracket:

The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the open parenthesis.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:BRAC:OPEN 1,1,1,1

* SENS:DATA:TEL:ETH:STR:FILT:BRAC:OPEN? 1,1,1 Returns 1

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:OPEN?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:OPEN?

Description

This query returns the selected open parenthesis to control the precedence of operands when two operands are used.

At *RST, this value is device dependent.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:OPEN?<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:OPEN?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Bracket>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:OPEN?

Response(s)

Bracket:

The response data syntax for <Bracket> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the selected open parenthesis.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:BRAC:OPEN 1,1,1,1

* SENS:DATA:TEL:ETH:STR:FILT:BRAC:OPEN? 1,1,1 Returns 1

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:OPEN

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:CLOSe

Description

This command selects the close parenthesis to control the precedence of operands when two operands are used.

At *RST, this value is device dependent.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:CLOSe<wsp><Port>,<Filterno>,<Filter>,<Bracket>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:CLOSe

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Bracket:

The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the close parenthesis.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:CLOSe

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:BRAC:CLOS 1,1,1,1

* SENS:DATA:TEL:ETH:STR:FILT:BRAC:CLOS? 1,1,1 Returns 1

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:CLOSe?

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:CLOSe?

Description

This query returns the selected close parenthesis to control the precedence of operands when two operands are used.

At *RST, this value is device dependent.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:CLOSe?<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:CLOSe?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Bracket>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:CLOSe?

Response(s)

Bracket:

The response data syntax for <Bracket> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the selected close parenthesis.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:BRAC:CLOS 1,1,1,1

* SENS:DATA:TEL:ETH:STR:FILT:BRAC:CLOS? 1,1,1 Returns 1

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:BRACket:CLOSe

:SENSe[1..n]:DATA:TELecom:ETHernet:FILTer:FRAMe:BANDwidth?

Description

This query returns the frame bandwidth in megabits per second.

At *RST, this value is device dependent.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:FILTer:FRAMe:BANDwidth?<wsp><Port>,<Filterno>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

:SENSe[1..n]:DATA:TELecom:ETHernet:FILTer:FRAMe:BANDwidth?

Response Syntax <Bandwidth>

Response(s) Bandwidth:

The response data syntax for <Bandwidth> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the frame bandwidth.

Example(s) * SENS:DATA:TEL:ETH:FILT:FRAM:BAND? 1,1
Returns the frame bandwidth.

:SENSe[1..n]:DATA:TELecom:ETHernet:FILTer:FRAMe:RATE?

Description

This query returns the frame rate in frames per second.

At *RST, this value is device dependent.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:FILTer:FRAMe:RATE?<wsp><Port>,<Filterno>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

:SENSe[1..n]:DATA:TELecom:ETHernet:FILTer:FRAMe:RATE?

Response Syntax <Rate>

Response(s) Rate:

The response data syntax for <Rate> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the frame rate.

Example(s) * SENS:DATA:TEL:ETH:FILT:FRAM:RATE? 1,1
Returns the frame rate.

:SENSe[1..n]:DATA:TELecom:ETHernet:FILTer:FRAMe:UTILization?

Description

This query returns the frame utilization in percentage.

At *RST, this value is device dependent.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:FILTer:FRAMe:UTILization?<wsp><Port>,<Filterno>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

:SENSe[1..n]:DATA:TELecom:ETHernet:FILTer:FRAMe:UTILization?

Response Syntax <Utilization>

Response(s) Utilization:

The response data syntax for <Utilization> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the frame utilization.

Example(s) * SENS:DATA:TEL:ETH:FILT:FRAM:UTIL? 1,1
Returns the percentage of line rate utilization.

:SENSe[1..n]:DATA:TELecom:ETHernet:FILTer:FRAMe:COUNt?

Description

This query returns the number of frames matching the configured filter's criteria.

At *RST, this value is device dependent.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:FILTer:FRAMe:COUNt?<wsp><Port>,<Filterno>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

:SENSe[1..n]:DATA:TELecom:ETHernet:FILTer:FRAMe:COUNt?

Response Syntax <Count>

Response(s) Count:

The response data syntax for <Count> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the number of frames.

Example(s) * SENS:DATA:TEL:ETH:FILT:FRAM:COUN? 1,1
Returns the number of frames.

:SENSe[1..n]:DATA:TELecom:ETHernet:FILTer:ERRor:FSIZe:COUNt?

Description

This query returns the total number of all valid and invalid frames received.

At *RST, this value is device dependent.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:ERRor:FSIZe:COUNt?<wsp><Port>,<Filterno>,IPCHecksum|UDPChecksum|JABBer|OVERsize|RUNT|UNDersize|FCS

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

:SENSe[1..n]:DATA:TELecom:ETHernet:FILTer:ERRor:FSIZe:COUNt?

Error:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: IPCHecksum|UDPChecksum|JABBer|OVERsize|RUNT|UNDersize|FCS.

Selects the error count for the selected error.

IPCHecksum, retrieves count for IP Checksum.

UDPChecksum, retrieves count for UDP Checksum.

JABBer, retrieves count for Jabber.

OVERsize, retrieves count for Oversize.

RUNT, retrieves count for Runt.

UNDersize, retrieves count for Undersize.

FCS, retrieves count for FCS.

:SENSe[1..n]:DATA:TELecom:ETHernet:FILTer:ERRor:FSIZe:COUNt?

Response Syntax <Count>

Response(s) Count:

The response data syntax for <Count> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the total number of all valid and invalid frames.

Example(s) * SENS:DATA:TEL:ETH:FILT:ERR:FSIZ:COUN? 1,1,FCS

Returns the total number of all valid and invalid frames.

:SENSe[1..n]:DATA:TELecom:ETHernet:FILTer:ENABled:TIME?

Description

This query returns time during which the filter is enabled.

At *RST, this value is device dependent.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:ENABled:TIME?<wsp><Port>,<Filterno>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

:SENSe[1..n]:DATA:TELecom:ETHernet:FILTer:ENABled:TIME?

Response Syntax <Time>

Response(s) Time:

The response data syntax for <Time> is defined as a <STRING RESPONSE DATA> element.

Returns time during which the filter is enabled.

Example(s) * SENS:DATA:TEL:ETH:FILT:ENAB:TIME? 1,1
Returns the enabled time.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam :FILTer:DESTination:IPV

Description

This command sets the Destination IPv6 address, if Filter Type is IPv6 Destination address for a specific Filter No.

At *RST, this value is set to "0000:0000:0000:0000:0000:0000:0000:0000".

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam: FILTer:DESTination:IPV<wsp><Port>,

<Filterno>,<Filter>,<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam :FILTer:DESTination:IPV

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Address:

The program data syntax for the fourth parameter is defined as a <STRING PROGRAM DATA> element.
Sets the Destination IPv6 address.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam :FILTer:DESTination:IPV

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,IPVD

* SENS:DATA:TEL:ETH:STR:FILT:DEST:IPV 1,1,1,"0000:0000:0000:0000:0000:0000:0000:0000"

* SENS:DATA:TEL:ETH:STR:FILT:DEST:IPV? 1,1,1 Returns

"0000:0000:0000:0000:0000:0000:0000:0000"

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet: STReam:FILTer:DESTination:IPV?

* SENSe[1..n]:DATA:TELecom:ETHernet: STReam:FILTer:TYPE

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam :FILTer:DESTination:IPV?

Description

This query returns the Destination IPv6 address, if Filter Type is IPv6 Destination address for a specific Filter No.

At *RST, this value is set to "0000:0000:0000:0000:0000:0000:0000:0000".

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam: FILTer:DESTination:IPV?<wsp><Port>,

<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam :FILTer:DESTination:IPV?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam :FILTer:DESTination:IPV?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the Destination IPv6 address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,IPVD

* SENS:DATA:TEL:ETH:STR:FILT:DEST:IPV 1,1,1,"0000:0000:0000:0000:0000:0000:0000:0000"

* SENS:DATA:TEL:ETH:STR:FILT:DEST:IPV? 1,1,1

Returns

"0000:0000:0000:0000:0000:0000:0000:0000"

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:DESTination:IPV

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam :FILTer:MASK:DESTination:IPV

Description

This command sets the Mask Destination IPv6 address, if Filter Type is IPv6 Destination address for a specific Filter No.

At *RST, this value is set to "FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF".

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam: FILTer:MASK:DESTination:IPV<wsp><Port>,

<Filterno>,<Filter>,<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam :FILTer:MASK:DESTination:IPV

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Address:

The program data syntax for the fourth parameter is defined as a <STRING PROGRAM DATA> element.

Sets the Mask Destination IPv6 address.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam :FILTer:MASK:DESTination:IPV

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,IPVD
* SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:IPV 1,1,1,
"FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF"
* SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:
IPV? 1,1,1 Returns
"FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF"

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:
STReam:FILTer:MASK:DESTination:IPV?
* SENSe[1..n]:DATA:TELecom:ETHernet:
STReam:FILTer:TYPE

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam :FILTer:MASK:DESTination:IPV?

Description

This query returns the Mask Destination IPv6 address, if Filter Type is IPv6 Destination address for a specific Filter No.

At *RST, this value is set to "FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF".

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam: FILTer:MASK:DESTination:IPV?<wsp><Port>,

<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam :FILTer:MASK:DESTination:IPV?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam :FILTer:MASK:DESTination:IPV?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the Mask Destination IPv6 address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,IPVD

* SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:IPV 1,1,1,

"FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF"

* SENS:DATA:TEL:ETH:STR:FILT:MASK:DEST:

IPV? 1,1,1 Returns

"FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF"

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:

STReam:FILTer:MASK:DESTination:IPV

* SENSe[1..n]:DATA:TELecom:ETHernet:

STReam:FILTer:TYPE

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IPV

Description

This command sets the Source IPv6 address, if Filter Type is IPv6 Source address for a specific Filter No.

At *RST, this value is set to "0000:0000:0000:0000:0000:0000:0000:0000".

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IPV<wsp><Port>,<Filterno>,<Filter>,<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IPV

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Address:

The program data syntax for the fourth parameter is defined as a <STRING PROGRAM DATA> element.
Sets the Source IPv6 address.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IPV

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,IPVS

* SENS:DATA:TEL:ETH:STR:FILT:SOUR:IPV 1,1,1, "0000:0000:0000:0000:0000:0000:0000:0000"

* SENS:DATA:TEL:ETH:STR:FILT:SOUR:IPV? 1,1,1

Returns

"0000:0000:0000:0000:0000:0000:0000:0000"

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IPV?

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IPV?

Description

This query returns the Source IPv6 address, if Filter Type is IPv6 Source address for a specific Filter No.

At *RST, this value is set to "0000:0000:0000:0000:0000:0000:0000:0000".

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IPV?<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IPV?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IPV?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the Source IPv6 address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,IPVS

* SENS:DATA:TEL:ETH:STR:FILT:SOUR:IPV 1,1,1, "0000:0000:0000:0000:0000:0000:0000:0000"

* SENS:DATA:TEL:ETH:STR:FILT:SOUR:IPV? 1,1,1

Returns

"0000:0000:0000:0000:0000:0000:0000:0000"

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:SOURce:IPV

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IPV

Description

This command sets the Mask Source IPv6 address, if Filter Type is IPv6 Source address for a specific Filter No.

At *RST, this value is set to "FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF".

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IPV<wsp><Port>,<Filterno>,<Filter>,<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IPV

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Address:

The program data syntax for the fourth parameter is defined as a <STRING PROGRAM DATA> element.
Sets the Mask Source IPv6 address.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IPV

Example(s)	* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,IPVS * SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR:IPV 1,1,1, "FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF" * SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR:IPV? 1,1,1 Returns "FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF"
See Also	* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IPV? * SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IPV?

Description

This query returns the Mask Source IPv6 address, if Filter Type is IPv6 Source address for a specific Filter No.

At *RST, this value is set to "FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF".

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IPV?<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IPV?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Address>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IPV?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the Mask Source IPv6 address.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,IPVS

* SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR:IPV 1,1,1, "FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF"

* SENS:DATA:TEL:ETH:STR:FILT:MASK:SOUR:IPV? 1,1,1 Returns "FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF"

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:SOURce:IPV

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:FLABel:IPV

Description

This command sets the IPv6 Flow Label, if Filter Type is IPv6 Flow Label for a specific Filter No.

At *RST, this value is set to 0.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:FLABel:IPV<wsp><Port>,<Filterno>,<Filter>,<Flabel>|MAXimum|MINimum

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:FLABel:IPV

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Flabel:

The program data syntax for the fourth parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.
Sets the IPv6 Flow Label.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:FLABel:IPV

Example(s)	* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,IPVF * SENS:DATA:TEL:ETH:STR:FILT:FLAB:IPV 1,1,1,20 * SENS:DATA:TEL:ETH:STR:FILT:FLAB:IPV? 1,1,1 Returns 20
See Also	* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:FLABel:IPV? * SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:FLABel:IPV?

Description

This query returns the IPv6 Flow Label, if Filter Type is IPv6 Flow Label for a specific Filter No.

At *RST, this value is set to 0.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:FLABel:IPV?<wsp><Port>,<Filterno>,<Filter>[,MAXimum|MINimum]

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:FLABel:IPV?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current flow label will be returned.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:FLABel:IPV?

Response Syntax

<Flabel>

Response(s)

Flabel:

The response data syntax for <Flabel> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the IPv6 Flow Label.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,IPVF

* SENS:DATA:TEL:ETH:STR:FILT:FLAB:IPV 1,1,1,20

* SENS:DATA:TEL:ETH:STR:FILT:FLAB:IPV? 1,1,1

Returns 20

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:FLABel:IPV

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:FLABel:IPV

Description

This command sets the IPv6 Mask Flow Label, if Filter Type is IPv6 Flow Label for a specific Filter No.

At *RST, this value is set to #H00.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:FLABel:IPV<wsp><Port>,<Filterno>,<Filter>,<Flabel>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:FLABel:IPV

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Flabel:

The program data syntax for the fourth parameter is defined as a <NONDECIMAL PROGRAM DATA> element.

Selects the IPv6 Mask Flow Label.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:FLABel:IPV

Example(s)	* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,IPVF * SENS:DATA:TEL:ETH:STR:FILT:MASK:FLAB:IPV 1,1,1,#HF0 * SENS:DATA:TEL:ETH:STR:FILT:MASK:FLAB:IPV? 1,1,1 Returns #HF0
See Also	* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:FLABel:IPV? * SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:FLABel:IPV?

Description

This query returns the IPv6 Mask Flow Label, if Filter Type is IPv6 Flow Label for a specific Filter No.

At *RST, this value is set to #H00.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:FLABel:IPV?<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:FLABel:IPV?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Flabel>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:FLABel:IPV?

Response(s)

Flabel:

The response data syntax for <Flabel> is defined as a <HEXADECIMAL RESPONSE DATA> element.

Returns the IPv6 Mask Flow Label.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,IPVF

* SENS:DATA:TEL:ETH:STR:FILT:MASK:FLAB:IPV 1,1,1,#HF0

* SENS:DATA:TEL:ETH:STR:FILT:MASK:FLAB:IPV? 1,1,1 Returns #HF0

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:FLABel:IPV

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:NHEader:IPV

Description

This command sets the IPv6 Next Header, if Filter Type is IPv6 Next Header for a specific Filter No.

At *RST, this value is set to 0.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:NHEader:IPV<wsp><Port>,<Filterno>,<Filter>,<Nheader>|MAXimum|MINimum

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:NHEader:IPV

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Nheader:

The program data syntax for the fourth parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.
Sets the IPv6 Next Header.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:NHEader:IPV

Example(s)	* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,IPVN * SENS:DATA:TEL:ETH:STR:FILT:NHE:IPV 1,1,1,20 * SENS:DATA:TEL:ETH:STR:FILT:NHE:IPV? 1,1,1 Returns 20
See Also	* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:NHEader:IPV? * SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:NHEader:IPV?

Description

This query returns the IPv6 Next Header, if Filter Type is IPv6 Next Header for a specific Filter No.

At *RST, this value is set to 0.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:NHEader:IPV?<wsp><Port>,<Filterno>,<Filter>[,MAXimum|MINimum]

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:NHEader:IPV?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:NHEader:IPV?

This parameter is optional. If no token is specified, the current next header will be returned.

Response Syntax

<Nheader>

Response(s)

Nheader:

The response data syntax for <Nheader> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the IPv6 Next Header.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,IPVN

* SENS:DATA:TEL:ETH:STR:FILT:NHE:IPV 1,1,1,20

* SENS:DATA:TEL:ETH:STR:FILT:NHE:IPV? 1,1,1

Returns 20

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:NHEader:IPV

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:NHEader:IPV

Description

This command sets the IPv6 Mask Next Header, if Filter Type is IPv6 Next Header for a specific Filter No.

At *RST, this value is set to #H00.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:NHEader:IPV<wsp><Port>,<Filterno>,<Filter>,<Nheader>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:NHEader:IPV

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Nheader:

The program data syntax for the fourth parameter is defined as a <NONDECIMAL PROGRAM DATA> element.

Sets the IPv6 Mask Next Header.

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:NHEader:IPV

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,IPVN
* SENS:DATA:TEL:ETH:STR:FILT:MASK:NHE:IPV 1,1,1,#HF0
* SENS:DATA:TEL:ETH:STR:FILT:MASK:NHE:IPV? 1,1,1 Returns #HF0

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:NHEader:IPV?
* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:NHEader:IPV?

Description

This query returns the IPv6 Mask Next Header, if Filter Type is IPv6 Next Header for a specific Filter No.

At *RST, this value is set to #H00.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:NHEader:IPV?<wsp><Port>,<Filterno>,<Filter>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:NHEader:IPV?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Filterno:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter number from 1 to 10.

Filter:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the filter from 1 to 4.

Response Syntax

<Nheader>

:SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:NHEader:IPV?

Response(s)

Nheader:

The response data syntax for <Nheader> is defined as a <HEXA DECIMAL RESPONSE DATA> element.

Returns the IPv6 Mask Next Header.

Example(s)

* SENS:DATA:TEL:ETH:STR:FILT:TYPE 1,1,1,IPVN

* SENS:DATA:TEL:ETH:STR:FILT:MASK:NHE:IPV 1,1,1,#HF0

* SENS:DATA:TEL:ETH:STR:FILT:MASK:NHE:IPV? 1,1,1 Returns #HF0

See Also

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:MASK:NHEader:IPV

* SENSe[1..n]:DATA:TELecom:ETHernet:STReam:FILTer:TYPE

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:MANual:TYPE

Description

This command sets the manual type Media Access Control (MAC) error.

At *RST, this value is set to FCS.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:MANual:TYPE<wsp><Port>,FCS

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:MANual:TYPE

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: FCS.

Selects the manual type MAC (Media Access Control) error.

FCS, selects FCS (Frame Check Sequence) as manual type MAC error.

Example(s)

* SOUR:DATA:TEL:ETH:ERR:MAC:MAN:TYPE 1,FCS

* SOUR:DATA:TEL:ETH:ERR:MAC:MAN:TYPE? 1 Returns FCS

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:MANual:TYPE?

* SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt

* SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:INJect

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:MANual:TYPE?

Description

This query returns the manual type Media Access Control (MAC) error.

At *RST, this value is set to FCS.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:MANual:TYPE?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Error>

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:MANual:TYPE?

Response(s)

Error:

The response data syntax for <Error> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the manual type Media Access Control (MAC) error.

FCS, Frame Check Sequence (FCS) as manual type MAC error is selected.

Example(s)

* SOUR:DATA:TEL:ETH:ERR:MAC:MAN:TYPE 1,FCS

* SOUR:DATA:TEL:ETH:ERR:MAC:MAN:TYPE? 1

Returns FCS

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:MANual:TYPE

* SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt

* SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:INJect

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt

Description

This command sets the manual type Media Access Control (MAC) error to inject into the instrument.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt<wsp><Port>,<Amount>|MAXimum|MINimum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt

Amount:
The program data syntax for the second parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.
Sets the amount of error.

Example(s)

* SOUR:DATA:TEL:ETH:ERR:MAC:MAN:TYPE 1,FCS
* SOUR:DATA:TEL:ETH:ERR:MAC:AMO 1,50
* SOUR:DATA:TEL:ETH:ERR:MAC:AMO? 1
Returns 50

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:MANual:TYPE
* SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt?

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt?

Description

This query returns the manual type Media Access Control (MAC) error injected into the instrument.

At *RST, this value is set to 1.

Syntax

SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt?<wsp><Port>[,MAXimum|MINimum]

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt?

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current amount of error will be returned.

Response Syntax <Amount>

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt?

Response(s)

Amount:

The response data syntax for <Amount> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the amount of error.

Example(s)

* SOUR:DATA:TEL:ETH:ERR:MAC:MAN:TYPE 1,FCS

* SOUR:DATA:TEL:ETH:ERR:MAC:AMO 1,50

* SOUR:DATA:TEL:ETH:ERR:MAC:AMO? 1
Returns 50

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:MANual:TYPE

* SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt

* SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:INJect

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:INJect

Description

This command injects the Media Access Control (MAC) error.

This command is an event and has no associated *RST condition or query form.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:INJect<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Example(s)

* SOUR:DATA:TEL:ETH:ERR:MAC:MAN:TYPE 1,FCS

* SOUR:DATA:TEL:ETH:ERR:MAC:AMO 1,50

* SOUR:DATA:TEL:ETH:ERR:MAC:INJ 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:MANual:TYPE

* SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:AMOunt

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE

Description

This command sets the manual type physical error.

At *RST, this value is set to SYMBol.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE<wsp><Port>,SYMBol

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: SYMBol.

Selects manual type physical error.

SYMBol, selects Symbol as manual type physical error.

Example(s)

* SOUR:DATA:TEL:ETH:ERR:PHYS:MAN:TYPE 1,SYMB

* SOUR:DATA:TEL:ETH:ERR:PHYS:MAN:TYPE? 1 Returns SYMBOL

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE?

* SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt

* SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:INJect

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE?

Description

This query returns the manual type physical error.

At *RST, this value is set to SYMBol.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Error>

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE?

Response(s)

Error:

The response data syntax for <Error> is defined as a <CHARACTER RESPONSE DATA> element.

Returns manual type physical error.

SYMBol, Symbol is selected as manual type physical error

Example(s)

* SOUR:DATA:TEL:ETH:ERR:PHYS:MAN:TYPE 1,SYMB

* SOUR:DATA:TEL:ETH:ERR:PHYS:MAN:TYPE? 1
Returns SYMBOL

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE

* SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt

* SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:INJect

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt

Description

This command sets the amount of physical error to inject.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt<wsp><Port>,<Amount>|MAXimim|MINimum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt

Amount:
The program data syntax for the second parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.
Sets the amount of error.

Example(s)

* SOUR:DATA:TEL:ETH:ERR:PHYS:MAN:TYPE 1,SYMB

* SOUR:DATA:TEL:ETH:ERR:PHYS:AMO 1,50

* SOUR:DATA:TEL:ETH:ERR:PHYS:AMO? 1

Returns 50

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE

* SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt?

* SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:INJect

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt?

Description

This query returns the amount of physical error injected.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt?<wsp><Port>[,MAXimim|MINimum]

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt?

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current amount of error will be returned.

Response Syntax <Amount>

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt?

Response(s)

Amount:

The response data syntax for <Amount> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the amount of error.

Example(s)

* SOUR:DATA:TEL:ETH:ERR:PHYS:MAN:TYPE 1,SYMB

* SOUR:DATA:TEL:ETH:ERR:PHYS:AMO 1,50

* SOUR:DATA:TEL:ETH:ERR:PHYS:AMO? 1

Returns 50

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE

* SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt

* SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:INJect

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:INJect

Description

This command injects the physical error into the instrument.

This command is an event and has no associated *RST condition or query form.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:INJect<wsp><Port>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Example(s)

* SOUR:DATA:TEL:ETH:ERR:PHYS:MAN:TYPE 1,SYMB

* SOUR:DATA:TEL:ETH:ERR:PHYS:AMO 1,50

* SOUR:DATA:TEL:ETH:ERR:PHYS:INJ 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:MANual:TYPE

* SOURce[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:AMOunt

:FETCh[1..n]:DATA:TELecom:ETHernet:ALARm:PHYSical:HISTory?

Description

This query returns the history status of physical alarm.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ALARm:PHYSical:HISTory?<wsp><Port>,LDOWn

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Alarm:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. The allowed <CHARACTER PROGRAM DATA> element for this parameter is: LDOWn.

Selects the type of physical alarm.

LDOWn, selects the type of physical alarm as Link Down.

:FETCh[1..n]:DATA:TELecom:ETHernet:ALARm:PHYSical:HISTory?

Response Syntax <History>

Response(s) History:

The response data syntax for <History> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the history status of physical 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:PHYS:HIST? 1,LDOW

Returns the alarm history.

:FETCh[1..n]:DATA:TELecom:ETHernet:ALARm:PHYSical:CURRent?

Description

This query returns the current status of physical alarm.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ALARm:PHYSical:CURRent?<wsp><Port>,LDOWn

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Alarm:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. The allowed <CHARACTER PROGRAM DATA> element for this parameter is: LDOWn.

Selects the type of physical alarm.

LDOWn, selects the type of physical alarm as Link Down.

:FETCh[1..n]:DATA:TELecom:ETHernet:ALARm:PHYSical:CURRent?

Response Syntax <Current>

Response(s)

Current:

The response data syntax for <Current> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the current status of physical alarm.

PRESENT, indicates that at least one alarm has occurred in the last second.

ABSENT, indicates that there is no alarm.

INACTIVE, indicates that the test is not running.

Example(s)

* FETC:DATA:TEL:ETH:ALAR:PHYS:CURR? 1,LDOW

Returns the current alarm status.

:FETCh[1..n]:DATA:TELecom:ETHernet:ALARm:PHYSical:SEConds?

Description

This query returns the number of seconds within which physical alarm occurred.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ALARm:PHYSical:SEConds?<wsp><Port>,LDOWn

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Alarm:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. The allowed <CHARACTER PROGRAM DATA> element for this parameter is: LDOWn.

Selects the type of physical alarm.

LDOWn, selects the type of physical alarm as Link Down.

:FETCh[1..n]:DATA:TELecom:ETHernet:ALARm:PHYSical:SEConds?

Response Syntax <Seconds>

Response(s) Seconds:

The response data syntax for <Seconds> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of seconds of physical alarm.

Example(s) * FETC:DATA:TEL:ETH:ALAR:PHYS:SEC? 1,LDOW

Returns the number of alarmed seconds.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:HISTory?

Description

This query returns the history status of physical error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:HISTory?<wsp><Port>,SYMBol|IDLE1|FCARrier

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:HISTory?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: SYMBol|IDLE1|FCARrier.

Selects the type of physical error.

SYMBol, selects the type of physical error as Symbol.

IDLE1, selects the type of physical error as Idle.

FCARrier, selects the type of physical error as False Carrier.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:HISTory?

Response Syntax

<History >

Response(s)

History:

The response data syntax for <History> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the history status of physical 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:PHYS:HIST? 1,IDLE1
Returns the error history.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:CURRent?

Description

This query returns the current status of physical error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:CURRent?<wsp><Port>,SYMBol|IDLE1|FCARrier

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:CURRent?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: SYMBol|IDLE1|FCARrier.

Selects the type of physical error.

SYMBol, selects the type of physical error as Symbol.

IDLE1, selects the type of physical error as Idle.

FCARrier, selects the type of physical error as False Carrier.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:CURRent?

Response Syntax <Current>

Response(s) Current:

The response data syntax for <Current> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the current status of physical 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) * FETC:DATA:TEL:ETH:ERR:PHYS:CURR? 1,IDLE1
Returns the current error status.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:SEConds?

Description

This query returns the number of seconds within which physical error occurred.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:SEConds?<wsp><Port>,SYMBol|IDLE1|FCARrier

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:SEConds?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: SYMBol|IDLE1|FCARrier.

Selects the type of physical error.

SYMBol, selects the type of physical error as Symbol.

IDLE1, selects the type of physical error as Idle.

FCARrier, selects the type of physical error as False Carrier.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:SEConds?

Response Syntax <Seconds>

Response(s) Seconds:

The response data syntax for <Seconds> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of seconds of physical error.

Example(s) * FETC:DATA:TEL:ETH:ERR:PHYS:SEC? 1,IDLE1
Returns the number of errored seconds.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:COUNt?

Description This query returns the count of physical error.

At *RST, this value is device dependent.

Syntax :FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:COUNt?<wsp><Port>,SYMBol|IDLE1|FCARrier

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:COUNt?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: SYMBol|IDLE1|FCARrier.

Selects the type of physical error.

SYMBol, selects the type of physical error as Symbol.

IDLE1, selects the type of physical error as Idle.

FCARrier, selects the type of physical error as False Carrier.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:COUNt?

Response Syntax <Count>

Response(s) Count:

The response data syntax for <Count> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the count of physical error.

Example(s) * FETC:DATA:TEL:ETH:ERR:PHYS:COUN? 1,IDLE1

Returns the error count.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:RATE?

Description

This query returns the current rate of physical error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:RATE?<wsp><Port>,SYMBol|IDLE1|FCARrier

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:RATE?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: SYMBol|IDLE1|FCARrier.

Selects the type of physical error.

SYMBol, selects the type of physical error as Symbol.

IDLE1, selects the type of physical error as Idle.

FCARrier, selects the type of physical error as False Carrier.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:PHYSical:RATE?

Response Syntax <Rate>

Response(s) Rate:

The response data syntax for <Rate> is defined as a <NR3 NUMERIC RESPONSE DATA> element.

Returns the current rate of physical error.

Example(s) * FETC:DATA:TEL:ETH:ERR:PHYS:RATE? 1,IDLE1
Returns the error rate.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:HISTory?

Description

This query returns the history status of Media Access Control (MAC) error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:HISTory?<wsp><Port>,FCS|JABBer|OVERsize|RUNT|UNDersize|ALIGnment|COLLision|LCOLlision|ECOLlision

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:HISTory?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: FCS|JABBer|OVERsize|RUNT|UNDersize|ALIGnment|COLLision|LCOLlision|ECOLlision

Selects the type of MAC (Media Access Control) error.

FCS, selects the type of MAC error as FCS (Frame Check Sequence).

JABBer, selects the type of MAC error as Jabber/Giant.

OVERsize, selects the type of MAC error as Oversize.

UNDersize, selects the type of MAC error as Undersize.

ALIGnment, selects the type of MAC error as Alignment.

RUNT, selects the type of MAC error as Runt.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:HISTory?

COLLision, selects the type of MAC error as Collision.

ECOLlision, selects the type of MAC error as Excessive Collision.

LCOLlision, selects the type of MAC error as Late Collision.

Response Syntax

<History>

Response(s)

History:

The response data syntax for <History> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the history status of Media Access Control (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? 1,JABB
Returns the error history.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:CURRent?

Description

This query returns the current status of Media Access Control (MAC) error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:CURRent?<wsp><Port>,FCS|JABBer|OVERsize|RUNT|UNDersize|ALIGnment|COLLision|LCOLlision|ECOLlision

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:CURRent?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: FCS|JABBer|OVERsize|RUNT|UNDersize|ALIGnment|COLLision|LCOLlision|ECOLlision.

Selects the type of MAC (Media Access Control) error.

FCS, selects the type of MAC error as FCS (Frame Check Sequence).

JABBer, selects the type of MAC error as Jabber/Giant.

OVERsize, selects the type of MAC error as Oversize.

UNDersize, selects the type of MAC error as Undersize.

ALIGnment, selects the type of MAC error as Alignment.

RUNT, selects the type of MAC error as Runt.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:CURRent?

COLLision, selects the type of MAC error as Collision.

ECOLlision, selects the type of MAC error as Excessive Collision.

LCOLlision, selects the type of MAC error as Late Collision.

Response Syntax

<Current>

Response(s)

Current:

The response data syntax for <Current> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the current status of Media Access Control (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 is not running.

Example(s)

* FETC:DATA:TEL:ETH:ERR:MAC:CURR? 1,JABB
Returns the current error status.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:SEConds?

Description

This query returns the number of seconds within which Media Access Control (MAC) error occurred.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:SEConds?<wsp><Port>,FCS|JABBer|OVERsize|RUNT|UNDersize|ALIGnment|COLLision|LCOLlision|ECOLlision

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:SEConds?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: FCS|JABBer|OVERsize|RUNT|UNDersize|ALIGnment|COLLision|LCOLlision|ECOLlision.

Selects the type of MAC (Media Access Control) error.

FCS, selects the type of MAC error as FCS (Frame Check Sequence).

JABBer, selects the type of MAC error as Jabber/Giant.

OVERsize, selects the type of MAC error as Oversize.

RUNT, selects the type of MAC error as Runt.

UNDersize, selects the type of MAC error as Undersize.

ALIGnment, selects the type of MAC error as Alignment.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:SEConds?

Response Syntax <Seconds>

Response(s) Seconds:

The response data syntax for <Seconds> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of seconds of Media Access Control (MAC) error.

Example(s) * FETC:DATA:TEL:ETH:ERR:MAC:SEC? 1,JABB
Returns the number of errored seconds.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:COUNt?

Description

This query returns the count of Media Access Control (MAC) error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:COUNt?<wsp><Port>,FCS|JABBer|OVERsize|RUNT|UNDersize|ALIGnment|COLLision|LCOLlision|ECOLlision

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:COUNt?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: FCS|JABBer|OVERsize|RUNT|UNDersize|ALIGnment|COLLision|LCOLlision|ECOLlision.

Selects the type of MAC (Media Access Control) error.

FCS, selects the type of MAC error as FCS (Frame Check Sequence).

JABBer, selects the type of MAC error as Jabber/Giant.

OVERsize, selects the type of MAC error as Oversize.

RUNT, selects the type of MAC error as Runt.

UNDersize, selects the type of MAC error as Undersize.

ALIGnment, selects the type of MAC error as Alignment.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:COUNt?

COLLision, selects the type of MAC error as Collision.

ECOLlision, selects the type of MAC error as Excessive Collision.

LCOLlision, selects the type of MAC error as Late Collision.

Response Syntax

<Count>

Response(s)

Count:

The response data syntax for <Count> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the count of Media Access Control (MAC) error.

Example(s)

* FETC:DATA:TEL:ETH:ERR:MAC:COUN? 1,JABB
Returns the error count.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:RATE?

Description

This query returns the current rate of Media Access Control (MAC) error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:RATE?<wsp><Port>,FCS|JABBer|OVERsize|RUNT|UNDersize|ALIGnment|COLLision|LCOLlision|ECOLlision

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:RATE?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: FCS|JABBer|OVERsize|RUNT|UNDersize|ALIGnment|COLLision|LCOLlision|ECOLlision.

Selects the type of MAC (Media Access Control) error.

FCS, selects the type of MAC error as FCS (Frame Check Sequence).

JABBer, selects the type of MAC error as Jabber/Giant.

OVERsize, selects the type of MAC error as Oversize.

RUNT, selects the type of MAC error as Runt.

UNDersize, selects the type of MAC error as Undersize.

ALIGnment, selects the type of MAC error as Alignment.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:MAC:RATE?

COLLision, selects the type of MAC error as Collision.

ECOLlision, selects the type of MAC error as Excessive Collision.

LCOLlision, selects the type of MAC error as Late Collision.

Response Syntax

<Rate>

Response(s)

Rate:

The response data syntax for <Rate> is defined as a <NR3 NUMERIC RESPONSE DATA> element.

Returns the current rate of Media Access Control (MAC) error.

Example(s)

* FETC:DATA:TEL:ETH:ERR:MAC:RATE? 1,JABB
Returns the error rate.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination

Description

This command sets the Media Access Control (MAC) destination address for the selected traffic stream.

At *RST, this value is set to "FE:FE:FE:FE:FE:FE".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination<wsp><Port>,<Tgen>,<Address>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination

Address:

The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element.

Selects the MAC address for the instrument.

Example(s)

* SOUR:DATA:TEL:ETH:STR:ADDR:DEST 1,1,"FE:FE:FE:00:00:00"

* SOUR:DATA:TEL:ETH:STR:ADDR:DEST? 1,1
Returns "FE:FE:FE:00:00:00"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination?

Description

This query returns the Media Access Control (MAC) destination address for the selected traffic stream.

At *RST, this value is set to "FE:FE:FE:FE:FE:FE".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the MAC destination address in the form of string.

Example(s)

* SOUR:DATA:TEL:ETH:STR:ADDR:DEST 1,1,"FE:FE:FE:00:00:00"

* SOUR:DATA:TEL:ETH:STR:ADDR:DEST? 1,1
Returns "FE:FE:FE:00:00:00"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP

Description

This command sets the IP destination address for the selected traffic stream.

At *RST, this value is set to "0.0.0.0".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP<wsp><Port>,<Tgen>,<Address>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP

Address:

The program data syntax for the third parameter is defined as <STRING PROGRAM DATA> element.

Selects the IP address of the destination.

Example(s)

* SOUR:DATA:TEL:ETH:STR:ADDR:DEST:IP 1,1,"1.1.1.1"

* SOUR:DATA:TEL:ETH:STR:ADDR:DEST:IP? 1,1
Returns "1.1.1.1"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP?

Description

This query returns the IP destination address for the selected traffic stream.

At *RST, this value is set to "0.0.0.0".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the IP destination address in the form of string.

Example(s)

* SOUR:DATA:TEL:ETH:STR:ADDR:DEST:IP 1,1,"1.1.1.1"

* SOUR:DATA:TEL:ETH:STR:ADDR:DEST:IP? 1,1
Returns "1.1.1.1"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IP

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce?

Description

This query returns the Media Access Control (MAC) source address for the selected traffic stream.

At *RST, this value is set to "00:00:00:00:00:00".

Syntax

SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the MAC address in the form of string.

Example(s)

* SOUR:DATA:TEL:ETH:STR:ADDR:SOUR 1,1,"FE:FE:FE:FE:00:00"

* SOUR:DATA:TEL:ETH:STR:ADDR:SOUR? 1,1
Returns "FE:FE:FE:FE:00:00"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP

Description

This command sets the source IP address for the selected traffic stream.

At *RST, this value is set to "0.0.0.0".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP<wsp><Port>,<Tgen>,<Address>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP

Address:

The program data syntax for the third parameter is defined as <STRING PROGRAM DATA> element.

Sets the source IP address.

Example(s)

* SOUR:DATA:TEL:ETH:STR:ADDR:SOUR:IP? 1,1,"1.1.1.1"

* SOUR:DATA:TEL:ETH:STR:ADDR:SOUR:IP? 1,1
Returns "1.1.1.1"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP?

Description

This query returns the source IP address for the selected traffic stream.

At *RST, this value is set to "0.0.0.0".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the source IP address in the form of string.

Example(s)

* SOUR:DATA:TEL:ETH:STR:ADDR:SOUR:IP? 1,1, "1.1.1.1"

* SOUR:DATA:TEL:ETH:STR:ADDR:SOUR:IP? 1,1
Returns "1.1.1.1"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:BURSt:BANDwidth

Description

This command sets the burst bandwidth for the selected traffic stream.

At *RST, this value is set to 50.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:BURSt:BW<wsp><Port>,<Tgen>,<Bandwidth>|MAXimum|MINimum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the traffic stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:BURSt:BANDwidth

Bandwidth:

The program data syntax for the third parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.
Sets the bandwidth in percentage.

Choices are 1 through 100%.

Example(s)

* SOUR:DATA:TEL:ETH:STR:MODE 1,1,BURS

* SOUR:DATA:TEL:ETH:STR:BURS:BAND 1,1,100

* SOUR:DATA:TEL:ETH:STR:BURS:BAND? 1,1

Returns 100

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MODE

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:BURSt:BANDwidth?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:BURSt:BANDwidth?

Description

This query returns the burst bandwidth for the selected traffic stream.

At *RST, this value is set to 50.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:BURSt:BANDwidth?<wsp><Port>,<Tgen>[,MAXimum|MINimum]

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:BURSt:BANDwidth?

The program data syntax for <Bandwidth> is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current burst bandwidth will be returned.

Response Syntax <Bandwidth>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:BURSt:BANDwidth?

Response(s)

Bandwidth:

The response data syntax for <Bandwidth> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the burst bandwidth.

Example(s)

* SOUR:DATA:TEL:ETH:STR:MODE 1,1, BURS

* SOUR:DATA:TEL:ETH:STR:BURS:BAND 1,1,100

* SOUR:DATA:TEL:ETH:STR:BURS:BAND? 1,1

Returns 100

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MODE

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:BURSt:BANDwidth

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:BURSt:COUNt

Description

This command sets the number of burst count for the selected traffic stream.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:BURSt:COUNt<wsp><Port>,<Tgen>,<Count>|MAXimum|MINimum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:BURSt:COUNt

Count:

The program data syntax for the third parameter is defined as a <numeric_value> element. The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.
Sets the number of the burst count.

Choices are 1 through 255.

Example(s)

* SOUR:DATA:TEL:ETH:STR:MODE 1,1,BURS

* SOUR:DATA:TEL:ETH:STR:BURS:COUN 1,1,50

* SOUR:DATA:TEL:ETH:STR:BURS:COUN? 1,1
Returns 50

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MODE

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:BURSt:COUNt?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:BURSt:COUNt?

Description

This query returns the number of burst count for the selected traffic stream.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:BURSt:COUNt?<wsp><Port>,<Tgen>[,MAXimum|MINimum]

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:BURSt:COUNt?

The program data syntax for <Count> is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.
This parameter is optional. If no token is specified, the current burst count will be returned.

Response Syntax <Count>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:BURSt:COUNt?

Response(s)

Count:

The response data syntax for <Count> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the burst count.

Example(s)

* SOUR:DATA:TEL:ETH:STR:MODE 1,1,BURS

* SOUR:DATA:TEL:ETH:STR:BURS:COUN 1,1,50

* SOUR:DATA:TEL:ETH:STR:BURS:COUN? 1,1
Returns 50

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet :STReam:MODE

* SOURce[1..n]:DATA:TELecom:ETHernet :STReam:BURSt:COUNt

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:BURSt:TIME

Description

This command sets the burst time for the selected traffic stream.

At *RST, this value is set to 1000.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:BURSt:TIME<wsp><Port>,<Tgen>,<Time>|MAXimum|MINimum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:BURSt:TIME

Parameter(s)

Time:

The program data syntax for the third parameter is defined as a <numeric_value> element. The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.
Sets the burst time.

Example(s)

* SOUR:DATA:TEL:ETH:STR:MODE 1,1,BURS

* SOUR:DATA:TEL:ETH:STR:BURS:TIME 1,1,5

* SOUR:DATA:TEL:ETH:STR:BURS:TIME? 1,1
Returns 5

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MODE

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:BURSt:TIME?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:BURSt:TIME?

Description

This query returns the burst time for the selected traffic stream.

At *RST, this value is set to 1000.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:BURSt:TIME<wsp><Port>,<Tgen>[,MAXimum|MINimum]

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:BURSt:TIME?

The program data syntax for <Time> is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current burst time will be returned.

Response Syntax <Time>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:BURSt:TIME?

Response(s)

Time:

The response data syntax for <Time> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the burst time.

Example(s)

* SOUR:DATA:TEL:ETH:STR:MODE 1,1,BURS

* SOUR:DATA:TEL:ETH:STR:BURS:TIME 1,1,5

* SOUR:DATA:TEL:ETH:STR:BURS:TIME? 1,1
Returns 5

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MODE

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:BURSt:TIME

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DATalink

Description

This command sets the data link type for specific stream for the selected traffic stream.

At *RST, this value is set to ETHernet.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DATalink<wsp><Port>, <Tgen>, ETHernetII|8023SNAP|EPBBTE|P8023SNAP

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DATalink

Datalink:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.
The allowed <CHARACTER PROGRAM DATA> elements for this parameter are ETHernetII|8023SNAP|EPBBTE|P8023SNAP.

Set the type of datalink.

ETHernetII, selects EthernetII as the datalink type.

8023SNAP, selects 8023SNAP as the datalink type.

EPBBte, selects Ethernet Provider Bridge Backbone with Traffic Engineering (EPBBte).

P8023SNAP, selects P8023SNAP as the datalink type for PBT.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DAT 1,2,ETHERNETII

* SOUR:DATA:TEL:ETH:STR:DAT? 1,2 Returns ETHERNETII

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DATalink?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DATalink?

Description

This query returns the value of data link type for a selected traffic stream.

At *RST, this value is set to ETHernet.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DATalink?<wsp><Port>, <Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Datalink>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DATalink?

Response(s)

Datalink:

The response data syntax for <Datalink> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the selected datalink type.

ETHERNETII is selected as the datalink type.

8023SNAP is selected as the datalink type.

EPBBTE, Ethernet Provider Bridge Backbone with Traffic Engineering (EPBBte) is selected as the datalink type.

P8023SNAP, is selected as the datalink type for PBT.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DAT 1,2,ETHERNETII

* SOUR:DATA:TEL:ETH:STR:DAT? 1,2 Returns ETHERNETII

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DATalink

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DATalink:SIZE

Description

This command sets the frame size for each traffic type.

At *RST, this value is set to 64.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DATalink:SIZE<wsp><Port>, <Tgen>, <Size>, MAXimum|MINimum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DATalink:SIZE

Parameter(s)

Size:

The program data syntax for the third parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.
Sets the frame size for each traffic type.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DAT 1,1,ETH

* SOUR:DATA:TEL:ETH:STR:DAT:SIZE 1,1,550

* SOUR:DATA:TEL:ETH:STR:DAT:SIZE? 1,1

Returns 550

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DATalink

* SOURce[1..n]:DATA:TELecom:ETHernet STReam:DATalink:SIZE?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DATalink:SIZE?

Description

This query returns the frame size for each traffic type.

At *RST, this value is set to 64.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DATalink:SIZE?<wsp><Port>,<Tgen>[,MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DATalink:SIZE?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

The program data syntax for <Size> is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current datalink size will be returned.

Response Syntax

<Size>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DATalink:SIZE?

Response(s)

Size:

The response data syntax for <Size> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the frame size for each traffic type.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DAT 1,1,ETH

* SOUR:DATA:TEL:ETH:STR:DAT:SIZE 1,1,550

* SOUR:DATA:TEL:ETH:STR:DAT:SIZE? 1,1

Returns 550

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DATalink

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DATalink:SIZE

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway

Description

This command enables or disables the IP gateway status for the selected traffic stream.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway<wsp><Port>,<Tgen>,<Set>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables IP gateway for the selected stream.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT 1,1,ON

* SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT? 1,1
Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway?

Description

This query returns the IP gateway status for the selected traffic stream.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the IP gateway status.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT 1,1,ON

* SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT? 1,1
Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway:ADDRess

Description

This command sets the default gateway IP address for the instrument.

At *RST, this value is set to "0.0.0.0".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway:ADDRess <wsp><Port>,<Tgen>,<Address>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway:ADDRess

Address:

The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element.

Sets the default IP gateway address.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT 1,1,ON
* SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT:ADDR 1,1,"0.0.1.1"
* SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT:ADDR? 1,1 Returns "0.0.1.1"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway
* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway:ADDRess?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway:ADDRess?

Description

This query returns the default gateway IP address for the selected traffic stream.

At *RST, this value is set to "0.0.0.0".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway:ADDRess? <wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway:ADDRess?

Response(s)

Address:

The response data syntax for <Size> is defined as a <STRING RESPONSE DATA> element.

Returns the default gateway address.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT 1,1,ON

* SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT:ADDR 1,1,"0.0.1.1"

* SOUR:DATA:TEL:ETH:STR:DEST:IP:GAT:ADDR? 1,1 Returns "0.0.1.1"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:GATeway:ADDRess

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:TOSDs

Description

This command sets the Type of Service/ Differentiated Services (TOS/DS) value for the selected traffic stream.

At *RST, this value is set to #H00.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:TOSDs<wsp><Port>,<Tgen>,<Tosds>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:TOSDs

Tosds:

The program data syntax for the third parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.
Selects the TOS/DS value from #H00 to #HFF.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DEST:IP:TOSD 1,1,#HDD

* SOUR:DATA:TEL:ETH:STR:DEST:IP:TOSD? 1,1
Returns #HDD

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:TOSDs?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:TOSDs?

Description

This query returns the Type of Service/ Differentiated Services (TOS/DS) value for the selected traffic stream.

At *RST, this value is set to #H00.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:TOSDs?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Tosds>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:TOSDs?

Response(s)

Tosds:

The response data syntax for <Tosds> is defined as a <HEXADECIMAL NUMERIC RESPONSE DATA> element.

Returns the TOS/DS value.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DEST:IP:TOSD 1,1,#HDD

* SOUR:DATA:TEL:ETH:STR:DEST:IP:TOSD? 1,1
Returns #HDD

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:TOSDs

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:TTL

Description

This command sets the Time to Live (TTL) value for the selected traffic stream.

At *RST, this value is set to 128.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:TTL<wsp><Port>,<Tgen>,<Ttl>|MAXimum|MINimum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:TTL

Ttl:

The program data syntax for the third parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.
Sets the TTL value.

Choices are 0 through 255.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DEST:IP:TTL 1,1,200

* SOUR:DATA:TEL:ETH:STR:DEST:IP:TTL? 1,1
Returns 200

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:TTL?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:TTL?

Description

This query returns the Time to Live (TTL) value for the selected traffic stream.

At *RST, this value is set to 128.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:TTL?<wsp><Port>,<Tgen>[,MAXimum|MINimum]

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:TTL?

The program data syntax for <Ttl> is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current TTL value will be returned.

Response Syntax

<Ttl>

Response(s)

Ttl:

The response data syntax for <Ttl> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the TTL value.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DEST:IP:TTL 1,1,200

* SOUR:DATA:TEL:ETH:STR:DEST:IP:TTL? 1,1
Returns 200

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IP:TTL

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:PORT

Description

This command sets the UDP destination port number for the selected traffic stream.

At *RST, this value is set to MINimum.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam: DESTination:PORT<wsp><Port><Tgen>,<Dport>|MAXimum|MINimum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:PORT

Dport:

The program data syntax for the third parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.
Sets the UDP destination port value for selected stream.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DEST:PORT 1,1,60

* SOUR:DATA:TEL:ETH:STR:DEST:PORT? 1,1
Returns 60

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:PORT?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:PORT?

Description

This query returns the UDP destination port number for the selected traffic stream.

At *RST, this value is set to MINimum.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:PORT?<wsp><Port>,<Tgen>[,MAXimum|MINimum]

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:PORT?

The program data syntax for <Dport> is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current destination port number will be returned.

Response Syntax

<Dport>

Response(s)

Dport:

The response data syntax for <Dport> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the destination port number.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DEST:PORT 1,1,60

* SOUR:DATA:TEL:ETH:STR:DEST:PORT? 1,1
Returns 60

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:PORT

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:RESolve

Description

This command enables or disables the resolved MAC destination address (ARP) status.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:RESolve<wsp><Port>,<Tgen>,<Set>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:RESolve

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the resolved MAC address.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DEST:RES 1,1,ON

* SOUR:DATA:TEL:ETH:STR:DEST:RES? 1,1

Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:RESolve?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:RESolve?

Description

This query returns the status of resolved MAC destination address (ARP).

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:RESolve?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:RESolve?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of resolved MAC destination address.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DEST:RES 1,1,ON

* SOUR:DATA:TEL:ETH:STR:DEST:RES? 1,1

Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:RESolve

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:RESolve:STATus?

Description

This query returns the status of resolved MAC destination address (ARP).

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:RESolve?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:RESolve:STATus?

Response(s)

Status:

The program data syntax for <Status> 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 1,1,ON

* SOUR:DATA:TEL:ETH:STR:DEST:RES:STAT? 1,1

Returns the resolve MAC address status.

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:RESolve

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS

Description

This command enables or disables the differentiated service status for the selected traffic stream.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS<wsp><Port>,<Tgen>,<Set>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability. ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the differentiated service status.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DS 1,1,ON

* SOUR:DATA:TEL:ETH:STR:DS? 1,1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS?

Description

This query returns the status of differentiated service for the selected traffic stream.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS?

Response(s)	Set: The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the status of differentiated service.
Example(s)	* SOUR:DATA:TEL:ETH:STR:DS 1,1,ON * SOUR:DATA:TEL:ETH:STR:DS? 1,1 Returns 1
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:CODE

Description

This command sets the Differentiated Services Code Point (DSCP) value for the selected traffic stream.

At *RST, this value is set to CS0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:CODE<wsp><Port>,<Tgen>,CS0|CS1|CS2|CS3|CS4|CS5|CS6|CS7|AF11|AF12|AF13|AF21|AF22|AF23|AF31|AF32|AF33|AF41|AF42|AF43|EF|UCODe

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:CODE

Code:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:
CS0|CS1|CS2|CS3|CS4|CS5|CS6|CS7|AF11|AF12|AF13|AF21|AF22|AF23|AF31|AF32|AF33|AF41|AF42|AF43|EF|UCODe.

Selects the code point for the differentiated services.

CS0, selects CS0 as DS code point.

CS1, selects CS1 as DS code point.

CS2, selects CS2 as DS code point.

CS3, selects CS3 as DS code point.

CS4, selects CS4 as DS code point.

CS5, selects CS5 as DS code point.

CS6, selects CS6 as DS code point.

CS7, selects CS7 as DS code point.

AF11, selects AF11 as DS code point.

AF12, selects AF12 as DS code point.

AF13, selects AF13 as DS code point.

AF21, selects AF21 as DS code point.

AF22, selects AF22 as DS code point.

AF23, selects AF23 as DS code point.

AF31, selects AF31 as DS code point.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:CODE

Parameter(s)

AF32, selects AF32 as DS code point.

AF33, selects AF33 as DS code point.

AF41, selects AF41as DS code point.

AF42, selects AF42 as DS code point.

AF43, selects AF43 as DS code point.

EF, selects EF as DS code point.

UCODe, selects User as DS code point.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DS 1,1,ON

* SOUR:DATA:TEL:ETH:STR:DS:CODE 1,1,CS1

* SOUR:DATA:TEL:ETH:STR:DS:CODE? 1,1

Returns CS1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:CODE?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:CODE?

Description

This query returns the available Differentiated Services Code Point (DSCP) value for the selected traffic stream.

At *RST, this value is set to CS0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:CODE?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Code>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:CODE?

Response(s)

Code:

The response data syntax for <Code> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the DS code point value.

CS0, CS0 as DS code point is selected.

CS1, CS1 as DS code point is selected.

CS2, CS2 as DS code point is selected.

CS3, CS3 as DS code point is selected.

CS4, CS4 as DS code point is selected.

CS5, CS5 as DS code point is selected.

CS6, CS6 as DS code point is selected.

CS7, CS7 as DS code point is selected.

AF11, AF11 as DS code point is selected.

AF12, AF12 as DS code point is selected.

AF13, AF13 as DS code point is selected.

AF21, AF21 as DS code point is selected.

AF22, AF22 as DS code point is selected.

AF23, AF23 as DS code point is selected.

AF31, AF31 as DS code point is selected.

AF32, AF32 as DS code point is selected.

AF33, AF33 as DS code point is selected.

AF41, AF41as DS code point is selected.

AF42, AF42 as DS code point is selected.

AF43, AF43 as DS code point is selected.

EF, EF as DS code point is selected.

UCODE, User as DS code point is selected.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:CODE?

Example(s)

* SOUR:DATA:TEL:ETH:STR:DS 1,1,ON
* SOUR:DATA:TEL:ETH:STR:DS:CODE 1,1,CS1
* SOUR:DATA:TEL:ETH:STR:DS:CODE? 1,1

Returns CS1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS
* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:CODE

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:CODE:USER

Description

This command sets the user value of Differentiated Services Code Points (DSCP) for the selected traffic stream.

At *RST, this value is set to #H00.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:CODE:USER<wsp><Port>,<Tgen>,<Ucode>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:CODE:USER

Ucode:

The program data syntax for the third parameter is defined as <NONDECIMAL NUMERIC PROGRAM DATA> element.

Sets the user code point.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DS 1,1,ON
* SOUR:DATA:TEL:ETH:STR:DS:CODE 1,1,UCOD
* SOUR:DATA:TEL:ETH:STR:DS:CODE:USER 1,1,#H2F
* SOUR:DATA:TEL:ETH:STR:DS:CODE:USER? 1,1
Returns #H2F

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS
* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:CODE
* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:CODE:USER?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:CODE:USER?

Description

This query returns the user value of Differentiated Services Code Point (DSCP) for the selected traffic stream.

At *RST, this value is set to #H00.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:CODE:USER?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Ucode>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:CODE:USER?

Response(s)

Ucode:

The response data syntax for <Ucode> is defined as a <HEXADECIMAL NUMERIC RESPONSE DATA> element.

Returns the user code point.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DS 1,1,ON

* SOUR:DATA:TEL:ETH:STR:DS:CODE 1,1,UCOD

* SOUR:DATA:TEL:ETH:STR:DS:CODE:USER 1,1,#H2F

* SOUR:DATA:TEL:ETH:STR:DS:CODE:USER? 1,1
Returns #H2F

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:CODE

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:CODE:USER

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:ECN

Description

This command sets the Explicit Congestion Notification (ECN) field for the selected traffic stream.

At *RST, this value is set to NECT.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:ECN<wsp><Port>,<Tgen>, NECT|ECT1|ECT0|CE

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:ECN

Ecn:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

Sets the value for ECN (Explicit Congestion Notification).

NECT, selects Not ECT (ECN Capable Transport) as ECN field.

ECT1, selects ECT-1 as ECN field.

ECT0, selects ECT-0 as ECN field.

CE, selects CE (European Conformity) as ECN field.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DS 1,1,ON

* SOUR:DATA:TEL:ETH:STR:DS:ECN 1,1,NECT

* SOUR:DATA:TEL:ETH:STR:DS:ECN? 1,1

Returns NECT

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:ECN?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:ECN?

Description

This query returns the Explicit Congestion Notification (ECN) field for the selected traffic stream.

At *RST, this value is set to NECT.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:ECN?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Ecn>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:ECN?

Response(s)

Ecn:

The response data syntax for <Ecn> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the value of Explicit Congestion Notification (ECN).

NECT, Not ECT (ECN Capable Transport) is selected as ECN field.

ECT1, ECT-1 is selected as ECN field.

ECT0, ECT-0 is selected as ECN field.

CE, (European Conformity) is selected as ECN field.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DS 1,1,ON

* SOUR:DATA:TEL:ETH:STR:DS:ECN 1,1,NECT

* SOUR:DATA:TEL:ETH:STR:DS:ECN? 1,1

Returns NECT

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DS:ECN

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ENABled

Description

This command enables or disables the status of the instrument in the discrete form.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ENABled<wsp><Port>,<Tgen>,<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ENABled

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the status of the instrument.

Example(s)

* SOUR:DATA:TEL:ETH:STR:ENAB 1,1,ON

* SOUR:DATA:TEL:ETH:STR:ENAB? 1,1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ENABled?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ENABled?

Description

This query returns the status of the instrument.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ENABled?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ENABled?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of the instrument.

Example(s)

* SOUR:DATA:TEL:ETH:STR:ENAB 1,1,ON

* SOUR:DATA:TEL:ETH:STR:ENAB? 1,1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ENABled

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:FCOunt

Description

This command counts the number of frames transmitted for the selected traffic stream.

At *RST, this value is set to 0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:FCOunt<wsp><Port>,<Tgen>,<Fcount>|MAXimum|MINimum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:FCOunt

Fcount:

The program data syntax for the third parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.
Sets the frame count.

Example(s)

* SOUR:DATA:TEL:ETH:STR:MODE 1,1,NFR

* SOUR:DATA:TEL:ETH:STR:FCO 1,1,500

* SOUR:DATA:TEL:ETH:STR:FCO? 1,1

Returns 500

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MODE

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:FCOunt?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:FCOunt?

Description

This query returns the number of frames transmitted for the selected traffic stream.

At *RST, this value is set to 0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:FCOunt?<wsp><Port>,<Tgen>[,MAXimum|MINimum]

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:FCOunt?

The program data syntax for <Fcount> is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current frame count will be returned.

Response Syntax <Fcount>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:FCOunt?

Response(s)

Fcount:

The response data syntax for <Fcount> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of frame counts.

Example(s)

* SOUR:DATA:TEL:ETH:STR:MODE 1,1,NFR

* SOUR:DATA:TEL:ETH:STR:FCO 1,1,500

* SOUR:DATA:TEL:ETH:STR:FCO? 1,1

Returns 500

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MODE

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:FCOunt?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MODE

Description

This command sets the transmitter mode for stream 1.

At *RST, this value is set to CONTinuous

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MODE<wsp><Port>,<Tgen>,CONTinuous|BURSt|RAMP|NFRame|NBURst|NRAMp

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MODE

Parameter(s)

Mode:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: CONTinuous|BURSt|RAMP|NFRame|NBURst|NRAMp.

Selects the transmitter mode for stream 1.

CONTinuous, selects Continuous as transmitter mode.

BURSt, selects Burst as transmitter mode.

RAMP, selects Ramp as transmitter mode.

NFRame, selects Non Frame as transmitter mode.

NBURst, selects Non Burst as transmitter mode.

NRAMp, selects Non Ramp as transmitter mode.

Example(s)

* SOUR:DATA:TEL:ETH:STR:MODE 1,1,BURS

* SOUR:DATA:TEL:ETH:STR:MODE? 1,1

Returns BURST

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MODE?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MODE?

Description

This query returns the transmitter mode for stream 1.

At *RST, this value is set to CONTinuous.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MODE?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Mode>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MODE?

Response(s)

Mode:

The response data syntax for <Mode> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the transmitter mode for Stream 1.

CONTINUOUS, Continuous is selected as transmitter mode.

BURST, Burst is selected as transmitter mode.

RAMP, Ramp is selected as transmitter mode.

NFRAME, Non Frame is selected as transmitter mode.

NBURST, Non Burst is selected as transmitter mode.

NRAMP, Non Ramp is selected as transmitter mode.

Example(s)

* SOUR:DATA:TEL:ETH:STR:MODE 1,1,BURS

* SOUR:DATA:TEL:ETH:STR:MODE? 1,1

Returns BURST

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MODE

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:NETWork

Description

This command sets the network traffic type for the selected traffic stream.

At *RST, this value is set to IPV4.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:NETWork<wsp><Port>,<Tgen>,NONE|IPV4|MNONe|MIPV4

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:NETWork

Network:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element. The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: NONE|IPV4|MNONe|MIPV4.

Selects the type of network.

NONE, No network type is selected.

IPV4, selects network type as Internet Protocol version 4 (IPV4).

MNONe, selects network type as Multi Protocol Label Switching-None (MNONE).

MIPV4, selects network type as Multi Protocol Label Switching Internet Protocol version 4 (MIPV4).

Example(s)

* SOUR:DATA:TEL:ETH:STR:NETW 1,1,IPV4

* SOUR:DATA:TEL:ETH:STR:NETW? 1,1

Returns IPV4

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:NETWork?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:NETWork?

Description

This query returns the network traffic type for the selected traffic stream.

At *RST, this value is set to IPV4.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:NETWork?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Network>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:NETWork?

Response

Network:

The response data syntax for <Network> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the selected network type.

NONE, no network type is selected.

IPV4, Internet Protocol version 4 (IPV4) is selected as network type.

MNONE, Multi Protocol Label Switching-None (MNONE) is selected as network type.

MIPV4, Multi Protocol Label Switching Internet Protocol version 4 (MIPV4) is selected as network type.

Example(s)

* SOUR:DATA:TEL:ETH:STR:NETW 1,1,IPV4

* SOUR:DATA:TEL:ETH:STR:NETW? 1,1

Returns IPV4

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:NETWork

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:NETWork:SIZE

Description

This command sets the frame size for each traffic type.

At *RST, this value is set to 64.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:NETWork:SIZE<wsp><Port>,<Tgen>,<Size>|MAXimum|MINimum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:NETWork:SIZE

Parameter(s)

Size:

The program data syntax for the third parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.
Sets the size of the network.

Choices are 62 through 16000.

Example(s)

* SOUR:DATA:TEL:ETH:STR:NETW 1,1,IPV4

* SOUR:DATA:TEL:ETH:STR:NETW:SIZE 1,1,550

* SOUR:DATA:TEL:ETH:STR:NETW:SIZE? 1,1
Returns 550

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:NETWork

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:NETWork:SIZE?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:NETWork:SIZE?

Description

This command sets the size of the network for the selected traffic stream.

At *RST, this value is set to 64.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:NETWork:SIZE?<wsp><Port>,<Tgen>[,MAXimum|MINimum]

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:NETWork:SIZE?

The program data syntax for <Size> is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current network size will be returned.

Response Syntax <Size>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:NETWork:SIZE?

Response(s)

Size:

The response data syntax for <Size> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the size of the network.

Example(s)

* SOUR:DATA:TEL:ETH:STR:NETW 1,1,IPV4

* SOUR:DATA:TEL:ETH:STR:NETW:SIZE 1,1,550

* SOUR:DATA:TEL:ETH:STR:NETW:SIZE? 1,1
Returns 550

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:NETWork

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:NETWork:SIZE

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PAYLoad

Description

This command sets the payload pattern for the selected traffic stream.

At *RST, this value is set to #HCC.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PAYLoad<wsp><Port>,<Tgen>,<Pattern>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PAYLoad

Pattern:

The program data syntax for the third parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.

Sets the payload pattern value.

Choices are #H00 through #HFF.

Example(s)

* SOUR:DATA:TEL:ETH:STR:PAYL 1,1,#HFF

* SOUR:DATA:TEL:ETH:STR:PAYL? 1,1

Returns #HFF

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PAYLoad?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PAYLoad?

Description

This query returns the payload pattern for the selected traffic stream.

At *RST, this value is set to #HCC.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PAYLoad?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Pattern>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PAYLoad?

Response(s)

Pattern:

The response data syntax for <Pattern> is defined as a <HEXADECIMAL NUMERIC RESPONSE DATA> element.

Returns the payload pattern.

Example(s)

* SOUR:DATA:TEL:ETH:STR:PAYL 1,1,#HFF

* SOUR:DATA:TEL:ETH:STR:PAYL? 1,1

Returns #HFF

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PAYLoad

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RAMP:COUNt

Description

This command sets the ramp cycle count for the selected traffic stream.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RAMP:COUNt<wsp><Port>,<Tgen>,<Count>|MAXimum|MINimum.

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RAMP:COUNt

Parameter(s)

Count:

The program data syntax for the third parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.
Sets the ramp cycle count.

Choices are 1 through 22.

Example(s)

* SOUR:DATA:TEL:ETH:STR:MODE 1,1,RAMP

* SOUR:DATA:TEL:ETH:STR:RAMP:COUN 1,1,20

* SOUR:DATA:TEL:ETH:STR:RAMP:COUN? 1,1

Returns 20

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MODE

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RAMP:COUNt?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RAMP:COUNt?

Description

This query returns the number of ramp cycle count for the selected traffic stream.

At *RST, this value is set to 1.

Syntax

SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RAMP:COUNt?<wsp><Port>,<Tgen>[,MAXimum|MINimum]

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RAMP:COUNt?

The program data syntax for <Count> is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current ramp cycle count will be returned.

Response Syntax <Count>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RAMP:COUNt?

Response (s)

Count:

The response data syntax for <Count> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the number of ramp cycle count.

Example(s)

* SOUR:DATA:TEL:ETH:STR:MODE 1,1,RAMP

* SOUR:DATA:TEL:ETH:STR:RAMP:COUN 1,1,20

* SOUR:DATA:TEL:ETH:STR:RAMP:COUN? 1,1
Returns 20

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MODE

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RAMP:COUNt

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RAMP:STEP

Description

This command sets the number of ramp steps for the selected traffic stream.

At *RST, this value is set to 10.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RAMP:STEP<wsp><Port>,<Tgen>,<Step>|MAXimum|MINimum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RAMP:STEP

Parameter(s)

Step:

The program data syntax for the third parameter is defined as a <numeric_value> element. The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.
Sets the ramp step.

Choices are 2 through 100.

Example(s)

* SOUR:DATA:TEL:ETH:STR:MODE 1,1,RAMP

* SOUR:DATA:TEL:ETH:STR:RAMP:STEP 1,1,50

* SOUR:DATA:TEL:ETH:STR:RAMP:STEP? 1,1
Returns 50

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MODE

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RAMP:STEP?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RAMP:STEP?

Description

This query returns the number of ramp steps for the selected traffic stream.

At *RST, this value is set to 10.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RAMP:STEP?<wsp>,<Port>,<Tgen>[,MAXimum|MINimum]

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RAMP:STEP?

The program data syntax for <Step> is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current ramp step will be returned.

Response Syntax <Step>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RAMP:STEP?

Response(s)

Step:

The response data syntax for <Step> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the ramp step.

Example(s)

* SOUR:DATA:TEL:ETH:STR:MODE 1,1,RAMP

* SOUR:DATA:TEL:ETH:STR:RAMP:STEP 1,1,50

* SOUR:DATA:TEL:ETH:STR:RAMP:STEP? 1,1
Returns 50

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MODE

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RAMP:STEP

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RAMP:TIME

Description

This command sets the time duration of each step for the selected traffic stream.

At *RST, this value is set to 1000.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RAMP:TIME<wsp><Port>,<Tgen>,<Time>|MAXimum|MINimum.

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RAMP:TIME

Time:

The program data syntax for the third parameter is defined as a <numeric_value> element. The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.
Sets the ramp step time.

Choices are 100 through 8000 milliseconds.

Example(s)

* SOUR:DATA:TEL:ETH:STR:MODE 1,1,RAMP

* SOUR:DATA:TEL:ETH:STR:RAMP:TIME 1,1,5

* SOUR:DATA:TEL:ETH:STR:RAMP:TIME? 1,1
Returns 5

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MODE

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RAMP:TIME?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RAMP:TIME?

Description

This query returns the ramp step time for the selected traffic stream.

At *RST, this value is set to 1000.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RAMP:TIME?<wsp><Port>,<Tgen>[,MAXimum|MINimum]

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RAMP:TIME?

The program data syntax for <Time> is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current ramp step time will be returned.

Response Syntax <Time>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RAMP:TIME?

Response(s)

Time:

The response data syntax for <Time> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the ramp step time.

Example(s)

* SOUR:DATA:TEL:ETH:STR:MODE 1,1,RAMP

* SOUR:DATA:TEL:ETH:STR:RAMP:TIME 1,1,5

* SOUR:DATA:TEL:ETH:STR:RAMP:TIME? 1,1
Returns 5

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MODE

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RAMP:TIME

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RATE

Description

This command sets the stream rate for the selected traffic stream.

At *RST, this value is set to 100.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RATE<wsp><Port>,<Tgen>,<Rate>|MAXimum|MINimum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RATE

Rate:

The program data syntax for the third parameter is defined as a <numeric_value> element. The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.
Sets the stream rate.

Example(s)

* SOUR:DATA:TEL:ETH:STR:RATE 1,1,100

* SOUR:DATA:TEL:ETH:STR:RATE? 1,1

Returns 100

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RATE?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RATE?

Description

This query returns stream rate for the selected traffic stream.

At *RST, this value is set to 100.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RATE?<wsp><Port>,<Tgen>[,MAXimum|MINimum]

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RATE?

The program data syntax for <Rate> is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current stream rate will be returned.

Response Syntax

<Rate>

Response(s)

Rate:

The response data syntax for <Rate> is defined as a <NR3 NUMERIC RESPONSE DATA> element.

Returns the stream rate for the transmitter.

Example(s)

* SOUR:DATA:TEL:ETH:STR:RATE 1,1,100

* SOUR:DATA:TEL:ETH:STR:RATE? 1,1

Returns 100

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:RATE

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:IP:MULTiplicat

Description

This command enables or disables the IP multiplicator for the selected traffic stream.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:IP:MULTiplicat<wsp><Port>,<Tgen>,<Set>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:IP:MULTiplicat

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the IP multiplicator for the selected traffic stream.

Example(s)

* SOUR:DATA:TEL:ETH:STR:SOUR:IP:MULT 1,1,ON

* SOUR:DATA:TEL:ETH:STR:SOUR:IP:MULT? 1,1
Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:IP:MULTiplicat?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:IP:MULTiplicat?

Description

This query returns the status of IP multiplicator for the selected traffic stream.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:IP:MULTiplicat?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:IP:MULTiplicat?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of IP multiplicator.

Example(s)

* SOUR:DATA:TEL:ETH:STR:SOUR:IP:MULT 1,1,ON

* SOUR:DATA:TEL:ETH:STR:SOUR:IP:MULT? 1,1
Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:IP:MULTiplicat

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:IP:RANGe

Description

This command sets the IP multiplicator range for the selected traffic stream.

At *RST, this value is set to RANGE1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:IP:RANGe<wsp><Port>,<Tgen>,RANGE1|RANGE2

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:IP:RANGe

Range:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: RANGE1|RANGE2.

Selects the range for IP multiplicator.

RANGE1, selects range from 1 to 128.

RANGE2, selects range from 0 to 127.

Example(s)

* SOUR:DATA:TEL:ETH:STR:SOUR:IP:MULT 1,1,ON

* SOUR:DATA:TEL:ETH:STR:SOUR:IP:RANG 1,1,RANGE2

* SOUR:DATA:TEL:ETH:STR:SOUR:IP:RANG? 1,1
Returns RANGE2

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:IP:MULTiplicat

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:IP:RANGe?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:IP:RANGe?

Description

This query returns the IP multiplicator range for the selected traffic stream.

At *RST, this value is set to RANGE1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:IP:RANGe?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Range>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:IP:RANGe?

Response

Range:

The response data syntax for <Range> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the range for IP multiplicator.

Example(s)

* SOUR:DATA:TEL:ETH:STR:SOUR:IP:MULT 1,1,ON

* SOUR:DATA:TEL:ETH:STR:SOUR:IP:RANG 1,1,RANGE2

* SOUR:DATA:TEL:ETH:STR:SOUR:IP:RANG? 1,1
Returns RANGE2

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:IP:MULTiplicat

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:IP:RANGe

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:MASK:IP

Description

This command sets the subnet mask for the selected traffic stream.

At *RST, this value is set to "255.255.0.0".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:MASK:IP<wsp><Port>,<Tgen>,<Mask>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:MASK:IP

Mask:

The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element.

Sets the subnet mask.

Example(s)

* SOUR:DATA:TEL:ETH:STR:SOUR:MASK:IP 1,1,"255.255.255.255"

* SOUR:DATA:TEL:ETH:STR:SOUR:MASK:IP? 1,1
Returns "255.255.255.255"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:MASK:IP?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:MASK:IP?

Description

This query returns the subnet mask for the selected traffic stream.

At *RST, this value is set to "255.255.0.0".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:MASK:IP?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:MASK:IP?

Response

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the subnet mask in the form of string.

Example(s)

* SOUR:DATA:TEL:ETH:STR:SOUR:MASK:IP 1,1,"255.255.255.255"

* SOUR:DATA:TEL:ETH:STR:SOUR:MASK:IP? 1,1
Returns "255.255.255.255"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:MASK:IP

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:PORT

Description

This command sets the source port number for the selected traffic stream.

At *RST, this value is set to 49184.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:PORT<wsp><Port>,<Tgen>,<Port>|MAXimum|MINimum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:PORT

Port:

The program data syntax for the third parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.
Sets the port number.

Choices are 0 through 65535.

Example(s)

* SOUR:DATA:TEL:ETH:STR:SOUR:PORT 1,1,65500

* SOUR:DATA:TEL:ETH:STR:SOUR:PORT? 1,1
Returns 65500

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:PORT?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:PORT?

Description

This query returns the source port number for the selected traffic stream.

At *RST, this value is set to 49184..

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:PORT?<wsp><Port>,<Tgen>[,MAXimum|MINimum]

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:PORT?

The program data syntax for <Port> is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current source port number will be returned.

Response Syntax

<Address>

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the port number for the selected stream.

Example(s)

* SOUR:DATA:TEL:ETH:STR:SOUR:PORT 1,1,65500

* SOUR:DATA:TEL:ETH:STR:SOUR:PORT? 1,1
Returns 65500

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:PORT

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:STATus

Description

This command enables or disables the stream transmission.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:STATus<wsp><Port>,<Set>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:STATus

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the stream transmission.

Example(s)

* SOUR:DATA:TEL:ETH:STR:STAT 1,ON
* SOUR:DATA:TEL:ETH:STR:STAT? 1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:STATus?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:STATus?

Description

This query returns the status of stream transmission.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:STATus?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:STATus?

Response(s)	Set: The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the status of stream transmission.
Example(s)	* SOUR:DATA:TEL:ETH:STR:STAT 1,ON * SOUR:DATA:TEL:ETH:STR:STAT? 1 Returns 1
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:STATus

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:BIT

Description

This command sets the reserved bit value of Type of Service (TOS) for the selected traffic stream.

At *RST, this value is set to #B0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:BIT<wsp><Port>,<Tgen>,<Bit>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:BIT

	Bit: The program data syntax for the third parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element. Sets the reserved bit value.
Example(s)	* SOUR:DATA:TEL:ETH:STR:TOS:BIT 1,1,#B1 * SOUR:DATA:TEL:ETH:STR:TOS:BIT? 1,1 Returns #B1
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:BIT?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:BIT?

Description

This query returns the reserved bit value of the Type of Service (TOS) for the selected traffic stream.

At *RST, this value is set to #B0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:BIT?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Bit>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:BIT?

Response(s)

Bit:

The response data syntax for <Bit> is defined as a <NONDECIMAL NUMERIC RESPONSE DATA> element.

Returns the reserved bit value.

Example(s)

* SOUR:DATA:TEL:ETH:STR:TOS:BIT 1,1,#B1

* SOUR:DATA:TEL:ETH:STR:TOS:BIT? 1,1

Returns #B1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:BIT

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:COST

Description

This command sets the monetary cost level of the Type of Service (TOS) for the selected traffic stream.

At *RST, this value is set to NORMal.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:COST<wsp><Port>,<Tgen>,NORMal|TLOW

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:COST

Cost:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: NORMal|TLOW.

Selects the monetary cost level of the Type of Service.

NORMal, selects Normal as monetary cost level.

TLOW, selects Low as monetary cost level.

Example(s)

* SOUR:DATA:TEL:ETH:STR:TOS:COST 1,1,TLOW

* SOUR:DATA:TEL:ETH:STR:TOS:COST? 1,1
Returns TLOW

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:COST?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:COST?

Description

This query returns the monetary cost level of the Type of Service (TOS) for the selected traffic stream.

At *RST, this value is set to NORMal.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:COST?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Cost>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:COST?

Response(s)

Cost:

The response data syntax for <Cost> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the monetary cost level of the Type of Service.

NORMAL, Normal is selected as monetary cost level.

TLOW, Low is selected as monetary cost level.

Example(s)

* SOUR:DATA:TEL:ETH:STR:TOS:COST 1,1,TLOW

* SOUR:DATA:TEL:ETH:STR:TOS:COST? 1,1
Returns TLOW

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:COST

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:DELay

Description

This command sets the delay level of the Type of Service (TOS) for the selected traffic stream.

At *RST, this value is set to NORMal.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:DELay<wsp><Port>,<Tgen>,NORMal|TLOW

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:DELay

Delay:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: NORMal|TLOW.

Selects the delay level of the Type of Service..

NORMal, selects Normal as delay leve l of TOS.

TLOW, selects TOS as delay level of TOS.

Example(s)

* SOUR:DATA:TEL:ETH:STR:TOS:DEL 1,1,TLOW

* SOUR:DATA:TEL:ETH:STR:TOS:DEL? 1,1

Returns TLOW

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:DELay?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:DELay?

Description

This query returns the delay level of the Type of Service (TOS) for the selected traffic stream.

At *RST, this value is set to NORMal.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:DELay?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Delay>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:DELay?

Response(s)

Delay:

The response data syntax for <Delay> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the delay level of the Type of Service.

NORMAL, Normal is selected as delay level.

TLOW, Low is selected as delay level.

Example(s)

* SOUR:DATA:TEL:ETH:STR:TOS:DEL 1,1,TLOW

* SOUR:DATA:TEL:ETH:STR:TOS:DEL? 1,1

Returns TLOW

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:DELay

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:PRECedence

Description

This command sets the precedence of the Type of Service (TOS) for the selected traffic stream.

At *RST, this value is set to ROUTine.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:PRECedence<wsp><Port>,<Tgen>,ROUTine|PRIority|IMMediate|FLASh|FOVerride|CRITic|ICONtrol|NCONtrol

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:PRECedence

Precedence:
The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element. The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:
ROUTine|PRIority|IMMediate|FLASh|FOVerride|CRITic|CONtrol|NCONtrol.

Selects the precedence of the Type of Service.

ROUTine, selects Routine as precedence.

PRIority, selects Priority as precedence.

IMMediate, selects Immediate as precedence.

FLASh, selects Flash as precedence.

FOVerride, selects Flash Override as precedence.

CRITic, selects Critic as precedence.

ICONtrol, selects Internet Control as precedence.

NCONtrol, selects Network Control as precedence.

Example(s)

* SOUR:DATA:TEL:ETH:STR:TOS:PREC 1,1,ROUT

* SOUR:DATA:TEL:ETH:STR:TOS:PREC? 1,1

Returns ROUTINE

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:PRECedence?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:PRECedence?

Description

This query returns the precedence of the Type of Service (TOS) for the selected traffic stream.

At *RST, this value is set to ROUTine.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:PRECedence?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Precedence>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:PRECedence?

Response(s)

Precedence:

The response data syntax for <Precedence> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the precedence of the Type of Service.

ROUTine, Routine is selected as 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 1,1,ROUT

* SOUR:DATA:TEL:ETH:STR:TOS:PREC? 1,1

Returns ROUTINE

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:PRECedence

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:RELiability

Description

This command sets the reliability level of the Type of Service (TOS) for the selected traffic stream.

At *RST, this value is set to NORMal.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:RELiability<wsp><Port>,<Tgen>,NORMal|HIGH

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:RELiability

Reliability:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: NORMal|HIGH.

Selects the reliability level of the Type of Service.

NORMal, selects reliability level as Normal.

HIGH, selects reliability level as High.

Example(s)

* SOUR:DATA:TEL:ETH:STR:TOS:REL 1,1,HIGH

* SOUR:DATA:TEL:ETH:STR:TOS:REL? 1,1

Returns HIGH

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:RELiability?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:RELiability?

Description

This query returns the reliability level of Type of Service (TOS) for the selected traffic stream.

At *RST, this value is set to NORMal.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:RELiability?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Reliability>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:RELiability?

Response

Reliability:

The response data syntax for <Reliability> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the reliability level of the Type of Service.

NORMAL, Normal is selected as reliability level.

HIGH, High is selected as reliability level.

Example(s)

* SOUR:DATA:TEL:ETH:STR:TOS:REL 1,1,HIGH

* SOUR:DATA:TEL:ETH:STR:TOS:REL? 1,1

Returns HIGH

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:RELiability

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:THRoughput

Description

This command sets the throughput level of the Type of Service (TOS) for the selected traffic stream.

At *RST, this value is set to NORMal.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:THRoughput<wsp><Port>,<Tgen>,NORMal|HIGH

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:THRoughput

Throughput:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: NORMal|HIGH.

Selects the throughput level of the Type of Service.

NORMal, selects Normal as throughput level.

HIGH, selects High as throughput level.

Example(s)

* SOUR:DATA:TEL:ETH:STR:TOS:THR 1,1,HIGH

* SOUR:DATA:TEL:ETH:STR:TOS:THR? 1,1

Returns HIGH

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:THRoughput?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:THRoughput?

Description

This query returns the throughput level of the Type of Service (TOS) for the selected traffic stream.

At *RST, this value is set to NORMal.

Syntax

SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:THRoughput?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for <Tgen> is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Throughput>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:THRoughput?

Response(s)	Throughput: The response data syntax for <Throughput> is defined as a <CHARACTER RESPONSE DATA> element. Returns the throughput level of the Type of Service. NORMAL, Normal is selected as throughput level. HIGH, High is selected as throughput level.
Example(s)	* SOUR:DATA:TEL:ETH:STR:TOS:THR 1,1,HIGH * SOUR:DATA:TEL:ETH:STR:TOS:THR? 1,1 Returns HIGH
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TOS:THRoughput

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TRANsport

Description

This command sets the transport traffic type for the selected traffic stream.

At *RST, this value is set to UDP.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TRANsport<wsp><Port>,<Tgen>,NONE|UDP|TCP

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TRANsport

Transport:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: NONE|UDP|TCP.

Selects the transport traffic type.

NONE, No transport traffic type is selected.

UDP, selects UDP (User Data Protocol) as transport traffic type.

TCP, selects TCP (Transmission Control Protocol) as transport traffic type.

Example(s)

* SOUR:DATA:TEL:ETH:STR:TRAN 1,1,UDP

* SOUR:DATA:TEL:ETH:STR:TRAN? 1,1

Returns UDP

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TRANsport?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TRANsport?

Description

This query returns the transport traffic type for the selected traffic stream.

At *RST, this value is set to UDP.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TRANsport?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Transport>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TRANsport?

Response(s)

Transport:

The response data syntax for <Transport> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the transport traffic type.

NONE, No transport traffic type is selected.

UDP, User Data Protocol (UDP) is selected as transport traffic type.

TCP, Transmission Data Protocol (TCP) is selected as transport traffic type.

Example(s)

* SOUR:DATA:TEL:ETH:STR:TRAN 1,1,UDP

* SOUR:DATA:TEL:ETH:STR:TRAN? 1,1

Returns UDP

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TRANsport

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TRANsport:SIZE

Description

This command sets the frame size for each traffic type.

At *RST, this value is set to 26.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TRANsport:SIZE<wsp><Port>,<Tgen>,<Size>|MAXimum|MINimum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TRANsport:SIZE

Size:

The program data syntax for the second parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.
Sets the frame size.

Choices are 26 through 15962.

Example(s)

* SOUR:DATA:TEL:ETH:STR:TRAN 1,1,UDP

* SOUR:DATA:TEL:ETH:STR:TRAN:SIZE 1,1,50

* SOURDATA:TEL:ETH:STR:TRAN:SIZE? 1,1
Returns 50

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TRANsport

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TRANsport:SIZE?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TRANsport:SIZE?

Description

This query returns the frame size for each traffic type.

At *RST, this value is set to 26.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TRANsport:SIZE?<wsp><Port>,<Tgen>[,MAXimum|MINimum]

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TRANsport:SIZE?

The program data syntax for <Size> is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current frame size will be returned.

Response Syntax <Size>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TRANsport:SIZE?

Response(s)

Size:

The response data syntax for <Size> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the frame size for each traffic type.

Example(s)

* SOUR:DATA:TEL:ETH:STR:TRAN 1,1,UDP

* SOUR:DATA:TEL:ETH:STR:TRAN:SIZE 1,1,50

* SOURDATA:TEL:ETH:STR:TRAN:SIZE? 1,1
Returns 50

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TRANsport

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:TRANsport:SIZE

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN

Description

This command enables or disables the Virtual Local Area Network (VLAN) type frames for the selected traffic stream.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN<wsp><Port>,<Tgen>,<Set>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for the increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables VLAN type frames.

Example(s)

* SOUR:DATA:TEL:ETH:STR:VLAN 1,1,ON
* SOUR:DATA:TEL:ETH:STR:VLAN? 1,1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN?

Description

This query returns the status of Virtual Local Area Network (VLAN) type frames for the selected traffic stream.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of VLAN type frames.

Example(s)

* SOUR:DATA:TEL:ETH:STR:VLAN 1,1,ON

* SOUR:DATA:TEL:ETH:STR:VLAN? 1,1 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:STACked

Description

This command sets the value of the Virtual Local Area Network (VLAN) stacked for the selected traffic stream.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:STACked<wsp><Port>,<Tgen>,<Stacked>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:STACked

Stacked:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the VLAN stacked.

Selects the Stacked range from 1 to 3.

Example(s)

* SOUR:DATA:TEL:ETH:STR:VLAN 1,1,ON

* SOUR:DATA:TEL:ETH:STR:VLAN:STAC 1,1,2

* SOUR:DATA:TEL:ETH:STR:VLAN:STAC? 1,1
Returns 2

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:STACked?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:STACked?

Description

This query returns the value of the Virtual Local Area Network (VLAN) stacked for the selected traffic stream.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:STACked?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Stacked>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:STACked?

Response (s)

Stacked:

The response data syntax for <Stacked> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the VLAN stacked.

Example(s)

* SOUR:DATA:TEL:ETH:STR:VLAN 1,1,ON

* SOUR:DATA:TEL:ETH:STR:VLAN:STAC 1,1,2

* SOUR:DATA:TEL:ETH:STR:VLAN:STAC? 1,1
Returns 2

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:STACked

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:TYPE

Description

This command selects the Ethernet of the type Virtual Local Area Network (VLAN).

At *RST, this value is set to V8100.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:TYPE<wsp>,<Port>,<Tgen>,<Stacked>,V8100|V88A8|V9100|V9200|V9300

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Stacked:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the VLAN stacked.

Selects the Stacked range from 1 to 3.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:TYPE

Vtype:

The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element.
The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: V8100|V88A8|V9100|V9200|V9300.

Selects the VLAN type.

V8100, selects VLAN type as 8100.

V88A8, selects VLAN type as 88A8.

V9100, selects VLAN type as 9100.

V9200, selects VLAN type as 9200.

V9300, selects VLAN type as 9300.

Example(s)

* SOUR:DATA:TEL:ETH:STR:VLAN 1,1,ON

* SOUR:DATA:TEL:ETH:STR:VLAN:STAC 1,1,2

* SOUR:DATA:TEL:ETH:STR:VLAN:TYPE 1,1,2,V9100

* SOUR:DATA:TEL:ETH:STR:VLAN:TYPE? 1,1,2
Returns V9100

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:STACked

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:TYPE?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:TYPE?

Description

This query returns the Ethernet of the type Virtual Local Area Network (VLAN).

At *RST, this value is set to V8100.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:TYPE?<wsp><Port>,<Tgen>,<Stacked>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Stacked:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the VLAN stacked.

Selects the Stacked range from 1 to 3.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:TYPE?

Response Syntax <Vtype>

Response(s)

Vtype:

The response data syntax for <Idtype> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the VLAN type.

V8100, VLAN identificationtype 8100 is selected.

V88A8, VLAN identification type 88A8 is selected.

V9100, VLAN identification type 9100 is selected.

V9200, VLAN identification type 9200 is selected.

V9300, VLAN identification type 9300 is selected.

Example(s)

* SOUR:DATA:TEL:ETH:STR:VLAN 1,1,ON

* SOUR:DATA:TEL:ETH:STR:VLAN:STAC 1,1,2

* SOUR:DATA:TEL:ETH:STR:VLAN:TYPE 1,1,2,V9100

* SOUR:DATA:TEL:ETH:STR:VLAN:TYPE? 1,1,2
Returns V9100

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:STACked

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:TYPE

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:ID

Description

This command sets the Virtual Local Area Network (VLAN) identification for the selected traffic stream.

At *RST, this value is set to 2.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:ID<wsp><Port>,<Tgen>,<Stacked>,<Vlanid>|MAXimum|MINimum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:ID

Parameter(s)

Stacked:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Sets the VLAN stacked.

Selects the Stacked range from 1 to 3.

Vlanid:

The program data syntax for the fourth parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.
Sets the VLAN identification for the stream.

Example(s)

* SOUR:DATA:TEL:ETH:STR:VLAN 1,1,ON

* SOUR:DATA:TEL:ETH:STR:VLAN:STAC 1,1,2

* SOUR:DATA:TEL:ETH:STR:VLAN:ID 1,1,1,50

* SOUR:DATA:TEL:ETH:STR:VLAN:ID? 1,1,1

Returns 50

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:ID

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN
* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:STACked
* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:ID?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:ID?

Description

This query returns the Virtual Local Area Network (VLAN) identification for the selected traffic stream.

At *RST, this value is set to 2.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:ID?<wsp><Port>,<Tgen>,<Stacked>[,MAXimum|MINimum]

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:ID?

Stacked:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Sets the VLAN stacked.

Selects the Stacked range from 1 to 3.

The program data syntax for <Vlanid> is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.
Sets the VLAN identification.

Response Syntax <Vlanid>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:ID?

Response(s)

Vlanid:

The response data syntax for <Vlanid> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the value of VLAN identification.

Choices are 0 through 4095.

Example(s)

* SOUR:DATA:TEL:ETH:STR:VLAN 1,1,ON

* SOUR:DATA:TEL:ETH:STR:VLAN:STAC 1,1,2

* SOUR:DATA:TEL:ETH:STR:VLAN:ID 1,1,1,50

* SOUR:DATA:TEL:ETH:STR:VLAN:ID? 1,1,1

Returns 50

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:STACked

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:ID

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:ID:ELIGiblebit

Description

This command enables or disables the VLAN eligible bit of a specific VLAN stacked for the selected traffic stream.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:ID:ELIGiblebit<wsp><Port>,<Tgen>,<Stacked>,<Set>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:ID:ELIGiblebit

Parameter(s)

Stacked:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the VLAN stacked.

Selects the Stacked range from 1 to 3.

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element. The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the eligible bit for the specific VLAN stacked.

Example(s)

* SOUR:DATA:TEL:ETH:STR:VLAN 1,1,ON

* SOUR:DATA:TEL:ETH:STR:VLAN:STAC 1,1,2

* SOUR:DATA:TEL:ETH:STR:VLAN:ID:ELIG 1,1,2,ON

* SOUR:DATA:TEL:ETH:STR:VLAN:ID:ELIG? 1,1,2
Returns 1

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:ID:ELIGiblebit

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN
* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:STACked
* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:ID:ELIGiblebit?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:ID:ELIGiblebit?

Description

This query returns the status of VLAN eligible bit of a specific VLAN stacked for the selected traffic stream.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:ID:ELIGiblebit?<wsp><Port>,<Tgen>,<Stacked>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:ID:ELIGiblebit?

Stacked:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the VLAN stacked.

Selects the Stacked range from 1 to 3.

Response Syntax <Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:ID:ELIGiblebit?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of VLAN eligible bit.

Example(s)

* SOUR:DATA:TEL:ETH:STR:VLAN 1,1,ON

* SOUR:DATA:TEL:ETH:STR:VLAN:STAC 1,1,2

* SOUR:DATA:TEL:ETH:STR:VLAN:ID:ELIG 1,1,2,ON

* SOUR:DATA:TEL:ETH:STR:VLAN:ID:ELIG? 1,1,2
Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN :STACked

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:ID:ELIGiblebit

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:PRIority

Description

This command sets the Virtual Local Area Network (VLAN) user priority for the selected traffic stream.

At *RST, this value is set to 0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:PRIority<wsp><Port>,<Tgen>,<Stacked>,<Priority>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:PRIority

Stacked:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the VLAN stacked.

Selects the Stacked range from 1 to 3.

Priority:

The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the priority for the selected VLAN.

Example(s)

* SOUR:DATA:TEL:ETH:STR:VLAN 1,1,ON

* SOUR:DATA:TEL:ETH:STR:VLAN:STAC 1,1,2

* SOUR:DATA:TEL:ETH:STR:VLAN:PRI 1,1,2,5

* SOUR:DATA:TEL:ETH:STR:VLAN:PRI? 1,1,2
Returns 5

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN :STACked

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:PRIority?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:PRIority?

Description

This query returns the Virtual Local Area Network (VLAN) user priority for the selected traffic stream.

At *RST, this value is set to 0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:PRIority?<wsp><Port>,<Tgen>,<Stacked>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:PRIority?

Stacked:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the VLAN stacked.

Selects the Stacked range from 1 to 3.

Response Syntax <Priority>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:PRIority?

Response(s)

Priority:

The response data syntax for <Priority> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the VLAN user priority.

Choices are 0 through 7.

Example(s)

* SOUR:DATA:TEL:ETH:STR:VLAN 1,1,ON

* SOUR:DATA:TEL:ETH:STR:VLAN:STAC 1,1,2

* SOUR:DATA:TEL:ETH:STR:VLAN:PRI 1,1,2,5

* SOUR:DATA:TEL:ETH:STR:VLAN:PRI? 1,1,2
Returns 5

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN :STACked

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:VLAN:PRIority

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:UDPProtocol:HISTory?

Description

This query returns the history status of higher layer User Data Protocol (UDP) error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:UDPProtocol:HISTory?<wsp><Port>,UDPChecksum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: UDPChecksum.

Selects the higher layer UDP (User Data Protocol) type of protocol error.

UDPChecksum, selects the type of higher layer protocol error as UDP Checksum.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:UDPProtocol:HISTory?

Response Syntax <History>

Response(s) History:

The response data syntax for <History> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the history status of higher layer UDP type protocol 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:UDPP:HIST? 1,UDPC
Returns the error history.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:UDPProtocol:CURRent?

Description

This query returns the current status of higher layer User Data Protocol (UDP) error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:UDPProtocol:CURRent?<wsp><Port>, UDPChecksum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: UDPChecksum.

Selects the higher layer UDP (User Data Protocol) type of protocol error.

UDPChecksum, selects the type of higher layer protocol error as UDP Checksum.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:UDPProtocol:CURRent?

Response Syntax <Current>

Response(s) Current:

The response data syntax for <Current> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the current status of higher layer UDP type protocol 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) * FETC:DATA:TEL:ETH:ERR:UDPP:CURR? 1,UDPC

Returns the current error status.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:UDPProtocol:SEConds?

Description

This query returns the number of seconds within which higher layer User Data Protocol (UDP) error occurred.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:UDPProtocol:SEConds?<wsp><Port>, UDPChecksum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: UDPChecksum.

Selects the higher layer UDP (User Data Protocol) type of protocol error.

UDPChecksum, selects the type of higher layer protocol error as UDP Checksum.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:UDPProtocol:SEConds?

Response Syntax <Seconds>

Response(s) Seconds:

The response data syntax for <Seconds> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of seconds of higher layer UDP type protocol error.

Example(s) * FETC:DATA:TEL:ETH:ERR:UDPP:SEC? 1,UDPC
Returns the number of errored seconds.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:UDPProtocol:COUNt?

Description

This query returns the count of higher layer User Data Protocol (UDP) error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:UDPProtocol:COUNt?<wsp><Port>, UDPChecksum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: UDPChecksum.

Selects the higher layer UDP (User Data Protocol) type of protocol error.

UDPChecksum, selects the type of higher layer protocol error as UDP Checksum.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:UDPProtocol:COUNt?

Response Syntax <Count>

Response(s) Count:

The response data syntax for <Count> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the count of higher layer UDP type protocol error.

Example(s) * FETC:DATA:TEL:ETH:ERR:UDPP:COUN? 1,UDPC

Returns the error count.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:UDPProtocol:RATE?

Description

This query returns the current rate of higher layer User Data Protocol (UDP) error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:UDPProtocol:RATE?<wsp><Port>, UDPChecksum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: UDPChecksum.

Selects the higher layer UDP (User Data Protocol) type of protocol error.

UDPChecksum, selects the type of higher layer protocol error as UDP Checksum.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:UDPProtocol:RATE?

Response Syntax <Rate>

Response(s) Rate:

The response data syntax for <Rate> is defined as a <NR3 NUMERIC RESPONSE DATA> element.

Returns the current rate of higher layer UDP type protocol error.

Example(s) * FETC:DATA:TEL:ETH:ERR:UDPP:RATE? 1,UDPC
Returns the error rate.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:IPPRotocol:HISTory?

Description

This query returns the history status of higher layer Internet Protocol (IP) error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:IPPRotocol:HISTory?<wsp><Port>, IPCHecksum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: IPCHecksum.

Selects the higher layer IP (Internet Protocol) type of protocol error.

IPCHecksum, selects the type of higher layer protocol error as IP Header Checksum.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:IPPRotocol:HISTory?

Response Syntax <History>

Response(s) History:

The response data syntax for <History> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the history status of high level protocol 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:IPPR:HIST? 1,IPCH
Returns the error history.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:IPPRotocol:CURRent?

Description

This query returns the current status of higher layer Internet Protocol (IP) error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:IPPRotocol:CURRent?<wsp><Port>, IPCHecksum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: IPCHecksum.

Selects the higher layer IP (Internet Protocol) type of protocol error.

IPCHecksum, selects the type of higher layer protocol error as IP Header Checksum.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:IPPRotocol:CURRent?

Response Syntax <Current>

Response(s) Current:

The response data syntax for <Current> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the current status of high level Internet Protocol (IP) 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) * FETC:DATA:TEL:ETH:ERR:IPPR:CURR? 1,IPCH
Returns the current error status.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:IPPRotocol:SEConds?

Description

This query returns the number of seconds within which higher layer Internet Protocol (IP) error occurred.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:IPPRotocol:SEConds?<wsp><Port>,IPCHecksum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: IPCHecksum.

Selects the higher layer IP (Internet Protocol) type of protocol error.

IPCHecksum, selects the type of higher layer protocol error as IP Header Checksum.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:IPPRotocol:SEConds?

Response Syntax <Seconds>

Response(s) Seconds:

The response data syntax for <Seconds> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of seconds of high level Internet Protocol (IP) error.

Example(s) * FETC:DATA:TEL:ETH:ERR:IPPR:SEC? 1,IPCH
Returns the number of errored seconds.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:IPPRotocol:COUNt?

Description

This query returns the count of higher layer Internet Protocol (IP) error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:IPPRotocol:COUNt?<wsp><Port>,IPCHecksum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: IPCHecksum.

Selects the higher layer IP (Internet Protocol) type of protocol error.

IPCHecksum, selects the type of higher layer protocol error as IP Header Checksum.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:IPPRotocol:COUNt?

Response Syntax <Count>

Response(s) Count:

The response data syntax for <Count> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the count of high level Internet Protocol (IP) error.

Example(s) * FETC:DATA:TEL:ETH:ERR:IPPR:COUN? 1,IPCH
Returns the error count.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:IPPRotocol:RATE?

Description

This query returns the current rate of higher layer Internet Protocol (IP) error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:IPPRotocol:RATE?<wsp><Port>,IPCHecksum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: IPCHecksum.

Selects the higher layer IP (Internet Protocol) type of protocol error.

IPCHecksum, selects the type of higher layer protocol error as IP Header Checksum.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:IPPRotocol:RATE?

Response Syntax <Rate>

Response(s) Rate:

The response data syntax for <Rate> is defined as a <NR3 NUMERIC RESPONSE DATA> element.

Returns the current rate of high level Internet Protocol (IP) error.

Example(s) * FETC:DATA:TEL:ETH:ERR:IPPR:RATE? 1,IPCH
Returns the error rate.

:SOURce[1..n]:DATA:TELecom:ETHernet:ENABled:BANDwidth?

Description

This query returns the total enabled bandwidth value for all configured traffic streams.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ENABled:BANDwidth?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Bandwidth>

:SOURce[1..n]:DATA:TELecom:ETHernet:ENABled:BANDwidth?

Response(s)

Bandwidth:

The response data syntax for <Bandwidth> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns enabled bandwidth.

Example(s)

* SOUR:DATA:TEL:ETH:ENAB:BAND? 1

Returns enabled bandwidth.

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:TOTal:BANDwidth?

:SOURce[1..n]:DATA:TELecom:ETHernet:TOTal:BANDwidth?

Description

This query returns the total available bandwidth value for all the configured traffic streams.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:TOTal:BANDwidth?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Bandwidth>

:SOURce[1..n]:DATA:TELecom:ETHernet:TOTal:BANDwidth?

Response(s)

Bandwidth:

The response data syntax for <Bandwidth> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the total bandwidth.

Example(s)

* SOUR:DATA:TEL:ETH:TOT:BAND? 1

Returns total available bandwidth.

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:ENABled:BANDwidth?

:SOURce[1..n]:DATA:TELecom:ETHernet:FRAMe:COUNt:TX?

Description

This query returns the number of transmitted frames.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:FRAMe:COUNt:TX?<wsp><Port>,MULTicast|BROadcast|UNICast|NUNicast|FTOtal

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:SOURce[1..n]:DATA:TELecom:ETHernet:FRAMe:COUNt:TX?

Ftype:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MULTicast|BROadcast|UNICast|NUNicast|FTOtal.

Selects the frame type.

MULTicast, selects Multicast as frame type.

BROadcast, selects Broadcast as frame type.

UNICast, selects Unicast as frame type.

NUNicast, selects Non Unicast as frame type.

FTOtal, selects as Total as frame type.

Response Syntax

<Count>

Response(s)

Count:

The response data syntax for <Count> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the number of transmitted frames.

Example(s)

* SOUR:DATA:TEL:ETH:FRAM:COUN:TX? 1,MULT
Returns the number of transmitted frames.

:SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:COUNt:RX?

Description

This query returns the number of received frames.

At *RST, this value is device dependent.

Syntax

SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:COUNt:RX?<wsp><Port>,MULTicast|BROadcast|UNICast|NUNicast|FTOtal

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:COUNt:RX?

Ftype:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MULTicast|BROadcast|UNICast|NUNicast|FTOtal.

Selects the frame type.

MULTicast, selects Multicast as frame type.

BROadcast, selects Broadcast as frame type.

UNICast, selects Unicast as frame type.

NUNicast, selects Non Unicast as frame type.

FTOtal, selects as Total as frame type.

Response Syntax

<Count>

Response(s)

Count:

The response data syntax for <Count> is defined as <NR2 NUMERIC RESPONSE DATA> element.

Returns the number of received frames.

Example(s)

* SENS:DATA:TEL:ETH:FRAM:COUN:RX? 1,MULT

Returns the number of received frames.

:SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:BANDwidth?

Description

This query returns the frame bandwidth in megabit per second.

At *RST, this value is device dependent.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:BANDwidth?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Bandwidth>

Response(s)

Bandwidth:

The response data syntax for <Bandwidth> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the frame bandwidth.

Example(s)

* SENS:DATA:TEL:ETH:FRAM:BAND? 1

Returns the frame bandwidth.

:SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:RATE?

Description

This query returns the receiving number of frames in frame per second.

At *RST, this value is device dependent.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:RATE? <wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Rate>

Response(s)

Rate:

The response data syntax for <Rate> is defined as <NR3 NUMERIC RESPONSE DATA> element.

Returns the receiving number of frames.

Example(s)

* SENS:DATA:TEL:ETH:FRAM:RATE? 1

Returns the received number of frames.

:SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:UTILization?

Description

This query returns the percentage of line rate utilization.

At *RST, this value is device dependent.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:UTILization?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Utilization>

Response(s)

Utilization:

The response data syntax for <Utilization> is defined as <NR2 NUMERIC RESPONSE DATA> element.

Returns the line rate utilization.

Example(s)

* SENS:DATA:TEL:ETH:FRAM:UTIL? 1

Returns the percentage of line rate utilization.

:SENSe[1..n]:DATA:TELecom:ETHernet:FSIZe:COUNt?

Description

This query returns the total number of all valid and invalid frames received.

At *RST, this value is device dependent.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:FSIZe:COUNt?<wsp><Port>,FLESS64|F64|F65TO127|F128TO255|F256TO511|F512TO1023|F1024TO1518|FMORE1518|FSTotal

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:SENSe[1..n]:DATA:TELecom:ETHernet:FSIZe:COUNt?

Ftype:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: FLESS64|F64|F65TO127|F128TO255|F256TO511|F512TO1023|F1024TO1518|FMORE1518|FSTotal.

Selects the valid frame size count.

FLESS64, selects frame size less than 64.

F64, selects frame size equal to 64.

F65TO127, selects frame size between 65 to 127.

F128TO255, selects frame size between 128 to 255.

F256TO511, selects frame size between 256 to 511.

F512TO1023, selects frame size between 512 to 1023.

F1024TO1518, selects frame size between 1024 to 1518.

FMORE1518, selects frame size more than 1519.

FSTotal, selects the Total frame size.

:SENSe[1..n]:DATA:TELecom:ETHernet:FSIZe:COUNt?

Response Syntax <Count>

Response(s) Count:

The response data syntax for <Count> is defined as <NR2 NUMERIC RESPONSE DATA> element.

Returns the total number of all valid and invalid frames received.

Example(s) * SENS:DATA:TEL:ETH:FSIZ:COUN? 1,F64

Returns the number of all valid and invalid frames received.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:STReam:HISTory?

Description

This query returns the history status of Stream Errors Analysis errors.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:STReam:HISTory?<wsp><Port>, OUTSequence|FLOSs

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:STReam:HISTory?

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: OUTSequence|FLOSs.

Selects the type of Stream Errors Analysis error.

OUTSequence, selects Out of Sequence as Stream Errors Analysis error.

FLOSs, selects Frame Loss as Stream Errors Analysis error.

Response Syntax

<History>

Response(s)

History:

The response data syntax for <History> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the history status of stream errors analysis error.

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:ERR:STR:HIST? 1,FLOS

Returns the error history.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:STReam:CURRent?

Description

This query returns the current status of Stream Errors Analysis errors.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:STReam:CURRent?<wsp><Port>,OUTSequence|FLOSs

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: OUTSequence|FLOSs.

Selects the type of Stream Errors Analysis error.

OUTSequence, selects Out of Sequence as Stream Errors Analysis error.

FLOSs, selects Frame Loss as Stream Errors Analysis error.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:STReam:CURRent?

Response Syntax

<Current>

Response(s)

Current:

The response data syntax for <Current> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the current status of stream errors analysis error.

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:ERR:STR:CURR? 1,FLOS

Returns the current error status.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:STReam:SEConds?

Description

This query returns the number of seconds within which Stream Errors Analysis error occurred.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:STReam:SEConds?<wsp><Port>,OUTSequence|FLOSs

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element. The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: OUTSequence|FLOSs.

Selects the type of Stream Errors Analysis error.

OUTSequence, selects Out of Sequence as Stream Errors Analysis error.

FLOSs, selects Frame Loss as Stream Errors Analysis error.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:STReam:SEConds?

Response Syntax <Seconds>

Response(s) Seconds:

The response data syntax for <Seconds> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of seconds of stream errors analysis error.

Example(s) * FETC:DATA:TEL:ETH:ERR:STR:SEC? 1,FLOS

Returns the number of errored seconds.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:STReam:COUNt?

Description

This query returns the count for Stream Errors Analysis error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:STReam:COUNt?<wsp><Port>, OUTSequence|FLOSs

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:STReam:COUNt?

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: OUTSequence|FLOSs.

Selects the type of Stream Errors Analysis error.

OUTSequence, selects Out of Sequence as Stream Errors Analysis error.

FLOSs, selects Frame Loss as Stream Errors Analysis error.

Response Syntax

<Count>

Response(s)

Count:

The response data syntax for <Count> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the count of stream errors analysis error.

Example(s)

* FETC:DATA:TEL:ETH:ERR:STR:COUN? 1,FLOS
Returns the error count.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:STReam:RATE?

Description

This query returns the current rate of Stream Errors Analysis error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:STReam:RATE?<wsp><Port>,OUTSequence|FLOSs

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:STReam:RATE?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: OUTSequence|FLOSs.

Selects the type of Stream Errors Analysis error.

OUTSequence, selects Out of Sequence as Stream Errors Analysis error.

FLOSs, selects Frame Loss as Stream Errors Analysis error.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:STReam:RATE?

Response Syntax <Rate>

Response(s) Rate:

The response data syntax for <Rate> is defined as a <NR3 NUMERIC RESPONSE DATA> element.

Returns the current rate of stream errors analysis error.

Example(s) * FETC:DATA:TEL:ETH:ERR:STR:RATE? 1,FLOS

Returns the error rate.

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:INSequence:COUNt?

Description

This query returns the number of packets having its sequence number bigger than the previously received packet.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:INSequence:COUNt?<wsp><Port>, OUTSequence|FLOSs

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:INSequence:COUNt?

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: OUTSequence|FLOSs.

Selects the type of stream errors analysis error.

OUTSequence, selects Out of Sequence as stream errors analysis error.

FLOSs, selects Frame Loss as stream errors analysis error.

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:INSequence:COUNt?

Response Syntax <Counter>

Response(s) Counter:

The response data syntax for <Counter> is defined as a <NR2 NUMEROFFSetIC RESPONSE DATA> element.

Returns the number of packets having its sequence number bigger than the previously received packet.

Example(s) * FETC:DATA:TEL:ETH:STR:INS:COUN? 1,FLOS

Returns the number of packets.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:STACked

Description

This command selects upto Multi Protocol Label Switching (MPLS) headers.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:STACked<wsp><Port>,<Tgen>,<Stacked>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:STACked

Stacked:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the stacked header.

Selects the Stacked range from 1 to 3.

Example(s)

* SOUR:DATA:TEL:ETH:STR:MPLS:STAC 1,2,2

* SOUR:DATA:TEL:ETH:STR:MPLS:STAC? 1,2
Returns 2

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:STACked?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:STACked?

Description

This query returns upto Multi Protocol Label Switching (MPLS) headers.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:STACked?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Stacked>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:STACked?

Response(s)

Stacked:

The response data syntax for <Stacked> is defined as a <NR1 NUMERIC NUMERIC RESPONSE DATA> element.

Returns the stacked header.

Example(s)

* SOUR:DATA:TEL:ETH:STR:MPLS:STAC 1,2,2

* SOUR:DATA:TEL:ETH:STR:MPLS:STAC? 1,2
Returns 2

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:STACked

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:LABel

Description

This command selects the Multi Protocol Label Switching (MPLS) transmitted labels.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:LABel<wsp><Port>,<Tgen>,<Stacked>,<Label>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:LABel

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Stacked:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the Stacked Headers.

Selects the Stacked range from 1 to 3.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:LABel

Label:

The program data syntax for the fourth parameter is defined as a <numeric_value> element.

The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.

MAXimum allows to set the instrument to the greatest supported value.

MINimum allows to set the instrument to the smallest supported value.

Sets the label.

Choices are 0 through 1048575.

Example(s)

* SOUR:DATA:TEL:ETH:STR:MPLS:STAC 1,1,1

* SOUR:DATA:TEL:ETH:STR:MPLS:LAB 1,1,1,16

* SOUR:DATA:TEL:ETH:STR:MPLS:LAB? 1,1,1, Returns 16

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:LABel?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:LABel?

Description

This query returns the Multi Protocol Label Switching (MPLS) label type.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:LABel?<wsp><Port>,<Tgen>,<Stacked>[,MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:LABel?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Stacked:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the Stacked Headers.

Selects the Stacked range from 1 to 3.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:LABel?

The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum is used to retrieve the instrument's greatest supported value.

MINimum is used to retrieve the instrument's smallest supported value.

This parameter is optional. If no token is specified, the current label number will be returned.

Response Syntax <Label>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:LABel?

Response(s)

Label:

The response data syntax for <Label> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the label number.

Example(s)

* SOUR:DATA:TEL:ETH:STR:MPLS:STAC 1,1,1

* SOUR:DATA:TEL:ETH:STR:MPLS:LAB 1,1,1,16

* SOUR:DATA:TEL:ETH:STR:MPLS:LAB? 1,1,1, Returns 16

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:LABel

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:COSexp

Description

This command selects the Class Of Service (COS/EXP) value.

At *RST, this value is set to #B000.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:COSexp<wsp><Port>,<Tgen>,<Stacked>,<Cosexp>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:COSexp

Stacked:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the Stacked Headers.

Selects the Stacked range from 1 to 3.

Cosexp:

The program data syntax for the fourth parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.

Selects the COS/EXP value.

Example(s)

* SOUR:DATA:TEL:ETH:STR:MPLS:STAC 1,1,1

* SOUR:DATA:TEL:ETH:STR:MPLS:COS 1,1,1,#B001

* SOUR:DATA:TEL:ETH:STR:MPLS:COS? 1,1,1
Returns #B001

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:COSexp?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:COSexp?

Description

This query returns the Class of Service (COS/EXP) value.

At *RST, this value is set to #B000.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:COSexp?<wsp><Port>,<Tgen>,<Stacked>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:COSexp?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Stacked:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the Stacked Headers.

Selects the Stacked range from 1 to 3.

Response Syntax

<Cosexp>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:COSexp?

Response(s)

Cosexp:

The response data syntax for <Cosexp> is defined as a <BINARY RESPONSE DATA> element.

Returns the COS/EXP value.

Example(s)

* SOUR:DATA:TEL:ETH:STR:MPLS:STAC 1,1,1

* SOUR:DATA:TEL:ETH:STR:MPLS:COS 1,1,1,#B001

* SOUR:DATA:TEL:ETH:STR:MPLS:COS? 1,1,1
Returns #B001

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:COSexp

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:TTL

Description

This command sets the Time to Live (TTL) value of Multi Protocol Label Switching (MPLS).

At *RST, this value is set to 128.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:TTL<wsp><Port>,<Tgen>,<Stacked>,<Ttl>|MAXimum|MINimum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:TTL

Stacked:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Sets the Stacked Headers.

Selects the Stacked range from 1 to 3.

Ttl:

The program data syntax for the fourth parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.Sets the TTL value.

Sets the Time to Live (TTL) value.

Choices are 0 through 255.

Example(s)

* SOUR:DATA:TEL:ETH:STR:MPLS:STAC 1,1,1

* SOUR:DATA:TEL:ETH:STR:MPLS:TTL 1,1,1,200

* SOUR:DATA:TEL:ETH:STR:MPLS:TTL? 1,1,1
Returns 200

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:TTL?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:TTL?

Description

This query returns the Time to Live (TTL) value of Multi Protocol Label Switching (MPLS).

At *RST, this value is set to 128.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:TTL?<wsp><Port>,<Tgen>,<Stacked>[,MAXimum|MINimum]

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:TTL?

Stacked:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Sets the Stacked Headers.

Selects the Stacked range from 1 to 3.

The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element.
The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.
MAXimum is used to retrieve the instrument's greatest supported value.
MINimum is used to retrieve the instrument's smallest supported value.
This parameter is optional. If no token is specified, the current TTL value will be returned.

Response Syntax <Ttl>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:TTL?

Response(s)

Ttl:

The response data syntax for <Ttl> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the Time to Live (TTL) value.

Example(s)

* SOUR:DATA:TEL:ETH:STR:MPLS:STAC 1,1,1

* SOUR:DATA:TEL:ETH:STR:MPLS:TTL 1,1,1,200

* SOUR:DATA:TEL:ETH:STR:MPLS:TTL? 1,1,1
Returns 200

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:MPLS:TTL

:SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:MPLS:BANDwidth?

Description

This query returns the Multi Protocol Label Switching (MPLS) frame bandwidth in megabits per second.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:FRAMe:MPLS:BANDwidth?<wsp><Port>

Parameter(s)

Port:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.

:SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:MPLS:BANDwidth?

Response Syntax <Bandwidth>

Response(s) Bandwidth:

The response data syntax for <Bandwidth> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the frame bandwidth.

Example(s) * SOUR:DATA:TEL:ETH:FRAM:MPLS:BAND? 1
Returns the bandwidth.

:SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:MPLS:RATE?

Description

This query returns the Multi Protocol Label Switching (MPLS) frame rate in frames per second.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:FRAMe:MPLS:RATE?<wsp><Port>

Parameter(s)

Port:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.

:SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:MPLS:RATE?

Response Syntax <Rate>

Response(s) Rate:

The response data syntax for <Rate> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the frame rate.

Example(s) * SENS:DATA:TEL:ETH:FRAM:MPLS:RATE? 1
Returns the received number of frames.

:SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:MPLS:UTILization?

Description

This query returns the Multi Protocol Label Switching (MPLS) frame utilization in percentage.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:FRAMe:MPLS:UTILization?<wsp><Port>

Parameter(s)

Port:
The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.

:SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:MPLS:UTILization?

Response Syntax <Utilization>

Response(s) Utilization:

The response data syntax for <Utilization> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the frame rate.

Example(s) * SENS:DATA:TEL:ETH:FRAM:MPLS:UTIL? 1

Returns the percentage of utilization.

:SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:MPLS:COUNt?

Description

This query returns the count of each Provider Backbone Bridges with Traffic Engineering (PBB-TE) frame size received.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:FRAMe:MPLS:COUNt?<wsp><Port>,<Type>

Parameter(s)

Port:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.

Type:
The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: TX|RX.
Selects the frame count type.
TX, sets the frame count type for the transmitter.
RX, sets the frame count type for the receiver.

:SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:MPLS:COUNt?

Response Syntax <Count>

Response(s) Count:

The response data syntax for <Count> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the count of each frame size recived.

Example(s) * SENS:DATA:TEL:ETH:FRAM:MPLS:COUN? 1,TX

Returns the all received valid and invalid frames.

:SOURce[1..n]:DATA:TELecom:ETHernet:FRAMe:PBBTe:COUNt:TX?

Description

This query returns the count of each Provider Backbone Bridges with Traffic Engineering (PBB-TE) frame size transmitted.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:FRAMe:PBBTe:COUNt:TX?<wsp><Port>,UNICast|NUNicast|FSTotal

:SOURce[1..n]:DATA:TELecom:ETHernet:FRAMe:PBBTe:COUNt:TX?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Ftype:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

UNICast| NUNicast|FSTotal.

Selects the frame type.

UNICast, selects Unicast as frame type.

NUNicast, selects Non Unicast as frame type.

FSTotal, selects as Total as frame type.

:SOURce[1..n]:DATA:TELecom:ETHernet:FRAMe:PBBTe:COUNt:TX?

Response Syntax <Count>

Response(s) Count:

The response data syntax for <Count> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the count of frames transmitted.

Example(s) * SOUR:DATA:TEL:ETH:FRAM:PBBT:COUN:TX? 1,UNI

Returns the count of frames transmitted.

:SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:PBBTe:COUNt:RX?

Description

This query returns the count of each Provider Backbone Bridges with Traffic Engineering (PBB-TE) frame size received.

At *RST, this value is device dependent.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:PBBTe:COUNt:RX?<wsp><Port>,UNICast|NUNicast|FSTotal.

:SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:PBBTe:COUNt:RX?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Ftype:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

UNICast| NUNicast|FSTotal.

Selects the frame type.

UNICast, selects Unicast as frame type.

NUNicast, selects Non Unicast as frame type.

FSTotal., selects Total as frame type.

:SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:PBBTe:COUNt:RX?

Response Syntax <Count>

Response(s) Count:

The response data syntax for <Count> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the count of frames received.

Example(s) * SENS:DATA:TEL:ETH:FRAM:PBBT:COUN:RX? 1,UNI

Returns the count of frames received.

:SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:PBBTe:BANDwidth?

Description

This query returns the frame bandwidth of Provider Bridge Backbone with Traffic Engineering (PBB-TE) in megabits per second.

At *RST, this value is device dependent.

Syntax

:SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:PBBTe:BANDwidth?<wsp><Port>

Parameter(s)

Port:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.

:SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:PBBTe:BANDwidth?

Response Syntax <Bandwidth>

Response(s) Bandwidth:

The response data syntax for <Bandwidth> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the frame bandwidth.

Example(s) * SENS:DATA:TEL:ETH:FRAM:PBBT:BAND? 1
Returns the frame bandwidth.

:SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:PBBTe:RATE?

Description

This query returns the Provider Bridge Backbone with Traffic Engineering (PBB-TE) frame rate in frame per second.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:FRAMe:PBBTe:RATE?<wsp><Port>

Parameter(s)

Port:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.

:SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:PBBTe:RATE?

Response Syntax <Rate>

Response(s) Rate:

The response data syntax for <Rate> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the frame rate.

Example(s) * SENS:DATA:TEL:ETH:FRAM:PBBT:RATE? 1
Returns the frame rate.

:SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:PBBTe:UTILization?

Description

This query returns the Provider Bridge Backbone with Traffic Engineering (PBB-TE) frame utilization in percentage.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:FRAMe:PBBTe:UTILization?<wsp><Port>

Parameter(s)

Port:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.

:SENSe[1..n]:DATA:TELecom:ETHernet:FRAMe:PBBTe:UTILization?

Response Syntax <Utilization>

Response(s) Utilization:

The response data syntax for <Utilization> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the frame utilization.

Example(s) * SENS:DATA:TEL:ETH:FRAM:PBBT:UTIL? 1
Returns the percentage of line rate utilization.

:SENSe[1..n]:DATA:TELecom:ETHernet:FSIZe:PBBTe:COUNt?

Description

This query returns the count of each Provider Bridge Backbone with Traffic Engineering (PBB-TE) frame size (valid and invalid) received.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:FSIZe:PBBTe:COUNt?<wsp><Port>,FLESS82|F82TO255|F256TO511|F512TO1023|F1024TO1536|FMORE1536|FTOTal

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Ftype:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: FLESS82|F82TO255|F256TO511|F512TO1023|F1024TO1536|FMORE1536|FTOTal.

:SENSe[1..n]:DATA:TELecom:ETHernet:FSIZe:PBBTe:COUNt?

Selects the frame size.
FLESS82, selects frame size less than 82.
F82TO255, selects frame size between 82 to 255.
F256TO511, selects frame size between 256 to 511.
F512TO1023, selects frame size between 512 to 1023.
F1024TO1536, selects frame size between 1024 to 1536.
FMORE1536, selects frame size more than 1536.
FTOTal, selects the percentage ratio of each received frame size based on the total count of frames.

Response Syntax <Count>

Response(s) Count:

The response data syntax for <Count> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the all valid and invalid frames received.

Example(s) * SENS:DATA:TEL:ETH:FSIZe:PBBT:COUNt? 1,F64

Returns the all valid and invalid frames received.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan

Description

This command enables or disables the Backbone Virtual Local Area Network (B-VLAN) Identifier.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan<wsp><Port>,<Tgen>,<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the B-VLAN Identifier.

Example(s)

* SOUR:DATA:TEL:ETH:STR:PBBT:BVL 1,2,ON

* SOUR:DATA:TEL:ETH:STR:PBBT:BVL? 1,2

Returns 1

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan?
* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:ID
* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:PRIority

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan?

Description

This query returns the status of Backbone Virtual Local Area Network (B-VLAN) Identifier.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of B-VLAN Identifier.

Example(s)

* SOUR:DATA:TEL:ETH:STR:PBBT:BVL 1,2,ON

* SOUR:DATA:TEL:ETH:STR:PBBT:BVL? 1,2

Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:ID

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:PRIority

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:ID

Description

This command selects the Backbone Virtual Local Area Network (B-VLAN) identifier.

At *RST, this value is set to 2.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:ID<wsp><Port>,<Tgen>,<Id>|MAXimum|MINimum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:ID

Id:

The program data syntax for the third parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.

Sets the B-VLAN identifier.

Choices are 0 through 4095.

Example(s)

* SOUR:DATA:TEL:ETH:STR:PBBT:BVL 1,2,ON

* SOUR:DATA:TEL:ETH:STR:PBBT:BVL:ID 1,2,50

* SOUR:DATA:TEL:ETH:STR:PBBT:BVL:ID? 1,2
Returns 50

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:ID?

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:PRIority

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:ID?

Description

This query returns the Backbone Virtual Local Area Network (B-VLAN) identifier.

At *RST, this value is set to 2.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:ID?<wsp><Port>,<Tgen>[,MAXimum|MINimum]

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:ID?

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum is used to retrieve the instrument's greatest supported value.

MINimum is used to retrieve the instrument's smallest supported value.

This parameter is optional. If no token is specified, the current VLAN identifier will be returned.

Response Syntax <Id>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:ID?

Response(s)

Id:

The response data syntax for <Id> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the VLAN identifier.

Example(s)

* SOUR:DATA:TEL:ETH:STR:PBBT:BVL:ID 1,2,50

* SOUR:DATA:TEL:ETH:STR:PBBT:BVL:ID? 1,2
Returns 50

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:ID

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:PRIority

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:PRIority

Description

This command selects the Backbone Virtual Local Area Network (B-VLAN) user Priority Code Point (PCP).

At *RST, this value is set to 0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:PRIority<wsp><Port>,<Tgen>,<Priority>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:PRIority

Priority:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Sets the priority of the B-VLAN.

Example(s)

* SOUR:DATA:TEL:ETH:STR:PBBT:BVL 1,2,ON
* SOUR:DATA:TEL:ETH:STR:PBBT:BVL:PRI 1,2,5
* SOUR:DATA:TEL:ETH:STR:PBBT:BVL:PRI? 1,2
Returns 5

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan
* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:ID
* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:PRIority?
* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:ELIGiblebit

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:PRIority?

Description

This query returns the Backbone Virtual Local Area Network (B-VLAN) user Priority Code Point (PCP).

At *RST, this value is set to 0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLAn:PRIority?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Priority>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:PRIority?

Response(s)

Priority:

The response data syntax for <Priority> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the priority of the B-VLAN.

Example(s)

* SOUR:DATA:TEL:ETH:STR:PBBT:BVL 1,2,ON

* SOUR:DATA:TEL:ETH:STR:PBBT:BVL:PRI 1,2,5

* SOUR:DATA:TEL:ETH:STR:PBBT:BVL:PRI? 1,2
Returns 5

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:ID

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:PRIority

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:ELIGiblebit

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:ID:ELIGiblebit

Description

This command enables or disables the eligible bit of Backbone Virtual Local Area Network (B-VLAN).

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:ID:ELIGiblebit<wsp><Port>,<Tgen>,<Set>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:ID:ELIGiblebit

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the eligible bit of B-VLAN.

Example(s)

* SOUR:DATA:TEL:ETH:STR:PBBT:BVL 1,2,ON
* SOUR:DATA:TEL:ETH:STR:PBBT:BVL:ID:ELIG 1,2,ON
* SOUR:DATA:TEL:ETH:STR:PBBT:BVL:ID:ELIG? 1,2 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan
* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:ID
* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:PRIority
* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:ELIGiblebit?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:ID:ELIGiblebit?

Description

This query returns the status of the eligible bit of Backbone Virtual Local Area Network (B-VLAN).

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:ID:ELIGiblebit?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:ID:ELIGiblebit?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the status of eligible bit of B-VLAN.

Example(s)

* SOUR:DATA:TEL:ETH:STR:PBBT:BVL 1,2,ON

* SOUR:DATA:TEL:ETH:STR:PBBT:BVL:ID:ELIG 1,2,ON

* SOUR:DATA:TEL:ETH:STR:PBBT:BVL:ID:ELIG? 1,2 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:ID

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:PRIority

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:BVLan:ELIGiblebit

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ITAG:SID

Description

This command sets the Service Instance Identifier (SID), which identifies the backbone service instance of the selected stream.

At *RST, this value is set to 256.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ITAG:SID<wsp><Port>,<Tgen>,<Id>|MAXimum|MINimum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ITAG:SID

Id:
The program data syntax for the third parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.

Sets the Service Instance Identifier (SID).

Choices are 0 through 16777215.

Example(s)

* SOUR:DATA:TEL:ETH:STR:PBBT:ITAG:SID 1,2,50

* SOUR:DATA:TEL:ETH:STR:PBBT:ITAG:SID? 1,2
Returns 50

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ITAG:SID?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ITAG:SID?

Description

This query returns the Service Instance Identifier (SID), which identifies the backbone service instance of the selected stream.

At *RST, this value is set to 256.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ITAG:SID?<wsp><Port>,<Tgen>[,MAXimum|MINimum]

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ITAG:SID?

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum is used to retrieve the instrument's greatest supported value.

MINimum is used to retrieve the instrument's smallest supported value.

This parameter is optional. If no token is specified, the current VLAN identifier will be returned.

Response Syntax <Id>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ITAG:SID?

Response(s)

Id:

The response data syntax for <Priority> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the value of Service Instance Identifier (SID).

Example(s)

* SOUR:DATA:TEL:ETH:STR:PBBT:ITAG:SID 1,2,50

* SOUR:DATA:TEL:ETH:STR:PBBT:ITAG:SID? 1,2
Returns 50

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ITAG:SID

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ITAG:PRIority

Description

This command selects the Backbone Service Instance Tag (I-TAG) user Priority Code Point (PCP).

At *RST, this value is set to 0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ITAG:PRIority<wsp><Port>, <Tgen>, <Priority>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ITAG:PRIority

Priority:
The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Sets the priority of I-TAG.

Example(s)

* SOUR:DATA:TEL:ETH:STR:PBBT:ITAG:PRI 1,2,5

* SOUR:DATA:TEL:ETH:STR:PBBT:ITAG:PRI? 1,2
Returns 5

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ITAG:PRIority?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ITAG:PRIority?

Description

This query returns the Backbone Service Instance Tag (I-TAG) user Priority Code Point (PCP).

At *RST, this value is set to 0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ITAG:PRIority?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Priority>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ITAG:PRIority?

Response(s)

Priority:

The response data syntax for <Priority> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the priority of I-TAG.

Example(s)

* SOUR:DATA:TEL:ETH:STR:PBBT:ITAG:PRI 1,2,5

* SOUR:DATA:TEL:ETH:STR:PBBT:ITAG:PRI? 1,2
Returns 5

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ITAG:PRIority

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ITAG:SID:ELIGiblebit

Description

This command enables or disables the eligible bit of Backbone Service Instance Tag (I-TAG).

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ITAG:SID:ELIGiblebit<wsp><Port>, <Tgen>, <Set>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ITAG:SID:ELIGiblebit

Set:
The program data syntax for <Set> is defined as a <Boolean Program Data> element.
The <Set> special forms ON and OFF are accepted on input for increased readability.
ON corresponds to 1 and OFF corresponds to 0.
Enables or disables the eligible bit of I-TAG.

Example(s)

* SOUR:DATA:TEL:ETH:STR:PBBT:ITAG:SID:ELIG 1,2,ON
* SOUR:DATA:TEL:ETH:STR:PBBT:ITAG:SID:ELIG? 1,2 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ITAG:SID:ELIGiblebit?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ITAG:SID:ELIGiblebit?

Description

This query returns the status of eligible bit of Backbone Service Instance Tag (I-TAG).

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ITAG:SID:ELIGiblebit?<wsp><Port>, <Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ITAG:SID:ELIGiblebit?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the status of eligible bit of I-TAG.

Example(s)

* SOUR:DATA:TEL:ETH:STR:PBBT:ITAG:SID:ELIG 1,2,ON

* SOUR:DATA:TEL:ETH:STR:PBBT:ITAG:SID:ELIG? 1,2 Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ITAG:SID:ELIGiblebit

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ADDRess:SOURce

Description	This command sets the Backbone Media Access Control (B-MAC) source address for the selected stream. At *RST, this value is set to "00:00:00:00:00:00".
Syntax	:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ADDRess:SOURce<wsp><Port>, <Tgen>, <Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ADDRess:SOURce

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Address:

The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element.

Sets the B-MAC Source address.

Example(s)

* SOUR:DATA:TEL:ETH:STR:PBBT:ADDR:SOUR 1,2,"FF:FF:FF:FF:00:00 "

* SOUR:DATA:TEL:ETH:STR:PBBT:ADDR:SOUR? 1,2 Returns "FF:FF:FF:FF:00:00 "

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ADDRess:SOURce?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ADDRess:SOURce?

Description

This query returns the Backbone Media Access Control (B-MAC) source address for the selected stream.

At *RST, this value is set to "00:00:00:00:00:00".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ADDRess:SOURce?<wsp><Port>, <Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ADDRess:SOURce?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the B-MAC address in the form of string.

Example(s)

* SOUR:DATA:TEL:ETH:STR:PBBT:ADDR:SOUR 1,2,"FF:FF:FF:FF:00:00 "

* SOUR:DATA:TEL:ETH:STR:PBBT:ADDR:SOUR? 1,2 Returns "FF:FF:FF:FF:00:00 "

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ADDRess:SOURce

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ADDRess:DESTination

Description

This command sets the Backbone Media Access Control (B-MAC) destination address for the selected stream.

At *RST, this value is set to "00:00:00:00:00:00".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ADDRess:DESTination<wsp><Port>,<Tgen>,<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ADDRess:DESTination

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Address:

The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element.

Sets the MAC Destination address.

Example(s)

* SOUR:DATA:TEL:ETH:STR:PBBT:ADDR:DEST 1,2,"FE:FE:FE:FE:FE:FE"

* SOUR:DATA:TEL:ETH:STR:PBBT:ADDR:DEST? 1,2 Returns "FE:FE:FE:FE:FE:FE"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ADDRess:DESTination?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ADDRess:DESTination?

Description

This query returns the Backbone Media Access Control (B-MAC) destination address for the selected stream.

At *RST, this value is set to "00:00:00:00:00:00".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ADDRess:DESTination?<wsp><Port>, <Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ADDRess:DESTination?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the B-MAC Destination address in the form of string.

Example(s)

* SOUR:DATA:TEL:ETH:STR:PBBT:ADDR:DEST 1,2,"FE:FE:FE:FE:FE:FE"

* SOUR:DATA:TEL:ETH:STR:PBBT:ADDR:DEST? 1,2 Returns "FE:FE:FE:FE:FE:FE"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PBBTe:ADDRess:DESTination

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IPV

Description

This command sets the destination IPv6 address for the selected traffic stream.

At *RST, this value is set to "2001:0000:0000:0000:0000:0000:0000:0000".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IPV<wsp><Port>, <Tgen>, <Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IPV

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Address:

The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element.

Sets the destination IPv6 address for the selected traffic stream.

Example(s)

* SOUR:DATA:TEL:ETH:STR:ADDR:DEST:IPV 1,1,"2222.2222.2222.2222.2222.2222.2222"

* SOUR:DATA:TEL:ETH:STR:ADDR:DEST:IPV? 1,1
Returns "2222.2222.2222.2222.2222.2222.2222"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IPV?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IPV?

Description

This query returns the destination IPv6 address for the selected traffic stream.

At *RST, this value is set to "2001:0000:0000:0000:0000:0000:0000:0000".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IPV?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the stream from 1 to 10.

Response Syntax

<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IPV?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the destination IPv6 address for the selected traffic stream.

Example(s)

* SOUR:DATA:TEL:ETH:STR:ADDR:DEST:IPV 1,1,"2222.2222.2222.2222.2222.2222.2222"

* SOUR:DATA:TEL:ETH:STR:ADDR:DEST:IPV? 1,1
Returns "2222.2222.2222.2222.2222.2222.2222"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IPV

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:TTL

Description

This command selects the Time to Live (TTL) value of IPv6.

At *RST, this value is set to 128.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:TTL<wsp><Port>, <Tgen>, <Ttl>, MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:TTL

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Ttl:

The program data syntax for the third parameter is defined as a <numeric_value> element.

The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.

MAXimum allows to set the instrument to the greatest supported value.

MINimum allows to set the instrument to the smallest supported value.

Selects the Time to Live (TTL) value.

Choices are 0 through 255.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DEST:IPV:TTL 1,1,28

* SOUR:DATA:TEL:ETH:STR:DEST:IPV:TTL? 1,1

Returns 28

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:TTL

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:TTL?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:TTL?

Description

This query returns the Time to Live (TTL) value of IPv6.

At *RST, this value is set to 128.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:TTL?<wsp><Port>,<Tgen>[,MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:TTL?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

The program data syntax for <Ttl> is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the TTL value will be returned.

Response Syntax

<Ttl>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:TTL?

Response(s)	Ttl: The response data syntax for <Ttl> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Time to Live (TTL) value.
Example(s)	* SOUR:DATA:TEL:ETH:STR:DEST:IPV:TTL 1,1,28 * SOUR:DATA:TEL:ETH:STR:DEST:IPV:TTL? 1,1 Returns 28
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:TTL

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:TCLass

Description

This command sets the Traffic Class (TOS/DS) value of IPv6.

At *RST, this value is set to #H00.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:TCLass<wsp><Port>,<Tgen>,<Tclass>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:TCLass

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Tclass:

The program data syntax for the third parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.

Sets the Traffic Class (TOS/DS) value.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DEST:IPV:TCL 1,1,#H5F

* SOUR:DATA:TEL:ETH:STR:DEST:IPV:TCL? 1,1

Returns #H5F

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:TCLass?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:TCLass?

Description

This query returns the Traffic Class (TOS/DS) value of IPv6.

At *RST, this value is set to #H00.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:TCLass?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Tclass>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:TCLass?

Response(s)

Tclass:

The response data syntax for <Tclass> is defined as a <HEXADECIMAL RESPONSE DATA> element.

Returns the Traffic Class (TOS/DS) value.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DEST:IPV:TCL 1,1,#H5F

* SOUR:DATA:TEL:ETH:STR:DEST:IPV:TCL? 1,1

Returns #H5F

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:TCLass

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:FLABel

Description

This command selects the Flow Label of IPv6.

At *RST, this value is set to 0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:FLABel<wsp><Port>,<Tgen>,<Flabel>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:FLABel

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Flabel:

The program data syntax for the third parameter is defined as a <numeric_value> element.

The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.

MAXimum allows to set the instrument to the greatest supported value.

MINimum allows to set the instrument to the smallest supported value.

Selects the Flow Label.

Choices are 0 through 1048575.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DEST:IPV:FLAB 1,1,589

* SOUR:DATA:TEL:ETH:STR:DEST:IPV:FLAB? 1,1

Returns 589

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:FLABel

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:FLABel?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:FLABel?

Description

This query returns the Flow Label of IPv6.

At *RST, this value is set to 0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:FLABel?<wsp><Port>,<Tgen>[,MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:FLABel?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the stream from 1 to 10.

The program data syntax for <Ttl> is defined as a <CHARACTER PROGRAM DATA> element.
The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:
MAXimum|MINimum.
MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current flow label will be returned.

Response Syntax

<Flabel>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:FLABel?

Response(s)

Flabel:

The response data syntax for <Flabel> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the Flow Label.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DEST:IPV:FLAB 1,1,589

* SOUR:DATA:TEL:ETH:STR:DEST:IPV:FLAB? 1,1

Returns 589

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:IPV:FLABel

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:LOCal:IPV:ADDRess

Description

This command sets the Link-Local IPv6 Address for the selected traffic stream.

At *RST, this value is set to "FE80:0000:0000:0000:0000:0000:0000:0000".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:LOCal:IPV:ADDRess<wsp><Port>,<Tgen>,<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:LOCal:IPV:ADDRess

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the stream from 1 to 10.

Address:

The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element.
Sets the Link-Local IPv6 Address.

Example(s)

* SOUR:DATA:TEL:ETH:STR:LOC:IPV:ADDR 1,1,"FE80:0000:0000:0000:0000:0000:0000:FFFF"

* SOUR:DATA:TEL:ETH:STR:LOC:IPV:ADDR? 1,1

Returns

"FE80:0000:0000:0000:0000:0000:0000:FFFF"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:LOCal:IPV:ADDRess?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:LOCal:IPV:ADDRess?

Description

This query returns the Link-Local IPv6 Address for the selected traffic stream.

At *RST, this value is set to "FE80:0000:0000:0000:0000:0000:0000:0000".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:LOCal:IPV:ADDRess?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:LOCal:IPV:ADDRess?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the Link-Local IPv6 Address.

Example(s)

* SOUR:DATA:TEL:ETH:STR:LOC:IPV:ADDR 1,1,"FE80:0000:0000:0000:0000:0000:0000:FFFF"

* SOUR:DATA:TEL:ETH:STR:LOC:IPV:ADDR? 1,1

Returns "FE80:0000:0000:0000:0000:0000:0000:FFFF"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:LOCal:IPV:ADDRess

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:LOCal:IPV:MODE

Description

This command selects the Link-Local IPv6 Mode for the selected traffic stream.

At *RST, this value is set to SAUTo.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:LOCal:IPV:MODE<wsp><Port>,<Tgen>,<Mode>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:LOCal:IPV:MODE

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the stream from 1 to 10.

Mode:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: STATic|SAUTo.

Selects the Link-Local IPv6 mode.

STATic, selects Static as Link-Local IPv6 mode.

SAUTo, selects Stateless Auto. (SAUTo) as Link-Local IPv6 mode.

Example(s)

* SOUR:DATA:TEL:ETH:STR:LOC:IPV:MODE 1,1,STAT

* SOUR:DATA:TEL:ETH:STR:LOC:IPV:MODE? 1,1

Returns STATIC

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:LOCal:IPV:MODE

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:LOCal:IPV:MODE?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:LOCal:IPV:MODE?

Description

This query returns the Link-Local IPv6 Mode for the selected traffic stream.

At *RST, this value is set to SAUTo.

Syntax

: SOURce[1..n]:DATA:TELecom:ETHernet:STReam:LOCal:IPV:MODE?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Mode>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:LOCal:IPV:MODE?

Response(s)

Mode:

The response data syntax for <Mode> 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:STR:LOC:IPV:MODE 1,1,STAT

* SOUR:DATA:TEL:ETH:STR:LOC:IPV:MODE? 1,1

Returns STATIC

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:LOCal:IPV:MODE

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:LOCal:IPV:STATus?

Description

This query returns the Link-Local IPv6 Status for the selected traffic stream.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:LOCal:IPV:STATus?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:LOCal:IPV:STATus?

Response Syntax <Status>

Response(s)

Status:

The response data syntax for <Status> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the Link-Local IPv6 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:STAT? 1,1

Returns the Link-Local IPv6 status.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:ADDRess

Description

This command sets the Global IPv6 Address for the selected traffic stream.

At *RST, this value is set to "2001:0000:0000:0000".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:ADDRess<wsp><Port>,<Tgen>,<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:ADDRess

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the stream from 1 to 10.

Address:

The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element.
Sets the Global IPv6 Address.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:ADDRess

Example(s)

* SOUR:DATA:TEL:ETH:STR:GLOB:IPV:IIC 1,1,OFF

* SOUR:DATA:TEL:ETH:STR:GLOB:IPV:ADDR 1,1,"2001:0000:0000:0000:0000:0000:0000:0000"

* SOUR:DATA:TEL:ETH:STR:GLOB:IPV:ADDR? 1,1 Returns "2001:0000:0000:0000:0000:0000:0000:0000"

Note

When Interface ID Coupled is enabled, Global IPV6 Address will configure up to 64 MSB and when it is disabled, it will configure up to 128 bits.

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:ADDRess?

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:IICoupled

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:ADDRess?

Description

This query returns the Global IPv6 Address for the selected traffic stream.

At *RST, this value is set to "2001:0000:0000:0000".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:ADDRess?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:ADDRess?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.
Returns the Global IPv6 Address.

Example(s)

* SOUR:DATA:TEL:ETH:STR:GLOB:IPV:IIC 1,1,OFF
* SOUR:DATA:TEL:ETH:STR:GLOB:IPV:ADDR 1,1,"2001:0000:0000:0000:0000:0000:0000:0000"
* SOUR:DATA:TEL:ETH:STR:GLOB:IPV:ADDR? 1,1 Returns "2001:0000:0000:0000:0000:0000:0000:0000"

Note

When Interface ID Coupled is enabled, Global IPV6 Address will configure up to 64 MSB and when it is disabled, it will configure up to 128 bits.

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:ADDRess
* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:IICoupled

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:MODE

Description

This command selects the Global IPv6 Mode for the selected traffic stream.

At *RST, this value is set to NONE.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:MODE<wsp><Port>,<Tgen>,<Mode>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:MODE

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the stream from 1 to 10.

Mode:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:
NONE|STATic|SAUTo.

Selects the Global IPv6 mode.

NONE, No Global IPv6 mode is selected.

STATic, selects Static as Global IPv6 mode.

SAUTo, selects Stateless Auto. (SAUTo) as Global IPv6 mode.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:MODE

Example(s)

* SOUR:DATA:TEL:ETH:STR:GLOB:IPV:MODE 1,1,STAT
* SOUR:DATA:TEL:ETH:STR:GLOB:IPV:MODE? 1,1 Returns STATIC

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:MODE?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:MODE?

Description

This query returns the Global IPv6 Mode for the selected traffic stream.

At *RST, this value is set to NONE.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:
STReam:GLOBal:IPV:MODE?<wsp><Port>,
<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Mode>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:MODE?

Response(s)

Mode:

The response data syntax for <Mode> 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:STR:GLOB:IPV:MODE 1,1,STAT

* SOUR:DATA:TEL:ETH:STR:GLOB:IPV:MODE?

1,1 Returns STATIC

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:MODE

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:STATus?

Description

This query returns the Global IPv6 Status for the selected traffic stream.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:STATus?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:STATus?

Response Syntax <Status>

Response(s) Status:

The response data syntax for <Status> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the Global IPv6 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:STAT? 1,1

Returns the Global IPv6 status.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:PMASk

Description

This command sets the Global IPv6 Address Prefix Mask for the selected traffic stream.

At *RST, this value is set to "FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:PMASk<wsp><Port>,<Tgen>,<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:PMASk

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the stream from 1 to 10.

Address:

The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element.
Sets the Global IPv6 Address Prefix Mask.

Example(s)

* SOUR:DATA:TEL:ETH:STR:GLOB:IPV:PMAS 1,1,"FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000"

* SOUR:DATA:TEL:ETH:STR:GLOB:IPV:PMAS? 1,1

Returns
"FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:PMASk?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:PMASk?

Description

This query returns the Global IPv6 Address Prefix Mask for the selected traffic stream.

At *RST, this value is set to "FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:PMASk?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:PMASk?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the Global IPv6 Address Prefix Mask.

Example(s)

* SOUR:DATA:TEL:ETH:STR:GLOB:IPV:PMAS 1,1,"FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000"

* SOUR:DATA:TEL:ETH:STR:GLOB:IPV:PMAS? 1,1

Returns

"FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:PMASk

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:IICoupled

Description

This command enables or disables the Interface ID of the Global IPv6 address.

At *RST, this value is set to ON.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:IICoupled<wsp><Port>,<Tgen>,<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:IICoupled

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the stream from 1 to 10.

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are

accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the Interface ID of the Global IPv6 address.

Example(s)

* SOUR:DATA:TEL:ETH:STR:GLOB:IPV:IIC 1,1,OFF

* SOUR:DATA:TEL:ETH:STR:GLOB:IPV:IIC? 1,1

Returns 0

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:IICoupled

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:IICoupled?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:IICoupled?

Description

This query returns the status of Interface ID of the Global IPv6 address.

At *RST, this value is set to ON.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:IICoupled?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:IICoupled?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of Interface ID of the Global IPv6 address.

Example(s)

* SOUR:DATA:TEL:ETH:STR:GLOB:IPV:IIC 1,1,OFF

* SOUR:DATA:TEL:ETH:STR:GLOB:IPV:IIC? 1,1

Returns 0

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:GLOBal:IPV:IICoupled

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DGATeway:IPV:ADDRess

Description

This command sets the Default Gateway IPv6 Address for the selected traffic stream.

At *RST, this value is set to "FE80:0000:0000:0000:0000:0000:0000:0000".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DGATeway:IPV:ADDRess<wsp><Port>,<Tgen>,<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DGATeway:IPV:ADDRess

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the stream from 1 to 10.

Address:

The program data syntax for the third parameter is defined as a <STRING PROGRAM DATA> element.

Sets the Default Gateway IPv6 Address.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DGAT:IPV:ADDR 1,1,"FE80:0000:0000:0000:0000:0000:0000:0000"

* SOUR:DATA:TEL:ETH:STR:DGAT:IPV:ADDR? 1,1

Returns

"FE80:0000:0000:0000:0000:0000:0000:0000"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DGATeway:IPV:ADDRess?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DGATeway:IPV:ADDRess?

Description

This query returns the Default Gateway IPv6 Address for the selected traffic stream.

At *RST, this value is set to "FE80:0000:0000:0000:0000:0000:0000:0000".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DGATeway:IPV:ADDRess?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DGATeway:IPV:ADDRess?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the Default Gateway IPv6 Address.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DGAT:IPV:ADDR 1,1,"FE80:0000:0000:0000:0000:0000:0000:0000"

* SOUR:DATA:TEL:ETH:STR:DGAT:IPV:ADDR? 1,1

Returns

"FE80:0000:0000:0000:0000:0000:0000:0000"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DGATeway:IPV:ADDRess

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DGATeway:IPV:MODE

Description

This command selects the Default Gateway IPv6 Address Mode for the selected traffic stream.

At *RST, this value is set to AUTomatic.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DGATeway:IPV:MODE<wsp><Port>,<Tgen>,<Mode>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DGATeway:IPV:MODE

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the stream from 1 to 10.

Mode:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: AUTomatic|MANual.

Selects the Default Gateway IPv6 Address mode. AUTomatic, selects Automatic as default gateway address mode.

MANual, selects Manual as default gateway address mode.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DGATeway:IPV:MODE

Example(s)

* SOUR:DATA:TEL:ETH:STR:DGAT:IPV:MODE 1,1,AUT
* SOUR:DATA:TEL:ETH:STR:DGAT:IPV:MODE? 1,1 Returns AUTOMATIC

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DGATeway:IPV:MODE?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DGATeway:IPV:MODE?

Description

This query returns the Default Gateway IPv6 Address Mode for the selected traffic stream.

At *RST, this value is set to AUTomatic.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:

STReam:DGATeway:IPV:MODE?<wsp><Port>, <Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Response Syntax

<Mode>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DGATeway:IPV:MODE?

Response(s)

Mode:

The response data syntax for <Mode> 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:STR:DGAT:IPV:MODE 1,1,AUT

* SOUR:DATA:TEL:ETH:STR:DGAT:IPV:MODE?

1,1 Returns AUTOMATIC

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DGATeway:IPV:MODE

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:DGATeway:IPV:STATus?

Description

This query returns the Default Gateway IPv6 Address status for the selected traffic stream.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:
STReam:DGATeway:IPV:STATus?<wsp>
<Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:DGATeway:IPV:STATus?

Response Syntax <Status>

Response(s) Status:

The response data syntax for <Status> 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:STAT? 1,1

Returns the Default Gateway IPv6 Address status.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:CTSTream

Description	This command copies the configuration from Port tab to Stream tab. This command is an event and is not associated with *RST condition or query form.
Syntax	:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:CTSTream
Parameter(s)	None
Example(s)	* SOUR:DATA:TEL:ETH:STR:CTST

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:OVERview:NEW:STReam:ENABle

Description

This command Enables the configuration of Stream 11 and 12.

At *RST condition this value remains False.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:OVERview:NEW:STReam:ENABle <wsp>Port

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:OVERview:NEW:STReam:ENABle

Parameter(s)	Port: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the port number 1 or 2. Set: The program data syntax for the second parameter is defined as a <Boolean Program Data> element. Enables and disables the 11&12th Stream generation.
Example	SOURce:DATA:TELecom:ETHernet:STReam:OVERview:NEW:STReam:ENABle 1,1
See Also	SOURce:DATA:TELecom:ETHernet:STReam:OVERview:NEW:STReam:ENABle? 1

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:OVERview:NEW:STReam:ENABle?

Description

This query returns the Enable status of Stream 11 and 12 configuration.

At *RST condition this value remains False.

Syntax

SOURce[1..n]:DATA:TELecom:ETHernet:STReam:OVERview:NEW:STReam:ENABle?<wsp><Port>

Parameter(s)

Port:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:OVERview:NEW:STReam:ENABle?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the Enable status of 11&12th Stream generation.

Example(s)

SOURce:DATA:TELecom:ETHernet:STReam:OVERview:NEW:STReam:ENABle? 1

See Also

SOURce:DATA:TELecom:ETHernet:STReam:OVERview:NEW:STReam:ENABle 1,1

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:CODec:VOICe:CALLs

Description

This command allows the selection of equivalent number of calls that will be generated for the selected stream.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:CODec:VOICe:CALLs<wsp><Port><Tgen>,<Channels>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:CODec:VOICe:CALLs

Parameter(s)

Port:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.
Tgen:
The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the traffic stream from 1 to 10.
Channels:
The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the channels to be generated for the selected stream.

Example(s)

* SOUR:DATA:TEL:ETH:STR:JITT1,2,VG723
* SOUR:DATA:TEL:ETH:STR:COD:VOIC:CALL 1,2,20
* SOUR:DATA:TEL:ETH:STR:COD:VOIC:CALL? 1,2
Returns 20

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:
* STReam:CODec:VOICe:CHANnels?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:CODec:VOICe:CALLs?

Description

This query returns the equivalent number of calls generated for the selected stream.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:CODec:VOICe:CALLs?<wsp><Port><Tgen>

Parameter(s)

Port:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.
Tgen:
The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA>
element.
Selects the traffic stream from 1 to 10.

Response Syntax

<Channels>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:CODec:VOICe:CALLs?

Response(s)

Channels:
The response data syntax for <Channels> is defined as a <NR1 NUMERIC RESPONSE DATA> element.
Returns the equivalent number of calls generated for the selected stream.

Example(s)

* SOUR:DATA:TEL:ETH:STR:JITT1,2,VG723
* SOUR:DATA:TEL:ETH:STR:COD:VOIC:CALL 1,2,20
* SOUR:DATA:TEL:ETH:STR:COD:VOIC:CALL? 1,2
Returns 20

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:CODec:VOICe:CHANnels?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PROFile:TYPE

Description

This command sets the stream profile type.

At *RST, this value is set to Data.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PROFile:TYPE<wsp><Port>,<Tgen>,VOICe|VIDeo|DATA

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PROFile:TYPE

Parameter(s)

Port:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.
Tgen:
The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the traffic stream from 1 to 10.
Profile:
The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:
VOICe|VIDeo|DATA.
Sets the stream profile type.
VOICe, selects VOICe as stream profile type.
VIDeo, selects VIDeo as stream profile type.
DATA, selects DATA as stream profile type.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PROFile:TYPE

Example(s)

* SOUR[1..n]:DATA:TEL:ETH:STR:PROF:TYPE 1,2, VIDeo

* SOUR[1..n]:DATA:TEL:ETH:STR:PROF:TYPE? 1,2 Returns VIDEO

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PROFile:TYPE?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PROFile:TYPE?

Description

This query returns the stream profile type.

At *RST, this value is set to Data.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PROFile:TYPE?<wsp><Port>,<Tgen>

Parameter(s)

Port:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.
Tgen:
The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the traffic stream from 1 to 10.

Response Syntax

<Profile>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PROFile:TYPE?

Response(s)

Profile:

The response syntax for <Profile> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the stream profile type.

VOICE, VOICE is selected as stream profile type.

VIDEO, VIDEO is selected as stream profile type.

DATA, DATA is selected as stream profile type.

Example(s)

* SOUR[1..n]:DATA:TEL:ETH:STR:PROF:TYPE 1,2,VIDeo

* SOUR[1..n]:DATA:TEL:ETH:STR:PROF:TYPE? 1,2 Returns VIDEO

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:PROFile:TYPE

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:CODec:VIDeo

Description

This command sets the stream profile type.

At *RST, this value is set to SDTV (MPEG-2).

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:CODec:VIDeo<wsp><Port>,<Tgen>,SDTVMPEG2|HDTVMPEG2|HDTVMPEG4

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:CODec:VIDeo

Parameter(s)

Port:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.
Tgen
The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the stream from 1 to 10.
Profile:
The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.
The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:
SDTVMPEG2|HDTVMPEG2|HDTVMPEG4.
Sets the video codec.
SDTVMPEG2, selects SDTVMPEG2 as video codec.
HDTVMPEG2 selects HDTVMPEG2 as video codec.
HDTVMPEG4 selects HDTVMPEG4 as video codec.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:CODec:VIDeo

Example(s)	* SOUR:DATA:TEL:ETH:STR:PROF:TYPE 1,2,VIDeo * SOUR:DATA:TEL:ETH:STR:COD:VID 1,2,SDTVMPEG2 * SOUR:DATA:TEL:ETH:STR:COD:VID? 1,2,Returns SDTVMPEG2
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:CODec:VIDeo?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:CODec:VIDeo?

Description

This query returns all emulated video streams.

At *RST, this value is set to SDTV (MPEG-2).

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:CODec:VIDeo?<wsp><Port><Tgen>

Parameter(s)

Port:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.
Tgen:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the stream from 1 to 10.

Response Syntax

<Codec>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:CODec:VIDeo?

Response(s)

Codec:
The response syntax for <Codec> is defined as a <CHARACTER RESPONSE DATA> element.
Returns the video codec.
SDTVMPEG2, SDTVMPEG2 is selected as video codec.
HDTVMPEG2, HDTVMPEG2 is selected as video codec.
HDTVMPEG4, HDTVMPEG4 is selected as video codec.

Example(s)

* SOUR:DATA:TEL:ETH:STR:PROF:TYPE 1,2,VIDeo
* SOUR:DATA:TEL:ETH:STR:COD:VID 1,2,SDTVMPEG2
* SOUR:DATA:TEL:ETH:STR:COD:VID? 1,2,Returns SDTVMPEG2

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:CODec:VIDeo

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:CODec:VIDeo:CHANnels

Description

This command sets the stream profile type.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:CODec:VIDeo:CHANnels<wsp><Port>,<Tgen>,<Channels>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:CODec:VIDeo:CHANnels

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Channels:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the number of channels for the selected video stream.

Example(s)

* SOUR:DATA:TEL:ETH:STR:PROF:TYPE 1,2,VIDeo

* SOUR:DATA:TEL:ETH:STR:COD:VID 1,2,SDTVMPEG2

* SOUR:DATA:TEL:ETH:STR:COD:VID:CHAN 1,2,20

* SOUR:DATA:TEL:ETH:STR:COD:VID:CHAN 1,2 Returns 20

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:CODec:VIDeo:CHANnels

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:CODec:VIDeo:CHANnels?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:CODec:VIDeo:CHANnels?

Description

This query returns the number of channels for the selected video stream.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:CODec:VIDeo:CHANnels?<wsp><Port>,<Tgen>

Parameter(s)

Port:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.
Tgen:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the stream from 1 to 10.

Response Syntax

<Channels>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:CODec:VIDeo:CHANnels?

Response(s)

Channels:

The response syntax for <Channels> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of channels for the selected video stream.

Example(s)

* SOUR:DATA:TEL:ETH:STR:PROF:TYPE 1,2,VIDeo
* SOUR:DATA:TEL:ETH:STR:COD:VID 1,2,SDTVMPEG2
* SOUR:DATA:TEL:ETH:STR:COD:VID:CHAN 1,2,20
* SOUR:DATA:TEL:ETH:STR:COD:VID:CHAN 1,2
Returns 20

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:CODec:VIDeo:CHANnels

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:MINimum?

Description

This query returns the minimum measured delay variations of the jitter.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:MINimum?<wsp><Port><Tgen>

Parameter(s)

Port:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.
Tgen:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Select the stream from 1 to 10.

Response Syntax

<Minimum>

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:MINimum?

Response(s)

Minimum:

The response syntax for <Minimum> 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? 1,1 Returns the minimum measured delay variation of jitter.

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:JITTer

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:MAXimum?

Description

This query returns the maximum measured delay variations of the jitter.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:MAXimum?<wsp><Port><Tgen>

Parameter(s)

Port:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.
Tgen:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Select the stream from 1 to 10.

Response Syntax

<Maximum>

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:MAXimum?

Response(s)

Maximum:

The response syntax for <Maximum> is defined as a <STRING NUMERIC RESPONSE DATA> element.

Returns the maximum measured delay variations of jitter.

Example(s)

* FETC:DATA:TEL:ETH:STR:JITT:MAX? 1,1
Returns the maximum measured delay variation of jitter.

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:JITTer

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:AVERage?

Description

This query returns the average measured delay variations of the jitter.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:AVERage?<wsp><Port><Tgen>

Parameter(s)

Port:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.
Tgen:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Select the stream from 1 to 10.

Response Syntax

<Average>

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:AVERage?

Response(s)

Average:

The response syntax for <Average> is defined as a <STRING NUMERIC RESPONSE DATA> element.

Returns the average measured delay variations of jitter.

Example(s)

* FETC:DATA:TEL:ETH:STR:JITT:AVER? 1,1
Returns the average of all valid measured delay variation of jitter.

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:JITTer

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:CURRent?

Description

This query returns the current measured delay variations of the jitter.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:CURRent?<wsp><Port><Tgen>

Parameter(s)

Port:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.
Tgen:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Select the stream from 1 to 10.

Response Syntax

<Current>

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:CURRent?

Response(s)	Current: The response syntax for <Current> is defined as a <STRING NUMERIC RESPONSE DATA> element. Returns the current measured delay variations of jitter.
Example(s)	* FETC:DATA:TEL:ETH:STR:JITT:CURR? 1,1 Returns the current of all valid measured delay variation of jitter.
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:JITTer

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:ESTimate?

Description

This query returns the estimated measured delay variations of the jitter.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:ESTimate?<wsp><Port><Tgen>

Parameter(s)

Port:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.
Tgen:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Select the stream from 1 to 10.

Response Syntax

<Estimate>

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:JITTer:ESTimate?

Response(s)	Estimate: The response syntax for <Estimate> is defined as a <STRING RESPONSE DATA> element. Returns the estimated measured delay variations of the jitter.
Example(s)	FETC:DATA:TEL:ETH:STR:JITT:EST? 1,1 Returns the estimated of all valid measured delay variation of jitter.
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:JITTer

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:PORT:TCP

Description

This command sets the TCP destination port number for the selected traffic stream.

At *RST, this value is set to 7.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:PORT:TCP<wsp><Port><Tgen><Dport>|MAXimum|MINimum

Parameter(s)

Port:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.
Tgen:
The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:PORT:TCP

Dport:
The program data syntax for the third parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum is used to retrieve the instrument's greatest supported value.
MINimum is used to retrieve the instrument's smallest supported value.
Sets the TCP destination port value for selected stream.

Example(s)

* SOUR:DATA:TEL:ETH:STR:DEST:PORT:TCP 1,2,60
* SOUR:DATA:TEL:ETH:STR:DEST:PORT:TCP? 1,2 Returns60

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:PORT:TCP?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:PORT:TCP?

Description

This query reports the TCP destination port value for the selected traffic stream.

At *RST, this value is set to 7.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:PORT?<wsp><Port><Tgen> [,MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:PORT:TCP?

Parameter(s)

Port:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.
Tgen:
The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the stream from 1 to 10.

The program data syntax for <Dport> is defined as a <CHARACTER PROGRAM DATA> element.
The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:
MAXimum|MINimum.
Selects TCPP destination port value.
MAXimum is used to retrieve the instrument's greatest supported value.
MINimum is used to retrieve the instrument's smallest supported value.
This parameter is optional. If no token is specified, the current TCP destination port value will be returned.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:PORT:TCP?

Response Syntax <Dport>

Response(s) Dport:
The response data syntax for <Dport> is defined as a <NR1 NUMERIC RESPONSE DATA> element.
Returns TCP destination port number.

Example(s) * SOUR:DATA:TEL:ETH:STR:DEST:PORT:TCP 1,2,60
* SOUR:DATA:TEL:ETH:STR:DEST:PORT:TCP? 1,2
Returns60

See Also * SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:PORT:TCP

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:PORT:TCP

Description

This command sets the TCP (Transmission Control Protocol) source port number for the selected traffic stream.

At *RST, this value is set to 49184.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:PORT:TCP<wsp><Port><Tgen>, <Dport>|MAXimum|MINimum

Parameter(s)

Port:
The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.
Tgen:
The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the stream from 1 to 10.

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:PORT:TCP

Sport:

The program data syntax for the third parameter is defined as a <numeric_value> element.

The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.

MAXimum is used to retrieve the instrument's greatest supported value.

MINimum is used to retrieve the instrument's smallest supported value.

Selects the source port number.

Choices are 0 through 65535.

Example(s)

* SOUR:DATA:TEL:ETH:STR:SOUR:PORT:TCP 1,2,65500

* SOUR:DATA:TEL:ETH:STR:SOUR:PORT:TCP? 1,2 Returns:65500

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:PORT:TCP?

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:PORT:TCP?

Description

This query returns the TCP (Transmission Control Protocol) source port number for the selected traffic stream.

At *RST, this value is set to 49184.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:PORT?<wsp><Port><Tgen>[,MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:PORT:TCP?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

The program data syntax for <Dport> is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

MAXimum|MINimum.

Sets the TCP port value.

MAXimum is used to retrieve the instrument's greatest supported value.

MINimum is used to retrieve the instrument's smallest supported value.

This parameter is optional. If no token is specified, the current TCP port value will be returned.

Response Syntax

<Dport>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:PORT:TCP?

Response(s)

Address:

The response data syntax for <Address> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the TCP (Transmission Control Protocol) port number for the selected stream.

Example(s)

* SOUR:DATA:TEL:ETH:STR:SOUR:PORT:TCP 1,2,65500

* SOUR:DATA:TEL:ETH:STR:SOUR:PORT:TCP? 1,2 Returns:65500

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:PORT:TCP

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:TCPProtocol:HISTory?

Description

This query returns the history status of higher layer Transmission Control Protocol (TCP)

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:TCPProtocol:HISTory?<wsp><Port>, TCPChecksum

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: TCPChecksum.

Selects the history status of higher layer Transmission Control Protocol (TCP) error.

TCPChecksum, selects the type of higher layer protocol error as TCP Header Checksum.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:TCPProtocol:HISTory?

Response Syntax <History>

Response(s) History:
The response data syntax for <History> is defined as a <CHARACTER RESPONSE DATA> element.
Returns the history status of higher layer Transmission Control Protocol (TCP) 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:TCPP:HIST? 1,TCPC
Returns the error history.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:TCPProtocol:CURRent?

Description

This query returns the current status of higher layer Transmission Control Protocol (TCP)

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:TCPProtocol:CURRent?<wsp><Port>, TCPChecksum

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: TCPChecksum.

Selects the history status of higher layer Transmission Control Protocol (TCP) error.

TCPChecksum, selects the type of higher layer protocol error as TCP Header Checksum.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:TCPProtocol:CURRent?

Response Syntax <Current>

Response(s) Current:
The response data syntax for <Current> is defined as a <CHARACTER RESPONSE DATA> element.
Returns the current status of higher layer Transmission Control Protocol (TCP) 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:TCPP:CURR? 1,TCPC
Returns the current error status.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:TCPProtocol:SEConds?

Description

This query returns the number of seconds within which higher layer Transmission Control Protocol (TCP) error occurred.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:TCPProtocol:SEConds?<wsp><Port>,TCPChecksum

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:TCPProtocol:SEConds?

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: TCPChecksum.

Selects the history status of higher layer Transmission Control Protocol (TCP) error. TCPChecksum, selects the type of higher layer protocol error as TCP Header Checksum.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:TCPProtocol:SEConds?

Response Syntax <Seconds>

Response(s) Seconds:
The response data syntax for <Seconds> is defined as a <NR1 NUMERIC RESPONSE DATA> element.
Returns the number of seconds within which higher layer Transmission Control Protocol (TCP) error occurred.

Example(s) * FETC:DATA:TEL:ETH:ERR:TCPP:SEC? 1,TCPC
Returns the number of errored seconds.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:TCPProtocol:COUNt?

Description

This query returns the count of higher layer Transmission Control Protocol (TCP) error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:TCPProtocol:COUNt?<wsp><Port>, TCPChecksum

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: TCPChecksum.

Selects the history status of higher layer Transmission Control Protocol (TCP) error.

TCPChecksum, selects the type of higher layer protocol error as TCP Header Checksum.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:TCPProtocol:COUNt?

Response Syntax <Count>

Response(s) Count:
The response data syntax for <Count> is defined as a <NR2 NUMERIC RESPONSE DATA> element.
Returns the count of higher layer Transmission Control Protocol (TCP) error.

Example(s) * FETC:DATA:TEL:ETH:ERR:TCPP:COUN? 1,TCPC
Returns the error count.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:TCPProtocol:RATE?

Description

This query returns the current rate of higher layer Transmission Control Protocol (TCP) error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:TCPProtocol:SEConds?<wsp><Port>, TCPChecksum

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Error:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: TCPChecksum.

Selects the history status of higher layer Transmission Control Protocol (TCP) error.

TCPChecksum, selects the type of higher layer protocol error as TCP Header Checksum.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:TCPProtocol:RATE?

Response Syntax <Rate>

Response(s) Rate:
The response data syntax for <Rate> is defined as a <NR3 NUMERIC RESPONSE DATA> element.
Returns the current rate of higher layer Transmission Control Protocol (TCP) error.

Example(s) * FETC:DATA:TEL:ETH:ERR:TCPP:RATE? 1,TCPC
Returns the error rate.

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:OVERview:THRoughput:TOTal?

Description

This query returns the total measured throughput of all valid frames.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:OVERview:THRoughput:TOTal?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:OVERview:THRoughput:TOTal?

Response Syntax <Total>

Response(s) Total:
The response data syntax for <Total> is defined as a <NR2 NUMERIC RESPONSE DATA> element.
Returns the total measured throughput of all valid frames.

Example(s) * FETC:DATA:TEL:ETH:STR:OVER:THR:TOT? 1
Returns the total measured throughput of all valid frames.

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:OVERview:THRoughput?

Description

This query returns the measured throughput of all valid frames.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:OVERview:THRoughput?<wsp><Port>, <Tgen>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:OVERview:THRoughput?

Response Syntax <Throughput>

Response(s) Throughput:
The response data syntax for <Throughput> is defined as a <NR2 NUMERIC RESPONSE DATA> element.
Returns the measured throughput of all valid frames.

Example(s) * FETC:DATA:TEL:ETH:STR:OVER:THR? 1,1
Returns the measured throughput of all valid frames.

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:OVERview:FLOSs?

Description

This query returns the measured throughput of all valid frames.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:OVERview:FLOSs?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:OVERview:FLOSs?

Response Syntax <Floss>

Response(s) Floss:
The response data syntax for <Floss> is defined as a <NR2 NUMERIC RESPONSE DATA> element.
Returns the total count of frame loss for each stream.

Example(s) * FETC:DATA:TEL:ETH:STR:OVER:FLOS? 1,1
Returns the total count of frame loss for each stream.

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:OVERview:MAXJitter?

Description

This query returns the maximum measured delay variation for all valid frames.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:OVERview:MAXJitter?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:OVERview:MAXJitter?

Response Syntax <Jitter>

Response(s) Jitter:
The response data syntax for <Jitter> is defined as a <STRING RESPONSE DATA> element.
Returns the maximum measured delay variation for all valid frames.

Example(s) * FETC:DATA:TEL:ETH:STR:OVER:MAXJ? 1,1
Returns the maximum measured delay variation for all valid frames.

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:OVERview:MAXLatency?

Description

This query returns the maximum measured round trip latency (delay) for all valid frames.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:OVERview:MAXLatency?<wsp><Port>, <Tgen>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:OVERview:MAXLatency?

Response Syntax <Latency>

Response(s) Latency:
The response data syntax for <Latency> is defined as a <STRING RESPONSE DATA> element.
Returns the maximum measured round trip latency (delay) for all valid frames.

Example(s) * FETC:DATA:TEL:ETH:STR:OVER:MAXL? 1,1
Returns the maximum measured round trip latency (delay) for all valid frames.

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:OVERview:OSEQuence?

Description

This query returns the total count of valid packets for each stream with its sequence number smaller than the previously received packet.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:OVERview:OSEQuence?<wsp><Port><Tgen>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:FETCh[1..n]:DATA:TELecom:ETHernet:STReam:OVERview:OSEQuence?

Response Syntax <Osequence>

Response(s) Osequence:
The response data syntax for <Osequence> is defined as a <NR2 NUMERIC RESPONSE DATA> element.
Returns the total count of valid packets for each stream with its sequence number smaller than the previously received packet.

Example(s) * FETC:DATA:TEL:ETH:STR:OVER:OSEQ? 1,1
Returns the total count of valid packets for each stream with its sequence number smaller than the previously received packet.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:SANalyzer:HISTory?

Description

This query returns the history status of stream errors analysis errors.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:SANalyzer:HISTory?<wsp><Port>,<Tgen>,OUTSequence|FLOSs

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:SANalyzer:HISTory?

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Mode:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

OUTSequence|FLOSs.

Selects the type of stream errors analysis error.

OUTSequence, selects Out of Sequence as stream errors analysis error.

FLOSs, selects Frame Loss as stream errors analysis error.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:SANalyzer:HISTory?

Response Syntax <History>

Response(s) History:
The response data syntax for <History> is defined as a <CHARACTER RESPONSE DATA> element.
Returns the history status of stream errors analysis error.

Example(s) * FETC:DATA:TEL:ETH:ERR:SAN:HIST? 1,1,FLOS
Returns the error history status.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:SANalyzer:CURRent?

Description

This query returns the current status of stream errors analysis error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:SANalyzer:CURRent?<wsp><Port>,<Tgen>,OUTSequence|FLOSs

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:SANalyzer:CURRent?

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Mode:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

OUTSequence|FLOSs.

Selects the type of stream errors analysis error.

OUTSequence, selects Out of Sequence as stream errors analysis error.

FLOSs, selects Frame Loss as stream errors analysis error.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:SANalyzer:CURRent?

Response Syntax <Current>

Response(s) Current:
The response data syntax for <Current> is defined as a <CHARACTER RESPONSE DATA> element.
Returns the current status of stream errors analysis error.

Example(s) * FETC:DATA:TEL:ETH:ERR:SAN:CURR? 1,1,FLOS
Returns the current error status.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:SANalyzer:SEConds?

Description

This query returns the current status of stream errors analysis error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:SANalyzer:SEConds?<wsp><Port><Tgen>, OUTSequence|FLOSs

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:SANalyzer:SEConds?

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Mode:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

OUTSequence|FLOSs.

Selects the type of stream errors analysis error.

OUTSequence, selects Out of Sequence as stream errors analysis error.

FLOSs, selects Frame Loss as stream errors analysis error.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:SANalyzer:SEConds?

Response Syntax <Seconds>

Response(s) Seconds:
The response data syntax for <Seconds> is defined as a <NR1 NUMERIC RESPONSE DATA> element.
Returns the number of seconds of stream errors analysis error.

Example(s) * FETC:DATA:TEL:ETH:ERR:SAN:SEC? 1,1,FLOS
Returns the number of errored seconds.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:SANalyzer:COUNt?

Description

This query returns the current status of stream errors analysis error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:SANalyzer:COUNt?<wsp><Port>, <Tgen>, OUTSequence|FLOSs

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:SANalyzer:COUNt?

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Mode:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: OUTSequence|FLOSs.

Selects the type of stream errors analysis error.

OUTSequence, selects Out of Sequence as stream errors analysis error.

FLOSs, selects Frame Loss as stream errors analysis error.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:SANalyzer:COUNt?

Response Syntax <Count>

Response(s) Count:
The response data syntax for <Count> is defined as a <NR2 NUMERIC RESPONSE DATA> element.
Returns the count of stream errors analysis error.

Example(s) * FETC:DATA:TEL:ETH:ERR:SAN:COUN? 1,1,FLOS
Returns the error count.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:SANalyzer:RATE?

Description

This query returns the current percentage of stream errors analysis error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:SANalyzer:RATE?<wsp><Port><Tgen>,OUTSequence|FLOSs

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:SANalyzer:RATE?

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Mode:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

OUTSequence|FLOSs.

Selects the type of stream errors analysis error.

OUTSequence, selects Out of Sequence as stream errors analysis error.

FLOSs, selects Frame Loss as stream errors analysis error.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:SANalyzer:RATE?

Response Syntax <Rate>

Response(s) Rate:
The response data syntax for <Rate> is defined as a <NR3 NUMERIC RESPONSE DATA> element.
Returns the current rate of stream errors analysis error.

Example(s) * FETC:DATA:TEL:ETH:ERR:SAN:RAT? 1,1,FLOS
Returns the error rate.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:SANalyzer:PERCentage?

Description

This query returns the current percentage of stream errors analysis error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:SANalyzer:PERCentage?<wsp><Port><Tgen>,OUTSequence|FLOSs

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:SANalyzer:PERCentage?

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Mode:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: OUTSequence|FLOSs.

Selects the type of stream errors analysis error.

OUTSequence, selects Out of Sequence as stream errors analysis error.

FLOSs, selects Frame Loss as stream errors analysis error.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:SANalyzer:PERCentage?

Response Syntax

<Percentage>

Response(s)

Percentage:

The response data syntax for <Percentage> is defined as a <NR3 NUMERIC RESPONSE DATA>

element.

Returns the current percentage of stream errors analysis error.

Example(s)

* FETC:DATA:TEL:ETH:ERR:SAN:PERC? 1,1,FLOS
Returns the current percentage.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:THRoughput:MAXImum?

Description

This query returns the maximum throughput for each stream.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:THRoughput:MAXImum?<wsp><Port><Tgen>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:THRoughput:MAXImum?

Response Syntax <Maximum>

Response(s) Maximum:
The response data syntax for <Maximum> is defined as a <NR2 NUMERIC RESPONSE DATA> element.
Returns the maximum throughput for each stream.

Example(s) * FETC:DATA:TEL:ETH:STR:THR:MAX? 1,1
Returns the maximum throughput for each stream.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:THRoughput:MINimum?

Description

This query returns the minimum throughput for each stream.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:THRoughput:MINimum?<wsp><Port>,<Tgen>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tgen:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:THRoughput:MINimum?

Response Syntax

<Minimum>

Response(s)

Minimum:
The response data syntax for <Minimum> is defined as a <NR2 NUMERIC RESPONSE DATA> element.
Returns the minimum throughput for each stream.

Example(s)

* FETC:DATA:TEL:ETH:STR:THR:MIN? 1,1Returns the minimum measured delay variation of jitter.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:THRoughput:CURRent?

Description

This query returns the current throughput for each stream.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:THRoughput:CURRent?<wsp><Port><Tgen>

Parameter(s)

Port:
The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.
Tgen:
The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the stream from 1 to 10.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:THRoughput:CURRent?

Response Syntax

<Current>

Response(s)

Current:
The response data syntax for <Current> is defined as a <NR2 NUMERIC RESPONSE DATA> element.
Returns the current throughput for each stream.

Example(s)

* FETC:DATA:TEL:ETH:STR:THR:CURR? 1,1
Returns the current throughput delay variation of jitter.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:THRoughput:AVERage?

Description

This query returns the average throughput for each stream.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:THRoughput:AVERage?<wsp><Port><Tgen>

Parameter(s)

Port:
The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.
Tgen:
The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the stream from 1 to 10.

:FETCh[1..n]:DATA:TELecom:ETHernet:ERRor:THRoughput:AVERage?

Response Syntax

<Average>

Response(s)

Average:
The response data syntax for <Average> is defined as a <NR2 NUMERIC RESPONSE DATA> element.
Returns the average throughput for each stream.

Example(s)

* FETC:DATA:TEL:ETH:STR:THR:AVER? 1,1
Returns the average throughput delay variation of jitter.

:FETCh[1..n]:DATA:TELecom:ETHernet:RTD:DELay:MAXimum?

Description

This query returns the maximum Round Trip Delay (RTD) recorded.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RTD:DELay:MAXimum?<wsp><Port><Tgen>

Parameter(s)

Port:
The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.
Tgen:
The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the stream from 1 to 10.

Response Syntax

<Maximum>

:FETCh[1..n]:DATA:TELecom:ETHernet:RTD:DELay:MAXimum?

Response(s)	Maximum: The response data syntax for <Maximum> is defined as a <STRING RESPONSE DATA> element. Returns the maximum Round Trip Delay recorded.
Example(s)	* FETC:DATA:TEL:ETH:RTD:DEL:MAX? 1,1 Returns the maximum Round Trip Delay recorded.
See Also	* FETCh[1..n]:DATA:TELecom:ETHernet:RTD:DELay:MAXimum * FETCh[1..n]:DATA:TELecom:ETHernet:RTD:DELay:MAXimum?

:FETCh[1..n]:DATA:TELecom:ETHernet:RTD:DELay:MINimum?

Description

This query returns the minimum Round Trip Delay (RTD) recorded.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RTD:DELay:MINimum?<wsp><Port><Tgen>

Parameter(s)

Port:
The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.
Tgen:
The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the stream from 1 to 10.

Response Syntax

<Minimum>

:FETCh[1..n]:DATA:TELecom:ETHernet:RTD:DELay:MINimum?

Response(s)	Minimum: The response data syntax for <Minimum> is defined as a <STRING RESPONSE DATA> element. Returns the minimum Round Trip Delay recorded.
Example(s)	* FETC:DATA:TEL:ETH:RTD:DEL:MIN? 1,1 Returns the minimum Round Trip Delay recorded.
See Also	* FETCh[1..n]:DATA:TELecom:ETHernet:RTD:DELay:MINimum

:FETCh[1..n]:DATA:TELecom:ETHernet:RTD:DELay:AVERage?

Description

This query returns the average Round Trip Delay (RTD) recorded.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RTD:DELay:AVERage?<wsp><Port><Tgen>

Parameter(s)

Port:
The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.
Tgen:
The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the stream from 1 to 10.

Response Syntax

<Average>

:FETCh[1..n]:DATA:TELecom:ETHernet:RTD:DELay:AVERage?

Response(s)

Average:
The response data syntax for <Average> is defined as a <STRING RESPONSE DATA> element.
Returns the average Round Trip Delay recorded.

Example(s)

* FETC:DATA:TEL:ETH:RTD:DEL:AVER? 1,1
Returns the average Round Trip Delay recorded.

See Also

* FETCh[1..n]:DATA:TELecom:ETHernet:RTD:DELay:AVERage

:FETCh[1..n]:DATA:TELecom:ETHernet:RTD:DELay:CURRent?

Description

This query returns the current Round Trip Delay (RTD) recorded.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RTD:DELay:CURRent?<wsp><Port><Tgen>

Parameter(s)

Port:
The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.
Tgen:
The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the stream from 1 to 10.

Response Syntax

<Current>

:FETCh[1..n]:DATA:TELecom:ETHernet:RTD:DELay:CURRent?

Response(s)	Current: The response data syntax for <Current> is defined as a <STRING RESPONSE DATA> element. Returns the current Round Trip Delay recorded.
Example(s)	* FETC:DATA:TEL:ETH:RTD:DEL:CURR? 1,1 Returns the current Round Trip Delay recorded.
See Also	* FETCh[1..n]:DATA:TELecom:ETHernet:RTD:DELay:CURRent

RFC 2544 Command Reference

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:TESTs

Description	This command enables or disables the selected RFC 2544 sub-tests. At *RST, this value is set to ON.
Syntax	:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:TESTs<wsp>THRoughput|BTBack|FLOSs|LATency,<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:TESTs

Parameter(s)

Test:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: THRoughput|BTBack|FLOSs|LATency.

Selects sub test type.

THRoughput, selects Throughput as sub test.

BTBack, selects Back-to-Back as sub test.

FLOSs, selects Frame Loss as sub test.

LATency, selects Latency as sub test.

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the selected sub tests.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:TEST FLOS,ON

* SOUR:DATA:TEL:ETH:RFC:TEST? FLOS

Returns 1

See Also

* SOURce[1.n]:DATA:TELecom:ETHernet:RFC:TESTs?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:TESTs?

Description

This query returns the status of selected RFC 2544 sub-tests.

At *RST, this value is set to ON.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:TESTs?<wsp>THRoughput|BTBack|FLOSs|LATency

Parameter(s)

Test:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: THRoughput|BTBack|FLOSs|LATency.

Selects sub test type.

THRoughput, selects Throughput as sub test.

BTBack, selects Back-to-Back as sub test.

FLOSs, selects Frame Loss as sub test.

LATency, selects Latency as sub test.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:TESTs?

Response(s)	Set: The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the status of the selected sub tests.
Example(s)	* SOUR:DATA:TEL:ETH:RFC:TEST FLOS,ON * SOUR:DATA:TEL:ETH:RFC:TEST? FLOS Returns 1
See Also	* SOURce[1.n]:DATA:TELecom:ETHernet:RFC:TESTs

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FDIStribution

Description

This command selects frame size distribution from the list.

At *RST, this value is set to RFC2544.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FDIStribution<wsp>RFC2544|UDEFined

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FDIStribution

Parameter(s)	Distribution: The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element. The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: RFC2544|UDEFined. Selects frame size distribution from the list. RFC2544, selects RFC2544 as frame size distribution. UDEFined, selects User Defined (UDEFined) as frame size distribution.
Example(s)	* SOUR:DATA:TEL:ETH:RFC:FDIS UDEF * SOUR:DATA:TEL:ETH:RFC:FDIS? Returns UDEFINED
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FDIStribution?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FDIStribution?

Description This query returns the frame size distribution from the list.

At *RST, this value is set to RFC2544.

Syntax :SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FDIStribution?

Parameter(s) None

Response Syntax <Distribution>

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FDIStribution?

Response(s)

Distribution:

The response data syntax for <Distribution> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the frame size distribution from the list.

RFC2544, RFC2544 is selected as frame size distribution.

UDEFINED, User Defined (UDEFined) is selected as frame size distribution.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:FDIS UDEF

* SOUR:DATA:TEL:ETH:RFC:FDIS?

Returns UDEFINED

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FDIStribution

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FDIRection

Description This command selects test traffic direction.

At *RST, this value is set to TX2RX.

Syntax :SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FDIRection<wsp>TX2RX|LTORemote|RTOLocal|BIDirectional|P12P2|P22P1

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FDIRection

Parameter(s)

Direction:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

TX2RX|LTORemote|RTOLocal|BIDirectional|

P12P2|P22P1.

Selects the direction.

TX2RX, selects TX-to-RX (TX2RX) for single port topology.

LTORemote, selects Local to Remote (LTORemote) for dual test sets.

RTOLocal, selects Remote to Local (RTOLocal) for dual test sets.

BIDirectional, selects Bidirectional (BIDirectional) for dual test sets.

P12P2, selects P1-to-P2 (P12P2) for dual ports topology.

P22P1, selects P2-to-P1 (P22P1) for dual ports topology.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:FDIR LTOR

* SOUR:DATA:TEL:ETH:RFC:FDIR?

Returns LTOREMOTE

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FDIRection?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FDIRection?

Description	This query returns the test traffic direction. At *RST, this value is set to TX2RX.
Syntax	:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FDIRection?
Parameter(s)	None
Response Syntax	<Direction>

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FDIRection?

Response(s)

Direction:

The response data syntax for <Direction> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the direction.

TX2RX, TX-to-RX (TX2RX) is selected for single port topology.

LTOREMOTE, Local to Remote (LTORemote) is selected for dual test sets.

RTOLOCAL, Remote to Local (RTOLocal) is selected for dual test sets.

BIDIRECTIONAL, Bidirectional (BIDirectional) is selected for dual test sets.

P12P2, P1-to-P2 (P12P2) is selected for dual ports topology.

P22P1, P2-to-P1 (P22P1) is selected for dual ports topology.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:FDIR LTOR

* SOUR:DATA:TEL:ETH:RFC:FDIR?

Returns LTOREMOTE

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FDIRection

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:QUANtity

Description

This command selects quantity of frame size to be used for the test.

At *RST, this value is set to 7.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:QUANtity<wsp><Quantity>

Parameter(s)

Quantity:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects quantity of frame size.

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:QUANtity

Example(s)	* SOUR:DATA:TEL:ETH:RFC:FDIS UDEF * SOUR:DATA:TEL:ETH:RFC:QUAN 7 * SOUR:DATA:TEL:ETH:RFC:QUAN? Returns 7
Note	Quantity is only available when User Defined has been selected for distribution.
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FDIStribution * SOURce[1..n]:DATA:TELecom:ETHernet:RFC:QUANtity?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:QUANtity?

Description

This query returns the quantity of frame size used for the test.

At *RST, this value is set to 7.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:QUANtity?

Parameter(s)

None

Response Syntax

<Quantity>

Response(s)

Quantity:

The response data syntax for <Quantity> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the quantity of frame size.

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:QUANtity?

Example(s)	* SOUR:DATA:TEL:ETH:RFC:FDIS UDEF * SOUR:DATA:TEL:ETH:RFC:QUAN 7 * SOUR:DATA:TEL:ETH:RFC:QUAN? Returns 7
Note	Quantity is only available when User Defined has been selected for distribution.
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FDIStribution * SOURce[1..n]:DATA:TELecom:ETHernet:RFC:QUANtity

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FSIZe

Description

This command sets predefined frame size distribution values for RFC 2544 distribution.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FSIZe<wsp><Quantity>,<Fsize>|MAXimum|MINimum|

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FSIZe

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.

Fsize:

The program data syntax for the second parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.

Sets the predefined frame size distribution value.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:FDIS UDEF
* SOUR:DATA:TEL:ETH:RFC:QUAN 7
* SOUR:DATA:TEL:ETH:RFC:FSIZ 1,69
* SOUR:DATA:TEL:ETH:RFC:FSIZ? 1 Returns 69

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FSIZe?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FSIZe?

Description

This query returns the predefined frame size distribution values for RFC 2544 distribution.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FSIZe?<wsp><Quantity>[,MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FSIZe?

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.

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current frame size distribution will be returned.

Response Syntax

<Fsize>

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FSIZe?

Response(s)

Fsize:

The response data syntax for <Fsize> 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 7
* SOUR:DATA:TEL:ETH:RFC:FSIZ 1,69
* SOUR:DATA:TEL:ETH:RFC:FSIZ? 1 Returns 69

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FSIZe

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:CSTatus

Description	This command enables or disables the Coupled Status. At *RST, this value is set to OFF.
Syntax	:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:CSTatus<wsp><Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:CSTatus

Parameter(s)

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the Coupled Status.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:FDIR BDIR
* SOUR:DATA:TEL:ETH:RFC:CST ON
* SOUR:DATA:TEL:ETH:RFC:CST? Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:CSTatus?
* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FDIRection

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:CSTatus?

Description	This query returns the status of the Coupled Status. At *RST, this value is set to OFF.
Syntax	:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:CSTatus?
Parameter(s)	None
Response Syntax	<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:CSTatus?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of the Coupled Status.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:FDIR BDIR
* SOUR:DATA:TEL:ETH:RFC:CST ON
* SOUR:DATA:TEL:ETH:RFC:CST? Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:CSTatus
* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FDIRection

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:TTIMe

Description

This command sets the Test Time value.

At *RST, this value is set to "00:01".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:TTIMe<wsp><Time>

Parameter(s)

Time:

The program data syntax for the parameter is defined as a <STRING PROGRAM DATA> element.

Sets the test time value.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:THR:TTIM "30:00"

* SOUR:DATA:TEL:ETH:RFC:THR:TTIM?

Returns "30:00"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:TTIMe?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:TTIMe?

Description

This query returns the Test Time value.

At *RST, this value is set to "00:01".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:TTIMe?

Parameter(s)

None

Response Syntax

<Time>

Response(s)

Time:

The response data syntax for <Time> is defined as a <STRING RESPONSE DATA> element.

Returns the test time value.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:THR:TTIM "30:00"
* SOUR:DATA:TEL:ETH:RFC:THR:TTIM?

Returns "30:00"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:TTIMe

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:ACCuracy

Description

This command selects the Accuracy value.

At *RST, this value is set to 1.0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:ACCuracy<wsp><Accuracy>|MAXimum|MINimum

Parameter(s)

Accuracy:

The program data syntax for the parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.
Selects the accuracy 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[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:ACCuracy?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:ACCuracy?

Description

This query returns the Accuracy value.

At *RST, this value is set to 1.0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:ACCuracy?[<wsp>MAXimum|MINimum]

Parameter(s)

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.
The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.
MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current accuracy measurement will be returned.

Response Syntax

<Accuracy>

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:ACCuracy?

Response(s)	Accuracy: The response data syntax for <Accuracy> 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[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:ACCuracy

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors

Description

This command sets the number of acceptable errors for the test.

At *RST, this value is set to 0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors<wsp><Errors>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors

Parameter(s)

Errors:

The program data syntax for the parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.

Selects the number of acceptable errors.

Choices are 0 through 10.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:THR:AERR 10

* SOUR:DATA:TEL:ETH:RFC:THR:AERR?

Returns 10

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors?

Description

This query returns the number of acceptable errors for the test.

At *RST, this value is set to 0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors?[<wsp>MAXimum|MINimum]

Parameter(s)

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.
The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.
MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current acceptable error will be returned.

Response Syntax

<Errors>

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors?

Response(s)	Errors: The response data syntax for <Errors> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of acceptable errors.
Example(s)	* SOUR:DATA:TEL:ETH:RFC:THR:AERR 10 * SOUR:DATA:TEL:ETH:RFC:THR:AERR? Returns 10
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:AERRors

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage

Description

This command sets the average of the number of times the Throughput test will be generated.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage<wsp><Average>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage

Parameter(s)

Average:

The program data syntax for the parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.

Sets the number of trials.

Choices are 1 through 50.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:THR:TAV 10

* SOUR:DATA:TEL:ETH:RFC:THR:TAV?

Returns 10

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage?

Description

This query returns the average of the number of times the Throughput test will be generated.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage?[<wsp>MAXimum|MINimum]

Parameter(s)

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current number of trial will be returned.

Response Syntax

<Average>

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage?

Response(s)

Average:

The response data syntax for <Average> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of trials.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:THR:TAV 10

* SOUR:DATA:TEL:ETH:RFC:THR:TAV?

Returns 10

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:TAVerage

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:VALidations

Description

This command sets the number of times the Throughput result should be validated.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:VALidations<wsp><Validations>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:VALidations

Parameter(s)

Validations:

The program data syntax for the parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.

Sets the number of validations.

Choices are 1 through 50.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:THR:VAL 10

* SOUR:DATA:TEL:ETH:RFC:THR:VAL?

Returns 10

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:VALidations?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:VALidations?

Description

This query returns the number of times the Throughput result should be validated.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:VALidations?[<wsp>MAXimum|MINimum]

Parameter(s)

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.
The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.
MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current validation number will be returned.

Response Syntax

<Validations>

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:VALidations?

Response(s)	Validations: The response data syntax for <Validations> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of validations.
Example(s)	* SOUR:DATA:TEL:ETH:RFC:THR:VAL 10 * SOUR:DATA:TEL:ETH:RFC:THR:VAL? Returns 10
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:RFC: THRoughput:VALidations

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate

Description

This command selects the maximum rate for the test.

At *RST, this value is set to 100.0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate<wsp>TX2RX|LTORemote|RTOLocal|P12P2|P22P1,<Maxrate>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate

Parameter(s)

Direction:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

TX2RX|LTORemote|RTOLocal|P12P2|P22P1.

Selects the direction.

TX2RX, selects TX-to-RX (TX2RX) for single port topology.

LTORemote, selects Local to Remote (LTORemote) for dual test sets.

RTOLocal, selects Remote to Local (RTOLocal) for dual test sets.

P12P2, selects P1-to-P2 (P12P2) for dual ports topology.

P22P1, selects P2-to-P1 (P22P1) for dual ports topology.

Maxrate:

The program data syntax for the second parameter is defined as a <numeric_value> element.

The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.

MAXimum allows to set the instrument to the greatest supported value.

MINimum allows to set the instrument to the smallest supported value.

Selects maximum rate.

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate

Example(s)

* SOUR:DATA:TEL:ETH:RFC:THR:MAXR LTOR,10.00

* SOUR:DATA:TEL:ETH:RFC:THR:MAXR? LTOR
Returns 10.00

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate?

Description

This query returns the maximum rate for the test.

At *RST, this value is set to 100.0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate?<wsp>TX2RX|LTORemote|RTOLocal|P12P2|P22P1,[,MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate?

Parameter(s)

Direction:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

TX2RX|LTORemote|RTOLocal|P12P2|P22P1.

Selects the direction.

TX2RX, selects TX-to-RX (TX2RX) for single port topology.

LTORemote, selects Local to Remote (LTORemote) for dual test sets.

RTOLocal, selects Remote to Local (RTOLocal) for dual test sets.

P12P2, selects P1-to-P2 (P12P2) for dual ports topology.

P22P1, selects P2-to-P1 (P22P1) for dual ports topology.

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate?

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current maximum rate will be returned.

Response Syntax <Maxrate>

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate?

Response(s)

Maxrate:

The response data syntax for <Maxrate> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the maximum rate.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:THR:MAXR LTOR,10.00

* SOUR:DATA:TEL:ETH:RFC:THR:MAXR? LTOR
Returns 10.00

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:MAXRate

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:MINTime?

Description

This query returns the minimum time the test is required to run in best condition.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:MINTime?

Parameter(s)

None

Response Syntax

<Time>

Response(s)

Time:

The response data syntax for <Time> 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?

Returns the minimum time.

Note

The minimum test time is calculated and updated once the test is started.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:TSTate?

Description This query returns the test state.

At *RST, this value is device dependent.

Syntax :FETCh[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:TSTate?

Parameter(s) None

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:TSTate?

Response Syntax <State>

Response(s)

State:

The response data syntax for <State> 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:THR:TST?

Returns the test state.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:SMESsage?

Description This query returns the test status messages.

At *RST, this value is device dependent.

Syntax :FETCh[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:SMESsage?

Parameter(s) None

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:SMESsage?

Response Syntax <Status>

Response(s)

Status:

The response data syntax for <Status> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the test status.

NONE, None is retrieved.

INITIALISING, Initialising 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?

Returns the test status messages.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:FCOunt:TX?

Description

This query returns the number of transmitted frames for the indicated direction.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:FCOunt:TX?<wsp>TX2RX|LTORemote|RTOLocal|P12P2|P22P1

Parameter(s)

Direction:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

TX2RX|LTORemote|RTOLocal|P12P2|P22P1.

Selects the direction.

TX2RX, selects TX-to-RX (TX2RX) for single port topology.

LTORemote, selects Local to Remote (LTORemote) for dual test sets.

RTOLocal, selects Remote to Local (RTOLocal) for dual test sets.

P12P2, selects P1-to-P2 (P12P2) for dual ports topology.

P22P1, selects P2-to-P1 (P22P1) for dual ports topology.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:FCOunt:TX?

Response Syntax <Fcount>

Response(s) Fcount:

The response data syntax for <Fcount> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of transmitted frames for the indicated direction.

Example(s) * FETC:DATA:TEL:ETH:RFC:THR:FCO:TX? TX2RX

Returns the number of transmitted frames for the indicated direction.

See Also * FETCh[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:FCOunt:RX?

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:FCOunt:RX?

Description

This query returns the number of received frames for the indicated direction.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:FCOunt:RX?<wsp>TX2RX|LTORemote|RTOLocal|P12P2|P22P1

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:FCOunt:RX?

Parameter(s)

Direction:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: TX2RX|LTORemote|RTOLocal|P12P2|P22P1.

Selects the direction.

TX2RX, selects TX-to-RX (TX2RX) for single port topology.

LTORemote, selects Local to Remote (LTORemote) for dual test sets.

RTOLocal, selects Remote to Local (RTOLocal) for dual test sets.

P12P2, selects P1-to-P2 (P12P2) for dual ports topology.

P22P1, selects P2-to-P1 (P22P1) for dual ports topology.

Response Syntax

<Fcount>

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:FCOunt:RX?

Response(s)

Fcount:

The response data syntax for <Fcount> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of received frames for the indicated direction.

Example(s)

* FETC:DATA:TEL:ETH:RFC:THR:FCO:RX? TX2RX

Returns the number of received frames for the indicated direction.

See Also

* FETCh[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:FCOunt:TX?

:FETCh[1..n]: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, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:TRESults[1..n]?<wsp>TX2RX|LTORemote|RTOLocal|P12P2|P22P1,LAYER123|LAYER23|LAYER3,CURRent|MINimum|MAXimum|AVERage

:FETCh[1..n]: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.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

TX2RX|LTORemote|RTOLocal|P12P2|P22P1.

Selects the direction.

TX2RX, selects TX-to-RX (TX2RX) for single port topology.

LTORemote, selects Local to Remote (LTORemote) for dual test sets.

RTOLocal, selects Remote to Local (RTOLocal) for dual test sets.

P12P2, selects P1-to-P2 (P12P2) for dual ports topology.

P22P1, selects P2-to-P1 (P22P1) for dual ports topology.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:TRESults[1..n]?

Layers:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LAYER123|LAYER23|LAYER3.

Selects the layers used to calculate the Throughput test.

LAYER123, selects Layer 1-2-3 (LAYER123) which contains the Idle, Preamble, Start of Frame Delimiter, MAC address, IP address, and data.

LAYER23, selects Layer 2-3 (LAYER23) which contains the MAC layer, IP layer, and data.

LAYER3, selects Layer 3 (LAYER3) which contains the IP layer, and data.

Dresults:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

CURRent|MINimum|MAXimum|AVERage

Selects the result mode.

CURRent, selects Current as result mode.

MINimum, selects Minimum as result mode.

MAXimum, selects Maximum as result mode.

AVERage, selects Average as result mode.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:TRESults[1..n]?

Response Syntax <Results>

Response(s) Results:

The response data syntax for <Results> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the Throughput results.

Example(s) * FETC:DATA:TEL:ETH:RFC:THR:TRES1?

TX2RX,LAYER1,CURR

Returns the Throughput results.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:CTRial?

Description

This query returns the current trial number.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:THRoughput:CTRial?

Parameter(s)

None

Response Syntax

<Number>

Response(s)

Number:

The response data syntax for <Number> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the current trial number.

Example(s)

* FETC:DATA:TEL:ETH:RFC:THR:CTR?

Returns the Current Trial number.

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:MTFRames

Description

This command sets the burst of frames (Max. time worth of frames) sent with minimum inter-frame gaps to the device under test and the number of forwarded frames counted.

At *RST, this value is set to "00:01".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:MTFRames<wsp><Time>

Parameter(s)

Time:

The program data syntax for the parameter is defined as a <STRING PROGRAM DATA> element.

Sets the maximum 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[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:MTFRames?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:MTFRames?

Description

This query returns the burst of frames (Max. time worth of frames) sent with minimum inter-frame gaps to the device under test and the number of forwarded frames counted.

At *RST, this value is set to "00:01".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:MTFRames?

Parameter(s)

None

Response Syntax

<Time>

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:MTFRames?

Response(s)

Time:

The response data syntax for <Time> is defined as a <STRING RESPONSE DATA> element.

Returns the maximum time worth of frames.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:BCKT:MTFR "00:01"

* SOUR:DATA:TEL:ETH:RFC:BCKT:MTFR?

Returns "00:01"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:MTFRames

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:ACCuracy

Description

This command selects the Accuracy measurement value in frames.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:ACCuracy<wsp><Accuracy>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:ACCuracy

Parameter(s)

Accuracy:

The program data syntax for the parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.

Selects accuracy measurement value in frames.

Choices are 1 through 50.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:BCKT:ACC 10

* SOUR:DATA:TEL:ETH:RFC:BCKT:ACC?

Returns 10

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:ACCuracy?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:ACCuracy?

Description

This query returns the Accuracy measurement value in frames.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:ACCuracy?[<wsp>MAXimum|MINimum]

Parameter(s)

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.
The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.
MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current accuracy measurement value will be returned.

Response Syntax

<Accuracy>

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:ACCuracy?

Response(s)

Accuracy:

The response data syntax for <Accuracy> 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[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:ACCuracy

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:AERRors

Description

This command selects the number of acceptable errors for the test.

At *RST, this value is set to 0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:AERRors<wsp><Errors>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:AERRors

Parameter(s)

Errors:

The program data syntax for the parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.

Selects the number of acceptable errors.

Choices are 0 through 10.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:BCKT:AERR 10

* SOUR:DATA:TEL:ETH:RFC:BCKT:AERR?

Returns 10

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:AERRors?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:AERRors?

Description

This query returns the number of acceptable errors for the test.

At *RST, this value is set to 0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:AERRors?[<wsp>MAXimum|MINimum]

Parameter(s)

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.
The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.
MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current accuracy measurement value will be returned.

Response Syntax

<Errors>

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:AERRors?

Response(s)

Errors:

The response data syntax for <Errors> 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[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:AERRors

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:TAVerage

Description

This command selects the number of times the throughput test will be generated.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:TAVerage<wsp><Average>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:TAVerage

Parameter(s)

Average:

The program data syntax for the parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.

Selects the number of trials.

Choices are 1 through 100.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:BCKT:TAV 10

* SOUR:DATA:TEL:ETH:RFC:BCKT:TAV?

Returns 10

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:TAVerage?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:TAVerage?

Description

This query returns the number of times the throughput test will be generated.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:TAVerage?[<wsp>MAXimum|MINimum]

Parameter(s)

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.
The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.
MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current trial will be returned.

Response Syntax

<Average>

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:TAVerage?

Response(s)

Average:

The response data syntax for <Average> 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[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:TAVerage

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:NBURst

Description

This command selects the number of burst that will be generated.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:NBURst<wsp><Burst>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:NBURst

Parameter(s)

Burst:

The program data syntax for the parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.

Selects the number of bursts.

Choices are 1 through 10.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:BCKT:NBUR 10

* SOUR:DATA:TEL:ETH:RFC:BCKT:NBUR?

Returns 10

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:NBURst?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:NBURst?

Description

This query returns the number of burst that will be generated.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:NBURst?[<wsp>MAXimum|MINimum]

Parameter(s)

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.
The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.
MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current burst will be returned.

Response Syntax

<Burst>

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:NBURst?

Response(s)

Burst:

The response data syntax for <Burst> 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[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:NBURst

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:MINTime?

Description

This query returns the minimum time the test is required to run in best condition.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:MINTime?

Parameter(s)

None

Response Syntax

<Time>

Response(s)

Time:

The response data syntax for <Time> is defined as a <STRING RESPONSE DATA> element.

Returns the minimum time.

Example(s)

* FETC:DATA:TEL:ETH:RFC:BCKT:MINT?

Returns the minimum time.

Note

The minimum test time is calculated and updated once the test is started.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:TSTate?

Description This query returns the test state.

At *RST, this value is device dependent.

Syntax :FETCh[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:TSTate?

Parameter(s) None

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:TSTate?

Response Syntax <State>

Response(s)

State:

The response data syntax for <State> 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?

Returns the test state.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:SMESsage?

Description	This query returns the test status messages. At *RST, this value is device dependent.
Syntax	:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:SMESsage?
Parameter(s)	None

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:SMESsage?

Response Syntax <Status>

Response(s)

Status:

The response data syntax for <Status> is defined as a <<CHARACTER RESPONSE DATA> element.

Returns the test status.

NONE, None is retrieved.

INITIALISING, Initialising 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?

Returns the status messages.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:FCOunt:TX?

Description

This query returns the number of transmitted frames for the indicated direction.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:
BCKTobck:FCOunt:TX?<wsp>TX2RX|
LTORemote|RTOLocal|P12P2|P22P1

Parameter(s)

Direction:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

TX2RX|LTORemote|RTOLocal|P12P2|P22P1.

Selects the direction.

TX2RX, selects TX-to-RX (TX2RX) for single port topology.

LTORemote, selects Local to Remote (LTORemote) for dual test sets.

RTOLocal, selects Remote to Local (RTOLocal) for dual test sets.

P12P2, selects P1-to-P2 (P12P2) for dual ports topology.

P22P1, selects P2-to-P1 (P22P1) for dual ports topology.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:FCOunt:TX?

Response Syntax <Fcount>

Response(s) Fcount:

The response data syntax for <Fcount> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of transmitted frames for the indicated direction.

Example(s) * FETC:DATA:TEL:ETH:RFC:BCKT:FCO:TX? TX2RX

Returns the number of transmitted frames for the indicated direction.

See Also * FETCh[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:FCOunt:RX?

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:FCOunt:RX?

Description

This query returns the number of received frames for the indicated direction.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:FCOunt:RX?<wsp>TX2RX|LTORemote|RTOLocal|P12P2|P22P1

Parameter(s)

Direction:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: TX2RX|LTORemote|RTOLocal|P12P2|P22P1.

Selects the direction.

TX2RX, selects TX-to-RX (TX2RX) for single port topology.

LTORemote, selects Local to Remote (LTORemote) for dual test sets.

RTOLocal, selects Remote to Local (RTOLocal) for dual test sets.

P12P2, selects P1-to-P2 (P12P2) for dual ports topology.

P22P1, selects P2-to-P1 (P22P1) for dual ports topology.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:FCOunt:RX?

Response Syntax <Fcount>

Response(s) Fcount:

The response data syntax for <Fcount> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of received frames for the indicated direction.

Example(s) * FETC:DATA:TEL:ETH:RFC:BCKT:FCO:RX? TX2RX

Returns number of received frames for the indicated direction.

See Also * FETCh[1..n]:DATA:TELecom:ETHernet:RFC:

BCKTobck:FCOunt:TX?

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:CTRial?

Description

This query returns the current trial number.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:CTRial?

Parameter(s)

None

Response Syntax

<Number>

Response(s)

Number:

The response data syntax for <Number> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the current trial number.

Example(s)

* FETC:DATA:TEL:ETH:RFC:BCKT:CTR?

Returns the current trial number.

:FETCh[1..n]: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, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:BBResults[1..n]?<wsp>TX2RX|LTORemote|RTOLocal|P12P2|P22P1,LAYER123|LAYER23|LAYER3,CURRent|MINimum|MAXimum|AVERage

:FETCh[1..n]: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.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: TX2RX|LTORemote|RTOLocal|P12P2|P22P1.

Selects the direction.

TX2RX, selects TX-to-RX (TX2RX) for single port topology.

LTORemote, selects Local to Remote (LTORemote) for dual test sets.

RTOLocal, selects Remote to Local (RTOLocal) for dual test sets.

P12P2, selects P1-to-P2 (P12P2) for dual ports topology.

P22P1, selects P2-to-P1 (P22P1) for dual ports topology.

Layers:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

LAYER123|LAYER23|LAYER3.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:BBResults[1..n]?

Selects the layers used to calculate the Back-to-Back test.

LAYER123, selects Layer 1-2-3 (LAYER123) which contains the Idle, Preamble, Start of Frame Delimiter, MAC address, IP address, and data.

LAYER23, selects Layer 2-3 (LAYER23) which contains the MAC layer, IP layer, and data.

LAYER3, selects Layer 3 (LAYER3) which contains the IP layer, and data.

Dresults:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: CURRent|MINimum|MAXimum|AVERage.

Selects the result mode.

CURRent, selects Current as result mode.

MINimum, selects Minimum as result mode.

MAXimum, selects Maximum as result mode.

AVERage, selects Average as result mode.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:BCKTobck:BBResults[1..n]?

Response Syntax <Results>

Response(s) Results:

The response data syntax for <Results> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the Back-to-Back results.

Example(s) * FETC:DATA:TEL:ETH:RFC:BCKT:BBR1? TX2RX,LAYER1,CURR

Returns the Back-to-Back results.

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:TTIMe

Description

This command sets the Test Time value.

At *RST, this value is set to "00:01".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:TTIMe<wsp><Time>

Parameter(s)

Time:

The program data syntax for the parameter is defined as a <STRING PROGRAM DATA> element.

Sets the test time 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[1..n]:DATA:TELecom:ETHernet:RFC:FLOSS:TTIMe?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:TTIMe?

Description

This query returns the Test Time value.

At *RST, this value is set to "00:01".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:TTIMe?

Parameter(s)

None

Response Syntax

<Time>

Response(s)

Time:

The response data syntax for <Time> is defined as a <STRING RESPONSE DATA> element

Returns the test time 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[1..n]:DATA:TELecom:ETHernet:RFC:FLOSS:TTIMe

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:TGRanularity

Description

This command sets the test granularity.

At *RST, this value is set to 10.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:TGRanularity<wsp><Granularity>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:TGRanularity

Parameter(s)

Granularity:

The program data syntax for the parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.

Selects the test granularity.

Choices are 1 through 10.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:FLOS:TGR 10

* SOUR:DATA:TEL:ETH:RFC:FLOS:TGR?

Returns 10

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSS:TGRanularity?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:TGRanularity?

Description

This query returns the test granularity.

At *RST, this value is set to 10.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:TGRanularity?[<wsp>MAXimum|MINimum]

Parameter(s)

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.
The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.
MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current granularity will be returned.

Response Syntax

<Granularity>

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:TGRanularity?

Response(s)

Granularity:

The response data syntax for <Granularity> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the test granularity.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:FLOS:TGR 10

* SOUR:DATA:TEL:ETH:RFC:FLOS:TGR?

Returns 10

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSS:TGRanularity

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:TAVerage

Description

This command selects the number of times the test will be generated.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:TAVerage<wsp><Average>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:TAVerage

Parameter(s)

Average:

The program data syntax for the parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.
Selects the number of trials.

Choices are 1 through 50.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:FLOS:TAV 10

* SOUR:DATA:TEL:ETH:RFC:FLOS:TAV?

Returns 10

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:TAVerage?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:TAVerage?

Description

This query returns the number of times the test will be generated.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:TAVerage?[<wsp>MAXimum|MINimum]

Parameter(s)

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.
The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.
MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current trial will be returned.

Response Syntax

<Average>

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:TAVerage?

Response(s)

Average:

The response data syntax for <Average> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of trials.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:FLOS:TAV 10

* SOUR:DATA:TEL:ETH:RFC:FLOS:TAV?

Returns 10

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:TAVerage

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:MAXRate

Description

This command selects the maximum rate for the test.

At *RST, this value is set to 100.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:MAXRate<wsp>TX2RX|LTORemote|RTOLocal|P12P2|P22P1,<Maxrate>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:MAXRate

Parameter(s)

Direction:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

TX2RX|LTORemote|RTOLocal|P12P2|P22P1.

Selects the direction.

TX2RX, selects TX-to-RX (TX2RX) for single port topology.

LTORemote, selects Local to Remote (LTORemote) for dual test sets.

RTOLocal, selects Remote to Local (RTOLocal) for dual test sets.

P12P2, selects P1-to-P2 (P12P2) for dual ports topology.

P22P1, selects P2-to-P1 (P22P1) for dual ports topology.

Maxrate:

The program data syntax for the second parameter is defined as a <numeric_value> element.

The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.

MAXimum allows to set the instrument to the greatest supported value.

MINimum allows to set the instrument to the smallest supported value.

Selects the maximum rate.

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:MAXRate

Example(s)

* SOUR:DATA:TEL:ETH:RFC:FLOS:MAXR LTOR,10.00

* SOUR:DATA:TEL:ETH:RFC:FLOS:MAXR? LTOR Returns 10.00

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:MAXRate?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:MAXRate?

Description This query returns the maximum rate for the test.

At *RST, this value is set to 100.

Syntax :SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:MAXRate?<wsp>TX2RX|LTORemote|RTOLocal|P12P2|P22P1,[MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:MAXRate?

Parameter(s)

Direction:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

TX2RX|LTORemote|RTOLocal|P12P2|P22P1.

Selects the direction.

TX2RX, selects TX-to-RX (TX2RX) for single port topology.

LTORemote, selects Local to Remote (LTORemote) for dual test sets.

RTOLocal, selects Remote to Local (RTOLocal) for dual test sets.

P12P2, selects P1-to-P2 (P12P2) for dual ports topology.

P22P1, selects P2-to-P1 (P22P1) for dual ports topology.

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:MAXRate?

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current maximum rate will be returned.

Response Syntax <Maxrate>

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:MAXRate?

Response(s)

Maxrate:

The response data syntax for <Maxrate> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the maximum rate.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:FLOS:MAXR LTOR,10.00

* SOUR:DATA:TEL:ETH:RFC:FLOS:MAXR? LTOR
Returns 10.00

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:MAXRate

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:MINtime?

Description

This query returns the minimum time the test is required to run in best condition.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:MINtime?

Parameter(s)

None

Response Syntax

<Time>

Response(s)

Time:

The response data syntax for <Time> is defined as a <STRING RESPONSE DATA> element.

Returns the minimum time.

Example(s)

* FETC:DATA:TEL:ETH:RFC:FLOS:MIN?

Returns the minimum time.

Note

The minimum test time is calculated and updated once the test is started.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:TSTate?

Description	This query returns the test state. At *RST, this value is device dependent.
Syntax	:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:TSTate?
Parameter(s)	None

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:TSTate?

Response Syntax <State>

Response(s)

State:

The response data syntax for <State> 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:FLOS:TST?

Returns the test state.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:SMESsage?

Description This query returns the test status messages.

At *RST, this value is device dependent.

Syntax :FETCh[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:SMESsage?

Parameter(s) None

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:SMESsage?

Response Syntax <Message>

Response(s) Message:

The response data syntax for <Message> is defined as a <<CHARACTER RESPONSE DATA> element.

Returns the test status.

NONE, None is retrieved.

INITIALISING, Initialising 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?

Returns the test status messages.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:FCOunt:TX?

Description

This query returns the number of transmitted frames for the indicated direction.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:FCOunt:TX?<wsp>TX2RX|LTORemote|RTOLocal|P12P2|P22P1

Parameter(s)

Direction:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

TX2RX|LTORemote|RTOLocal|P12P2|P22P1.

Selects the direction.

TX2RX, selects TX-to-RX (TX2RX) for single port topology.

LTORemote, selects Local to Remote (LTORemote) for dual test sets.

RTOLocal, selects Remote to Local (RTOLocal) for dual test sets.

P12P2, selects P1-to-P2 (P12P2) for dual ports topology.

P22P1, selects P2-to-P1 (P22P1) for dual ports topology.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:FCOunt:TX?

Response Syntax

<Fcount>

Response(s)

Fcount:

The response data syntax for <Fcount> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of transmitted frames for the indicated direction.

Example(s)

* FETC:DATA:TEL:ETH:RFC:FLOS:FCO:TX? TX2RX

Returns the number of transmitted frames for the indicated direction.

See Also

* FETCh[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:FCOunt:RX?

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:FCOunt:RX?

Description

This query returns the number of received frames for the indicated direction.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:FCOunt:RX?<wsp>TX2RX|LTORemote|RTOLocal|P12P2|P22P1

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:FCOunt:RX?

Parameter(s)

Direction:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

TX2RX|LTORemote|RTOLocal|P12P2|P22P1.

Selects the direction.

TX2RX, selects TX-to-RX (TX2RX) for single port topology.

LTORemote, selects Local to Remote (LTORemote) for dual test sets.

RTOLocal, selects Remote to Local (RTOLocal) for dual test sets.

P12P2, selects P1-to-P2 (P12P2) for dual ports topology.

P22P1, selects P2-to-P1 (P22P1) for dual ports topology.

Response Syntax

<Fcount>

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:FCOunt:RX?

Response(s)

Fcount:

The response data syntax for <Fcount> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of received frames for the indicated direction.

Example(s)

* FETC:DATA:TEL:ETH:RFC:FLOS:FCO:RX? TX2RX

Returns the number of received frames for the indicated direction.

See Also

* FETCh[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:FCOunt:TX?

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:CTRial?

Description

This query returns the current trial number.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:CTRial?

Parameter(s)

None

Response Syntax

<Number>

Response(s)

Number:

The response data syntax for <Number> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the current trial number.

Example(s)

* FETC:DATA:TEL:ETH:RFC:FLOS:CTR?

Returns the current trial number.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:CSTep?

Description

This query returns the current percentage of the testing rate.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:CSTep?<wsp>TX2RX|LTORemote|RTOLocal|P12P2|P22P1

Parameter(s)

Direction:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: TX2RX|LTORemote|RTOLocal|P12P2|P22P1.

Selects the direction.

TX2RX, selects TX-to-RX (TX2RX) for single port topology.

LTORemote, selects Local to Remote (LTORemote) for dual test sets.

RTOLocal, selects Remote to Local (RTOLocal) for dual test sets.

P12P2, selects P1-to-P2 (P12P2) for dual ports topology.

P22P1, selects P2-to-P1 (P22P1) for dual ports topology.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:CSTep?

Response Syntax <Step>

Response(s) Step:

The response data syntax for <Step> 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? TX2RX

Returns the current percentage of the testing rate.

:FETCh[1..n]: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, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:FRESults[1..n]?<wsp>TX2RX|LTORemote|RTOLocal|P12P2|P22P1,<Steps>,CURRent|MINimum|MAXimum|AVERage

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:FRESults[1..n]?

Parameter(s)

Direction:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

TX2RX|LTORemote|RTOLocal|P12P2|P22P1.

Selects the direction.

TX2RX, selects TX-to-RX (TX2RX) for single port topology.

LTORemote, selects Local to Remote (LTORemote) for dual test sets.

RTOLocal, selects Remote to Local (RTOLocal) for dual test sets.

P12P2, selects P1-to-P2 (P12P2) for dual ports topology.

P22P1, selects P2-to-P1 (P22P1) for dual ports topology.

Steps:

The program data syntax for the second parameter is defined as a <NR2 NUMERIC PROGRAM DATA> element.

Sets the current percentage of the testing rate.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:FLOSs:FRESults[1..n]?

Dresults:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

CURRent|MINimum|MAXimum|AVERage.

Selects the result mode.

CURRent, selects Current as result mode.

MINimum, selects Minimum as result mode.

MAXimum, selects Maximum as result mode.

AVERage, selects Average as result mode.

Response Syntax <Results>

Response(s) Results:

The response data syntax for <Results> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the Frame Loss results.

Example(s) * FETC:DATA:TEL:ETH:RFC:FLOS:FRES1? TX2RX,90.000,CURR

Returns the number of frames.

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:TTIMe

Description

This command sets the Test Time value.

At *RST, this value is set to "00:01".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:TTIMe<wsp><Time>

Parameter(s)

Time:

The program data syntax for the parameter is defined as a <STRING PROGRAM DATA> element.

Sets the test time value.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:LAT:TTIM "30:00"

* SOUR:DATA:TEL:ETH:RFC:LAT:TTIM?

Returns "30:00"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:TTIMe?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:TTIMe?

Description

This query returns the Test Time value.

At *RST, this value is set to "00:01".

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:TTIMe?

Parameter(s)

None

Response Syntax

<Time>

Response(s)

Time:

The response data syntax for <Time> is defined as a <STRING RESPONSE DATA> element.

Returns the test time value.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:LAT:TTIM "30:00"
* SOUR:DATA:TEL:ETH:RFC:LAT:TTIM?

Returns "30:00"

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:TTIMe

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:TAVerage

Description

This command sets the value for Nb. of Trials to Average.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:TAVerage<wsp><Average>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:TAVerage

Parameter(s)

Average:

The program data syntax for the parameter is defined as a <numeric_value> element.
The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.
MAXimum allows to set the instrument to the greatest supported value.
MINimum allows to set the instrument to the smallest supported value.

Selects the number of trials.

Choices are 1 through 50.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:LAT:TAV 10
* SOUR:DATA:TEL:ETH:RFC:LAT:TAV? Returns 10

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:TAVerage?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:TAVerage?

Description

This query returns the value set for Nb.of Trials to Average.

At *RST, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:TAVerage?[<wsp>MAXimum|MINimum]

Parameter(s)

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.
The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.
MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current trial will be returned.

Response Syntax

<Average>

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:TAVerage?

Response(s)

Average:

The response data syntax for <Average> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of trials.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:LAT:TAV 10

* SOUR:DATA:TEL:ETH:RFC:LAT:TAV? Returns 10

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:TAVerage

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]

Description

This command selects the maximum rate for the test.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]<wsp>TX2RX|LTORemote|RTOLocal|P12P2|P22P1,<Maxrate>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]

Parameter(s)

Direction:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

TX2RX|LTORemote|RTOLocal|P12P2|P22P1.

Selects the direction.

TX2RX, selects TX-to-RX (TX2RX) for single port topology.

LTORemote, selects Local to Remote (LTORemote) for dual test sets.

RTOLocal, selects Remote to Local (RTOLocal) for dual test sets.

P12P2, selects P1-to-P2 (P12P2) for dual ports topology.

P22P1, selects P2-to-P1 (P22P1) for dual ports topology.

Maxrate:

The program data syntax for the second parameter is defined as a <numeric_value> element.

The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.

MAXimum allows to set the instrument to the greatest supported value.

MINimum allows to set the instrument to the smallest supported value.

Selects the maximum rate.

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]

Example(s)

* SOUR:DATA:TEL:ETH:RFC:LAT:MAXR LTOR,10.00

* SOUR:DATA:TEL:ETH:RFC:LAT:MAXR? LTOR
Returns 10.00

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:MAXRate?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]?

Description

This query returns the maximum rate for the test.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]?<wsp>TX2RX|LTORemote|RTOLocal|P12P2|P22P1,[,MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]?

Parameter(s)

Direction:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

TX2RX|LTORemote|RTOLocal|P12P2|P22P1.

Selects the direction.

TX2RX, selects TX-to-RX (TX2RX) for single port topology.

LTORemote, selects Local to Remote (LTORemote) for dual test sets.

RTOLocal, selects Remote to Local (RTOLocal) for dual test sets.

P12P2, selects P1-to-P2 (P12P2) for dual ports topology.

P22P1, selects P2-to-P1 (P22P1) for dual ports topology.

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]?

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current maximum rate will be returned.

Response Syntax <Maxrate>

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:MAXRate[1..n]?

Response(s)

Maxrate:

The response data syntax for <Maxrate> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the maximum rate.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:LAT:MAXR LTOR,10.00

* SOUR:DATA:TEL:ETH:RFC:LAT:MAXR? LTOR
Returns 10.00

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:

LATency:MAXRate

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:COPYtest

Description

This command enables or disables the Copy From Throughput Test to get values from the Throughput test results.

At *RST, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:COPYtest<wsp><Set>

Parameter(s)

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the Copy From Throughput Test.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:LAT:COPY ON

* SOUR:DATA:TEL:ETH:RFC:LAT:COPY?

Returns 1

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:COPYtest?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:COPYtest?

Description	This query returns the status of Copy From Throughput Test to get values from the Throughput test results. At *RST, this value is set to OFF.
Syntax	:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:COPYtest?
Parameter(s)	None
Response Syntax	<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:COPYtest?

Response(s)	Set: The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the status of Copy From Throughput Test.
Example(s)	* SOUR:DATA:TEL:ETH:RFC:LAT:COPY ON * SOUR:DATA:TEL:ETH:RFC:LAT:COPY? Returns 1
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:COPYtest

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:LATency:TSTate?

Description	This query returns the test state. At *RST, this value is device dependent.
Syntax	:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:LATency:TSTate?
Parameter(s)	None

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:LATency:TSTate?

Response Syntax <State>

Response(s)

State:

The response data syntax for <State> 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:LAT:TST?

Returns the test state.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:LATency:SMESsage?

Description	This query returns the test status messages. At *RST, this value is device dependent.
Syntax	:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:LATency:SMESsage?
Parameter(s)	None

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:LATency:SMESsage?

Response Syntax <Message>

Response(s) Message:

The response data syntax for <Message> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the test status.

NONE, None is retrieved.

INITIALISING, Initialising 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?

Returns the test status messages.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:LATency:CTRial?

Description

This query returns the current trial number.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:LATency:CTRial?

Parameter(s)

None

Response Syntax

<Number>

Response(s)

Number:

The response data syntax for <Number> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the current trial number.

Example(s)

* FETC:DATA:TEL:ETH:RFC:LAT:CTR?

Returns the current trial number.

:FETCh[1..n]: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, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:LATency:LRESults[1..n]?<wsp>TX2RX|LTORemote|RTOLocal|P12P|P22P,CURRent|MINimum|MAXimum|AVERage,SFORward|CTHRough

:FETCh[1..n]: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.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

TX2RX|LTORemote|RTOLocal|P12P|P22P.

Selects the direction.

TX2RX, selects TX-to-RX (TX2RX) for single port topology.

LTORemote, selects Local to Remote (LTORemote) for dual test sets.

RTOLocal, selects Remote to Local (RTOLocal) for dual test sets.

P12P2, selects P1-to-P2 (P12P2) for dual ports topology.

P22P1, selects P2-to-P1 (P22P1) for dual ports topology.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:LATency:LRESults[1..n]?

Dresults:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

CURRent|MINimum|MAXimum|AVERage.

Selects the result mode.

CURRent, selects Current as result mode.

MINimum, selects Minimum as result mode.

MAXimum, selects Maximum as result mode.

AVERage, selects Average as result mode.

Mode:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

SFORward|CTHRough.

Selects the propagation time mode.

SFORward, selects Store and Forward (SFORward), which allows the calculation of the propagation time of a frame.

CTHRough, selects Cut Through (CTHRough), which allows the calculation of the propagation time of a bit.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:LATency:LRESults[1..n]?

Response Syntax <Results>

Response(s) Results:

The response data syntax for <Results> is defined as a <STRING RESPONSE DATA> element.

Returns the Latency results.

Example(s) * FETC:DATA:TEL:ETH:RFC:LAT:LRES1? TX2RX,CURR,CTHR Returns the Latency results.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:LATency:MINtime?

Description

This query returns the minimum time the test is required to run in best condition.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:LATency:MINtime?

Parameter(s)

None

Response Syntax

<Time>

Response(s)

Time:

The response data syntax for <Time> is defined as a <STRING RESPONSE DATA> element.

Returns the minimum time.

Example(s)

* FETC:DATA:TEL:ETH:RFC:LAT:MIN?

Returns the minimum time.

Note

The minimum test time is calculated and updated once the test is started.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:LATency:FCOunt:TX?

Description

This query returns the number of transmitted frames for the indicated direction.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:LATency:FCOunt:TX?<wsp>TX2RX|LTORemote|RTOLocal|P12P2|P22P1

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:LATency:FCOunt:TX?

Parameter(s)

Direction:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

TX2RX|LTORemote|RTOLocal|P12P2|P22P1.

Selects the direction.

TX2RX, selects TX-to-RX (TX2RX) for single port topology.

LTORemote, selects Local to Remote (LTORemote) for dual test sets.

RTOLocal, selects Remote to Local (RTOLocal) for dual test sets.

P12P2, selects P1-to-P2 (P12P2) for dual ports topology.

P22P1, selects P2-to-P1 (P22P1) for dual ports topology.

Response Syntax

<Fcount>

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:LATency:FCOunt:TX?

Response(s)

Fcount:

The response data syntax for <Fcount> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of transmitted frames for the indicated direction.

Example(s)

* FETC:DATA:TEL:ETH:RFC:LAT:FCO:TX? TX2RX
Returns the number of transmitted frames for the indicated direction.

See Also

* FETCh[1..N]:DATA:TELecom:ETHernet:RFC:LATency:FCOunt:RX?

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:LATency:FCOunt:RX?

Description

This query returns the number of received frames for the selected direction.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:
LATency:FCOunt:RX?<wsp>TX2RX|
LTORemote|RTOLocal|P12P2|P22P1

Parameter(s)

Direction:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

TX2RX|LTORemote|RTOLocal|P12P2|P22P1.

Selects the direction.

TX2RX, selects TX-to-RX (TX2RX) for single port topology.

LTORemote, selects Local to Remote (LTORemote) for dual test sets.

RTOLocal, selects Remote to Local (RTOLocal) for dual test sets.

P12P2, selects P1-to-P2 (P12P2) for dual ports topology.

P22P1, selects P2-to-P1 (P22P1) for dual ports topology.

:FETCh[1..n]:DATA:TELecom:ETHernet:RFC:LATency:FCOunt:RX?

Response Syntax <Fcount>

Response(s) Fcount:

The response data syntax for <Fcount> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of received frames.

Example(s) * FETC:DATA:TEL:ETH:RFC:LAT:FCO:RX? TX2RX
Returns the number of received frames.

See Also * FETCh[1..N]:DATA:TELecom:ETHernet:RFC:LATency:FCOunt:TX?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:MAXRate:SETall

Description

This command sets the value for all frame sizes.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:MAXRate:SETall<wsp>TX2RX|LTORemote|RTOLocal|P12P2|P22P1,<Maxrate>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:MAXRate:SETall

Parameter(s)

Direction:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

TX2RX|LTORemote|RTOLocal|P12P2|P22P1.

Selects the direction.

TX2RX, selects TX-to-RX (TX2RX) for single port topology.

LTORemote, selects Local to Remote (LTORemote) for dual test sets.

RTOLocal, selects Remote to Local (RTOLocal) for dual test sets.

P12P2, selects P1-to-P2 (P12P2) for dual ports topology.

P22P1, selects P2-to-P1 (P22P1) for dual ports topology.

Maxrate:

The program data syntax for the second parameter is defined as a <numeric_value> element.

The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.

MAXimum allows to set the instrument to the greatest supported value.

MINimum allows to set the instrument to the smallest supported value.

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:MAXRate:SETall

Sets the value for all frame sizes.

Choices vary according to the selection of unit.

Example(s)

* SOUR:DATA:TEL:ETH:RFC:LAT:MAXR:SET LTOR,50.00

* SOUR:DATA:TEL:ETH:RFC:LAT:MAXR:SET? LTOR Returns 50.00

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:MAXRate:SETall?

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:MAXRate:SETall?

Description

This query returns the value for all frame sizes.

At *RST, this value is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:MAXRate:SETall?<wsp>TX2RX|LTORemote|RTOLocal|P12P2|P22P1,[,MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:MAXRate:SETall?

Parameter(s)

Direction:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

TX2RX|LTORemote|RTOLocal|P12P2|P22P1.

Selects the direction.

TX2RX, selects TX-to-RX (TX2RX) for single port topology.

LTORemote, selects Local to Remote (LTORemote) for dual test sets.

RTOLocal, selects Remote to Local (RTOLocal) for dual test sets.

P12P2, selects P1-to-P2 (P12P2) for dual ports topology.

P22P1, selects P2-to-P1 (P22P1) for dual ports topology.

:SOURce[1..n]:DATA:TELecom:ETHernet:RFC:LATency:MAXRate:SETall?

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum.

MAXimum, retrieves the greatest supported value of the instrument.

MINimum, retrieves the smallest supported value of the instrument.

This parameter is optional. If no token is specified, the current frame size will be returned.

Response Syntax

<Maxrate>

Response(s)

Maxrate:

The response data syntax for <Maxrate> 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:SET LTOR,50.00

* SOUR:DATA:TEL:ETH:RFC:LAT:MAXR:SET? LTOR Returns 50.00

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:RFC:

LATency:MAXRate:SETall

Default Test Preference Command Reference

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:LASer

Description

This command enables or disables the laser of Fiber Channel interface.

At *RST, this value is set to ON.

Syntax

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:LASer<wsp><Set>

Parameter(s)

Set:
The program data syntax for <Set> is defined as a <Boolean Program Data> element.
The <Set> special forms ON and OFF are accepted on input for increased readability.
ON corresponds to 1 and OFF corresponds to 0.
Enables or disables the laser.

Example(s)

* OUTP:TEL:PREF:ETH:LAS ON
* OUTP:TEL:PREF:ETH:LAS? Returns 1

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:LASer?

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:LASer?

Description

This query returns the status of laser of Fiber Channel interface.

At *RST, this value is set to ON.

Syntax

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:LASer?

Parameter(s)

None

Response Syntax

<Set>

Response(s)

Set:
The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the status of laser.

Example(s)

* OUTP:TEL:PREF:ETH:LAS ON
* OUTP:TEL:PREF:ETH:LAS? Returns 1

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:LASer

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:ADDRess:IP

Description

This command sets the Internet Protocol (IP) address for Ethernet port.

At *RST, this value is set to "10.10.0.0".

Syntax

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:ADDRess:IP<wsp><Address>

Parameter(s)

Address:
The program data syntax for the parameter is defined as a <STRING PROGRAM DATA> element.

Sets the IP (Internet Protocol) address in the form of string.

Example(s)

* OUTP:TEL:PREF:ETH:PORT:ADDR:IP "10.10.0.0"
* OUTP:TEL:PREF:ETH:PORT:ADDR:IP?
Returns "10.10.0.0"

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:ADDRess:IP?

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:ADDRess:IP?

Description

This query returns the Internet Protocol (IP) address for Ethernet port.

At *RST, this value is set to "10.10.0.0".

Syntax

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:ADDRess:IP?

Parameter(s)

None

Response Syntax

<Address>

Response(s)

Address:
The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.
Returns the Internet Protocol (IP) address in the form of string.

Example(s)

* OUTP:TEL:PREF:ETH:PORT:ADDR:IP "10.10.0.0"
* OUTP:TEL:PREF:ETH:PORT:ADDR:IP?
Returns "10.10.0.0"

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:ADDRess:IP

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IP:GATeway

Description

This command enables or disables the Internet Protocol (IP) gateway.

At *RST, this value is set to OFF.

Syntax

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IP:GATeway<wsp><Set>

Parameter(s)

Set:
The program data syntax for <Set> is defined as a <Boolean Program Data> element.
The <Set> special forms ON and OFF are accepted on input for increased readability.
ON corresponds to 1 and OFF corresponds to 0.
Enables or disables the IP gateway.

Example(s)

* OUTP:TEL:PREF:ETH:PORT:IP:GAT ON
* OUTP:TEL:PREF:ETH:PORT:IP:GAT?
Returns 1

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IP:GATeway?

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IP:GATeway?

Description

This query returns the status of Internet Protocol (IP) gateway.

At *RST, this value is set to OFF.

Syntax

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IP:GATeway?

Parameter(s)

None

Response Syntax

<Set>

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the status of Internet Protocol (IP) gateway.

Example(s)

* OUTP:TEL:PREF:ETH:PORT:IP:GAT ON
* OUTP:TEL:PREF:ETH:PORT:IP:GAT?
Returns 1

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IP:GATeway

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IP:GATeway:ADDRess

Description

This command sets the default gateway Internet Protocol (IP) address for the Ethernet port.

At *RST, this value is set to "0.0.0.0".

Syntax

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IP:GATeway:ADDRess<wsp><Address>

Parameter(s)

Address:
The program data syntax for the parameter is defined as a <STRING PROGRAM DATA> element.

Sets the IP gateway address for the ethernet port.

Example(s)

* OUTP:TEL:PREF:ETH:PORT:IP:GAT ON
* OUTP:TEL:PREF:ETH:PORT:IP:GAT:ADDR "0.0.1.1"
* OUTP:TEL:PREF:ETH:PORT:IP:GAT:ADDR?
Returns "0.0.1.1"

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IP:GATeway
* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IP:GATeway:ADDRess?

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IP:GATeway:ADDRess?

Description	This query returns the default gateway Internet Protocol (IP) address for the Ethernet port. At *RST, this value is set to "0.0.0.0".
Syntax	:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IP:GATeway:ADDRess?
Parameter(s)	None
Response Syntax	<Address>

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IP:GATeway:ADDRess?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA>

element.

Returns the Internet Protocol (IP) gateway address for the ethernet port in the form of string.

Example(s)

* OUTP:TEL:PREF:ETH:PORT:IP:GAT ON
* OUTP:TEL:PREF:ETH:PORT:IP:GAT:ADDR "0.0.1.1"
* OUTP:TEL:PREF:ETH:PORT:IP:GAT:ADDR?
Returns "0.0.1.1"

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IP:GATeway
* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IP:GATeway:ADDRess

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IP:MASK:ADDRess

Description

This command sets the subnet mask for the Ethernet port.

At *RST, this value is set to "255.255.0.0".

Syntax

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IP:MASK:ADDRess<wsp><Address>

Parameter(s)

Address:
The program data syntax for the parameter is defined as a <STRING PROGRAM DATA> element.

Sets the subnet mask for the ethernet port.

Example(s)

* OUTP:TEL:PREF:ETH:PORT:IP:MASK:ADDR "255.255.255.0"
* OUTP:TEL:PREF:ETH:PORT:IP:MASK:ADDR?
Returns "255.255.255.0"

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IP:MASK:ADDRess?

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IP:MASK:ADDRess?

Description

This query returns the subnet mask for the Ethernet port.

At *RST, this value is set to "255.255.0.0".

Syntax

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IP:MASK:ADDRess?

Parameter(s)

None

Response Syntax

<Address>

Response(s)

Address:
The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.
Returns the subnet mask for the Ethernet port in the form of string.

Example(s)

* OUTP:TEL:PREF:ETH:PORT:IP:MASK:ADDR "255.255.255.0"
* OUTP:TEL:PREF:ETH:PORT:IP:MASK:ADDR?
Returns "255.255.255.0"

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IP:MASK:ADDRess

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:NEGotiation

Description

This command enables or disables the auto-negotiation status of the selected instrument port.

At *RST, this value is set to OFF.

Syntax

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:NEGotiation<wsp><Set>

Parameter(s)

Set:
The program data syntax for <Set> is defined as a <Boolean Program Data> element.
The <Set> special forms ON and OFF are accepted on input for increased readability.
ON corresponds to 1 and OFF corresponds to 0.
Enables or disables the auto-negotiation status.

Example(s)

* OUTP:TEL:PREF:ETH:PORT:NEG ON
* OUTP:TEL:PREF:ETH:PORT:NEG? Returns 1

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:NEGotiation?

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:NEGotiation?

Description

This query returns the status of auto-negotiation of the selected instrument port.

At *RST, this value is set to OFF.

Syntax

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:NEGotiation?

Parameter(s)

None

Response Syntax

<Set>

Response(s)

Set:
The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the status of negotiation status.

Example(s)

* OUTP:TEL:PREF:ETH:PORT:NEG ON
* OUTP:TEL:PREF:ETH:PORT:NEG? Returns 1

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:NEGotiation

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IP:AUTomatic:ADDRess

Description

This command sets the automatic Internet Protocol (IP) address for the Ethernet port.

At *RST, this value is set to "255.255.0.0".

Syntax

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IP:AUTomatic:ADDRess<wsp><Address>

Parameter(s)

Address:

The program data syntax for the parameter is defined as a <STRING PROGRAM DATA> element.

Sets the IP address for the Ethernet port.

Example(s)

* OUTP:TEL:PREF:ETH:PORT:IP:AUT:ADDR "255.255.0.0"
* OUTP:TEL:PREF:ETH:PORT:IP:AUT:ADDR?
Returns "255.255.0.0"

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IP:AUTomatic:ADDRess?

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IP:AUTomatic:ADDRess?

Description

This query returns the automatic Internet Protocol (IP) address for the Ethernet port.

At *RST, this value is set to "255.255.0.0".

Syntax

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IP:AUTomatic:ADDRess?

Parameter(s)

None

Response Syntax

<Address>

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the automatic IP address in the form of string.

Example(s)

* OUTP:TEL:PREF:ETH:PORT:IP:AUT:ADDR "255.255.0.0"
* OUTP:TEL:PREF:ETH:PORT:IP:AUT:ADDR?
Returns "255.255.0.0"

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IP:AUTomatic:ADDRess

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IPVersion

Description

This command selects the IP Version.

At *RST, this value is set to IPV4.

Syntax

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IPVersion<wsp><lpversion>

Parameter(s)

lpversion:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: IPv6|IPV4.

Selects the IP version.

IPV6, selects IPV6 as IP version.

IPV4, selects IPV4 as IP version.

Example(s)

* OUTP:TEL:PREF:ETH:PORT:IPV IPV6

* OUTP:TEL:PREF:ETH:PORT:IPV? Returns IPV6

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IPVersion?

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IPVersion?

Description	This query returns the IP Version. At *RST, this value is set to IPV4.
Syntax	:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IPVersion?
Parameter(s)	None
Response Syntax	<Ipversion>

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IPVersion?

Response(s)

Ipversion:

The response data syntax for <Ipversion> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the IP Version.

IPV6, IPV6 is selected as IP version.

IPV4, IPV4 is selected as IP version.

Example(s)

* OUTP:TEL:PREF:ETH:PORT:IPV IPV6

* OUTP:TEL:PREF:ETH:PORT:IPV? Returns IPV6

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:IPVersion

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:LOCal:IPV:ADDRess

Description This command sets the Link-Local IPv6 Address.

At *RST, this value is set to "FE80:0000:0000:0000:0000:0000:0000:0000".

Syntax :OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:LOCal:IPV:ADDRess<wsp><Address>

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:LOCal:IPV:ADDRess

Parameter(s)

Address:

The program data syntax for the parameter is defined as a <STRING PROGRAM DATA> element.

Sets the Link-Local IPv6 Address.

Example(s)

* OUTP:TEL:PREF:ETH:PORT:LOC:IPV:MODE STAT
* OUTP:TEL:PREF:ETH:PORT:LOC:IPV:ADDR "FE80:0000:0000:0000:0000:0000:0000:FFFF"
* OUTP:TEL:PREF:ETH:PORT:LOC:IPV:ADDR?

Returns

"FE80:0000:0000:0000:0000:0000:0000:FFFF"

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:LOCal:IPV:ADDRess?
* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:LOCal:IPV:MODE

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:LOCal:IPV:ADDRess?

Description This query returns the Link-Local IPv6 Address.

At *RST, this value is set to "FE80:0000:0000:0000:0000:0000:0000:0000".

Syntax :OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:LOCal:IPV:ADDRess?

Parameter(s) None

Response Syntax <Address>

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:LOCal:IPV:ADDRess?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the Link-Local IPv6 Address.

Example(s)

* OUTP:TEL:PREF:ETH:PORT:LOC:IPV:MODE STAT
* OUTP:TEL:PREF:ETH:PORT:LOC:IPV:ADDR "FE80:0000:0000:0000:0000:0000:0000:FFFF"
* OUTP:TEL:PREF:ETH:PORT:LOC:IPV:ADDR?

Returns

"FE80:0000:0000:0000:0000:0000:0000:FFFF"

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:LOCal:IPV:ADDRess
* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:LOCal:IPV:MODE

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:LOCal:IPV:MODE

Description

This command selects the Link-Local IPv6 Mode.

At *RST, this value is set to STATic.

Syntax

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:LOCal:IPV:MODE<wsp><Tgen>,STATic|SAUTo

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:LOCal:IPV:MODE

Parameter(s)

Tgen:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the stream from 1 to 10.

Mode:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: STATic|SAUTo.

Selects the Link-Local IPv6 mode.

STATic, selects Static as Link-Local IPv6 mode.

SAUTo, selects Stateless Auto. (SAUTo) as Link-Local IPv6 mode.

Example(s)

* OUTP:TEL:PREF:ETH:PORT:LOC:IPV:MODE STAT

* OUTP:TEL:PREF:ETH:PORT:LOC:IPV:MODE?

Returns STATIC

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:LOCal:IPV:MODE?

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:LOCal:IPV:MODE?

Description	This query returns the Link-Local IPv6 Mode. At *RST, this value is set to STATic.
Syntax	:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:LOCal:IPV:MODE?
Parameter(s)	None
Response Syntax	<Mode>

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:LOCal:IPV:MODE?

Response(s)

Mode:

The response data syntax for <Mode> 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)

* OUTP:TEL:PREF:ETH:PORT:LOC:IPV:MODE STAT

* OUTP:TEL:PREF:ETH:PORT:LOC:IPV:MODE?

Returns STATIC

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:LOCal:IPV:MODE

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:ADDRess

Description

This command sets the Global IPv6 Address.

At *RST, this value is set to "2001:0000:0000:0000".

Syntax

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:ADDRess<wsp><Address>

Parameter(s)

Address:

The program data syntax for the parameter is defined as a <STRING PROGRAM DATA> element.

Sets the Global IPv6 Address.

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:ADDRess

Example(s)

* OUTP:TEL:PREF:ETH:PORT:GLOB:IPV:MODE STAT
* OUTP:TEL:PREF:ETH:PORT:GLOB:IPV:IIC OFF
* OUTP:TEL:PREF:ETH:PORT:GLOB:IPV:ADDR "2001:0000:0000:0000:0000:0000:0000:0000"
* OUTP:TEL:PREF:ETH:PORT:GLOB:IPV:ADDR? Returns "2001:0000:0000:0000:0000:0000:0000:0000"

Note

When Interface ID Coupled is enabled, Global IPv6 Address will configure up to 64 MSB and when it is disabled, it will configure up to 128 bits.

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:ADDRess?
* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:MODE
* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:IICoupled

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:ADDRess?

Description This query returns the Global IPv6 Address.

At *RST, this value is set to "2001:0000:0000:0000".

Syntax :OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:ADDRess?

Parameter(s) None

Response Syntax <Address>

Response(s) Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the Global IPv6 Address.

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:ADDRess?

Example(s)

* OUTP:TEL:PREF:ETH:PORT:GLOB:IPV:MODE STAT
* OUTP:TEL:PREF:ETH:PORT:GLOB:IPV:IIC OFF
* OUTP:TEL:PREF:ETH:PORT:GLOB:IPV:ADDR "2001:0000:0000:0000:0000:0000:0000:0000"
* OUTP:TEL:PREF:ETH:PORT:GLOB:IPV:ADDR?

Returns

"2001:0000:0000:0000:0000:0000:0000:0000"

Note

When Interface ID Coupled is enabled, Global IPv6 Address will configure up to 64 MSB and when it is disabled, it will configure up to 128 bits.

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:ADDRess
* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:MODE
* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:IICoupled

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:MODE

Description

This command selects the Global IPv6 Mode.

At *RST, this value is set to NONE.

Syntax

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:MODE<wsp>NONE|STATic|SAUTo

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:MODE

Parameter(s)

Mode:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: NONE|STATic|SAUTo.

Selects the Global IPv6 mode.

NONE, No Global IPv6 mode is selected.

STATic, selects Static as Global IPv6 mode.

SAUTo, selects Stateless Auto. (SAUTo) as Global IPv6 mode.

Example(s)

* OUTP:TEL:PREF:ETH:PORT:GLOB:IPV:MODE STAT

* OUTP:TEL:PREF:ETH:PORT:GLOB:IPV:MODE?

Returns STATIC

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:MODE?

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:MODE?

Description This query returns the Global IPv6 Mode.

At *RST, this value is set to NONE.

Syntax :OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:MODE?

Parameter(s) None

Response Syntax <Mode>

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:MODE?

Response(s)

Mode:

The response data syntax for <Mode> 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)

* OUTP:TEL:PREF:ETH:PORT:GLOB:IPV:MODE STAT

* OUTP:TEL:PREF:ETH:PORT:GLOB:IPV:MODE?

Returns STATIC

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:MODE

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:PMASk

Description

This command sets the Global IPv6 Address Prefix Mask.

At *RST, this value is set to "0000:0000:0000:0000:0000:0000:0000:0000".

Syntax

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:PMASk<wsp><Address>

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:PMASk

Parameter(s)

Address:

The program data syntax for the parameter is defined as a <STRING PROGRAM DATA> element.

Sets the Global IPv6 Address Prefix Mask.

Example(s)

* OUTP:TEL:PREF:ETH:PORT:GLOB:IPV:MODE STAT
* OUTP:TEL:PREF:ETH:PORT:GLOB:IPV:PMAS "FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000"
* OUTP:TEL:PREF:ETH:PORT:GLOB:IPV:PMAS?

Returns

"FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000"

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:PMASk?
* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:MODE

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:PMASk?

Description This query returns the Global IPv6 Address Prefix Mask.

At *RST, this value is set to "0000:0000:0000:0000:0000:0000:0000:0000".

Syntax :OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:PMASk?

Parameter(s) None

Response Syntax <Address>

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:PMASk?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the Global IPv6 Address Prefix Mask.

Example(s)

* OUTP:TEL:PREF:ETH:PORT:GLOB:IPV:MODE STAT
* OUTP:TEL:PREF:ETH:PORT:GLOB:IPV:PMAS "FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000"
* OUTP:TEL:PREF:ETH:PORT:GLOB:IPV:PMAS?

Returns

"FFFF:FFFF:FFFF:FFFF:0000:0000:0000:0000"

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:PMASk
* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:MODE

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:DGATeway:IPV:ADDRess

Description

This command sets the Default Gateway IPv6 Address.

At *RST, this value is set to "FE80:0000:0000:0000:0000:0000:0000:0000".

Syntax

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:DGATeway:IPV:ADDRess<wsp><Address>

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:DGATeway:IPV:ADDRess

Parameter(s)

Address:

The program data syntax for the parameter is defined as a <STRING PROGRAM DATA> element.

Sets the Default Gateway IPv6 Address.

Example(s)

* OUTP:TEL:PREF:ETH:PORT:DGAT:IPV:MODE STAT
* OUTP:TEL:PREF:ETH:PORT:DGAT:IPV:ADDR "FE80:0000:0000:0000:0000:0000:0000:0000"
* OUTP:TEL:PREF:ETH:PORT:DGAT:IPV:ADDR?

Returns

"FE80:0000:0000:0000:0000:0000:0000:0000"

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:DGATeway:IPV:ADDRess?
* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:DGATeway:IPV:MODE

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:DGATeway:IPV:ADDRess?

Description

This query returns the Default Gateway IPv6 Address.

At *RST, this value is set to "FE80:0000:0000:0000:0000:0000:0000:0000".

Syntax

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:DGATeway:IPV:ADDRess?

Parameter(s)

None

Response Syntax

<Address>

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:DGATeway:IPV:ADDRess?

Response(s)

Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the Default Gateway IPv6 Address.

Example(s)

* OUTP:TEL:PREF:ETH:PORT:DGAT:IPV:MODE STAT
* OUTP:TEL:PREF:ETH:PORT:DGAT:IPV:ADDR "FE80:0000:0000:0000:0000:0000:0000:0000"
* OUTP:TEL:PREF:ETH:PORT:DGAT:IPV:ADDR?

Returns

"FE80:0000:0000:0000:0000:0000:0000:0000"

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:DGATeway:IPV:ADDRess
* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:DGATeway:IPV:MODE

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:DGATeway:IPV:MODE

Description

This command selects the Default Gateway IPv6 Address Mode.

At *RST, this value is set to AUTomatic.

Syntax

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:DGATeway:IPV:MODE<wsp>AUTomatic|STATic

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:DGATeway:IPV:MODE

Parameter(s)

Mode:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: AUTomatic|STATic.

Selects the Default Gateway IPv6 Address mode.

AUTomatic, selects Automatic as default gateway address mode.

STATic, selects Static as default gateway address mode.

Example(s)

* OUTP:TEL:PREF:ETH:PORT:DGAT:IPV:MODE AUT

* OUTP:TEL:PREF:ETH:PORT:DGAT:IPV:MODE?

Returns AUTOMATIC

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:DGATeway:IPV:MODE?

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:DGATeway:IPV:MODE?

Description This query returns the Default Gateway IPv6 Address Mode.

At *RST, this value is set to AUTomatic.

Syntax :OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:DGATeway:IPV:MODE?

Parameter(s) None

Response Syntax <Mode>

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:DGATeway:IPV:MODE?

Response(s)

Mode:

The response data syntax for <Mode> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the Default Gateway IPv6 Address mode.

AUTOMATIC, Automatic is selected as default gateway address mode.

STATIC, Static is selected as default gateway address mode.

Example(s)

* OUTP:TEL:PREF:ETH:PORT:DGAT:IPV:MODE AUT

* OUTP:TEL:PREF:ETH:PORT:DGAT:IPV:MODE?

Returns AUTOMATIC

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:DGATeway:IPV:MODE

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:IICoupled

Description

This command enables or disables the Interface ID of the Global IPv6 address.

At *RST, this value is set to OFF.

Syntax

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:IICoupled<wsp><Set>

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:IICoupled

Parameter(s)

Set:

The program data syntax for <Set> is defined as a <Boolean Program Data> element.

The <Set> special forms ON and OFF are

accepted on input for increased readability.

ON corresponds to 1 and OFF corresponds to 0.

Enables or disables the Interface ID of the Global IPv6 address.

Example(s)

* OUTP:TEL:PREF:ETH:PORT:GLOB:IPV:MODE AUT

* OUTP:TEL:PREF:ETH:PORT:GLOB:IPV:IIC OFF

* OUTP:TEL:PREF:ETH:PORT:GLOB:IPV:IIC?

Returns 0

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:IICoupled?

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:MODE

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:IICoupled?

Description This query returns the status of Interface ID of the Global IPv6 address.

At *RST, this value is set to OFF.

Syntax :OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:IICoupled?

Parameter(s) None

Response Syntax <Set>

:OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:IICoupled?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of Interface ID of the Global IPv6 address.

Example(s)

* OUTP:TEL:PREF:ETH:PORT:GLOB:IPV:MODE AUT

* OUTP:TEL:PREF:ETH:PORT:GLOB:IPV:IIC OFF

* OUTP:TEL:PREF:ETH:PORT:GLOB:IPV:IIC?

Returns 0

See Also

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:IICoupled

* OUTPut[1..n]:TELecom:PREFerence:ETHernet:PORT:GLOBal:IPV:MODE

TCP Throughput Command Reference

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:MODE

Description	This command allows to set the TCP mode. At *RST, this value is set to Local.
Syntax	:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:MODE<wsp><Port>, LOCal|REMote

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:MODE

Parameter(s)	Port: The program data syntax for first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the port number 1 or 2. Mode: The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element. The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LOCal|REMote. Allows to set the TCP mode. LOCal, sets the TCP mode as Local. REMote, sets the TCP mode as Remote.
Example(s)	* SOUR:DATA:TEL:ETH:TCP:MODE 1,LOC * SOUR:DATA:TEL:ETH:TCP:MODE? 1 Returns LOCAL
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:TCP: MODE?

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:MODE?

Description

This query returns the TCP mode.

At *RST, this value is set to Local.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:MODE?<wsp><Port>

Parameter(s)

Port:

The program data syntax for first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Mode>

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:MODE?

Response(s)	Mode: The response data syntax for <Mode> is defined as a <CHARACTER RESPONSE DATA> element. Returns the TCP mode. LOCAL, Local is selected as TCP mode. REMOTE, Remote is selected as TCP mode.
Example(s)	* SOUR:DATA:TEL:ETH:TCP:MODE 1, LOC * SOUR:DATA:TEL:ETH:TCP:MODE? 1, Returns LOCAL
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:TCP:MODE * SOURce[1..n]:DATA:TELecom:ETHernet:TCP:MODE?

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:RIP

Description

This command sets the IP address of the remote unit on the local unit.

At *RST, this value is set to 0.0.0.0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:RIP<wsp><Port><Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:RIP

Parameter(s)	Port: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the port number 1 or 2. Address: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Sets the IP address of the remote unit on the local unit.
Example(s)	* SOUR:DATA:TEL:ETH:TCP:CONN:RIP 1,"0.0.0.0" * SOUR:DATA:TEL:ETH:TCP:CONN:RIP? 1 Returns "0.0.0.0"
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:RIP?

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:RIP?

Description

This query returns the IP address of the remote unit on the local unit.

At *RST, this value is set to 0.0.0.0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:RIP?<wsp><Port>

Parameter(s)

Port:
The program data syntax for parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.

Response Syntax

<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:RIP?

Response(s)	Address: The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element. Returns the IP address of the remote unit on the local unit.
Example(s)	* SOUR:DATA:TEL:ETH:TCP:CONN:RIP 1,"0.0.0.0" * SOUR:DATA:TEL:ETH:TCP:CONN:RIP? 1 Returns "0.0.0.0"
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:RIP

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:LIP

Description	This command sets the IP address of the local unit on the remote unit. At *RST, this value is set to 0.0.0.0.
Syntax	:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:LIP<wsp><Port>,<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:LIP

Parameter(s)	Port: The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the port number 1 or 2. Address: The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element. Sets the IP address of the local unit on the remote unit.
Example(s)	* SOUR:DATA:TEL:ETH:TCP:CONN:LIP 1,"0.0.0.0" * SOUR:DATA:TEL:ETH:TCP:CONN:LIP? 1 Returns "0.0.0.0"
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:LIP?

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:LIP?

Description

This query returns the IP address of the local unit on the remote unit.

At *RST, this value is set to 0.0.0.0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:LIP?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Address>

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:LIP?

Response(s)	Address: The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element. Returns the IP address of the local unit on the remote unit.
Example(s)	* SOUR:DATA:TEL:ETH:TCP:CONN:LIP 1,"0.0.0.0" * SOUR:DATA:TEL:ETH:TCP:CONN:LIP? 1 Returns "0.0.0.0"
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:LIP

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:PORT

Description

This command sets the TCP port number.

At *RST, this value is set to 50201.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:PORT<wsp><Port>,<Maxrate>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:PORT

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Maxrate:

The program data syntax for the parameter is defined as a <numeric_value> element.

The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.

Sets the maximum rate for the TCP port number.

MAXimum is used to retrieve the instrument's greatest supported value.

MINimum is used to retrieve the instrument's smallest supported value.

Example(s)

SOUR:DATA:TEL:ETH:TCP:CONN:PORT 1,26

SOUR:DATA:TEL:ETH:TCP:CONN:PORT? 1
Returns 26

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:PORT?

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:PORT?

Description

This query returns the TCP port number.

At *RST, this value is set to 50201.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:PORT?<wsp><Port>[<wsp>MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:PORT?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

MAXimum|MINimum.

MAXimum is used to retrieve the instrument's greatest supported value.

MINimum is used to retrieve the instrument's smallest supported value.

This parameter is optional. If no token is specified, the current TCP port number value will be returned.

Response Syntax

<MAX>

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:PORT?

Response(s)

MAX:
The response data syntax for <MAX> is defined as a <NR1 NUMERIC RESPONSE DATA> element.
Returns the maximum rate for the TCP port number.

Example(s)

* SOUR:DATA:TEL:ETH:TCP:CONN:PORT 1,26
* SOUR:DATA:TEL:ETH:TCP:CONN:PORT? 1
Returns 26

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:PORT

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:IP:TOSDs

Description	This command sets the Type of Service/Differentiated Services (TOS/DS) value for the selected traffic stream. At *RST, this value is set to #H00.
Syntax	:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:IP:TOSDs<wsp><Port><Tosds>

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:IP:TOSDs

Parameter(s)

Port:

The program data syntax for the first parameter is

defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tosds:

The program data syntax for the parameter is defined as a <NONDECIMAL

NUMERIC PROGRAM DATA> element.

Sets the TOSDS value from #H00 to #HFF.

Example(s)

* SOUR:DATA:TEL:ETH:TCP:MODE 1,LOC

* SOUR:DATA:TEL:ETH:TCP:CONN:IP:TOSD 1,#HDD

* SOUR:DATA:TEL:ETH:TCP:CONN:IP:TOSD? 1,Returns #HDD

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:TCP:

CONNection:IP:TOSDs?

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:IP:TOSDs?

Description	This query returns the Type of Service/Differentiated Services (TOS/DS) value for the selected traffic stream. At *RST, this value is set to #H00.
Syntax	:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:IP:TOSDs?<wsp><Port>
Parameter(s)	None
Response Syntax	<Tosds>

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:IP:TOSDs?

Response(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Tosds:

The response data syntax for <Tosds> is defined as a <HEXADECIMAL NUMERIC RESPONSE DATA> element.

Returns the TOSDS value.

Example(s)

* SOUR:DATA:TEL:ETH:TCP:MODE 1,LOC

* SOUR:DATA:TEL:ETH:TCP:CONN:IP:TOSD 1,#HDD

* SOUR:DATA:TEL:ETH:TCP:CONN:IP:TOSD? 1,Returns #HDD

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:IP:TOSDs?

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:STATus?

Description

This command returns the status of Transmission Control Protocol (TCP) connection.

At *RST, this value is set to #H00.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:STATus?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:STATus?

Response Syntax <Status>

Response(s)

Status:

The response data syntax for <Status> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the status of Transmission Control Protocol (TCP) connection.

In Progress: Indicates on the local unit 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 completed.

Established: Indicates that the TCP session has been successfully established between the local and remote units.

Closed: Indicates that either, no TCP initialization algorithm has been received after 12 seconds, 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.

Closing: Indicates on the local unit that the test on the remote unit has just been stopped. The closing status lasts 3 seconds and switches to the Closed status.

Remote IP not found: Indicates that the local unit didn't received an answer to the ARP request sent to the IP address of the remote unit.

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:CONNection:STATus?

Example	* FET:DATA:TEL:ETH:TCP:CONN:STAT? 1, Returns the status of Transmission Control Protocol (TCP) connection.

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:THRoughput:INTSize

Description

This command sets the initial window size when the test is started.

At *RST, this value is set to 2048.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:THRoughput:INTSize<wsp><Port>,<Maxrate>[,MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:THRoughput:INTSize

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Maxrate:

The program data syntax for the second parameter is defined as a <numeric_value> element.

The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.

Sets the maximum rate for the window size.

MAXimum is used to retrieve the instrument's greatest supported value.

MINimum is used to retrieve the instrument's smallest supported value.

Example(s)

* SOUR:DATA:TEL:ETH:TCP:MODE 1,LOC
* SOUR:DATA:TEL:ETH:TCP:THR:INTS 1,20
* SOUR:DATA:TEL:ETH:TCP:THR:INTS? 1,Returns 20

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:TCP:THRoughput:INTSize?

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:THRoughput:INTSize?

Description

This query returns the initial window size when the test is started.

At *RST, this value is set to 2048.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:THRoughput:INTSize?<wsp><Port>,MAXimum | MINimum]

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:THRoughput:INTSize?

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

The program data syntax for the parameter is defined as a <CHARACTER

PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

MAXimum|MINimum.

MAXimum is used to retrieve the instrument's greatest supported value.

MINimum is used to retrieve the instrument's smallest supported value.

This parameter is optional. If no token is specified, the current window size will be returned.

Response Syntax

<Size>

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:THRoughput:INTSize?

Response(s)	Size: The response data syntax for <Size> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the initial window size when the test is started.
Example(s)	* SOUR:DATA:TEL:ETH:TCP:MODE 1,LOC * SOUR:DATA:TEL:ETH:TCP:THR:INTS 1,20 * SOUR:DATA:TEL:ETH:TCP:THR:INTS? 1,Returns 20
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:TCP:THRoughput:INTSize

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:THRoughput:MINSize

Description

This command sets the minimum window size when the test is started.

At *RST, this value is set to 1024.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:THRoughput:MINSize<wsp><Port>,<Maxrate>MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:THRoughput:MINSize

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Maxrate:

The program data syntax for the second parameter is defined as a <numeric_value> element.

The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.

Sets the maximum rate for the window size.

MAXimum is used to retrieve the instrument's greatest supported value.

MINimum is used to retrieve the instrument's smallest supported value.

Example(s)

* SOUR:DATA:TEL:ETH:TCP:MODE 1,LOC
* SOUR:DATA:TEL:ETH:TCP:THR:MINS 1,20
* SOUR:DATA:TEL:ETH:TCP:THR:MINS? 1,Returns 20

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:TCP:THRoughput:MINSize?

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:THRoughput:MINSize?

Description

This query returns the minimum window size when the test is started.

At *RST, this value is set to 1024.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:THRoughput:MINSize?<wsp><Port>, MAXimum| MINimum]

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:THRoughput:MINSize?

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

The program data syntax for the parameter is defined as a <CHARACTER

PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

MAXimum|MINimum.

MAXimum is used to retrieve the instrument's greatest supported value.

MINimum is used to retrieve the instrument's smallest supported value.

This parameter is optional. If no token is specified, the current window size will be returned.

Response Syntax

<Size>

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:THRoughput:MINSize?

Response(s)	Size: The response data syntax for <Size> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the minimum window size when the test is started.
Example(s)	* SOUR:DATA:TEL:ETH:TCP:MODE 1,LOC * SOUR:DATA:TEL:ETH:TCP:THR:MINS 1,20 * SOUR:DATA:TEL:ETH:TCP:THR:MINS? 1,Returns20
See Also	* SOURce[1..n]:DATA:TELecom:ETHernet:TCP:THRoughput:MAXSize

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:THRoughput:MAXSize

Description

This command sets the maximum window size when the test is started.

At *RST, this value is set to 1024.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:THRoughput:MAXSize<wsp><Port><Maxrate>MAXimum|MINimum.

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:THRoughput:MAXSize

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Maxrate:

The program data syntax for the parameter is defined as a <numeric_value> element.

The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum.

Sets the maximum rate for the window size.

MAXimum is used to retrieve the instrument's greatest supported value.

MINimum is used to retrieve the instrument's smallest supported value.

Example(s)

* SOUR:DATA:TEL:ETH:TCP:MODE 1,LOC
* SOUR:DATA:TEL:ETH:TCP:THR:MAXS 1,20.20
* SOUR:DATA:TEL:ETH:TCP:THR:MAXS? 1,Returns20.20

See Also

* SOURce[1..n]:DATA:TELecom:ETHernet:TCP:THRoughput:MAXSize?

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:THRoughput:MAXSize?

Description

This query returns the maximum window size when the test is started.

At *RST, this value is set to 1024.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:THRoughput:MAXSize?<wsp><Port>
MAXimum| MINimum]

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:THRoughput:MAXSize?

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

The program data syntax for the parameter is defined as a <CHARACTER

PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

MAXimum|MINimum.

MAXimum is used to retrieve the instrument's greatest supported value.

MINimum is used to retrieve the instrument's smallest supported value.

This parameter is optional. If no token is specified, the current window size will be returned.

Response Syntax

<Size>

:SOURce[1..n]:DATA:TELecom:ETHernet:TCP:THRoughput:MAXSize?

Response(s)

Size:
The response data syntax for <Size> is defined as a <NR2 NUMERIC RESPONSE DATA> element.
Returns the maximum window size when the test is started.

Example(s)

* SOUR:DATA:TEL:ETH:TCP:MODE 1,LOC
* SOUR:DATA:TEL:ETH:TCP:THR:MAXS 1,20.20
* SOUR:DATA:TEL:ETH:TCP:THR:MAXS? 1,Returns20.20

See Also

* SOUR:DATA:TEL:ETH:TCP:MODE 1,LOC
* FETC:DATA:TEL:ETH:TCP:STAT:THR:LAST? 1

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput:LAST?

Description

This query returns the last TCP Throughput measurement.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput:LAST?<wsp><Port>

Parameter(s)

Port:
The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput:LAST?

Response Syntax <Last>

Response(s) Last:
The response data syntax for <Last> is defined as a <NR2 NUMERIC RESPONSE DATA> element.
Returns the last TCP Throughput measurement.

Example(s) * SOUR:DATA:TEL:ETH:TCP:MODE LOC
* FETC:DATA:TEL:ETH:TCP:STAT:THR:LAST?
Returns the last TCP Throughput measurement.

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput:MINimum?

Description

This query returns the minimum TCP Throughput measurement.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:STTistics:THRoughput:MINimum?<wsp><Port>

Parameter(s)

Port:
The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput:MINimum?

Response Syntax <Minimum>

Response(s) Minimum:
The response data syntax for <Minimum> is defined as a <NR2 NUMERIC RESPONSE DATA> element.
Returns the minimum TCP Throughput measurement.

Example(s) * SOUR:DATA:TEL:ETH:TCP:MODE 1,LOC
* FETC:DATA:TEL:ETH:TCP:STAT:THR:MINimum? 1 Returns the minimum TCP Throughput measurement.

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput:MAXimum?

Description

This query returns the maximum TCP Throughput measurement.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput:MAXimum?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput:MAXimum?

Response Syntax <Maximum>

Response(s) Maximum:

The response data syntax for <Maximum> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the maximum TCP Throughput measurement.

Example(s) * SOUR:DATA:TEL:ETH:TCP:MODE 1,LOC

* FETC:DATA:TEL:ETH:TCP:STAT:THR:MAXimum? 1 Returns the average TCP Throughput measurement.

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput:AVERage?

Description

This query returns the average TCP Throughput measurement.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput:AVERage?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:STATistics:THRoughput:AVERage?

Response Syntax <Average>

Response(s) Average:
The response data syntax for <Average> is defined as a <NR2 NUMERIC RESPONSE DATA> element.
Returns the average TCP Throughput measurement.

Example(s) * SOUR:DATA:TEL:ETH:TCP:MODE 1,LOC
* FETC:DATA:TEL:ETH:TCP:STAT:THR:AVERage? 1 Returns the average TCP Throughput measurement.

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:STATistics:WINDsize:LAST?

Description

This query returns the last TCP Window size.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:STATistics:WINDsize:LAST?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:STATistics:WINDsize:LAST?

Response Syntax <Last>

Response(s) Last:
The response data syntax for <Last> is defined as a <NR2 NUMERIC RESPONSE DATA> element.
Returns the last TCP Window size.

Example(s) SOUR:DATA:TEL:ETH:TCP:MODE 1,LOC
FETC:DATA:TEL:ETH:TCP:STAT:WINDsize:LAST? 1 Returns the last TCP Window size.

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:STATistics:WINDsize:MINimum?

Description

This query returns the minimum TCP Window size.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:STATistics:WINDsize:MINimum?<wsp><Port>

Parameter(s)

Port:
The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:STATistics:WINDsize:MINimum?

Response Syntax <Minimum>

Response(s) Minimum:
The response data syntax for <Minimum> is defined as a <NR2 NUMERIC RESPONSE DATA> element.
Returns the minimum TCP Window size.

Example(s) * SOUR:DATA:TEL:ETH:TCP:MODE 1,LOC
* FETC:DATA:TEL:ETH:TCP:STAT:WINDsize:MINimum? 1 Returns the minimum TCP Window size.

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:STATistics:WINDsize:MAXimum?

Description

This query returns the maximum TCP Window size.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:STATistics:WINDsize:MAXimum?<wsp><Port>

Parameter(s)

Port:
The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:STATistics:WINDsize:MAXimum?

Response Syntax <Maximum>

Response(s) Maximum:
The response data syntax for <Maximum> is defined as a <NR2 NUMERIC RESPONSE DATA> element.
Returns the maximum TCP Window size.

Example(s) SOUR:DATA:TEL:ETH:TCP:MODE 1,LOC
FETC:DATA:TEL:ETH:TCP:STAT:WINDsize:MAX? 1
Returns the maximum TCP Window size.

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:STATistics:TTFRames?

Description

This query returns the total frames transmitted by the local unit excluding the retransmitted frames.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:STATistics:TTFRames?<wsp><Port>

Parameter(s)

Port:
The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.
Selects the port number 1 or 2.

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:STATistics:TTFRames?

Response Syntax <Frames>

Response(s) Frames:
The response data syntax for <Frames> is defined as a <NR2 NUMERIC RESPONSE DATA> element.
Returns the total frames transmitted by the local unit excluding the retransmitted frames.

Example(s) * SOUR:DATA:TEL:ETH:TCP:MODE 1,LOC
* FETC:DATA:TEL:ETH:TCP:STAT:TTFR? 1 Returns the total frames transmitted by the local unit excluding the retransmitted frames.

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:STATistics:TRTFrames?

Description

This query returns the total frames retransmitted by the local unit.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:STATistics:TRTFrames?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:FETCh[1..n]:DATA:TELecom:ETHernet:TCP:STATistics:TRTFrames?

Response Syntax <Frames>

Response(s) Frames:
The response data syntax for <Frames> is defined as a <NR2 NUMERIC RESPONSE DATA> element.
Returns the total frames retransmitted by the local unit.

Example(s) * SOUR:DATA:TEL:ETH:TCP:MODE 1,LOC
* FETC:DATA:TEL:ETH:TCP:STAT:TRTF? 1 Returns the total frames retransmitted by the local unit.

:FETCh[1..n]:DATA:TELecom:ETHernet:RTD:TIME:MINimum?

Description

This query returns the minimum Round Trip Delay (RTD) recorded.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RTD:TIME:MINimum?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:FETCh[1..n]:DATA:TELecom:ETHernet:RTD:TIME:MINimum?

Response Syntax <Minimum>

Response(s) Minimum:

The response data syntax for <Minimum> is defined as a <STRING RESPONSE DATA> element.

Returns the minimum Round Trip Delay (RTD) recorded.

Example(s) * SOUR:DATA:TEL:ETH:TCP:MODE 1,LOC

* FETC:DATA:TEL:ETH:RTD:TIME:MIN? 1 Returns the minimum Round Trip Delay (RTD) recorded.

:FETCh[1..n]:DATA:TELecom:ETHernet:RTD:TIME:MAXimum?

Description

This query returns the maximum Round Trip Delay (RTD) recorded.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RTD:TIME:MAXimum?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:FETCh[1..n]:DATA:TELecom:ETHernet:RTD:TIME:MAXimum?

Response Syntax <Maximum>

Response(s) Maximum:

The response data syntax for <Maximum> is defined as a <STRING RESPONSE DATA> element.

Returns the maximum Round Trip Delay (RTD) recorded.

Example(s) * SOUR:DATA:TEL:ETH:TCP:MODE 1,LOC

* FETC:DATA:TEL:ETH:RTD:TIME:MAX? 1

Returns the maximum Round Trip Delay (RTD) recorded.

:FETCh[1..n]:DATA:TELecom:ETHernet:RTD:TIME:AVERage?

Description

This query returns the average Round Trip Delay (RTD) recorded.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RTD:TIME:AVERage?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:FETCh[1..n]:DATA:TELecom:ETHernet:RTD:TIME:AVERage?

Response Syntax

<Average>

Response(s)

Average:

The response data syntax for <Average> is defined as a <STRING RESPONSE DATA> element.

Returns the average Round Trip Delay (RTD) value.

Example(s)

* SOUR:DATA:TEL:ETH:TCP:MODE 1,LOC

* FETC:DATA:TEL:ETH:RTD:TIME:AVER? 1

Returns the average Round Trip Delay (RTD) value.

:FETCh[1..n]:DATA:TELecom:ETHernet:RTD:TIME:LAST?

Description

This query returns the last Round Trip Delay (RTD) recorded.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:RTD:TIME:LAST?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:FETCh[1..n]:DATA:TELecom:ETHernet:RTD:TIME:LAST?

Response Syntax <Last>

Response(s) Last:
The response data syntax for <Last> is defined as a <STRING RESPONSE DATA> element.
Returns the last Round Trip Delay (RTD) value.

Example(s) * SOUR:DATA:TEL:ETH:TCP:MODE 1,LOC
* FETC:DATA:TEL:ETH:RTD:TIME:LAST? 1
Returns the last Round Trip Delay (RTD) value.

Exhaustive Command Reference

:FETCh[1..n]:DATA:TELecom:ALARm:HISTory?

Description

This query returns the history status of all alarms related to the test such as Port, Ethernet, Pattern, High Layer Protocol, and Other. It also returns the combined status for all the tests.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ALARm:HISTory? <wsp><Port>,TANalyser|WIS|PATTern|PORT|SDT|ALL

:FETCh[1..n]:DATA:TELecom:ALARm:HISTory?

Parameter(s)

Port:

The program data syntax for first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Alarm:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

TANalyser|WIS|PATTern|PORT|SDT|ALL.

Selects the history status of all alarms related to the test.

TANalyser, retrieves the history status of all alarms related to Traffic Analyzer.

PATTern, retrieves the history status of all alarms related to Pattern.

WIS, retrieves all errors related to WIS.

PORT, retrieves the history status of all alarms related to Port.

SDT, retrieves the history status of all alarms related to SDT.

ALL, retrieves the history status of all alarms related to the tests.

:FETCh[1..n]:DATA:TELecom:ALARm:HISTory?

Response Syntax <History>

Response(s) History:
The response data syntax for <History> 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? 1, PORT Returns the history status of all Port alarms.

See Also * FETCh[1..n]:DATA:TELecom:ALARm:CURRent?
* FETCh[1..n]:DATA:TELecom:ALARm:SEConds?

:FETCh[1..n]: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, High Layer Protocol, and Other. It also returns the combined status for all the tests.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ALARm:SEConds? <wsp><Port>,TANalyser|WIS|PATTern|PORT|SDT|ALL

:FETCh[1..n]:DATA:TELecom:ALARm:SEConds?

Parameter(s)

Port:

The program data syntax for first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Alarm:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

TANalyser|WIS|PATTern|PORT|SDT|ALL.

Selects the number of seconds within which all alarms related to the test occurred.

TANalyser, retrieves the number of seconds related to Traffic Analyzer.

WIS, retrieves all errors related to WIS.

PATTern, retrieves the number of seconds related to Pattern.

PORT, retrieves the number of seconds related to Port.

SDT, retrieves the number of seconds related to SDT.

ALL, retrieves the number of seconds related to all the tests.

:FETCh[1..n]:DATA:TELecom:ALARm:SEConds?

Response Syntax <Seconds>

Response(s) Seconds:
The response data syntax for <Seconds> 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? 1, PORT Returns the number of seconds within which all Port alarms occurred.

See Also * FETCh[1..n]:DATA:TELecom:ALARm:HISTory?
* FETCh[1..n]:DATA:TELecom:ALARm:CURRent?

:FETCh[1..n]:DATA:TELecom:ALARm:CURRent?

Description

This query returns the current status of all alarms related to the test such as Port, Ethernet, Pattern, High Layer Protocol, and Other. It also returns the combined status for all the tests.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ALARm:CURRent?
<wsp><Port>,TANalyser|WIS|PATTern|PORT|SDT|ALL

:FETCh[1..n]:DATA:TELecom:ALARm:CURRent?

Parameter(s)

Port:

The program data syntax for first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Alarm:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

TANalyser|WIS|PATTern|PORT|SDT|ALL.

Selects the current status of all alarms related to the selected test and all the tests.

TANalyser, retrieves the current status of all alarms related to Traffic Analyzer.

PATTern, retrieves the current status of all alarms related to Pattern.

WIS, retrieves all errors related to WIS.

PORT, retrieves the current status of all alarms related to Port.

SDT, retrieves the current status of all alarms related to SDT.

ALL, retrieves the current status of all alarms related to all the tests.

:FETCh[1..n]:DATA:TELecom:ALARm:CURRent?

Response Syntax <Current>

Response(s) Current:
The response data syntax for <Current> 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? 1, TAN Returns the current status of all TAN alarms.

See Also * FETCh[1..n]:DATA:TELecom:ALARm:HISTory?
* FETCh[1..n]:DATA:TELecom:ALARm:SEConds?

:FETCh[1..n]:DATA:TELecom:ERRor:HISTory?

Description

This query returns the history status of all errors related to the test such as Port, Ethernet, Pattern, High Layer Protocol, Stream Analyzer, Traffic Analyzer and Other. It also returns the combined status for all the tests.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ERRor:HISTory? <wsp><Port>, TANalyser|WIS|PATTern|ALL|SANalyser

:FETCh[1..n]:DATA:TELecom:ERRor:HISTory?

Parameter(s)

Port:

The program data syntax for first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Alarm:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

TANalyser|WIS|PATTern|ALL|SANalyser.

Selects all errors related to the selected test and all the tests.

TANalyser, retrieves all errors related to Traffic Analyzer.

WIS, retrieves all errors related to WIS.

PATTern, retrieves all errors related to Pattern.

ALL, retrieves all errors related to all the tests.

SANalyser, retrieves the number of seconds of all errors related to Stream Analyzer.

Response Syntax

<History>

:FETCh[1..n]:DATA:TELecom:ERRor:HISTory?

Response(s)

History:
The response data syntax for <History> is defined as a <STRING RESPONSE DATA> element.
Returns the errored history status of the selected test and all the tests.

Example(s)

* FETC:DATA:TEL:ERR:HIST? 1, Tan Returns the history status of all Tan errors.

See Also

* FETCh[1..n]:DATA:TELecom:ERRor:CURRent?
* FETCh[1..n]:DATA:TELecom:ERRor:SEConds?
* FETCh[1..n]:DATA:TELecom:ERRor:RATE?
* FETCh[1..n]:DATA:TELecom:ERRor:COUNT?

:FETCh[1..n]:DATA:TELecom:ERRor:SEConds?

Description

This query returns the number of seconds within which all errors related to the test such as Port, Ethernet, Pattern, High Layer Protocol, Stream Analyzer, Traffic Analyzer and Other occurred. It also returns the combined status for all the tests.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ERRor:SEConds? <wsp><Port>, TANalyser|WIS|PATTern|ALL|SANalyser

:FETCh[1..n]:DATA:TELecom:ERRor:SEConds?

Parameter(s)

Port:

The program data syntax for first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Alarm:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

TANalyser|WIS|PATTern|ALL|SANalyser.

Selects all errors related to the selected test and all the tests.

TANalyser, retrieves all errors related to Traffic Analyzer.

WIS, retrieves all errors related to WIS.

PATTern, retrieves all errors related to Pattern.

ALL, retrieves all errors related to all the tests.

SANalyser, retrieves the number of seconds of all errors related to Stream Analyzer.

Response Syntax

<Seconds>

:FETCh[1..n]:DATA:TELecom:ERRor:SEConds?

Response(s)

Seconds:
The response data syntax for <Seconds> 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? 1, TAN Returns the number of seconds within which all TAN errors occurred.

See Also

* FETCh[1..n]:DATA:TELecom:ERRor:HISTory?
* FETCh[1..n]:DATA:TELecom:ERRor:CURRent?
* FETCh[1..n]:DATA:TELecom:ERRor:RATE?
* FETCh[1..n]:DATA:TELecom:ERRor:COUNT?

:FETCh[1..n]:DATA:TELecom:ERRor:CURRent?

Description

This query returns the current status of all errors related to the test such as Port, Ethernet, Pattern, High Layer Protocol, Stream Analyzer, Traffic Analyzer and Other. It also returns the combined status for all the tests.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ERRor:CURRent? <wsp><Port>, TANalyser|WIS|PATTern|ALL|SANalyser

:FETCh[1..n]:DATA:TELecom:ERRor:CURRent?

Parameter(s)

Port:

The program data syntax for first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Alarm:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

TANalyser|WIS|PATTern|ALL|SANalyser.

Selects all errors related to the selected test and all the tests.

TANalyser, retrieves all errors related to Traffic Analyzer.

WIS, retrieves all errors related to WIS.

PATTern, retrieves all errors related to Pattern.

ALL, retrieves all errors related to all the tests.

SANalyser, retrieves the number of seconds of all errors related to Stream Analyzer.

Response Syntax

<Current>

:FETCh[1..n]:DATA:TELecom:ERRor:CURRent?

Response(s)

Current:
The response data syntax for <Current> is defined as a <STRING RESPONSE DATA> element.
Returns the current errored status of the selected test and all the tests.

Example(s)

* FETC:DATA:TEL:ERR:CURR? 1, TAN Returns the current status of all TAN errors.

See Also

* FETCh[1..n]:DATA:TELecom:ERRor:HISTory?
* FETCh[1..n]:DATA:TELecom:ERRor:SEConds?
* FETCh[1..n]:DATA:TELecom:ERRor:RATE?
* FETCh[1..n]:DATA:TELecom:ERRor:COUNT?

:FETCh[1..n]:DATA:TELecom:ERRor:COUNt?

Description

This query returns the count of all errors related to the test such as Port, Ethernet, Pattern, High Layer Protocol, Stream Analyzer, Traffic Analyzer and Other. It also returns the combined status for all the tests.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ERRor:COUNt?
<wsp><Port>, TANalyser|WIS|PATTern|ALL|SANalyser

:FETCh[1..n]:DATA:TELecom:ERRor:COUNt?

Parameter(s)

Port:

The program data syntax for first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Alarm:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: TANalyser|WIS|PATTern|ALL|SANalyser.

Selects all errors related to the selected test and all the tests.

TANalyser, retrieves all errors related to Traffic Analyzer.

WIS, retrieves all errors related to WIS.

PATTern, retrieves all errors related to Pattern.

ALL, retrieves all errors related to all the tests.

SANalyser, retrieves the number of seconds of all errors related to Stream Analyzer.

Response Syntax

<Count>

:FETCh[1..n]:DATA:TELecom:ERRor:COUNt?

Response(s)

Count:
The response data syntax for <Count> 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? 1,TAN Returns the count of all TAN errors.

See Also

* FETCh[1..n]:DATA:TELecom:ERRor:HISTory?
* FETCh[1..n]:DATA:TELecom:ERRor:CURRent?
* FETCh[1..n]:DATA:TELecom:ERRor:SEConds?
* FETCh[1..n]:DATA:TELecom:ERRor:RATE?

:FETCh[1..n]:DATA:TELecom:ERRor:RATE?

Description

This query returns the current rate of all errors related to the test such as Port, Ethernet, Pattern, High Layer Protocol, Stream Analyzer, Traffic Analyzer and Other. It also returns the combined status for all the tests.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ERRor:RATE? <wsp><Port>, TANalyser|WIS|PATTern|ALL|SANalyser.

:FETCh[1..n]:DATA:TELecom:ERRor:RATE?

Parameter(s)

Port:

The program data syntax for first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Alarm:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

TANalyser|WIS|PATTern|ALL|SANalyser.

Selects all errors related to the selected test and all the tests.

TANalyser, retrieves all errors related to Traffic Analyzer.

WIS, retrieves all errors related to WIS.

PATTern, retrieves all errors related to Pattern.

ALL, retrieves all errors related to all the tests.

SANalyser, retrieves the number of seconds of all errors related to Stream Analyzer.

Response Syntax

<Rate>

:FETCh[1..n]:DATA:TELecom:ERRor:RATE?

Response(s)

Rate:
The response data syntax for <Rate> 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? 1, TAN Returns the current error rate of all TAN errors.

See Also

* FETCh[1..n]:DATA:TELecom:ERRor:HISTory?
* FETCh[1..n]:DATA:TELecom:ERRor:CURRent?
* FETCh[1..n]:DATA:TELecom:ERRor:SEConds?
* FETCh[1..n]:DATA:TELecom:ERRor:COUNT?

:FETCh[1..n]:DATA:TELecom:ERRor:PERCentage?

Description

This query returns the current percentage of all errors related to the test such as Port, Ethernet, Pattern, High Layer Protocol, Stream Analyzer and Other. It also returns the combined status for all the tests.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:ERRor:PERCentage? <wsp><Port>,SANalyzer|ALL

:FETCh[1..n]:DATA:TELecom:ERRor:PERCentage?

Parameter(s)

Port:

The program data syntax for first parameter is

defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Alarm:

The program data syntax for second the parameter is

defined as a <CHARACTER PROGRAM DATA>

element.

The allowed <CHARACTER PROGRAM DATA>

elements for this parameter are:

SANalyzer|ALL.

Selects all errors related to the selected test and

all the tests.

SANalyser, retrieves all errors related to Stream

Analyzer.

ALL, retrieves all errors related to all the tests.

Response Syntax

<Percentage>

:FETCh[1..n]:DATA:TELecom:ERRor:PERCentage?

Response(s)

Percentage:

The response data syntax for <Percentage> is defined as a <STRING RESPONSE DATA> element.

Returns the current percentage for the selected test errors and all the test errors.

Example(s)

* FETC:DATA:TEL:ERR:RATE? 1, SAN Returns the current percentage of all SAN errors.

See Also

* FETCh[1..n]:DATA:TELecom:ERRor:HISTory?
* FETCh[1..n]:DATA:TELecom:ERRor:CURRent?
* FETCh[1..n]:DATA:TELecom:ERRor:SEConds?
* FETCh[1..n]:DATA:TELecom:ERRor:COUNT?

Logger Command Reference

:FETCh[1..n]:DATA:TELecom:LOGGer:EVENts?

Description	This query returns the total number of test events recorded. At *RST, this value is device dependent.
Syntax	:FETCh[1..n]:DATA:TELecom:LOGGer:EVENts?
Parameter(s)	None
Response Syntax	<Event>
Response(s)	Event: The response data syntax for <Event> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the total number of test events.
Example(s)	* FETC:DATA:TEL:LOGG:EVEN? Returns the total number of test events recorded.
See Also	* FETCh[1..n]:DATA:TELecom:LOGGer:LIST?

:FETCh[1..n]:DATA:TELecom:LOGGer:LIST?

Description This query returns the list of test events.

At *RST, this value is device dependent.

Syntax :FETCh[1..n]:DATA:TELecom:LOGGer:LIST?
<wsp>MAXimum|MINimum

Parameter(s) Eventno:
The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.
The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:
MAXimum|MINimum.
Selects the list of test events.
MAXimum is used to retrieve the instrument's greatest supported value.
MINimum is used to retrieve the instrument's smallest supported value.
This parameter is optional. If no token is specified, the entire event list will be returned.

Response Syntax <List>

:FETCh[1..n]:DATA:TELecom:LOGGer:LIST?

Response(s)	List: The response data syntax for <List> is defined as a <STRING RESPONSE DATA> element. Returns the list of test events.
Example(s)	* FETC:DATA:TEL:LOGG:LIST? 2 Returns the list of test events.
See Also	* FETCh[1..n]:DATA:TELecom:LOGGer:EVENts?

Summary Page Command Reference

:FETCh[1..n]:DATA:TELecom:SUMMary:TEST:HISTory?

Description

This query returns the summary of the history status of any alarms/errors related to the tests such as Port, Ethernet, Pattern, High Layer Protocol, WIS, and Other. It also returns the status of Log Full, if logger exceeds its maximum capacity of 5000 events.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:SUMMary:TEST:HISTory?<wsp>GLOBal|LFULl

:FETCh[1..n]:DATA:TELecom:SUMMary:TEST:HISTory?

Parameter(s)

Type:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: GLOBal|LFULl.

Selects the test parameters for history status.

GLOBal, selects Global, which indicates the presence of any alarms/errors related to the tests such as Port, Ethernet, Pattern, High Layer Protocol, WIS, and Other.

LFULl, selects Log Full (LFULl), which indicates that the logger exceeds it maximum capacity of 5000 events.

Response Syntax

<History>

:FETCh[1..n]:DATA:TELecom:SUMMary:TEST:HISTory?

Response(s)

History:

The response data syntax for <History> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the summary of the history status of any alarms/errors related to the test.

PRESENT, indicates that at least one alarm/error has occurred.

ABSENT, indicates that no alarm/error occurred.

INACTIVE, indicates that the test did not run yet.

Example(s)

* FETC:DATA:TEL:SUMM:TEST:HIST? GLOB

Returns the summary of the history status of any alarms/errors related to Global.

See Also

* FETCh[1..n]:DATA:TELecom:SUMMary:TEST:CURRent?

:FETCh[1..n]:DATA:TELecom:SUMMary:TEST:CURRent?

Description

This query returns the summary of the current status of any alarms/errors related to the tests such as Port, Ethernet, Pattern, High Layer Protocol, WIS, and Other. It also returns the status of Log Full, if logger exceeds its maximum capacity of 5000 events.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:SUMMary:TEST:CURRent?<wsp>GLOBal|LFULl

Parameter(s)

Type:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: GLOBal|LFULl.

Selects the test parameters for history status.

GLOBal, selects Global, which indicates the presence of any alarms/errors related to the tests such as Port, Ethernet, Pattern, High Layer Protocol, WIS, and Other.

LFULl, selects Log Full (LFULl), which indicates that the logger exceeds it maximum capacity of 5000 events.

:FETCh[1..n]:DATA:TELecom:SUMMary:TEST:CURRent?

Response Syntax

<Current>

Response(s)

Current:

The response data syntax for <Current> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the summary of the current status of any alarms/errors related to the test.

PRESENT, indicates that at least one alarm/error has occurred in the last second.

ABSENT, indicates that there is no alarm/error.

INACTIVE, indicates that the test is not running.

Example(s)

* FETC:DATA:TEL:SUMM:TEST:CURR? GLOB

Returns the summary of the current status of any alarms/errors related to Global.

See Also

* FETCh[1..n]:DATA:TELecom:SUMMary:TEST:HISTory?

:FETCh[1..n]:DATA:TELecom:SUMMary:PORT:HISTory?

Description

This query returns the history status of any alarms/errors related to the physical port such as LOS, LOC and Frequency.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:SUMMary:PORT:HISTory?<wsp>LOS|FREQuency|LOC

Parameter(s)

Type:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LOS|FREQuency|LOC.

Selects the physical port type.

LOS, selects Loss of Signal (LOS) as physical port.

FREQuency, selects Frequency as physical port.

LOC, selects Loss of Clock (LOC) as physical port.

Response Syntax

<History>

:FETCh[1..n]:DATA:TELecom:SUMMary:PORT:HISTory?

Response(s)

History:

The response data syntax for <History> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the summary of the history status of any alarms/errors related to Port.

PRESENT, indicates that at least one alarm/error has occurred.

ABSENT, indicates that no alarm/error occurred.

INACTIVE, indicates that the test did not run yet.

Example(s)

* FETC:DATA:TEL:SUMM:PORT:HIST? LOS

Returns the summary of the history status of any alarms/errors related to LOS.

See Also

* FETCh[1..n]:DATA:TELecom:SUMMary:PORT:CURRent?

:FETCh[1..n]:DATA:TELecom:SUMMary:PORT:CURRent?

Description

This query returns the current status of any alarms/errors related to the physical port such as LOS, LOC and Frequency.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:SUMMary:PORT:CURRent?<wsp>LOS|FREQuency|LOC

Parameter(s)

Type:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LOS|FREQuency|LOC.

Selects the physical port type.

LOS, selects Loss of Signal (LOS) as physical port.

FREQuency, selects Frequency as physical port.

LOC, selects Loss of Clock (LOC) as physical port.

Response Syntax

<Current>

:FETCh[1..n]:DATA:TELecom:SUMMary:PORT:CURRent?

Response(s)

Current:

The response data syntax for <Current> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the summary of the current status of any alarms/errors related to Port.

PRESENT, indicates that at least one alarm/error has occurred in the last second.

ABSENT, indicates that there is no alarm/error.

INACTIVE, indicates that the test is not running.

Example(s)

* FETC:DATA:TEL:SUMM:PORT:CURR? LOS

Returns the summary of the current status of any alarms/errors related to LOS.

See Also

* FETCh[1..n]:DATA:TELecom:SUMMary:PORT:HISTory?

:FETCh[1..n]:DATA:TELecom:SUMMary:PATTern:HISTory?

Description

This query returns the summary of the history status of any alarms/errors related to pattern testing such as No Traffic, Pattern Loss, and Bit Error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:SUMMary:PATTern:HISTory?<wsp>NTRaffic|PLOSs|BIT

Parameter(s)

Type:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: NTRaffic|PLOSs|BIT.

Selects the Pattern testing type.

NTRaffic, selects No Traffic (NTRaffic) as Pattern testing type.

PLOSs, selects Pattern Loss (PLOSs) as Pattern testing type.

BIT, selects Bit Error (Bit) as Pattern testing type.

Response Syntax

<History>

:FETCh[1..n]:DATA:TELecom:SUMMary:PATTern:HISTory?

Response(s)

History:

The response data syntax for <History> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the summary of the history status of any alarms/errors related to Pattern.

PRESENT, indicates that at least one alarm/error has occurred.

ABSENT, indicates that no alarm/error occurred.

INACTIVE, indicates that the test did not run yet.

Example(s)

* FETC:DATA:TEL:SUMM:PATT:HIST? PLOS

Returns the summary of the history status of any alarms/errors related to Pattern Loss.

See Also

* FETCh[1..n]:DATA:TELecom:SUMMary:PATTern:CURRent?

:FETCh[1..n]:DATA:TELecom:SUMMary:PATTern:CURRent?

Description

This query returns the summary of the current status of any alarms/errors related to pattern testing such as No Traffic, Pattern Loss, and Bit Error.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:SUMMary:PATTern:CURRent?<wsp>NTRaffic|PLOSs|BIT

Parameter(s)

Type:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: NTRaffic|PLOSs|BIT.

Selects the Pattern testing type.

NTRaffic, selects No Traffic (NTRaffic) as Pattern testing type.

PLOSs, selects Pattern Loss (PLOSs) as Pattern testing type.

BIT, selects Bit Error (Bit) as Pattern testing type.

Response Syntax

<Current>

:FETCh[1..n]:DATA:TELecom:SUMMary:PATTern:CURRent?

Response(s)

Current:

The response data syntax for <Current> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the summary of the current status of any alarms/errors related to Pattern.

PRESENT, indicates that at least one alarm/error has occurred in the last second.

ABSENT, indicates that there is no alarm/error.

INACTIVE, indicates that the test is not running.

Example(s)

* FETC:DATA:TEL:SUMM:PATT:CURR? PLOS

Returns the summary of the current status of any alarms/errors related to Pattern Loss.

See Also

* FETCh[1..n]:DATA:TELecom:SUMMary:PATTern:HISTory?

:FETCh[1..n]:DATA:TELecom:SUMMary:OTHer:HISTory?

Description

This query returns the summary of the history status of all other alarms such as SDT.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:SUMMary:OTHer:HISTory?<wsp>SDT

Parameter(s)

Type:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: SDT.

Selects other alarm type.

SDT, selects Service Disruption Time (SDT) as alarm.

Response Syntax

<History>

:FETCh[1..n]:DATA:TELecom:SUMMary:OTHer:HISTory?

Response(s)

History:

The response data syntax for <History> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the summary of the history status of any alarms related to other test.

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:SUMM:OTH:HIST? SDT

Returns the summary of the history status of any alarms related to SDT.

See Also

* FETCh[1..n]:DATA:TELecom:SUMMary:OTHer:CURRent?

:FETCh[1..n]:DATA:TELecom:SUMMary:OTHer:CURRent?

Description

This query returns the summary of the current status of all other alarms such as SDT.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:SUMMary:OTHer:CURRent?<wsp>SDT

Parameter(s)

Type:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: SDT.

Selects other alarm type.

SDT, selects Service Disruption Time (SDT) as alarm.

Response Syntax

<Current>

:FETCh[1..n]:DATA:TELecom:SUMMary:OTHer:CURRent?

Response(s)

Current:

The response data syntax for <Current> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the summary of the current status of any alarms related to other test.

PRESENT, indicates that at least one alarm has occurred in the last second.

ABSENT, indicates that there is no alarm.

INACTIVE, indicates that the test is not running.

Example(s)

* FETC:DATA:TEL:SUMM:OTH:CURR? SDT

Returns the summary of the current status of any alarms related to SDT.

See Also

* FETCh[1..n]:DATA:TELecom:SUMMary:OTHer:HISTory?

:FETCh[1..n]:DATA:TELecom:SUMMary:ETHernet:HISTory?

Description

This query returns the summary of the history status of any alarms/errors related to Ethernet testing such as Errors, Link, and Fault.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:SUMMary:
ETHernet:HISTory?<wsp>LINK|ERRor|FAULt

Parameter(s)

Type:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LINK|ERRor|FAULt.

Selects the Ethernet error type.

LINK, selects Link as Ethernet error.

ERRor, selects Error as Ethernet error.

FAULt, selects Fault as Ethernet error.

Response Syntax

<History>

:FETCh[1..n]:DATA:TELecom:SUMMary:ETHernet:HISTory?

Response(s)

History:

The response data syntax for <History> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the summary of the history status of any alarms/errors related to Ethernet.

PRESENT, indicates that at least one alarm/error has occurred.

ABSENT, indicates that no alarm/error occurred.

INACTIVE, indicates that the test did not run yet.

Example(s)

* FETC:DATA:TEL:SUMM:ETH:HIST? LINK

Returns the summary of the history status of any errors related to Link.

See Also

* FETCh[1..n]:DATA:TELecom:SUMMary:ETHernet:CURRent?

:FETCh[1..n]:DATA:TELecom:SUMMary:ETHernet:CURRent?

Description

This query returns the summary of the current status of any alarms/errors related to Ethernet testing such as Errors, Link, and Fault.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:SUMMary:ETHernet:CURRent?<wsp>LINK|ERRor|FAULt

Parameter(s)

Type:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:

LINK|ERRor|FAULt.

Selects the Ethernet error type.

LINK, selects Link as Ethernet error.

ERRor, selects Error as Ethernet error.

FAULt, selects Fault as Ethernet error.

Response Syntax

<Current>

:FETCh[1..n]:DATA:TELecom:SUMMary:ETHernet:CURRent?

Response(s)

Current:

The response data syntax for <Current> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the summary of the current status of any alarms/errors related to Ethernet.

PRESENT, indicates that at least one alarm/error has occurred in the last second.

ABSENT, indicates that there is no alarm/error.

INACTIVE, indicates that the test is not running.

Example(s)

* FETC:DATA:TEL:SUMM:ETH:CURR? LINK

Returns the summary of the current status of any errors related to Link.

See Also

* FETCh[1..n]:DATA:TELecom:SUMMary:ETHernet:HISTory?

:FETCh[1..n]:DATA:TELecom:SUMMary:HLPRotocol:HISTory?

Description

This query returns the summary of the history status of any error related to the Higher Layer Protocol (HLP) over Ethernet.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:SUMMary:
HLPRotocol:HISTory?<wsp>ERRor

Parameter(s)

Type:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: ERRor.

Selects Higher Layer Protocol error.

ERRor, selects Error as Higher Layer Protocol error.

Response Syntax

<History>

:FETCh[1..n]:DATA:TELecom:SUMMary:HLPRotocol:HISTory?

Response(s)

History:

The response data syntax for <History> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the summary of the history status of any errors related to Higher Layer Protocol.

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:SUMM:HLPR:HIST? ERR

Returns the summary of the history status of any errors related to Error.

See Also

* FETCh[1..n]:DATA:TELecom:SUMMary:HLPRotocol:CURRent?

:FETCh[1..n]:DATA:TELecom:SUMMary:HLPRotocol:CURRent?

Description

This query returns the summary of the current status of any error related to the Higher Layer Protocol (HLP) over Ethernet.

At *RST, this value is device dependent.

Syntax

:FETCh[1..n]:DATA:TELecom:SUMMary:HLPRotocol:CURRent?<wsp>ERRor

Parameter(s)

Type:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: ERRor.

Selects Higher Layer Protocol error.

ERRor, selects Error as Higher Layer Protocol error.

Response Syntax

<Current>

:FETCh[1..n]:DATA:TELecom:SUMMary:HLPRotocol:CURRent?

Response(s)

Current:

The response data syntax for <Current> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the summary of the current status of any errors related to Higher Layer Protocol.

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)

* FETC:DATA:TEL:SUMM:HLPR:CURR? ERR

Returns the summary of the current status of any errors related to Error.

See Also

* FETCh[1..n]:DATA:TELecom:SUMMary:HLPRotocol:HISTory?

IPTV Command Reference

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:ENCaps?

Description

This query indicates how the stream is transported: IPv4/UDP/MPEG-2 TS, IPv4/UDP/RTP/MPEG-2 TS, or Pending.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:ENCaps?<wsp><Port>, <Stream>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:ENCaps?

Response Syntax <Encap>

Response Encap:

The response data syntax for <Encap> is defined as a <STRING RESPONSE DATA> element.

Example(s) * FETC:DATA:TEL:ETH:IPTV:ENC? 1,"239.1.1.9"
Returns the number of received frames.

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:TTYPe?

Description

This query returns the MPEG-2 transport stream type: SPTS, MPTS, or Pending.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:TTYPe?<wsp><Port>, <Stream>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:TTYPe?

Response Syntax <Type>

Response(s) Type:

The response data syntax for <Type> is defined as a <STRING RESPONSE DATA> element.

Returns the type of the MPEG-2 transport stream: SPTS, MPTS, or Pending.

Example(s) * FETC:DATA:TEL:ETH:IPTV:TTYP? 1,"239.1.1.9"
Returns the type of the MPEG-2 transport stream.

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:VTYPe?

Description

This query returns the detected video stream type: MPEG-2, MPEG-4 Part 2, H.264/MPEG-4 Part 10, VC-1, or Pending.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:VTYPe?<wsp><Port>, <Stream>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:VTYPe?

Response Syntax <Type>

Response(s) Type:

The response data syntax for <Type> is defined as a <STRING RESPONSE DATA> element.

Returns the detected video stream type: MPEG-2, MPEG-4 Part 2, H.264/MPEG-4 Part 10, VC-1, or Pending.

Example(s) * FETC:DATA:TEL:ETH:IPTV:VTYP? 1,"239.1.1.9"
Returns the detected video stream type.

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:DURation:STIMe?

Description

This query returns the time at which the stream monitoring has started.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:DURation:STIMe?<wsp><Port>, <Stream>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:DURation:STIMe?

Response Syntax <TIME>

Response(s) TIME:

The response data syntax for <TIME> is defined as a <STRING RESPONSE DATA> element.

Returns the time at which the stream monitoring has started.

Example(s) * FETC:DATA:TEL:ETH:IPTV:DUR:STIM? 1,"239.1.1.9" Returns the time at which the stream monitoring has started.

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:DURation:ETIMe?

Description

This query returns the number of seconds elapsed since the beginning of the selected stream test.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:DURation:ETIMe?<wsp><Port>, <Stream>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA>element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

Example(s)

* FETC:DATA:TEL:ETH:IPTV:DUR:ETIM? 1,"239.1.1.9" Returns the he number of seconds elapsed since the beginning of the selected stream test.

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:DURation:PTIMe?

Description

This query returns the number of seconds the stream was active during the monitoring period.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:DURation:PTIMe?<wsp><Port>, <Stream>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:DURation:PTIMe?

Response Syntax <TIME>

Response(s) TIME:

The response data syntax for <TIME> is defined as a <STRING RESPONSE DATA> element.

Returns the number of seconds the stream was active during the monitoring period.

Example(s) * FETC:DATA:TEL:ETH:IPTV:DUR:PTIM? 1,"239.1.1.9" Returns the number of seconds the stream was active during the monitoring period.

:FETch[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IPTV?

Description

This query returns the IP address of the device generating the stream.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IPTV?<wsp><Port><Stream>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <<DECIMAL NUMERIC PROGRAM DATA>> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

:FETch[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IPTV?

Response Syntax <Address>

Response(s) Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the IP address of the device generating the stream.

Example(s) * FETC:DATA:TEL:ETH:STR:ADDR:SOUR:IPTV? 1,"239.1.1.9" Returns the P address of the device generating the stream.

:FETch[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IPTV?

Description

This query returns the IP address of the monitored stream.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IPTV?<wsp><Port>,<Stream>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <<DECIMAL NUMERIC PROGRAM DATA>> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

:FETch[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:DESTination:IPTV?

Response Syntax <Address>

Response(s) Address:

The response data syntax for <Address> is defined as a <STRING RESPONSE DATA> element.

Returns the IP address of the monitored stream.

Example(s) * FETC:DATA:TEL:ETH:STR:ADDR:DEST:IPTV? 1, "239.1.1.2" Returns the IP address of the monitored stream.

:FETch[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:PORT?

Description

This query returns the UDP port number that will be used for stream generation.

At *RST, this value is set to 49184.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:PORT?<wsp><Port>, <Stream>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

:FETch[1..n]:DATA:TELecom:ETHernet:STReam:SOURce:PORT?

Response Syntax <Port>

Response(s) Port:

The response data syntax for <Port> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the UDP port number that is used for stream generation.

Example(s) * FETC:DATA:TEL:ETH:STR:SOUR:PORT? 1,"239.1.1.9" Returns the UDP port number

:FETch[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:PORT?

Description

This query returns the UDP port number of the monitored stream.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:PORT?<wsp><Port>, <Stream>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

:FETch[1..n]:DATA:TELecom:ETHernet:STReam:DESTination:PORT?

Response Syntax <Port>

Response(s) Port:

The response data syntax for <Port> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the UDP port number of the monitored stream.

Example(s) * FETC:DATA:TEL:ETH:STR:DEST:PORT? 1,"239.1.1.9" Returns the UDP port number of the monitored stream.

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:AVERage:IP?

Description

This query returns the average IP packet size received during the monitoring period.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:AVERage:IP?<wsp><Port>, <Stream>, RATE|PSIZe

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

Average:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: RATE |PSIZe.

Indicates the average rate and size of the IP packets received during the monitoring period.

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:AVERage:IP?

RATE, indicates the number of megabits received in the last second (Mbps) for the selected stream ID address.

PSIZe, indicates the average IP packet size received during the monitoring period.

Response Syntax

<Average>

Response(s)

Average:

The response data syntax for <Average> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the average IP packet size received during the monitoring period.

Example(s)

* FETC:DATA:TEL:ETH:STR:AVER:IP?1,"239.1.1.9", RATE

Returns the number of megabits received in the last second (Mbps) for the selected stream ID address

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:MINimum:IP?

Description

This query returns the minimum IP packet size received during the monitoring period.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:MINimum:IP?<wsp><Port>, <Stream>, RATE|PSIZe

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

Minimum:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: RATE|PSIZe

Indicates the minimum rate and size of the IP packets received during the monitoring period.

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:MINimum:IP?

RATE, indicates the minimum number of megabits received in the last second (Mbps) for the selected stream ID address.

PSIZe, indicates the minimum IP packet size received during the monitoring period.

Response Syntax

<Minimum>

Response(s)

Minimum:

The response data syntax for <Minimum> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the minimum IP packet size received during the monitoring period.

Example(s)

* FETC:DATA:TEL:ETH:STR:MIN:IP? 1,"239.1.1.9",RATE Returns the minimum number of megabits received in the last second (Mbps) for the selected stream ID address

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:MAXimum:IP?

Description

This query returns the maximum IP packet size received during the monitoring period.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:MAXimum:IP?<wsp><Port>, <Stream>, RATE|PSIZe

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

Maximum:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: RATE|PSIZe

Indicates the maximum rate and size of the IP packets received during the monitoring period.

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:MAXimum:IP?

RATE, indicates the maximum number of megabits received in the last second (Mbps) for the selected stream ID address.

PSIZe, indicates the maximum IP packet size received during the monitoring period.

Response Syntax <Maximum>

Response(s) Maximum:

The response data syntax for <Maximum> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the maximum IP packet size received during the monitoring period.

Example(s) * FETC:DATA:TEL:ETH:STR:MAX:IP?1,"239.1.1.9", RATE Returns the maximum number of megabits received in the last second (Mbps) for the selected stream ID address.

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:RATE:IP?

Description

This query returns the number of megabits received in the last second (Mbps) for the selected stream ID address.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:RATE:IP?<wsp><Port>, <Stream>,

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:RATE:IP?

Response Syntax <Rate>

Response(s) Rate:

The response data syntax for <Rate> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the number of megabits received in the last second (Mbps) for the selected stream ID address.

Example(s) * FETC:DATA:TEL:ETH:STR:RATE:IP? 1,"239.1.1.9"
Returns the number of megabits received in the last second (Mbps) for the selected stream ID address

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:PCOunt:IP?

Description

This query returns the number of IP packets received during the monitoring period excluding packets containing FCS error.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:PCOunt:IP?<wsp><Port>, <Stream>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:PCOunt:IP?

Response Syntax <Pcount>

Response(s) Pcount:

The response data syntax for <Pcount> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the number of IP packets received during the monitoring period excluding packets containing FCS error.

Example(s) * FETC:DATA:TEL:ETH:STR:PCO:IP? 1,"239.1.1.9"
Returns the number of IP packets received during the monitoring period excluding packets containing FCS error.

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:AVERage:MEDia?

Description

This query returns the average number of media bit rate received in the last second (Mbps) for the selected stream.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:AVERage:MEDia?<wsp><Port>, <Stream>, RATE

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

Average:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA>element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is : RATE

Indicates the number of media bit rate received in the last second (Mbps) for the selected stream.

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:AVERage:MEDia?

RATE, indicates the average media bit rate received in the last second (Mbps) for the selected stream.

Response Syntax

<Average>

Response(s)

Average:

The response data syntax for <Average> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the average number of media bit rate received in the last second (Mbps) for the selected stream.

Example(s)

* FETC:DATA:TEL:ETH:IPTV:AVER:MED? 1,"239.1.1.9",RATE Returns the average number of media bit rate received in the last second (Mbps) for the selected stream.

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:MINimum:MEDia?

Description

This query returns the minimum number of media bit rate received in the last second (Mbps) for the selected stream.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:MINimum:MEDia?<wsp><Port>, <Stream>, RATE

Parameter(s)

ort:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

Minimum:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA>element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: RATE.

Indicates the number of media bit rate received in the last second (Mbps) for the selected stream.

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:MINimum:MEDia?

RATE, indicates the minimum media bit rate received in the last second (Mbps) for the selected stream.

Response Syntax

<Minimum>

Response(s)

Minimum:

The response data syntax for <Minimum> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the minimum number of media bit rate received in the last second (Mbps) for the selected stream.

Example(s)

* FETC:DATA:TEL:ETH:IPTV:MIN:MED? 1,"239.1.1.9,RATE Returns the minimum number of media bit rate received in the last second (Mbps) for the selected stream

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:MAXimum:MEDia?

Description

This query returns the maximum number of media bit rate received in the last second (Mbps) for the selected stream.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:MAXimum:MEDia?<wsp><Port>, <Stream>, RATE

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

Maximum:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA>element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: RATE.

Indicates the number of media bit rate received in the last second (Mbps) for the selected stream.

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:MAXimum:MEDia?

RATE, indicates the maximum media bit rate received in the last second (Mbps) for the selected stream.

Response Syntax

<Maximum>

Response(s)

Maximum:

The response data syntax for <Maximum> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the maximum number of media bit rate received in the last second (Mbps) for the selected stream.

Example(s)

* FETC:DATA:TEL:ETH:IPTV:MAX:MED? 1,"239.1.1.9",RATE Returns the maximum number of media bit rate received in the last second (Mbps) for the selected stream

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:RATE:MEDia?

Description

This query returns the number of media bit rate received in the last second (Mbps) for the selected stream.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:RATE:MEDia?<wsp><Port>, <Stream>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:RATE:MEDia?

Response Syntax <Rate>

Response(s) Rate:

The response data syntax for <Rate> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the number of media bit rate received in the last second (Mbps) for the selected stream.

Example(s) * SENS:DATA:TEL:ETH:IPTV:RATE:MED? 1,"239.1.1.9,1 Returns the number of media bit rate received in the last second (Mbps) for the selected stream

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:PCOunt:MEDia?

Description

This query returns the the number of media packets received during the monitoring period.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:PCOunt:MEDia?<wsp><Port>, <Stream>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:PCOunt:MEDia?

Response Syntax <Rate>

Response(s) Rate:

The response data syntax for <Rate> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the the number of media packets received during the monitoring period.

Example(s) * FETC:DATA:TEL:ETH:IPTV:PCO:MED? 1,"239.1.1.9" Returns the the number of media packets received during the monitoring period

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:PLCount:MEDia?

Description

This query returns the number of media packets lost during the monitoring period.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:PLCount:MEDia?<wsp><Port>, <Stream>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:PLCount:MEDia?

Response Syntax <Rate>

Response(s) Rate:

The response data syntax for <Rate> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the number of media packets lost during the monitoring period.

Example(s) * FETC:DATA:TEL:ETH:IPTV:PLC:MED? 1,"239.1.1.9" Returns the number of media packets lost during the monitoring period.

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:BANDwidth?

Description

This query returns the stream bandwidth usage over the link rate.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:BANDwidth?<wsp><Port>, <Stream>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

:FETch[1..n]:DATA:TELecom:ETHernet:IPTV:BANDwidth?

Response Syntax <Bandwidth>

Response(s) Bandwidth:

The response data syntax for <Bandwidth> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the stream bandwidth usage over the link rate.

Example(s) * FETC:DATA:TEL:ETH:IPTV:BAND? 1,"239.1.1.9"
Returns the stream bandwidth usage over the link rate

:SOURce[1..n]:DATA:TELecom:ETHernet:IGMP:JOIN

Description

This command sets the join status for a multicast stream.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:IGMP:JOIN?<wsp><Port>, <Stream>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

Example(s)

* SOUR:DATA:TEL:ETH:IGMP:LEAVE? 1,"239.1.1.9"

:SOURce[1..n]:DATA:TELecom:ETHernet:IGMP:LEAVe

Description

This command issues a leave request for the selected multicast streams and disables the IGMP auto-join function for these streams, when the test is started.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:IGMP:LEAVe<wsp><Port>, <Stream>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

:FETch[1..n]:DATA:TELecom:ETHernet:IGMP:MANagement:Count?

Description

The query returns the number of join requests sent.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:IGMP:MANagement:Count?<wsp><Port>, <Stream>, JREQuest|LREQuest |SQUery

Parameter(s)

ort:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

Result:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA>element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: JREQuest|LREQuest|SQUery.

Indicates the results applied to the selected multicast stream.

:FETch[1..n]:DATA:TELecom:ETHernet:IGMP:MANagement:Count?

JREQuest, indicates the following:

Count, indicates the number of join requests sent.

Successful, indicates the number of streams received before the join timeout expires.

Failed, indicates the number of streams undetected within the join timeout.

LREQuest, Leave Request indicates the number of leave group requests for the selected multicast stream.

SQUery, Specific Query indicates the number of group specific query received.

:FETch[1..n]:DATA:TELecom:ETHernet:IGMP:MANagement:Count?

Response Syntax <Count>

Response(s)

Count:

The response data syntax for <Count> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the number of join requests sent.

JREQuest, returns the following:

Count, returns the number of join requests sent.

Successful, returns the number of streams received before the join timeout expires.

Failed, returns the number of streams undetected within the join timeout.

LREQuest, Leave Request returns the number of leave group requests for the selected multicast stream.

SQUery, Specific Queryreturns the number of group specific query received.

Example(s)

* FETC:DATA:TEL:ETH:IGMP:MAN:COU? 1,"239.1.1.9",JREQuest Returns the number of join requests sent

:FETch[1..n]:DATA:TELecom:ETHernet:IGMP:MANagement:SUCCessful?

Description

This query returns the number of streams received before the join timeout expires.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:IGMP:MANagement:SUCCessful?<wsp><Port><Stream>, JREQuest

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

Result:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA>element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: JREQuest.

Indicates the results applied to the selected multicast stream.

:FETch[1..n]:DATA:TELecom:ETHernet:IGMP:MANagement:SUCCessful?

JREQuest, Join Request indicates the following:

Count, indicates the number of join requests sent.

Successful, indicates the number of streams received before the join timeout expires.

Failed, indicates the number of streams undetected within the join timeout.

Response Syntax

<Successful>

Response(s)

Successful:

The response data syntax for <Successful> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the number of streams received before the join timeout expires.

Example(s)

* FETC:DATA:TEL:ETH:IGMP:MAN:SUCC? 1,"239.1.1.9",JREQuest Returns the number of streams received before the join timeout expires

:FETch[1..n]:DATA:TELecom:ETHernet:IGMP:MANagement:FAILed?

Description

The query returns the number of streams undetected within the join timeout.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:IGMP:MANagement:FAILed?<wsp><Port><Stream>, JREQuest

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

Result:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA>element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: JREQuest.

Indicates the results applied to the selected multicast stream.

:FETch[1..n]:DATA:TELecom:ETHernet:IGMP:MANagement:FAILed?

JREQuest, Join Request indicates the following:

Count, indicates the number of join requests sent.

Successful, indicates the number of streams received before the join timeout expires.

Failed, indicates the number of streams undetected within the join timeout.

Response Syntax

<Failed>

Response(s)

Failed:

The response data syntax for <Failed> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the number of streams undetected within the join timeout.

Example(s)

* FETC:DATA:TEL:ETH:IGMP:MAN:FAIL? 1,"239.1.1.9",JREQuest Returns the number of streams undetected within the join timeout

:FETch[1..n]:DATA:TELecom:ETHernet:IGMP:MULTicast:COUnt?

Description

This query returns the number of multicast streams.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:IGMP:MULTicast:COUnt?<wsp><Port>, <Stream>, GROup

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

The program data syntax for the third parameter is defined as a

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: GROup.

Indicates the Multicast Groups.

GROup, indicates the total number of multicast streams.

:FETch[1..n]:DATA:TELecom:ETHernet:IGMP:MULTicast:COUnt?

Response Syntax <Count>

Response(s) Count:

The response data syntax for <Count> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the number of join requests sent for all monitored multicast streams.

Example(s) * FETC:DATA:TEL:ETH:IGMP:MULT:COU? 1,"239.1.1.9",GROup Returns the number of streams undetected within the join timeout

:FETch[1..n]:DATA:TELecom:ETHernet:IGMP:JSTatus:COUnt?

Description

This query returns the number of join status for a multicast stream .

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:IGMP:JSTatus:COUnt?<wsp><Port>, JOINed | FAILed | JOINing | IDLE

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Result:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: JOINed|FAILed|JOINing|IDLE.

Indicates the join status for a multicast stream only.

Joining, the joining state is reported following a join request until the desired stream is received or the join timeout expires.

:FETch[1..n]:DATA:TELecom:ETHernet:IGMP:JSTatus:COUnt?

Joined, the joined state is reported when the desired stream is received before the join timeout expires.

Failed, the failed state is reported when the stream remains undetected within the join timeout.

Idle, the idle state is reported initially for all multicast streams that are not member of a group and doesn't have the failed status.

Response Syntax <Count>

Response(s) Count:

The response data syntax for <Count> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of join requests sent for all monitored multicast streams.

Example(s) * FETC:DATA:TEL:ETH:IGMP:STAT:COU? 1,JOINed Returns the number of join requests sent for all monitored multicast streams

:FETch[1..n]:DATA:TELecom:ETHernet:IGMP:RESults:COUnt?

Description

The query returns the number of join requests sent for all monitored multicast streams.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:IGMP:RESults:COUnt?<wsp><Port>JREQuest|LREQuest|GQUery

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Result:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: JREQuest|LREQuest|GQUery

Join Request consists of Count, Successful, and Failed options.

Count: Indicates the number of join requests sent for all monitored multicast streams.

Successful: Indicates the number of successful join requests for all monitored multicast streams.

:FETch[1..n]:DATA:TELecom:ETHernet:IGMP:RESults:COUnt?

Failed: Indicates the number of failed join requests for all monitored multicast stream.

Leave Request: Indicates the number of leave request for all monitored multicast stream.

General Query: Indicates the number of general queries received.

Response Syntax

<Count>

Response(s)

Count:

The response data syntax for <Count> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the number of join requests sent for all monitored multicast streams.

Example(s)

* FETC:DATA:TEL:ETH:IGMP:RES:COU? 1,JREQuest Returns the number of join requests sent for all monitored multicast streams

:FETch[1..n]:DATA:TELecom:ETHernet:IGMP:RESults:SUCCessful?

Description

The query returns the number of successful join requests for all monitored multicast streams.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:IGMP:RESults:SUCCessful?<wsp><Port>, JREQuest

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Result:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: JREQuest.

Join Request consists of Count, Successful, and Failed options.

Count, indicates the number of join requests sent for all monitored multicast streams.

Successful, indicates the number of successful join requests for all monitored multicast streams.

Failed, indicates the number of failed join requests for all monitored multicast stream.

:FETch[1..n]:DATA:TELecom:ETHernet:IGMP:RESults:SUCCessful?

Response Syntax <Successful>

Response(s) Successful:

The response data syntax for <Successful> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the number of successful join requests for all monitored multicast streams.

Example(s) * FETC:DATA:TEL:ETH:IGMP:RES:SUCC? 1,JREQuest Returns the number of successful join requests for all monitored multicast streams

:FETch[1..n]:DATA:TELecom:ETHernet:IGMP:RESults:FAILed?

Description

The query returns the number of failed join requests for all monitored multicast stream.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:IGMP:RESults:FAILed?<wsp><Port>, JREQuest

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Result:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: JREQuest.

Join Request consists of Count, Successful, and Failed options.

Count, indicates the number of join requests sent for all monitored multicast streams.

Successful, indicates the number of successful join requests for all monitored multicast streams.

Failed, indicates the number of failed join requests for all monitored multicast stream.

:FETch[1..n]:DATA:TELecom:ETHernet:IGMP:RESults:FAILed?

Response Syntax <Failed>

Response(s) Failed:

The response data syntax for <Failed> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the number of failed join requests for all monitored multicast stream.

Example(s) * FETC:DATA:TEL:ETH:IGMP:RES:FAIL? 1,JREQuest Returns the number of failed join requests for all monitored multicast stream

:SOURce[1..n]:DATA:TELecom:ETHernet:IGMP:VERSion

Description

The command sets the supported IGMP version which is IGMP version 2.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:IGMP:VERSion<wsp><Port>, <config>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Config:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Example(s)

* SOUR:DATA:TEL:ETH:IGMP:VERS 1,2

* SOUR:DATA:TEL:ETH:IGMP:VERS? 1 Returns 2

:SOURce[1..n]:DATA:TELecom:ETHernet:IGMP:VERSion?

Description

The query returns the supported IGMP version which is IGMP version 2.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:IGMP:VERSion?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Config>

Response(s)

Config:

The response data syntax for <Config> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the supported IGMP version which is IGMP version 2.

Example(s)

* SOUR:DATA:TEL:ETH:IGMP:VER 1,2

* SOUR:DATA:TEL:ETH:IGMP:VER? 1 Returns 2

:SOURce[1..n]:DATA:TELecom:ETHernet:IGMP:JTIMeout

Description

This command sets the join timeout period, which is the maximum period for the requested stream to be received before it is declared failed. Choices are 1 to 1000 seconds.

At *RST the default Join Timeout value is 5 seconds.

:SOURce[1..n]:DATA:TELecom:ETHernet:IGMP:JTIMeout

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:IGMP:JTIMeout<wsp><Port>, MAXimum|MINimum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Maxrate:

The program data syntax for the second parameter is defined as a <numeric_value>element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: MAXimum|MINimum.

Indicates the join timeout period.

MAXimum, selects the maximum join timeout period.

MINimum, selects the minimum join timeout period.

Example(s)

* SOUR:DATA:TEL:ETH:IGMP:JTIM 1,2

* SOUR:DATA:TEL:ETH:IGMP:JTIM? 1 Returns 2

:SOURce[1..n]:DATA:TELecom:ETHernet:IGMP:JTIMeout?

Description

This query returns the join timeout period, which is the maximum period for the requested stream to be received before it is declared failed. Choices are 1 to 1000 seconds.

At *RST the default Join Timeout value is 5 seconds.

Syntax

SOURce[1..n]:DATA:TELecom:ETHernet:IGMP:JTIMeout?<wsp><Port>, MAXimum|MINimum

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: MAXimum|MINimum.

Indicates the join timeout period.

MAXimum, selects the maximum join timeout period.

MINimum, selects the minimum join timeout period.

:SOURce[1..n]:DATA:TELecom:ETHernet:IGMP:JTIMeout?

Response Syntax <Time>

Response(s) Time:

The response data syntax for <Time> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the join timeout period, which is the maximum period for the requested stream to be received before it is declared failed.

Example(s) * SOUR:DATA:TEL:ETH:IGMP:JTIM 1,2

* SOUR:DATA:TEL:ETH:IGMP:JTIM? 1 Returns 2

:SOURce[1..n]:DATA:TELecom:ETHernet:IGMP:JSTatus?

Description

This query returns the join status for a multicast stream only.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:IGMP:JSTatus?<wsp><Port>, <Stream>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

Response Syntax

<Status>

Response(s)

Status:

The response data syntax for <Status> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the join status for a multicast stream only.

:SOURce[1..n]:DATA:TELecom:ETHernet:IGMP:AJOin?

Description

This query returns the status of the auto-join capability for a multicast stream.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:IGMP:AJOin?<wsp><Port>, <Stream>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

Response Syntax

<Status>

Response(s)

Status:

The response data syntax for <Status> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the status of the auto-join capability for a multicast stream.

:FETch[1..n]:DATA:TELecom:ETHernet:MDI:HISTory?

Description

This query returns the history status of the Delay Factor and the Media Loss Rate.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:MDI:HISTory?<wsp><Port>, <Stream> DFACtor|MLOSrate

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

MDI:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: DFACtor|MLOSrate.

Indicates the streams, to which the MDI Thresholds are applied.

:FETch[1..n]:DATA:TELecom:ETHernet:MDI:HISTory?

DFACtor, defines the value at which an alarm is declared when crossed. Choices are from 1 to 1000 ms. The default value is 10 ms.

MLOSsrate, defines the value at which an alarm is declared when crossed. Choices are from 0 to 100 pps. The default setting is 0 pps.

Response Syntax

<History>

Response(s)

History:

The response data syntax for <History> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the network induced impairments for IPTV streaming media.

Example(s)

* FETC:DATA:TEL:ETH:MDI:HIST? 1,"239.1.1.9",DFACtor Returns the history status of the value at which an alarm is declared when crossed

:FETch[1..n]:DATA:TELecom:ETHernet:MDI:CURRent?

Description

This query returns the current status of the Delay Factor and the Media Loss Rate.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:MDI:CURRent?<wsp><Port>, <Stream> DFACtor|MLOSrate

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

MDI:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: DFACtor|MLOSrate.

Indicates the streams, to which the MDI Thresholds are applied.

:FETch[1..n]:DATA:TELecom:ETHernet:MDI:CURRent?

DFACtor, defines the value at which an alarm is declared when crossed. Choices are from 1 to 1000 ms. The default value is 10 ms.

MLOSsrate, defines the value at which an alarm is declared when crossed. Choices are from 0 to 100 pps. The default setting is 0 pps.

Response Syntax

<Current>

Response(s)

Current:

The response data syntax for <Current> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the current status of the Delay Factor and the Media Loss Rate.

Example(s)

* FETC:DATA:TEL:ETH:MDI:CURR? 1,"239.1.1.9",DFACtor

Returns the current status of the value at which an alarm is declared when crossed

:FETch[1..n]:DATA:TELecom:ETHernet:MDI:SEConds?

Description

This query returns the number of seconds of the in which the Delay Factor and Media Loss Rate occured.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:MDI:SEConds?<wsp><Port>, <Stream> DFACtor|MLOSrate

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

MDI:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: DFACtor|MLOSrate.

Indicates the streams, to which the MDI Thresholds are applied.

:FETch[1..n]:DATA:TELecom:ETHernet:MDI:SEConds?

DFACtor, defines the value at which an alarm is declared when crossed. Choices are from 1 to 1000 ms. The default value is 10 ms.

MLOSsrate, defines the value at which an alarm is declared when crossed. Choices are from 0 to 100 pps. The default setting is 0 pps.

Response Syntax

<Seconds>

Response(s)

Seconds:

The response data syntax for <Seconds> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of seconds in which the Delay Factor and Media Loss Rate occured.

Example(s)

* FETC:DATA:TEL:ETH:MDI:SEC? 1,"239.1.1.9",DFACtor Returns the seconds status of the value at which an alarm is declared when crossed

:FETch[1..n]:DATA:TELecom:ETHernet:MDI:AVERage?

Description

This query returns the average values for the Delay Factor, Media Loss Rate, and Virtual Buffer Size.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:MDI:AVERage?<wsp><Port>, <Stream> DFACtor|MLOSrate|VBUFfersize

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

MDI:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are:DFACtor|MLOSrate|VBUFfersize.

Indicates the streams, to which the MDI Thresholds are applied.

:FETch[1..n]:DATA:TELecom:ETHernet:MDI:AVERage?

DFACtor, provides a measure of the maximum packet delay variation over a period of 1 second.

MLOSsrate, indicates the count of lost packets in the last second (packets per second) as per RFC 4445, out-of-order and duplicate are considered lost packets.

VBUFfersize, provides a measure of the required buffer size that would be required by a downstream network element to handle the delay variation, in the last second.

Response Syntax

<Average>

Response(s)

Average:

The response data syntax for <Average> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the average number of streams, to which the MDI Thresholds are applied.

Example(s)

* FETC:DATA:TEL:ETH:MDI:AVER? 1,"239.1.19",DFACtor Returns the measure of the average packet delay variation over a period of 1 second

:FETch[1..n]:DATA:TELecom:ETHernet:MDI:MINimum?

Description

This query returns the minimum values for the Delay Factor, Media Loss Rate, and Virtual Buffer Size.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:MDI:MINimum?<wsp><Port>, <Stream> DFACtor|MLOSrate|VBUFfersize

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

MDI:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are:DFACtor|MLOSrate|VBUFfersize.

:FETch[1..n]:DATA:TELecom:ETHernet:MDI:MINimum?

DFACtor, provides a measure of the maximum packet delay variation over a period of 1 second.

MLOSsrate, indicates the count of lost packets in the last second (packets per second) as per RFC 4445, out-of-order and duplicate are considered lost packets.

VBUFfersize, provides a measure of the required buffer size that would be required by a downstream network element to handle the delay variation, in the last second.

Response Syntax

<Minimum>

Response(s)

Minimum:

The response data syntax for <Minimum> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the minimum values for the Delay Factor, Media Loss Rate, and Virtual Buffer Size.

Example(s)

* FETC:DATA:TEL:ETH:MDI:MIN? 1,"239.1.1.9",DFACtor Returns the measure of the minimum packet delay variation over a period of 1 second

:FETch[1..n]:DATA:TELecom:ETHernet:MDI:MAXimum?

Description

This query returns the maximum values for the Delay Factor, Media Loss Rate, and Virtual Buffer Size.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:MDI:MAXimum?<wsp><Port>, <Stream> DFACtor|MLOSrate|VBUFfersize

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

MDI:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are:DFACtor|MLOSrate|VBUFfersize.

:FETch[1..n]:DATA:TELecom:ETHernet:MDI:MAXimum?

DFACtor, provides a measure of the maximum packet delay variation over a period of 1 second.

MLOSsrate, indicates the count of lost packets in the last second (packets per second) as per RFC 4445, out-of-order and duplicate are considered lost packets.

VBUFfersize, provides a measure of the required buffer size that would be required by a downstream network element to handle the delay variation, in the last second.

Response Syntax

<Maximum>

Response(s)

Maximum:

The response data syntax for <Maximum> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the maximum values for the Delay Factor, Media Loss Rate, and Virtual Buffer Size.

Example(s)

* FETC:DATA:TEL:ETH:MDI:MAX? 1,"239.1.1.9",DFACtor Returns the measure of the maximum packet delay variation over a period of 1 second

:FETch[1..n]:DATA:TELecom:ETHernet:MDI:DFACtor?

Description

This query returns the Delay Factor (DF) for the maximum packet delay variation over a period of 1 second.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:MDI:DFACtor?<wsp><Port>, <Stream>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

:FETch[1..n]:DATA:TELecom:ETHernet:MDI:DFACtor?

Response Syntax <Factor>

Response(s) Factor:

The response data syntax for <Factor> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the Delay Factor (DF) for the maximum packet delay variation over a period of 1 second.

Example(s) * FETC:DATA:TEL:ETH:MDI:DFAC? 1,"239.1.1.9"
Returns the Delay Factor (DF) for the maximum packet delay variation over a period of 1 second

:FETch[1..n]:DATA:TELecom:ETHernet:MDI:MLOSs?

Description

This query returns the count of lost packets in the last second (packets per second) as per RFC 4445, out-of-order and duplicate are considered lost packets.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:MDI:MLOSs?<wsp><Port>, <Stream>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

:FETch[1..n]:DATA:TELecom:ETHernet:MDI:MLOSs?

Response Syntax <Factor>

Response(s) Factor:

The response data syntax for <Factor> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the count of lost packets in the last second (packets per second) as per RFC 4445, out-of-order and duplicate are considered lost packets.

Example(s) * FETC:DATA:TEL:ETH:MDI:MLOS? 1,"239.1.1.9"
Returns the count of lost packets in the last second (packets per second) as per RFC 4445, out-of-order and duplicate are considered lost packets

:FETch[1..n]:DATA:TELecom:ETHernet:MDI:VBUFfersize?

Description

This query returns the measure of the required buffer size that would be required by a downstream network element to handle the delay variation, in the last second.

Syntax

FETch[1..n]:DATA:TELecom:ETHernet:MDI:VBUFfersize?<wsp><Port>, <Stream>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

:FETch[1..n]:DATA:TELecom:ETHernet:MDI:VBUFfersize?

Response Syntax <Size>

Response(s) Size:

The response data syntax for <Size> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the measure of the required buffer size that would be required by a downstream network element to handle the delay variation, in the last second.

Example(s) * FETC:DATA:TEL:ETH:MDI:VBUF? 1,"239.1.1.9"
Returns the measure of the required buffer size that would be required by a downstream network element to handle the delay variation, in the last second

:FETch[1..n]:DATA:TELecom:ETHernet:TRI:HISTory?

Description

This query returns the history of the PCR Jitter.

Syntax

FETch[1..n]:DATA:TELecom:ETHernet:TRI:HISTory?<wsp><Port>, <Stream>, PCRJitter

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

TRI:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA>element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: PCRJitter.

PCRJitter, indicates the maximum absolute difference between a known reference and the PCR value decoded from the MPEG-2 Transport Stream packets in the last second.

:FETch[1..n]:DATA:TELecom:ETHernet:TRI:HISTory?

Response Syntax <History>

Response(s) History:

The response data syntax for <History> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the history of the PCR Jitter.

PCRJitter, returns the maximum absolute difference between a known reference and the PCR value decoded from the MPEG-2 Transport Stream packets in the last second.

Example(s) * FETC:DATA:TEL:ETH:TRI:HIST? 1,"239.1.1.9",PCRJitter Returns the history status of the absolute difference between a known reference and the PCR value decoded from the MPEG-2 Transport Stream packets in the last second

:FETch[1..n]:DATA:TELecom:ETHernet:TRI:CURRent?

Description

This query returns the current status of the PCR Jitter.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:TRI:CURRent?<wsp><Port>, <Stream>, PCRJitter

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

TRI:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA>element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: PCRJitter.

PCRJitter, indicates the maximum absolute difference between a known reference and the PCR value decoded from the MPEG-2 Transport Stream packets in the last second.

:FETch[1..n]:DATA:TELecom:ETHernet:TRI:CURRent?

Response Syntax <Current>

Response(s) Current:

The response data syntax for <Current> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the current status of the PCR Jitter.

PCRJitter, returns the maximum absolute difference between a known reference and the PCR value decoded from the MPEG-2 Transport Stream packets in the last second.

Example(s) * FETC:DATA:TEL:ETH:TRI:CURR? 1,"239.1.1.9",PCRJitter Returns the current status of the absolute difference between a known reference and the PCR value decoded from the MPEG-2 Transport Stream packets in the last second

:FETch[1..n]:DATA:TELecom:ETHernet:TRI:SEConds?

Description

This query returns the absolute difference between a known reference and the PCR value decoded from the MPEG-2 Transport Stream packets in the last second.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:TRI:SEConds?<wsp><Port>, <Stream>, PCRJitter

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

TRI:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA>element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: PCRJitter.

PCRJitter, indicates the maximum absolute difference between a known reference and the PCR value decoded from the MPEG-2 Transport Stream packets in the last second.

:FETch[1..n]:DATA:TELecom:ETHernet:TRI:SEConds?

Response Syntax <Seconds>

Response(s) Seconds:

The response data syntax for <Seconds> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of seconds of the absolute difference between a known reference and the PCR value decoded from the MPEG-2 Transport Stream packets in the last second.

Example(s) * FETC:DATA:TEL:ETH:TRI:SEC? 1,"239.1.1.9",PCRJitter Returns the number of seconds of the absolute difference between a known reference and the PCR value decoded from the MPEG-2 Transport Stream packets in the last second.

:FETch[1..n]:DATA:TELecom:ETHernet:TRI:AVERage?

Description

This query returns the average value for the difference between a known reference and the PCR value decoded from the MPEG-2 Transport Stream packets in the last second.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:TRI:AVERage?<wsp><Port>, <Stream>, PCRJitter

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

TRI:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA>element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: PCRJitter.

PCRJitter, indicates the average absolute difference between a known reference and the PCR value decoded from the MPEG-2 Transport Stream packets in the last second.

:FETch[1..n]:DATA:TELecom:ETHernet:TRI:AVERage?

Response Syntax <Average>

Response(s) Average:

The response data syntax for <Average> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the average value for the difference between a known reference and the PCR value decoded from the MPEG-2 Transport Stream packets in the last second.

Example(s) * FETC:DATA:TEL:ETH:TRI:AVER? 1,"239.1.1.9", PCRJitter

Returns the average value for the difference between a known reference and the PCR value decoded from the MPEG-2 Transport Stream packets in the last second

:FETch[1..n]:DATA:TELecom:ETHernet:TRI:MINimum?

Description

This query returns the minimum value for the difference between a known reference and the PCR value decoded from the MPEG-2 Transport Stream packets in the last second.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:TRI:MINimum?<wsp><Port>, <Stream>, PCRJitter

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

TRI:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA>element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: PCRJitter.

PCRJitter, indicates the minimum absolute difference between a known reference and the PCR value decoded from the MPEG-2 Transport Stream packets in the last second.

:FETch[1..n]:DATA:TELecom:ETHernet:TRI:MINimum?

Response Syntax <Minimum>

Response(s) Minimum:

The response data syntax for <Minimum> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the minimum value for the difference between a known reference and the PCR value decoded from the MPEG-2 Transport Stream packets in the last second.

Example(s) * FETC:DATA:TEL:ETH:TRI:MIN? 1,"239.1.1.9", PCRJitter

Returns the minimum value for the difference between a known reference and the PCR value decoded from the MPEG-2 Transport Stream packets in the last second

:FETch[1..n]:DATA:TELecom:ETHernet:TRI:MAXimum?

Description

This query returns the maximum value for the difference between a known reference and the PCR value decoded from the MPEG-2 Transport Stream packets in the last second.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:TRI:MAXimum?<wsp><Port>, <Stream>, PCRJitter

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

TRI:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA>element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: PCRJitter.

:FETch[1..n]:DATA:TELecom:ETHernet:TRI:MAXimum?

PCRJitter, indicates the maximum absolute difference between a known reference and the PCR value decoded from the MPEG-2 Transport Stream packets in the last second.

Response Syntax

<Maximum>

Response(s)

Maximum:

The response data syntax for <Maximum> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the maximum value for the difference between a known reference and the PCR value decoded from the MPEG-2 Transport Stream packets in the last second.

Example(s)

* FETC:DATA:TEL:ETH:TRI:MAX? 1,"239.1.1.9", PCRJitter

Returns the maximum value for the difference between a known reference and the PCR value decoded from the MPEG-2 Transport Stream packets in the last second

:FETch[1..n]:DATA:TELecom:ETHernet:TRI:PJITter?

Description

The query returns the absolute difference between a known reference and the PCR value decoded from the MPEG-2 Transport Stream packets in the last second.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:TRI:PJITter?<wsp><Port>, <Stream>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

:FETch[1..n]:DATA:TELecom:ETHernet:TRI:PJITter?

Response Syntax <Jitter>

Response(s) Jitter:

The response data syntax for <Jitter> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the absolute difference between a known reference and the PCR value decoded from the MPEG-2 Transport Stream packets in the last second.

Example(s) * FETC:DATA:TEL:ETH:TRI:PJIT? 1,"239.1.1.9"
Returns the absolute difference between a known reference and the PCR value decoded from the MPEG-2 Transport Stream packets in the last second

:FETch[1..n]:DATA:TELecom:ETHernet:PRIority:HISTory?

Description

This query returns the history of the Priority 1 metrics.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:PRIority:HISTory?<wsp><Port>, <Stream>TSYNcloss|SBYTerror|PATERROR2|CCERror|PMTERROR2|PERRorvideo|PERRoraudio

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

Priority:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA>element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: TSYNcloss|SBYTerror|PATERROR2|CCERror|PMTERROR2|PERRorvideo|PERRoraudio.

:FETch[1..n]:DATA:TELecom:ETHernet:PRIority:HISTory?

Indicates the Digital Video Broadcast (DVB) measurements defined to monitor the basic parameters accessible in the TS packet header.

TSSyncLoss, indicates that at least 2 consecutive synchronization bytes received in the last second are corrupted in the MPEG-2 TS stream.

SBYTerror, indicates the number of synchronization bytes in error while the synchronization is maintained for a MPEG-2 TS composed of 188 bytes packets.

PATERROR2, indicates that any of the following conditions appear during a 1 second interval for a stream:

Section(s) with table_id other than 0x00 found on PID 0x0000.

Scrambling_control_field is not 00 for PID 0x0000.

Sections with table_id 0x00 do not occur for the user defined period (See TR 101 290 Threshold) on PID 0x0000

CCERror, indicates the number of continuity error experienced for all monitored PIDs when packets are received.

PMTERROR2, indicates that any of the following conditions appear during a 1 second interval for a stream:

Scrambling_control_field is not 00 for all packets containing information of sections with table_id 0x02 on each program_map_PID which is referred to in the PAT.

:FETch[1..n]:DATA:TELecom:ETHernet:PRIority:HISTory?

Sections with table_id 0x02 do not occur for the user defined period (See TR 101 290 Threshold) on each program_map_PID which is referred to in the PMT.

PERRorvideo, indicates that PID in a video stream is not received for a user defined period. Supported video stream types detected are MPEG-2, MPEG-4 Part 2, H.264/MPEG-4 Part 10, and VC-1

Response Syntax

<History>

Response(s)

History:

The response data syntax for <History> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the history of the Priority 1 metrics.

Absent, indicates that the Priority 1 metrcs is not set.

Present, indicates that the Priority 1 metrcs is set.

Inactive, indicates that the Priority 1 metrcs is inactive.

Example(s)

* FETC:DATA:TEL:ETH:PRI:HIST? 1,"239.1.1.9",CCERror Returns the history status of the number of continuity error experienced for all monitored PIDs when packets are received

:FETch[1..n]:DATA:TELecom:ETHernet:PRIority:CURRent?

Description

This query returns the current status of the Priority 1 metrics.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:PRIority:CURRent?<wsp><Port>, <Stream>TSYNcloss|SBYTerror|PATERROR2|CCERror|PMTERROR2|PERRorvideo|PERRoraudio

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

Priority:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA>element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: TSYNcloss|SBYTerror|PATERROR2|CCERror|PMTERROR2|PERRorvideo|PERRoraudio.

:FETch[1..n]:DATA:TELecom:ETHernet:PRIority:CURRent?

Indicates the Digital Video Broadcast (DVB) measurements defined to monitor the basic parameters accessible in the TS packet header.

TSSyncLoss, indicates that at least 2 consecutive synchronization bytes received in the last second are corrupted in the MPEG-2 TS stream.

SBYTerror, indicates the number of synchronization bytes in error while the synchronization is maintained for a MPEG-2 TS composed of 188 bytes packets.

PATERROR2, indicates that any of the following conditions appear during a 1 second interval for a stream:

Section(s) with table_id other than 0x00 found on PID 0x0000.

Scrambling_control_field is not 00 for PID 0x0000.

Sections with table_id 0x00 do not occur for the user defined period (See TR 101 290 Threshold) on PID 0x0000

CCERror, indicates the number of continuity error experienced for all monitored PIDs when packets are received.

PMTERROR2, indicates that any of the following conditions appear during a 1 second interval for a stream:

Scrambling_control_field is not 00 for all packets containing information of sections with table_id 0x02 on each program_map_PID which is referred to in the PAT.

:FETch[1..n]:DATA:TELecom:ETHernet:PRIority:CURRent?

Sections with table_id 0x02 do not occur for the user defined period (See TR 101 290 Threshold) on each program_map_PID which is referred to in the PMT.

PERRorvideo, indicates that PID in a video stream is not received for a user defined period. Supported video stream types detected are MPEG-2, MPEG-4 Part 2, H.264/MPEG-4 Part 10, and VC-1.

PERRoraudio, indicates that PID in an audio stream is not received for a user defined period. Supported audio stream types detected are MPEG-1, MPEG-2, MPEG-2 AAC, AC3, and MPEG-4 AAC.

:FETch[1..n]:DATA:TELecom:ETHernet:PRIority:CURRent?

Response Syntax <Current>

Response(s) Current:

The response data syntax for <Current> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the current status of the Priority 1 metrics.

Absent, indicates that the Priority 1 metrcs is not set.

Present, indicates that the Priority 1 metrcs is set.

Inactive, indicates that the Priority 1 metrcs is inactive.

Example(s) * FETC:DATA:TEL:ETH:PRI:CURR? 1,"239.1.1.9",CCERror Returns the current status of the number of continuity error experienced for all monitored PIDs when packets are received

:FETch[1..n]:DATA:TELecom:ETHernet:PRIority:SEConds?

Description

This query returns the seconds status (number of seconds taken) of the Priority 1 metrics.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:PRIority:SEConds?<wsp><Port>, <Stream>TSYNcloss|SBYTerror|PATERROR2|CCERror|PMTERROR2|PERRorvideo|PERRoraudio

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

Priority:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA>element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: TSYNcloss|SBYTerror|PATERROR2|CCERror|PMTERROR2|PERRorvideo|PERRoraudio.

:FETch[1..n]:DATA:TELecom:ETHernet:PRIority:SEConds?

Indicates the Digital Video Broadcast (DVB) measurements defined to monitor the basic parameters accessible in the TS packet header.

TSSyncLoss, indicates that at least 2 consecutive synchronization bytes received in the last second are corrupted in the MPEG-2 TS stream.

SBYTerror, indicates the number of synchronization bytes in error while the synchronization is maintained for a MPEG-2 TS composed of 188 bytes packets.

PATERROR2, indicates that any of the following conditions appear during a 1 second interval for a stream:

Section(s) with table_id other than 0x00 found on PID 0x0000.

Scrambling_control_field is not 00 for PID 0x0000.

Sections with table_id 0x00 do not occur for the user defined period (See TR 101 290 Threshold) on PID 0x0000

CCERror, indicates the number of continuity error experienced for all monitored PIDs when packets are received.

PMTERROR2, indicates that any of the following conditions appear during a 1 second interval for a stream:

Scrambling_control_field is not 00 for all packets containing information of sections with table_id 0x02 on each program_map_PID which is referred to in the PAT.

:FETch[1..n]:DATA:TELecom:ETHernet:PRIority:SEConds?

Sections with table_id 0x02 do not occur for the user defined period (See TR 101 290 Threshold) on each program_map_PID which is referred to in the PMT.

PERRorvideo, indicates that PID in a video stream is not received for a user defined period. Supported video stream types detected are MPEG-2, MPEG-4 Part 2, H.264/MPEG-4 Part 10, and VC-1

PERRoraudio, indicates that PID in an audio stream is not received for a user defined period. Supported audio stream types detected are MPEG-1, MPEG-2, MPEG-2 AAC, AC3, and MPEG-4 AAC.

Response Syntax

<Seconds>

Response(s)

Seconds:

The response data syntax for <Seconds> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the seconds status (number of seconds taken) of the Priority 1 metrics.

Example(s)

* FETC:DATA:TEL:ETH:PRI:SEC? 1,"239.1.9",CCERror returns the number ofseconds of continuity error experienced for all monitored PIDs when packets are received

:FETch[1..n]:DATA:TELecom:ETHernet:PRIority:COUNT?

Description

This query returns the count status of the Priority 1 metrics.

Syntax

:FETch[1..n]:DATA:TELecom:ETHernet:PRIority:COUNT?<wsp>SBYTerror|CCERror

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

Priority:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA>element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: SBYTerror|CCERror.

Indicates the Digital Video Broadcast (DVB) measurements defined to monitor the basic parameters accessible in the TS packet header.

:FETch[1..n]:DATA:TELecom:ETHernet:PRIority:COUNT?

SBYTerror, indicates the number of synchronization bytes in error while the synchronization is maintained for a MPEG-2 TS composed of 188 bytes packets.

CCERror, indicates the number of continuity error experienced for all monitored PIDs when packets are received.

Response Syntax

<Count>

Response(s)

Count:

The response data syntax for <Seconds> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the count of the Priority 1 metrics.

Example(s)

* FETC:DATA:TEL:ETH:PRI:COU?
1,"239.1.1.9",CCERror

Returns the count of the Priority 1 metrics.

:SOURce[1..n]:DATA:TELecom:ETHernet:MDI:THReshold

Description

This command defines the value at which an alarm is declared, when crossed. Choices are from 1 to 1000 ms.

At *RST the value is set to 10 ms.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:MDI:THReshold<wsp><port>, DFACtor|MLOSsrate

:SOURce[1..n]:DATA:TELecom:ETHernet:MDI:THReshold

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

MDI:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA>element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: DFACtor|MLOSsrate.

Indicates the streams, to which the MDI Thresholds are applied.

DFACtor, defines the value at which an alarm is declared when crossed. Choices are from 1 to 1000 ms. The default value is 10 ms.

MLOSsrate, defines the value at which an alarm is declared when crossed. Choices are from 0 to 100 pps. The default setting is 0 pps.

Example(s)

SOUR:DATA:TEL:ETH:MDI:THR 1,DFAC,ON

SOUR:DATA:TEL:ETH:MDI:THR? 1,DFAC Returns 1

:SOURce[1..n]:DATA:TELecom:ETHernet:MDI:THReshold?

Description

This query returns the value at which an alarm is declared, when crossed. Choices are from 1 to 1000 ms.

At *RST the value is set to 10 ms.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:MDI:THReshold<wsp><Port>, DFACtor|MLOSsrate

:SOURce[1..n]:DATA:TELecom:ETHernet:MDI:THReshold?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

MDI:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA>element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: DFACtor|MLOSsrate.

Indicates the streams, to which the MDI Thresholds are applied.

DFACtor, defines the value at which an alarm is declared when crossed. Choices are from 1 to 1000 ms. The default value is 10 ms.

MLOSsrate, defines the value at which an alarm is declared when crossed. Choices are from 0 to 100 pps. The default setting is 0 pps.

:SOURce[1..n]:DATA:TELecom:ETHernet:MDI:THReshold?

Response Syntax <Status>

Response(s) Status:

The response data syntax for <Status> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the value at which an alarm is declared, when crossed.

Example(s) * SOUR:DATA:TEL:ETH:MDI:THR 1,DFAC,ON

* SOUR:DATA:TEL:ETH:MDI:THR? 1,DFAC
Returns 1

:SOURce[1..n]:DATA:TELecom:ETHernet:MDI:THReshold:Value

Description This command applies the Delay Factor and Media loss Rate to all the streams.

:SOURce[1..n]:DATA:TELecom:ETHernet:MDI:THReshold:Value

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:MDI:THReshold:Value<wsp><Port>,DFACtor|MLOSsrate

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

MDI:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA>element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: DFACtor|MLOSsrate.

Indicates the streams, to which the MDI Thresholds are applied.

DFACtor, defines the value at which an alarm is declared when crossed. Choices are from 1 to 1000 ms. The default value is 10 ms.

MLOSsrate, defines the value at which an alarm is declared when crossed. Choices are from 0 to 100 pps. The default setting is 0 pps.

Example(s)

* SOUR:DATA:TEL:ETH:MDI:THR:VAL 1,DFAC,10

* SOUR:DATA:TEL:ETH:MDI:THR:VAL? 1,DFAC
Returns 10

:SOURce[1..n]:DATA:TELecom:ETHernet:MDI:THReshold:Value?

Description

This query returns the value at which an alarm is declared when crossed. Choices are from 1 to 1000 ms.

AT *RST the value is set to 10 ms.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:MDI:THReshold:Value<wsp><Port>,DFACtor|MLOSsrate

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

MDI:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA>element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: DFACtor|MLOSsrate.

Indicates the streams, to which the MDI Thresholds are applied.

:SOURce[1..n]:DATA:TELecom:ETHernet:MDI:THReshold:Value?

DFACtor, defines the value at which an alarm is declared when crossed. Choices are from 1 to 1000 ms. The default value is 10 ms.

MLOSsrate, defines the value at which an alarm is declared when crossed. Choices are from 0 to 100 pps. The default setting is 0 pps.

Response Syntax <Values>

Response(s) Values:

The response data syntax for <Values> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the Delay Factor and Media loss Rate parameter values of all the streams.

Example(s) * SOUR:DATA:TEL:ETH:MDI:THR:VAL 1,DFAC,10

* SOUR:DATA:TEL:ETH:MDI:THR:VAL? 1,DFAC
Returns 10

:SOURce[1..n]:DATA:TELecom:ETHernet:TRI:THReshold?

Description

This query returns the PCR Jitter (ms), PAT Error2 (s), PMT Error2 (s), PID Error (s) parameter values of all the streams.

Syntax

SOURce[1..n]:DATA:TELecom:ETHernet:TRI:THReshold<wsp><Port>, PCRJitter|PATERROR2|PMTERROR2|PIDerror

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

TRI:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA>element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: PCRJitter|PATERROR2|PMTERROR2|PIDerror.

Indicates the TR 101 290 Threshold parameters that apply to all streams.

PCR Jitter (ms), defines the value at which an alarm is declared when crossed. Choices are from 1 to 1000 ms. The default setting is 10 ms. The PCR Jitter (ms) check box is selected by default.

:SOURce[1..n]:DATA:TELecom:ETHernet:TRI:THReshold?

PAT Error2 (s), defines the value at which an alarm is declared when crossed. Choices are from 0.1 to 5.0s. The default setting is 0.5s. The PAT Error2 (s) check box is selected by default.

PMT Error2 (s), defines the value at which an alarm is declared when crossed. Choices are from 0.1 to 5.0s. The default setting is 0.5s. The PMT Error2 (s) check box is selected by default.

PID Error (s), defines the value at which an alarm is declared when crossed. Choices are from 0.1 to 5.0 seconds. The default setting is 1.0 s. The PID Erros (s) check box is selected by default.

Response Syntax

<Status>

Response(s)

Status:

The response data syntax for <Status> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the PCR Jitter (ms), PAT Error2 (s), PMT Error2 (s), PID Error (s) parameter values of all the streams.

Example(s)

* SOUR:DATA:TEL:ETH:MDI:THR 1,PDI,ON

* SOUR:DATA:TEL:ETH:MDI:THR? 1,PDI Returns 1

:SOURce[1..n]:DATA:TELecom:ETHernet:TRI:THReshold:Value

Description

This command indicates the value at which an alarm is declared when crossed. Choices are from 0.1 to 5.0s.

At *RST the value is set to 0.5s.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:TRI:THReshold:Value<wsp><Port>, PCRJitter|PATERROR2|PMTERROR2|PIDerror

:SOURce[1..n]:DATA:TELecom:ETHernet:TRI:THReshold:Value

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

MDI:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: PCRJitter|PATERROR2|PMTERROR2|PIDerror

Indicates the TR 101 290 Threshold parameters that apply to all streams.

PCR Jitter (ms): Defines the value at which an alarm is declared when crossed. Choices are from 1 to 1000 ms.

PAT Error2 (s): Defines the value at which an alarm is declared when crossed. Choices are from 0.1 to 5.0s.

PMT Error2 (s): Defines the value at which an alarm is declared when crossed. Choices are from 0.1 to 5.0s.

PID Error (s): Defines the value at which an alarm is declared when crossed. Choices are from 0.1 to 5.0 seconds.

:SOURce[1..n]:DATA:TELecom:ETHernet:TRI:THReshold:Value

Threshold:

The program data syntax for the third parameter is defined as a <numeric_value> element.

Indicates the TRI Threshold values for PCR Jitter (ms), PAT Error2 (s), PMT Error2 (s), and PID Error (s).

MAXimum, indicates the maximum TRI Threshold values for PCR Jitter (ms), PAT Error2 (s), PMT Error2 (s), and PID Error (s).

MINimum, indicates the minimum TRI Threshold values for PCR Jitter (ms), PAT Error2 (s), PMT Error2 (s), and PID Error (s).

Example(s)

* SOUR:DATA:TEL:ETH:MDI:THR:VAL 1,DFAC,MAX

* SOUR:DATA:TEL:ETH:MDI:THR:VAL? 1,DFAC Returns the max value*

:SOURce[1..n]:DATA:TELecom:ETHernet:TRI:THReshold:Value?

Description

This query returns the value at which an alarm is declared when crossed. Choices are from 0.1 to 5.0s.

At *RST the value is set to 0.5s.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:TRI:THReshold:Value?<wsp><Port>, <Stream>, PCRJitter|PATERROR2|PMTERROR2|PIDerror

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

MDI:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: PCRJitter|PATERROR2|PMTERROR2|PIDerror

Indicates the TR 101 290 Threshold parameters that apply to all streams.

PCR Jitter (ms): Defines the value at which an alarm is declared when crossed. Choices are from 1 to 1000 ms.

:SOURce[1..n]:DATA:TELecom:ETHernet:TRI:THReshold:Value?

PAT Error2 (s): Defines the value at which an alarm is declared when crossed. Choices are from 0.1 to 5.0s.

PMT Error2 (s): Defines the value at which an alarm is declared when crossed. Choices are from 0.1 to 5.0s.

PID Error (s): Defines the value at which an alarm is declared when crossed. Choices are from 0.1 to 5.0 seconds.

Response Syntax

<Values>

Response(s)

Values:

The response data syntax for <Values> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the PCR Jitter (ms), PAT Error2 (s), PMT Error2 (s), PID Error (s) parameter values of all the streams.

Example(s)

* SOUR:DATA:TEL:ETH:MDI:THR:VAL 1,DFAC,MAX

* SOUR:DATA:TEL:ETH:MDI:THR:VAL? 1,DFAC
Returns the max value

:SOURce[1..n]:DATA:TELecom:ETHernet:IPTV:OVERview:ADD:ADDRess:DESTination:IP

Description

This command allows you to add a destination IP address associated to the monitored stream.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:IPTV:OVERview:ADD:ADDRess:DESTination:IP<wsp><Port>, <Stream>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

Example(s)

* SOUR:DATA:TEL:ETH:IPTV:OVER:ADD:DEST:IP 1,"239.1.1.9"

:SOURce[1..n]:DATA:TELecom:ETHernet:IPTV:OVERview:DELete:ADDRess:DESTination:IP

Description

This command allows you to delete the destination IP address associated to the monitored stream.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:IPTV:OVERview:DELete:ADDRess:DESTination:IP <wsp><Port>, <Stream>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Stream:

The program data syntax for the second parameter is defined as a <STRING PROGRAM DATA> element.

Example(s)

* SOUR:DATA:TEL:ETH:IPTV:OVER:DEL:DEST:IP 1,"239.1.1.9"

:FETCh[1..n]:DATA:TELecom:ETHernet:IPTV:DISCovered:LIST?

Description

This query returns the discovered streams list.

Syntax

:FETCh[1..n]:DATA:TELecom:ETHernet:IPTV:DISCovered:LIST?<wsp><Port>

Parameter(s)

<Port>

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<List>

Response(s)

List:

The response data syntax for <List> is defined as a <STRING RESPONSE DATA> element.

Returns the list of discovered streams.

Example(s)

* FETC:DATA:TEL:ETH:IPTV:DISC:LIST? 1

Returns the list of discovered streams

:SOURce[1..n]:DATA:TELecom:ETHernet:IPTV:AUTO:DISCoverey

Description

This command scans the network test point to automatically identify IPTV and/or VoD streams that conform to the MPEG-2 transport stream format.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:IPTV:AUTO:DISCoverey<wsp><Port>, <Set>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Set:

The program data syntax for the sexcond parameter is defined as a <BOLEAN PROGRAM DATA> element.

Example(s)

* SOUR:DATA:TEL:ETH:IPTV:AUTO:DISC 1,ON

* SOUR:DATA:TEL:ETH:IPTV:AUTO:DISC? 1

:SOURce[1..n]:DATA:TELecom:ETHernet:IPTV:AUTO:DISCoverey?

Description

This query returns the number of IPTV and/or VoD streams that conform to the MPEG-2 transport stream format.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:IPTV:AUTO:DISCoverey<wsp><Port>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Status>

Response(s)

Status:

The response data syntax for <Status> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

This query returns the number of IPTV and/or VoD streams that conform to the MPEG-2 transport stream format.

Example(s)

* SOUR:DATA:TEL:ETH:IPTV:AUTO:DISC 1,ON

* SOUR:DATA:TEL:ETH:IPTV:AUTO:DISC? 1

:SOURce[1..n]:DATA:TELecom:ETHernet:IPTV:DISCoverey:CLISt

Description	This command resets the list of discovered streams.
Syntax	:SOURce[1..n]:DATA:TELecom:ETHernet:IPTV:DISCoverey:CLISt<wsp>
Parameter(s)	None
Example(s)	SOUR:DATA:TEL:ETH:IPTV:DISC:CLIS

:SOURce[1..n]:DATA:TELecom:ETHernet:IPTV:DISCoverey:HMStreams

Description

This command filters out all the monitored streams from the discovered stream list.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:IPTV:DISCoverey:HMStreams<wsp><Port>, <SET>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

SET:

The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.

Filters the number of the filtered monitored streams from the discovered stream list.

Example(s)

* :SOURce[1..n]:DATA:TELecom:ETHernet:IPTV:DISCoverey 1, ON

* :SOURce[1..n]:DATA:TELecom:ETHernet:IPTV:DISCoverey 1 Returns 1

See Also

:SOURce[1..n]:DATA:TELecom:ETHernet:IPTV:DISCoverey:HMStreams?

:SOURce[1..n]:DATA:TELecom:ETHernet:IPTV:DISCoverey:HMStreams?

Description

This query returns the number of the filtered monitored streams from the discovered stream list.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:IPTV:DISCoverey:HMStreams<wsp><Port>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:IPTV:DISCoverey:HMStreams?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of the filtered monitored streams from the discovered stream list.

Example(s)

* :SOURce[1..n]:DATA:TELecom:ETHernet:IPTV:DISCoverey 1, ON

* :SOURce[1..n]:DATA:TELecom:ETHernet:IPTV:DISCoverey 1 Returns 1

See Also

:SOURce[1..n]:DATA:TELecom:ETHernet:IPTV:DISCoverey:HMStreams

:SOURce[1..n]:DATA:TELecom:ETHernet:IPTV:AUTO:ADD

Description

This command automatically adds all active streams present in the discovered list to the stream monitoring list.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:IPTV:AUTO:ADD<wsp><Port>, OFF|ON|IGMPajoin

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

ADD:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: OFF|ON|IGMPajoin.

Automatically adds all active streams present in the discovered list to the stream monitoring list.

OFF, disables the Auto-Add stream.

ON, enables the Auto-Add to automatically add all the active streams.

:SOURce[1..n]:DATA:TELecom:ETHernet:IPTV:AUTO:ADD

IGMPajoin, enables the Auto-Add and to automatically issue a join request once the stream is added. This option should not be selected when connected to a SPAN or TAP port as no transmission to the network can be initiated through these type of ports.

Example(s)

* SOUR:DATA:TEL:ETH:IPTV:AUTO:ADD 1,OFF

* SOUR:DATA:TEL:ETH:IPTV:AUTO:ADD? 1, Returns 0

:SOURce[1..n]:DATA:TELecom:ETHernet:IPTV:AUTO:ADD?

Description

This query returns the list of all active streams present in the discovered list to the stream monitoring list.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:IPTV:AUTO:ADD<wsp><Port>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Status>

Response(s)

Status:

The response data syntax for <Status> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the list of all active streams present in the discovered list to the stream monitoring list.

Example(s)

* SOUR:DATA:TEL:ETH:IPTV:AUTO:ADD 1,OFF

* SOUR:DATA:TEL:ETH:IPTV:AUTO:ADD? 1,
Returns 0

Ping Command Reference

:SOURce[1..n]:DATA:TELecom:PING:SETup:IPADdress

Description

This command allows you to enter the IP address of the network device to be detected.

Syntax

:SOURce[1..n]:DATA:TELecom:PING:SETup:IPADdress<wsp><Port>, <Address>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA>element.

Selects the port number 1 or 2.

ADDress:

The program data syntax for the parameter is defined as a <STRING PROGRAM DATA>element.

Selects the IP address of the network device to be detected.

Example(s)

* SOUR:DATA:TEL:PING:SET:IPAD 1,"10.10.0.0"

* SOUR:DATA:TEL:PING:SET:IPAD? 1 Returns "10.10.0.0"

See Also

* LINS32:SOURce:DATA:TELecom:PING:SETup:IPADdress?

:SOURce[1..n]:DATA:TELecom:PING:SETup:IPADdress?

Description This query returns the IP address of the network device to be detected.

Syntax :SOURce[1..n]:DATA:TELecom:PING:SETup:IPADdress?<wsp><Port>

Parameter(s) Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA>element.

Selects the port number 1 or 2.

Response Syntax <IP>

:SOURce[1..n]:DATA:TELecom:PING:SETup:IPADdress?

Response(s)

IP:

The response data syntax for <IP> is defined as a <STRING RESPONSE DATA> element.

Returns the IP address of the network device to be detected.

Example(s)

* SOUR:DATA:TEL:PING:SET:IPAD 1,"10.10.0.0"

* SOUR:DATA:TEL:PING:SET:IPAD? 1 Returns "10.10.0.0"

Returns the IP address of the network device to be detected.

See Also

* LINS32:SOURce:DATA:TELecom:PING:SETup:IPADdress

:SOURce[1..n]:DATA:TELecom:PING:SETup:RUN

Description

This command allows you to run the Ping command.

Syntax

:SOURce[1..n]:DATA:TELecom:PING:SETup:RUN <wsp><Port>, <SET>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA>element.

Selects the port number 1 or 2.

SET:

The program data syntax for the parameter is defined as a <BOOLEAN PROGRAM DATA> element.

Starts the Ping command.

Example(s)

* SOUR:DATA:TEL:PING:SET:RUN 1, On

* SOUR:DATA:TEL:PING:SET:RUN? 1 Returns 1

See Also

* LINS32:SOURce:DATA:TELecom:PING:SETup:RUN?

:SOURce[1..n]:DATA:TELecom:PING:SETup:RUN?

Description This query returns the Ping status.

Syntax :SOURce[1..n]:DATA:TELecom:PING:SETup:RUN?<wsp><Port>

Parameter(s) Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA>element.

Selects the port number 1 or 2.

Response Syntax <Status>

:SOURce[1..n]:DATA:TELecom:PING:SETup:RUN?

Response(s)	Status: The response data syntax for <Status> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Ping status.
Example(s)	* SOUR:DATA:TEL:PING:SET:RUN 1, On * SOUR:DATA:TEL:PING:SET:RUN? 1 Returns 1 Returns the Ping status.
See Also	* LINS32:SOURce:DATA:TELecom:PING:SETup:RUN

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration: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 the default value is set to 4000 ms.

Syntax

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration: TOUT<wsp><Port>, MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration:TOUT

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA>element.

Selects the port number 1 or 2.

TOUT:

The program data syntax for the parameter is defined as a <numeric_value> element.

The allowed <numeric_value> element for this parameter are: MAXimum|MINimum.

Selects the maximum and the minimum time allowed between an ICMP echo and response.

MAXimum, selects the maximum time allowed between an ICMP echo and response.

MINimum, selects the minimum time allowed between an ICMP echo and response.

Example(s)

* SOUR:DATA:TEL:PING:CONF:TOUT 1,10000

* SOUR:DATA:TEL:PING:CONF:TOUT? 1 Returns 10000

See Also

* LINS32:SOURce:DATA:TELecom:PING: CONFiguration:TOUT?

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration:TOUT?

Description

This query returns the time allowed between an ICMP echo and response. Choices are 200 ms to 10000 ms.

At *RST the default value is set to 4000 ms.

Syntax

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration: TOUT?[<wsp><Port>, MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:PING:CONFiguration:TOUT?

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA>element.

Selects the port number 1 or 2.

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: MAXimum|MINimum.

MAXimum, selects the maximum time allowed between an ICMP echo and response.

MINimum, selects the minimum time allowed between an ICMP echo and response.

This parameter is optional. If no token is specified, the current time out period will be returned.

Response Syntax

<Value>

:SOURce[1..n]:DATA:TELecom:PING:CONFiguration:TOUT?

Response(s)

Value:

The response data syntax for <Value> 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 1,10000

* SOUR:DATA:TEL:PING:CONF:TOUT? 1 Returns 10000

Returns the time allowed between an ICMP echo and response.

See Also

* LINS32:SOURce:DATA:TELecom:PING:CONFiguration:TOUT

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration:DELay

Description

This command allows you to enter the delay between each attempt (PING). Choices are 100 to 10000 ms.

At *RST the default value is set to 1000 ms.

Syntax

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration: DELay<wsp><Port>, MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:PING:CONFiguration:DELay

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Delay:

The program data syntax for the parameter is defined as a <numeric_value> element.

The allowed <numeric_value> element for this parameter are: MAXimum|MINimum.

Selects the delay between each attempt (PING).

MAXimum, selects the maximum delay between each attempt (PING).

MINimum, selects the minimum delay between each attempt (PING).

Example(s)

* SOUR:DATA:TEL:PING:CONF:DEL 1, 2000

* SOUR:DATA:TEL:PING:CONF:DEL? 1 Returns 2000

See Also

* LINS32:SOURce:DATA:TELecom:PING:CONFiguration:DELay?

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration:DELay?

Description

This query returns the the delay between each attempt (PING). Choices are 100 to 10000 ms.

At *RST the default value is set to 1000 ms.

Syntax

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration: DELay?[<wsp><Port>, MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:PING:CONFiguration:DELay?

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

SET:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: MAXimum|MINimum.

MAXimum, returns the maximum delay between each attempt (PING).

MINimum, returns the minimum delay between each attempt (PING).

This parameter is optional. If no token is specified, the current delay between each Ping is returned.

Response Syntax

<Value>

:SOURce[1..n]:DATA:TELecom:PING:CONFiguration:DELay?

Response(s)

Value:

The response data syntax for <Value> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the delay between each attempt (PING).

Example(s)

* SOUR:DATA:TEL:PING:CONF:DEL 1, 2000

* SOUR:DATA:TEL:PING:CONF:DEL? 1 Returns 2000

Returns the delay between each attempt (PING).

See Also

* LINS32:SOURce:DATA:TELecom:PING:CONFiguration:DELay

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration:DSIZe

Description

This command allows you to enter the buffer size that will be sent to the network device to be detected. Choices are 0 to 1472 bytes.

At *RST the default value is set to 32 bytes.

Syntax

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration: DSIZe<wsp><Port>, MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration:DSIZe

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Dsize:

The program data syntax for the parameter is defined as a <numeric_value> element.

The allowed <numeric_value> element for this parameter are: MAXimum|MINimum.

Selects the buffer size that is sent to the network device to be detected.

MAXimum, selects the maximum buffer size that is sent to the network device to be detected.

MINimum, selects the minimum buffer size that is sent to the network device to be detected.

This parameter is optional. If no token is specified, the current buffer size is returned.

Example(s)

* SOUR:DATA:TEL:PING:CONF:DSIZ 1, 1460

* SOUR:DATA:TEL:PING:CONF:DSIZ? 1 Returns 1460

See Also

* LINS32:SOURce:DATA:TELecom:PING: CONFiguration:DSIZe?

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration:DSIZe?

Description

This query returns the buffer size that is sent to the network device to be detected. Choices are 0 to 1472 bytes.

At *RST the default value is set to 32 bytes.

Syntax

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration: DSIZe?[<wsp><Port>, MAXimum|MINimum]

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

The program data syntax for the parameter is defined as a <numeric_value> element.

The allowed <numeric_value> element for this parameter are: MAXimum|MINimum.

MAXimum, returns the maximum buffer size that is sent to the network device to be detected.

MINimum, returns the minimum buffer size that is sent to the network device to be detected.

Response Syntax

<Value>

:SOURce[1..n]:DATA:TELecom:PING:CONFiguration:DSIZe?

Response(s)

Value:

The response data syntax for <Value> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the buffer size that is sent to the network device to be detected.

Example(s)

* SOUR:DATA:TEL:PING:CONF:DSIZ 1,1460

* SOUR:DATA:TEL:PING:CONF:DSIZ? 1 Returns 1460

Returns the buffer size that is sent to the network device to be detected.

See Also

* LINS32:SOURce:DATA:TELecom:PING:CONFiguration:DSIZe

:SOURce[1..n]:DATA:TELecom:PING:CONFiguration:TTL

Description

This command allows you to enter the maximum number of hops the packet can go through. Choices are 1 to 255.

At *RST the default value is set to 128.

Syntax

:SOURce[1..n]:DATA:TELecom:PING:CONFiguration: TTL<wsp><Port>, MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:PING:CONFiguration:TTL

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Ttl:

The program data syntax for the parameter is defined as a <numeric_value> element.

The allowed <numeric_value> element for this parameter are: .

Selects the number of hops the packet can go through.

MAXimum, selects the maximum number of hops the packet can go through.

MINimum, selects the minimum number of hops the packet can go through.

Example(s)

* SOUR:DATA:TEL:PING:CONF:TTL 1, 255

* SOUR:DATA:TEL:PING:CONF:TTL? 1, Returns 255

See Also

* LINS32:SOURce:DATA:TELecom:PING:CONFiguration:TTL?

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration:TTL?

Description

This query returns the maximum number of hops the packet can go through. Choices are 1 to 255.

At *RST the default value is set to 128.

Syntax

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration: TTL?[<wsp><Port>, MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:PING:CONFiguration:TTL?

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

SET:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: MAXimum|MINimum.

MAXimum, returns the maximum number of hops the packet can go through.

MINimum, returns the minimum number of hops the packet can go through.

This parameter is optional. If no token is specified, the current hops specified is returned.

Response Syntax

<Value>

:SOURce[1..n]:DATA:TELecom:PING:CONFiguration:TTL?

Response(s)

Value:

The response data syntax for <Value> 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 1, 255

* SOUR:DATA:TEL:PING:CONF:TTL? 1, Returns 255

Returns the number of hops the packet can go through.

See Also

* LINS32:SOURce:DATA:TELecom:PING:CONFiguration:TTL

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration:ATTempts

Description

This command allows you to enter the number of attempts that will be performed, to reach the network device. Choices are 1 to 100.

At *RST the default value is set to 4 and Continuous is disabled.

Syntax

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration: ATTempts<wsp><Port>, MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:PING:CONFiguration:ATTempts

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Attempts:

The program data syntax for the parameter is defined as a <numeric_value> element.

The allowed <numeric_value> element for this parameter are: MAXimum|MINimum.

Selects the number of attempts performed, to reach the network device or press Continuous for indefinite attempts.

MAXimum, selects the maximum number of attempts performed, to reach the network device or press Continuous for indefinite attempts.

MINimum, selects the minimum number of attempts performed, to reach the network device or press Continuous for indefinite attempts.

Example(s)

* SOUR:DATA:TEL:PING:CONF:ATT 1,100

* SOUR:DATA:TEL:PING:CONF:ATT 1 Returns 100

See Also

* LINS32:SOURce:DATA:TELecom:PING:CONFiguration:ATTempts?

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration:ATTempts?

Description

This query returns the number of attempts that will be performed, to reach the network device. Choices are 1 to 100.

At *RST the default value is set to 4 and Continuous is disabled.

Syntax

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration: ATTempts?[<wsp><Port>, MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:PING:CONFiguration:ATTempts?

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: MAXimum|MINimum.

MAXimum, returns the maximum number of attempts performed, to reach the network device or press Continuous for indefinite attempts.

MINimum, returns the minimum number of attempts performed, to reach the network device or press Continuous for indefinite attempts.

This parameter is optional. If no token is specified, the current number of attempts specified is returned.

Response Syntax

<Value>

:SOURce[1..n]:DATA:TELecom:PING:CONFiguration:ATTempts?

Response(s)

Value:

The response data syntax for <Value> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of attempts performed, to reach the network device.

Example(s)

* SOUR:DATA:TEL:PING:CONF:ATT 1,100

* SOUR:DATA:TEL:PING:CONF:ATT 1 Returns 100

Returns the number of attempts performed, to reach the network device.

See Also

* LINS32:SOURce:DATA:TELecom:PING:CONFiguration:ATTempts

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration:CONTinuous

Description

This command allows you to enable or disable the Continuous option. This option allows you to make indefinite attempts, to reach the network device. Choices are 1 to 100.

At *RST the default value is set to 4 and the Continuous option is disabled.

Syntax

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration: CONTinuous?<wsp><Port>, <SET>

:SOURce[1..n]:DATA:TELecom:PING:CONFiguration:CONTinuous

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

SET:

The program data syntax for the parameter is defined as a <BOOLEAN PROGRAM DATA> element.

Allows you to make indefinite attempts by selecting the Continuous box, to reach the network device.

Example(s)

* SOUR:DATA:TEL:PING:CONF:CONT 1, On

* SOUR:DATA:TEL:PING:CONF:CONT? 1 Returns 1

See Also

* LINS32:SOURce:DATA:TELecom:PING:CONFiguration:CONT?

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration:CONTinuous?

Description

This query returns the status of the Continuous command. Choices are 1 to 100.

At *RST the default value is set to 4 and the Continuous option is disabled.

Syntax

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration: CONTinuous?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Continous>

:SOURce[1..n]:DATA:TELecom:PING:CONFiguration:CONTinuous?

Response(s)	Continuous: The response data syntax for <Continuous> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of attempts performed by selecting the Continuous box, to reach the network device.
Example(s)	* SOUR:DATA:TEL:PING:CONF:CONT 1, On * SOUR:DATA:TEL:PING:CONF:CONT? 1 Returns 1 Returns the number of attempts performed by selecting the Continuous box, to reach the network device.
See Also	* LINS32:SOURce:DATA:TELecom:PING:CONFiguration:CONT

:SOURce[1..n]:DATA:TELecom:PING:CONFiguration:TOS

Description

This command allows you to enter the type of service. Choices are 00 to FF.

At *RST the default value is set to 00.

Syntax

:SOURce[1..n]:DATA:TELecom:PING:CONFiguration: TOS<wsp><Port>, <TOS>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

TOS:

The program data syntax for the parameter is defined as a <NON DECIMAL NUMERIC PROGRAM DATA > element.

Selects the type of service.

Example(s)

* SOUR:DATA:TEL:PING:CONF:TOS 1,#H00

* SOUR:DATA:TEL:PING:CONF:TOS? 1 Returns 00

See Also

* LINS32:SOURce:DATA:TELecom:PING:CONFiguration:TOS?

:SOURce[1..n]:DATA:TELecom:PING:CONFiguration:TOS?

Description

This query returns the type of service. Choices are 00 to FF.

At *RST the default value is set to 00.

Syntax

:SOURce[1..n]:DATA:TELecom:PING:CONFiguration: TOS?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Value>

:SOURce[1..n]:DATA:TELecom:PING:CONFiguration:TOS?

Response(s)

Value:

The response data syntax for <Value> is defined as a <BINARY RESPONSE DATA> element.

Returns the type of service.

Example(s)

* SOUR:DATA:TEL:PING:CONF:TOS 1,#H00

* SOUR:DATA:TEL:PING:CONF:TOS? 1 Returns 00

Returns the type of service.

See Also

* LINS32:SOURce:DATA:TELecom:PING:CONFiguration:TOS

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration:HCOunt

Description

This command allows you to enter the number of network device packets that are allowed to go through. Choices are 1 to 255.

At *RST the default value is set to 128.

Syntax

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration: HCOunt<wsp><Port>, MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:PING:CONFiguration:HCOunt

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

HOP:

The program data syntax for the parameter is defined as a <numeric_value> element.

The allowed <numeric_value> element for this parameter are: MAXimum|MINimum.

Selects the number of network device packets that are allowed to go through.

MAXimum, selects the maximum network device packets that are allowed to go through.

MINimum, selects the minimum network device packets that are allowed to go through.

Example(s)

* SOUR:DATA:TEL:PING:CONF:HCO 1,88

* SOUR:DATA:TEL:PING:CONF:HCO 1 Returns 88

See Also

* LINS32:SOURce:DATA:TELecom:PING:CONFiguration:HCOunt?

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration:HCOunt?

Description

This query returns the maximum network device packets that are allowed to go through. Choices are 1 to 255.

At *RST the default value is set to 128.

Syntax

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration: HCOunt?[<wsp><Port>, MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:PING:CONFiguration:HCOunt?

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: MAXimum|MINimum.

MAXimum, returns the maximum network device packets that are allowed to go through.

MINimum, returns the minimum network device packets that are allowed to go through.

This parameter is optional. If no token is specified, the current number of network device packets specified is returned.

Response Syntax

<Value>

:SOURce[1..n]:DATA:TELecom:PING: CONFiguration:HCOunt?

Response(s)

Value:

The response data syntax for <Value> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of network device packets that are allowed to go through.

Example(s)

* SOUR:DATA:TEL:PING:CONF:HCO 1,1

* SOUR:DATA:TEL:PING:CONF:HCO 1 Returns 1

Returns the number of network device packets that are allowed to go through.

See Also

* LINS32:SOURce:DATA:TELecom:PING: CONFiguration:HCOunt

:FETCh[1..n]:DATA:TELecom:PING:STATistics:TX?

Description This query returns the number of sent packets.

Syntax :FETCh[1..n]:DATA:TELecom:PING:STATistics:TX? <wsp><Port>

Parameter(s) Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax <Result>

Response(s) Result:

The response data syntax for <Result> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the number of sent packets.

Example(s) * FETC:DATA:TEL:PING:STAT:TX? 1

Returns the number of sent packets.

:FETCh[1..n]:DATA:TELecom:PING:STATistics:RX?

Description

This query returns the number of received packets.

Syntax

:FETCh[1..n]:DATA:TELecom:PING:STATistics:RX? <wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Result>

Response(s)

Result:

The response data syntax for <Result> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the number of received packets.

Example(s)

* FETC:DATA:TEL:PING:STAT:RX? 1

Returns the number of received packets.

:FETCh[1..n]:DATA:TELecom:PING:STATistics:LOST?

Description

This query returns the percentage of packets lost.

Syntax

:FETCh[1..n]:DATA:TELecom:PING:STATistics:LOST? <wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Result>

Response(s)

Result:

The response data syntax for <Result> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the percentage of packets lost.

Example(s)

* FETC:DATA:TEL:PING:STAT:LOST? 1

Returns the percentage of packets lost.

:FETCh[1..n]:DATA:TELecom:PING:STATistics:MINimum?

Description

This query returns the minimum time recorded for a Ping request to be answered.

Syntax

:FETCh[1..n]:DATA:TELecom:PING:STATistics:MINimum?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Result>

Response(s)

Result:

The response data syntax for <Result> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the minimum time recorded for a Ping request to be answered.

Example(s)

* FETC:DATA:TEL:PING:STAT:MIN? 1

Returns the minimum time recorded for a Ping request to be answered.

:FETCh[1..n]:DATA:TELecom:PING:STATistics:MAXimum?

Description

This query returns the maximum time recorded for a Ping request to be answered.

Syntax

:FETCh[1..n]:DATA:TELecom:PING:STATistics:MAXimum?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Result>

Response(s)

Result:

The response data syntax for <Result> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the maximum time recorded for a Ping request to be answered.

Example(s)

* FETC:DATA:TEL:PING:STAT:MAX? 1

Returns the maximum time recorded for a Ping request to be answered.

:FETCh[1..n]:DATA:TELecom:PING:STATistics:AVERage?

Description

This query returns the average time required for a Ping request to be answered.

Syntax

:FETCh[1..n]:DATA:TELecom:PING:STATistics:AVERage?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Result>

Response(s)

Result:

The response data syntax for <Result> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the average time required for a Ping request to be answered.

Example(s)

* FETC:DATA:TEL:PING:STAT:AVER? 1

Returns the average time required for a Ping request to be answered.

SDT Command Reference

:SENSe[1..n]:DATA:TELecom:SDT:NDTime

Description

This command indicates the period without any defects before stopping SDT measurement. Choices are from 20 to 99990 μs for 10/100/1000Mbps and 10 to 99000 μs for 10Gbps.

At *RST the default value is set to 20 μs for 10/100/1000Mbps and 10 μs for 10Gbps.

Syntax

:SENSe[1..n]:DATA:TELecom:SDT:NDTime <wsp><Port>, MAXimum|MINimum

:SENSe[1..n]:DATA:TELecom:SDT:NDTime

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Time:

The program data syntax for the parameter is defined as a <numeric_value> element.

The allowed <numeric_value> element for this parameter are: MAXimum|MINimum.

Indicates the period without any defects, before stopping SDT measurement.

MAXimum, indicates the maximum period without any defects, before stopping SDT measurement.

MINimum, indicates the minimum period without any defects, before stopping SDT measurement.

Example(s)

* SENS:DATA:TEL:SDT:NDT 1,20

* SENS:DATA:TEL:SDT:NDT? 1 Returns 20

See Also

* LINS10:SENSe:DATA:TELecom:SDT:NDTime?

:SENSe[1..n]:DATA:TELecom:SDT:NDTime?

Description

This query returns the period without any defects before stopping SDT measurement. Choices are from 20 to 99990 μs for 10/100/1000Mbps and 10 to 99000 μs for 10Gbps.

At *RST the default value is set to 20 μs for 10/100/1000Mbps and 10 μs for 10Gbps.

Syntax

:SENSe[1..n]:DATA:TELecom:SDT:NDTime? [<wsp><Port>, MAXimum|MINimum]

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: MAXimum|MINimum.

MAXimum, returns the maximum period without any defects, before stopping SDT measurement.

MINimum, returns the minimum period without any defects, before stopping SDT measurement.

This parameter is optional. If no token is specified, the current time specified is returned.

:SENSe[1..n]:DATA:TELecom:SDT:NDTime?

Response Syntax <Time>

Response(s) Time:

The response data syntax for <Time> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the period without any defects before stopping SDT measurement.

Example(s) * SENS:DATA:TEL:SDT:NDT 1,20

* SENS:DATA:TEL:SDT:NDT? 1 Returns 20

Returns the period without any defects before stopping SDT measurement.

See Also * LINS10:SENSe:DATA:TELecom:SDT:NDTime

:SENSe[1..n]:DATA:TELecom:SDT:TPERiod

Description

This command indicates the period of time used to calculate the SDT measurement. Choices are 20 μs to 5 minutes for 10/100/1000Mbps and 10000 μs to 5 minutes for 10Gbps. Unit choices are μs, ms, s, and min.

At *RST the default value is set to 100 ms.

Syntax

:SENSe[1..n]:DATA:TELecom:SDT:TPERiod <wsp><Port>, MAXimum|MINimum

:SENSe[1..n]:DATA:TELecom:SDT:TPERiod

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Period:

The program data syntax for the parameter is defined as a <numeric_value> element.

The allowed <numeric_value> element for this parameter are: MAXimum|MINimum.

Indicates the maximum and the minimum test period used to calculate the SDT measurement..

MAXimum, selects the maximum test period.

MINimum, selects the minimum test period.

Example(s)

* SENS:DATA:TEL:SDT:TPER 1,40

* SENS:DATA:TEL:SDT:TPER? 1 Returns 40

See Also

* LINS10:SENSe:DATA:TELecom:SDT:TPERiod?

:SENSe[1..n]:DATA:TELecom:SDT:TPERiod?

Description

This query returns the period of time used to calculate the SDT measurement. Choices are 20 μs to 5 minutes for 10/100/1000Mbps and 10000 μs to 5 minutes for 10Gbps. Unit choices are μs, ms, s, and min.

At *RST the default value is set to 100 ms.

Syntax

:SENSe[1..n]:DATA:TELecom:SDT:TPERiod? [<wsp><Port>, MAXimum|MINimum]

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: MAXimum|MINimum.

MAXimum, selects the maximum test period.

MINimum, selects the minimum test period.

This parameter is optional. If no token is specified, the current period is returned.

:SENSe[1..n]:DATA:TELecom:SDT:TPERiod?

Response Syntax <Period>

Response(s) Period:

The response data syntax for <Period> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the period of time used to calculate the SDT measurement.

Example(s) * SENS:DATA:TEL:SDT:TPER 1, 40

* SENS:DATA:TEL:SDT:TPER? 1 Returns 40

Returns the period of time used to calculate the SDT measurement.

See Also * LINS10:SENSe:DATA:TELecom:SDT:TPERiod

:SENSe[1..n]:DATA:TELecom:SDT

Description

This command corresponds to the time during which there is a disruption of service due to the absence of traffic or the detection of defects.

Syntax

:SENSe[1..n]:DATA:TELecom:SDT<wsp><Port>, <SET>

:SENSe[1..n]:DATA:TELecom:SDT

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

SET:

The program data syntax for the parameter is defined as a <BOOLEAN PROGRAM DATA> element.

The allowed <BOOLEAN PROGRAM DATA> element for this parameter are: On|Off.

Allows you to enable/disable the disruption time measurements.

On, enables the disruption time measurements.

Off, disables the disruption time measurements.

Example(s)

* SENS:DATA:TEL:SDT 1, On

SENS:DATA:TEL:SDT? 1 Returns 1

See Also

* LINS10:SENSe:DATA:TELecom:SDT?

:SENSe[1..n]:DATA:TELecom:SDT?

Description

This query returns the time during which there is a disruption of service due to the absence of traffic or the detection of defects.

Syntax

:SENSe[1..n]:DATA:TELecom:SDT?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Set>

:SENSe[1..n]:DATA:TELecom:SDT?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of the disruption time measurements.

Example(s)

* SENS:DATA:TEL:SDT 1, On

SENS:DATA:TEL:SDT? 1 Returns 1

Returns the status of the disruption time measurements.

See Also

* LINS10:SENSe:DATA:TELecom:SDT

:FETCh[1..n][1..n]:DATA:TELecom:SDT:SHORtest?

Description This query indicates the shortest measured disruption time.

Syntax :FETCh[1..n]:DATA:TELecom:SDT:SHORtest? <wsp><Port>

Parameter(s) Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax <Shortest>

Response(s) Shortest:

The response data syntax for <Shortest> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the shortest disruption time.

Example(s) * SENS:DATA:TEL:SDT:SHOR? 1

Returns the shortest disruption time.

:FETCh[1..n]:DATA:TELecom:SDT:LONGest?

Description

This query indicates the longest measured disruption time.

Syntax

:FETCh[1..n]:DATA:TELecom:SDT:LONGest? <wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Longest>

Response(s)

Longest:

The response data syntax for <Longest> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the longest disruption time.

Example(s)

* FETC:DATA:TEL:SDT:LONG? 1

Returns the longest disruption time.

:FETCh[1..n]:DATA:TELecom:SDT:LAST?

Description

This query indicates the length of the last measured disruption time.

Syntax

:FETCh[1..n]:DATA:TELecom:SDT:LAST?

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Last>

Responses

Last:

The response data syntax for <Last> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the length of the last disruption time.

Example(s)

* FETC:DATA:TEL:SDT:LAST? 1

Returns the length of the last disruption time.

:FETCh[1..n]:DATA:TELecom:SDT:AVERage?

Description

This query indicates the average length of all measured disruption times.

Syntax

:FETCh[1..n]:DATA:TELecom:SDT:AVERage? <wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Average>

Response(s)

Average:

The response data syntax for <Average> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the average disruption time.

Example(s)

* FETC:DATA:TEL:SDT:AVER? 1

Returns the average disruption time.

:FETCh[1..n]:DATA:TELecom:SDT:TOTal?

Description

This query indicates the total length of all measured disruption times.

Syntax

:FETCh[1..n]:DATA:TELecom:SDT:TOTal? <wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Total>

Response(s)

Total:

The response data syntax for <Total> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the total disruption time.

Example(s)

* FETC:DATA:TEL:SDT:TOT? 1

Returns the total disruption time.

:FETCh[1..n]:DATA:TELecom:SDT:ALARm:HISTory?

Description

This query returns the details of the SDT (if any) occurred in the past (LED is red) or not (LED is green).

Syntax

:FETCh[1..n]:DATA:TELecom:SDT:ALARm:HISTory?<wsp><Port>, SDT

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

ALARM:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is: SDT.

Indicates the history status of service disruption measurements.

:FETCh[1..n]:DATA:TELecom:SDT:ALARm:HISTory?

Response Syntax

<History>

Response(s)

History:

The response data syntax for <History> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the history status of service disruption measurements.

PRESENT, indicates if any SDT occurred in the past.

ABSENT, indicates if no SDT occurred in the past.

INACTIVE, indicates that the test did not run yet.

Example(s)

* FETC:DATA:TEL:SDT:ALAR:HIST? 1, SDT

Returns the history status of service disruption measurements.

:FETCh[1..n]:DATA:TELecom:SDT:ALARm:CURRent?

Description

This query returns the current status of service disruption measurements.

Syntax

:FETCh[1..n]:DATA:TELecom:SDT:ALARm:CURRent?<wsp><Port>, SDT

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

ALARM:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is SDT.

Indicates the current status of service disruption measurements.

:FETCh[1..n]:DATA:TELecom:SDT:ALARm:CURRent?

Response Syntax <Current>

Response(s) Current:

The response data syntax for <Current> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the current status of service disruption measurements.

PRESENT, indicates when there is no SDT.

ABSENT, indicates if there is a SDT, and last until the next No Defect Time has been met or the test period is elapsed.

INACTIVE, indicates that the test did not run yet.

Example(s) * FETC:DATA:TEL:SDT:ALAR:CURR? 1, SDT

Returns the current status of service disruption measurements.

:FETCh[1..n]:DATA:TELecom:SDT:ALARm:SEConds?

Description

This query returns the number of seconds within which service disruption measurements occurred.

Syntax

:FETCh[1..n]:DATA:TELecom:SDT:ALARm:SEConds?

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

ALARM:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter is SDT.

Indicates the number of seconds within which the service disruption measurements have occurred.

:FETCh[1..n]:DATA:TELecom:SDT:ALARm:SEConds?

Response Syntax <Seconds>

Response(s) Seconds:

The response data syntax for <Seconds> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the number of seconds within which service disruption measurements occurred.

PRESENT, indicates when there is no SDT.

ABSENT, indicates if there is a SDT, and last until the next No Defect Time has been met or the test period is elapsed.

INACTIVE, indicates that the test did not run yet.

Example(s) * FETC:DATA:TEL:SDT:ALAR:SEC? 1, SDT

Returns the number of seconds within which service disruption measurements occurred.

:FETCh[1..n]:DATA:TELecom:SDT:COUNt?

Description

This query returns the number of service disruption counts that happened since the beginning of the SDT test.

Syntax

:FETCh[1..n]:DATA:TELecom:SDT:COUNt? <wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:FETCh[1..n]:DATA:TELecom:SDT:COUNt?

Response Syntax <Count>

Response(s)

Count:

The response data syntax for <Count> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the number of service disruption counts that happened since the beginning of the SDT test.

PRESENT, indicates when there is no SDT.

ABSENT, indicates if there is a SDT, and last until the next No Defect Time has been met or the test period is elapsed.

INACTIVE, indicates that the test did not run yet.

Example(s)

* FETC:DATA:TEL:SDT:COUN? 1

Returns the number of service disruption counts that happened since the beginning of the SDT test.

:SENSe[1..n]:DATA:TELecom:SDT:MODE

Description

This command selects the Service Disruption Time test mode.

At *RST, this value is set to SINGle.

Syntax

:SENSe[1..n]:DATA:TELecom:SDT:MODE<wsp><Port>, DMODe|NTMode

:SENSe[1..n]:DATA:TELecom:SDT:MODE

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

MODE:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: DMODe|NTMode.

Indicates the measurement mode.

DMODe, indicates the detection of defects including LOS, Link down, invalid FCS, LSS, and Bit errors in the payload. The SDT measurement is the time between the first defect and either the end of the last defect preceding the No Defect Time period, or the end of the test period.

NTMode, indicates the absence of traffic. The SDT measurement is the time between the end of the last received frame and either the beginning of a new received frame, or the end of the test period.

Example(s)

* SENS:DATA:TEL:SDT:MODE 1,DMODe

* SENS:DATA:TEL:SDT:MODE? 1 Returns DMODE

See Also

* LINS10:SENSe:DATA:TELecom:SDT:MODE?

:SENSe[1..n]:DATA:TELecom:SDT:MODE?

Description

This query returns the Service Disruption Time test mode.

At *RST, this value is set to SINGle.

Syntax

:SENSe[1..n]:DATA:TELecom:SDT:MODE?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<LIST>

:SENSe[1..n]:DATA:TELecom:SDT:MODE?

Response(s)

LIST:

The response data syntax for <LIST> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the measurement mode.

DMODE, indicates the detection of defects including LOS, Link down, invalid FCS, LSS, and Bit errors in the payload. The SDT measurement is the time between the first defect and either the end of the last defect preceding the No Defect Time period, or the end of the test period.

NTMODE, indicates the absence of traffic. The SDT measurement is the time between the end of the last received frame and either the beginning of a new received frame, or the end of the test period.

Example(s)

* SENS:DATA:TEL:SDT:MODE 1,DMODe

* SENS:DATA:TEL:SDT:MODE? 1 Returns DMODE

See Also

* LINS10:SENSe:DATA:TELecom:SDT:MODE

:SENSe[1..n]:DATA:TELecom:SDT:NTTime

Description This command indicates the period without any defects before stopping SDT measurement.

Syntax :SENSe[1..n]:DATA:TELecom:SDT:NTTime <wsp><Port>, MAXimum|MINimum

:SENSe[1..n]:DATA:TELecom:SDT:NTTime

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Time:

The program data syntax for the parameter is defined as a <numeric_value> element.

The allowed <numeric_value> element for this parameter are: MAXimum|MINimum.

Indicates the period without any defects before stopping SDT measurement.

MAXimum, indicates the maximum period without any defects before stopping SDT measurement.

MINimum, indicates the minimum period without any defects before stopping SDT measurement.

Example(s)

* SENS:DATA:TEL:SDT:NTT 1,20

* SENS:DATA:TEL:SDT:NTT? 1 Returns 20

See Also

* LINS10:SENSe:DATA:TELecom:SDT:NTTime?

:SENSe[1..n]:DATA:TELecom:SDT:NTTime?

Description

This query returns the period without any defects before stopping SDT measurement.

Syntax

:SENSe[1..n]:DATA:TELecom:SDT:NTTime? [<wsp><Port>, MAXimum|MINimum]

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: MAXimum|MINimum.

MAXIMUM, returns the maximum period without any defects before stopping SDT measurement.

MINIMUM, returns the minimum period without any defects before stopping SDT measurement.

This parameter is optional. If no token is specified, the current period before stopping the SDT measurement is returned.

Response Syntax

<Time>

:SENSe[1..n]:DATA:TELecom:SDT:NTTime?

Response(s)

Time:

The response data syntax for <Time> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the period without any defects before stopping SDT measurement.

Example(s)

* SENS:DATA:TEL:SDT:NTT 1,20

* SENS:DATA:TEL:SDT:NTT? 1 Returns 20

Returns the period without any defects before stopping SDT measurement.

See Also

* LINS10:SENSe:DATA:TELecom:SDT:NTTime

Test Status Command Reference

:FETCh[1..n]:DATA:TELecom:TSTatus:STIMe?

Description

This query returns the date and time the test has been started.

At *RST the default time is set to ISO (yyyy-mm-dd hh:mm:ss).

Syntax

:FETCh[1..n]:DATA:TELecom:TSTatus:STIMe?<wsp> <Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:FETCh[1..n]:DATA:TELecom:TSTatus:STIMe?

Response Syntax <Time>

Response(s) Time:

The response data syntax for <Time> is defined as a <STRING RESPONSE DATA> element.

Returns the date and time the test has been started.

Example(s) * FETC:DATA:TEL:TST:STIM? 1

Returns the date and time the test has been started.

:FETCh[1..n]:DATA:TELecom:LINK?

Description

This query returns the link status at the input port of the Ethernet/Fibre Channel interface.

Syntax

:FETCh[1..n]:DATA:TELecom:LINK?<wsp><Port>, PORT1|PORT2

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

TYPE:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: PORT1|PORT2.

Indicates the status of the link at the input port of the Ethernet/Fibre Channel interface.

PORT1, indicates the status of the PORT1 link at the input port of the Ethernet/Fibre Channel interface.

PORT2, indicates the status of the PORT2 link at the input port of the Ethernet/Fibre Channel interface.

:FETCh[1..n]:DATA:TELecom:LINK?

Response Syntax <LINK>

Response(s) LINK:

The response data syntax for <LINK> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the link status at the input port of the Ethernet/Fibre Channel interface.

ABSENT, indicates that the link is absent.

INACTIVE, indicates that the link is inactive.

Example(s) * FETC:DATA:TEL:LINK? 1, PORT1

Returns the link status at the input port of the Ethernet/Fibre Channel interface.

:FETCh[1..n]:DATA:TELecom:MODE:VERDict?

Description This query returns the status of the expert mode.

Syntax :FETCh[1..n]:DATA:TELecom:MODE:VERDict?<wsp><Port>

Parameter(s) Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax <STATus>

Response(s) STATus:

The response data syntax for <STATus> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the status of the expert mode.

Example(s) * FETC:DATA:TEL:MODE:VERD? 1

Returns the status of the expert mode.

:FETCh[1..n]:DATA:TELecom:TSTatus:RFC?

Description

This query returns the status of the running RFC 2544 test.

Syntax

:FETCh[1..n]:DATA:TELecom:TSTatus:RFC?<wsp> <Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<RFC>

Response(s)

RFC:

The response data syntax for <RFC> is defined as a <STRING RESPONSE DATA> element.

Returns the status of the running RFC 2544 test.

Example(s)

* FETC:DATA:TEL:TST:RFC? 1

Returns the status of the running RFC 2544 test.

Timer Configuration Command Reference

:SOURce[1..n]:DATA:TELecom:TIMer:CONFiguration

Description

This command allows you to automatically start and/or stop a test case at a given time or for a specific duration.

Syntax

:SOURce[1..n]:DATA:TELecom:TIMer:CONFiguration <wsp> STARttime|STOPtime|DURation, On|Off

Parameter(s)

TIME:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: STARttime|STOPtime|DURation, On|Off.

Allows you to automatically start and/or stop a test case at a given time or for a specific duration.

STARttime, allows you to select the specific time the created test case will automatically start.

STOPtime, allows you to select the specific time the test case will automatically stop.

DURation, allows the selection of the test duration based on the test case start time.

:SOURce[1..n]:DATA:TELecom:TIMer:CONFiguration

Parameter(s)

SET:

The program data syntax for the parameter is defined as a <BOOLEAN PROGRAM DATA> element.

The allowed <BOOLEAN PROGRAM DATA> element for this parameter are:

On, starts the test timer.

Off, stops the test timer.

Example(s)

* SOUR:DATA:TEL:TIM:CONF STARttime, On

* SOUR:DATA:TEL:TIM:CONF? STARttime
Returns 1

See Also

* LINS32:SOURce:DATA:TELecom:TIMer:CONFiguration?

:SOURce[1..n]:DATA:TELecom:TIMer:CONFiguration?

Description

This query returns the status of the test case at a given time or for a specific duration.

Syntax

:SOURce[1..n]:DATA:TELecom:TIMer:CONFiguration?<wsp>STARttime|STOPtime|DURation, On|Off

Parameter(s)

TIME:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: STARttime|STOPtime|DURation.

Allows you to automatically start and/or stop a test case at a given time or for a specific duration.

STARttime, allows you to select the specific time the created test case will automatically start.

STOPtime, allows you to select the specific time the test case will automatically stop.

DURation, allows the selection of the test duration based on the test case start time.

:SOURce[1..n]:DATA:TELecom:TIMer:CONFiguration?

SET:

The program data syntax for the parameter is defined as a <BOOLEAN PROGRAM DATA> element.

The allowed <BOOLEAN PROGRAM DATA> element for this parameter are:

Allows you to start and stop the timer.

On, starts the test timer.

Off, stops the test timer.

Response Syntax <Status>

:SOURce[1..n]:DATA:TELecom:TIMer:CONFiguration?

Response(s)

Status:

The response data syntax for <Status> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of the test case at a given time or for a specific duration.

Example(s)

* SOUR:DATA:TEL:TIM:CONF STARttime, On

* SOUR:DATA:TEL:TIM:CONF? STARttime
Returns 1

Returns the status of the test case at a given time or for a specific duration.

See Also

* LINS32:SOURce:DATA:TELecom:TIMer:CONFiguration

:SOURce[1..n]:DATA:TELecom:TIMer:STARtdate

Description

This command allows you to select the specific date and time, the created test case will automatically start. The Start Time check box has to be checked to be included in the test timer.

Syntax

:SOURce[1..n]:DATA:TELecom:TIMer:STARtdate <wsp><Port>, <DATE>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

DATE:

The program data syntax for the parameter is defined as a <STRING PROGRAM DATA> element.

Allows you to specify a date, the created test case will automatically start.

Example(s)

* SOUR:DATA:TEL:TIM:STAR 1,"2010-05-25"

* SOUR:DATA:TEL:TIM:STAR? 1 Returns "2010-05-25"

See Also

* LINS32:SOURce:DATA:TELecom:TIMer:STARtdate?

:SOURce[1..n]:DATA:TELecom:TIMer:STARtdate?

Description

This query returns the specific date and time, the created test case will automatically start. The Start Time check box has to be checked to be included in the test timer.

Syntax

:SOURce[1..n]:DATA:TELecom:TIMer:STARtdate? <wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<TIME>

:SOURce[1..n]:DATA:TELecom:TIMer:STARtdate ?

Response(s)

TIME:

The response data syntax for <TIME> is defined as a <STRING RESPONSE DATA> element.

Returns the specific time, the created test case will automatically start.

Example(s)

* SOUR:DATA:TEL:TIM:STAR 1,"2010-05-25"

SOUR:DATA:TEL:TIM:STAR? 1 Returns "2010-05-25"

Returns the specific time, the created test case will automatically start.

See Also

* LINS32:SOURce:DATA:TELecom:TIMer:STARtdate

:SOURce[1..n]:DATA:TELecom:TIMer:STOPdate

Description

This command allows you to select the specific time the test case will automatically stop. The Stop Time check box has to be checked to be included in the test timer.

Syntax

:SOURce[1..n]:DATA:TELecom:TIMer:STOPdate <wsp><Port>, <DATE>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

DATE:

The program data syntax for the parameter is defined as a <STRING PROGRAM DATA> element.

Allows you to specify a date, the created test case will automatically stop.

Example(s)

* SOUR:DATA:TEL:TIM:STOP 1,"2010-05-25"

* SOUR:DATA:TEL:TIM:STOP? 1 Returns "2010-05-25"

See Also

* LINS32:SOURce:DATA:TELecom:TIMer:STOPdate?

:SOURce[1..n]:DATA:TELecom:TIMer:STOPdate?

Description

This query returns the specific time the test case will automatically stop. The Stop Time check box has to be checked to be included in the test timer.

Syntax

:SOURce[1..n]:DATA:TELecom:TIMer:STOPdate? <wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<TIME>

:SOURce[1..n]:DATA:TELecom:TIMer:STOPdate?

Response(s)

TIME:

The response data syntax for <TIME> is defined as a <STRING RESPONSE DATA> element.

Returns the specific time the test case will automatically stop.

Example(s)

* SOUR:DATA:TEL:TIM:STOP 1,"2010-05-25"

* SOUR:DATA:TEL:TIM:STOP? 1 Returns "2010-05-25"

Returns the specific time the test case will automatically stop.

See Also

* LINS32:SOURce:DATA:TELecom:TIMer:STOPdate

:SOURce[1..n]:DATA:TELecom:TIMer:DURation

Description

This command allows you to select of the test duration based on the test case start time. Choices are 15 minutes, 1, 2, 24, 48, 72 hours, 7 days, or User Defined (see User Duration below).

At *RST the default value is set to 15 minutes.

Syntax

:SOURce[1..n]:DATA:TELecom:TIMer:DURation <wsp><Port>, 15M | 1H | 2H | 24H | 48H | 72H | 7D | UDEFined

:SOURce[1..n]:DATA:TELecom:TIMer:DURation

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

TIME:

The program data syntax for the parameter is defined as a <numeric_value> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: 15M|1H|2H |24H |48H|72H|7D|UDEFined.

Allows you to select of the test duration, based on the test case start time.

15M, selects 15 minutes as the test duration, based on the test case start time.

1H, selects 1 hour as the test duration, based on the test case start time.

2H, selects 2 hours as the test duration, based on the test case start time.

24H, selects 24 hours as the test duration, based on the test case start time.

48H, selects 48 hours as the test duration, based on the test case start time.

72H, selects 72 hours as the test duration, based on the test case start time.

7D, selects 7 days as the test duration, based on the test case start time.

UDEFined, selects User Defined as the test duration, based on the test case start time.

:SOURce[1..n]:DATA:TELecom:TIMer:DURation

Example(s)

* SOUR:DATA:TEL:TIM:DUR 1,"15M"
* SOUR:DATA:TEL:TIM:DUR? 1 Returns "15M"

See Also

* LINS32:SOURce:DATA:TELecom:TIMer:DURation?

:SOURce[1..n]:DATA:TELecom:TIMer:DURation?

Description

This query returns the test duration based on the test case start time. Choices are 15 minutes, 1, 2, 24, 48, 72 hours, 7 days, or User Defined (see User Duration below).

At *RST the default value is set to 15 minutes.

Syntax

:SOURce[1..n]:DATA:TELecom:TIMer:DURation? <wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<SET>

Response(s)

SET:

The response data syntax for <SET> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the test duration based on the test case start time.

15M, returns 15 minutes as the test duration, based on the test case start time.

:SOURce[1..n]:DATA:TELecom:TIMer:DURation?

1H, returns 1 hour as the test duration, based on the test case start time.

2H, returns 2 hours as the test duration, based on the test case start time.

24H, returns 24 hours as the test duration, based on the test case start time.

48H, returns 48 hours as the test duration, based on the test case start time.

72H, returns 72 hours as the test duration, based on the test case start time.

7D, returns 7 days as the test duration, based on the test case start time.

UDEFINED, returns User Defined as the test duration, based on the test case start time.

Example(s)

* SOUR:DATA:TEL:TIM:DUR 1,"15M"

* SOUR:DATA:TEL:TIM:DUR? 1 Returns "15M"

Returns the test duration based on the test case start time.

See Also

* LINS32:SOURce:DATA:TELecom:TIMer:DURation?

:SOURce[1..n]:DATA:TELecom:TIMer:TIME

Description

This command allows you to set the start time and stop time for the test.

At *RST the default format is set to the ISO format.

Syntax

:SOURce[1..n]:DATA:TELecom:TIMer:TIME<wsp> <Port>, STARttime|STOPtime, <SET>

:SOURce[1..n]:DATA:TELecom:TIMer:TIME

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

TIME:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: STARttime|STOPtime.

Allows you to automatically start and/or stop a test case at a given time or for a specific duration.

STARttime, allows you to select the specific time the created test case will automatically start.

STOPtime, allows you to select the specific time the test case will automatically stop.

SET:

The program data syntax for the parameter is defined as a <STRING PROGRAM DATA>> element.

Allows you to enable/disable the test timer.

Example(s)

* SOUR:DATA:TEL:TIM:TIME 1, STARttime "11:23:01"

* SOUR:DATA:TEL:TIM:TIME? 1, STARttime Returns "11:23:01"

:SOURce[1..n]:DATA:TELecom:TIMer:TIME

See Also * LINS32:SOURce:DATA:TELecom:TIMer:TIME?

:SOURce[1..n]:DATA:TELecom:TIMer:TIME?

Description

This query returns the start time and stop time of the test.

At *RST the default format is set to the ISO format.

Syntax

:SOURce[1..n]:DATA:TELecom:TIMer:TIME?<wsp> <Port>, STARttime|STOPtime

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

TIME:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: STARttime|STOPtime.

Allows you to automatically start and/or stop a test case at a given time or for a specific duration.

STARttime, allows you to select the specific time the created test case will automatically start.

STOPtime, allows you to select the specific time the test case will automatically stop.

:SOURce[1..n]:DATA:TELecom:TIMer:TIME?

Response Syntax <SET>

Response(s) SET:

The response data syntax for <SET> is defined as a <STRING RESPONSE DATA> element.

Returns the start time and stop time of the test.

Example(s) * SOUR:DATA:TEL:TIM:TIME 1, STARttime "11:23:01"

* SOUR:DATA:TEL:TIM:TIME? 1, STARttime
Returns "11:23:01"

Returns the start time and stop time of the test.

See Also * LINS32:SOURce:DATA:TELecom:TIMer:TIME

:SOURce[1..n]: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 the default value is set to 15 minutes.

Syntax

:SOURce[1..n]:DATA:TELecom:TIMer:UDEFined <wsp><Port>, <Utime>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Utime:

The program data syntax for the parameter is defined as a <STRING PROGRAM DATA> element.

Example(s)

* SOUR:DATA:TEL:TIM:UDEF 1,"00d:00:15:00"

* SOUR:DATA:TEL:TIM:UDEF? 1 Returns "00d:00:15:00"

See Also

* LINS32:SOURce:DATA:TELecom:TIMer:UDEF?

:SOURce[1..n]:DATA:TELecom:TIMer:UDEFined?

Description

This query returns the test duration, when User Defined has been selected for duration. Choices are from 1 second to 30 days.

At *RST the default value is set to 15 minutes.

Syntax

:SOURce[1..n]:DATA:TELecom:TIMer:UDEFined? <wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<SET>

:SOURce[1..n]:DATA:TELecom:TIMer:UDEFined?

Response(s)	SET: The response data syntax for <SET> 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 1,"00d:00:15:00" * SOUR:DATA:TEL:TIM:UDEF? 1 Returns "00d:00:15:00" Returns the test duration, when User Defined has been selected for duration.
See Also	* LINS32:SOURce:DATA:TELecom:TIMer:UDEF

:SOURce[1..n]:DATA:TELecom:TIMer

Description

This command allows you to enable/disable the test timer.

At *RST the the timer is set to Off.

Syntax

:SOURce[1..n]:DATA:TELecom:TIMer<wsp><Port>, <SET>

:SOURce[1..n]:DATA:TELecom:TIMer

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

SET:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

SET:

The program data syntax for the parameter is defined as a <BOOLEAN PROGRAM DATA>> element.

The allowed <BOOLEAN PROGRAM DATA> element for this parameter are: On|Off.

Allows you to enable/disable the test timer.

ON, starts the test timer.

OFF, stops the test timer.

Example(s)

* SOUR:DATA:TEL:TIM 1, On

* SOUR:DATA:TEL:TIM? 1 Returns 1

See Also

* LINS32:SOURce:DATA:TELecom:TIMer?

:SOURce[1..n]:DATA:TELecom:TIMer?

Description

This query returns the status of the timer.

At *RST the the timer is set to Off.

Syntax

:SOURce[1..n]:DATA:TELecom:TIMer?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<STATUS>

:SOURce[1..n]:DATA:TELecom:TIMer?

Response(s)

STATUS:

The response data syntax for <STATUS> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of the timer.

ON, starts the test timer.

OFF, stops the test timer.

Example(s)

* SOUR:DATA:TEL:TIM 1, On

* SOUR:DATA:TEL:TIM? 1 Returns 1

Returns the status of the timer.

See Also

* LINS32:SOURce:DATA:TELecom:TIMer

Auto Negotiation TX Command Reference

:SOURce[1..n]:DATA:TELecom:PORT:AAMode

Description

This command allows you to enable or disable the Advanced Auto-Negotiation mode.

At *RST this setting is disabled by default.

Syntax

:SOURce[1..n]:DATA:TELecom:PORT:AAMode<wsp><Port>, <MODE>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

MODE:

The program data syntax for the parameter is defined as a <BOOLEAN PROGRAM DATA> element.

Allows you to enable or disable the Advanced Auto-Negotiation mode.

Example(s)

* SOUR:DATA:TEL:PORT:AAM 1, On

* SOUR:DATA:TEL:PORT:AAM? 1 Return 1

See Also

* LINS32:SOURce:DATA:TELecom:PORT:AAMode?

:SOURce[1..n]:DATA:TELecom:PORT:AAMode?

Description

This query returns the status of the Advanced Auto-Negotiation mode.

At *RST this setting is disabled by default.

Syntax

:SOURce[1..n]:DATA:TELecom:PORT:AAMode? <wsp><Port>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Status>

:SOURce[1..n]:DATA:TELecom:PORT:AAMode?

Response(s)	Status: The response data syntax for <Status> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the status of the Advanced Auto-Negotiation mode.
Example(s)	* SOUR:DATA:TEL:PORT:AAM 1, On * SOUR:DATA:TEL:PORT:AAM? 1 Returns 1 Returns the status of the Advanced Auto-Negotiation mode.
See Also	* LINS32:SOURce:DATA:TELecom:PORT:AAMode

:SOURce[1..n]:DATA:TELecom:PORT: CONFiguration:SPEed

Description

This command allows you to select the speed of the connected interface. Choices are:

For electrical port: 10Mbps, 100Mbps, 1Gbps, and Auto.

For optical port: 1Gbps.

Syntax

:SOURce[1..n]:DATA:TELecom:PORT: CONFiguration: SPEed<wsp><Port>, 1GBPS|AUTO

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

SPEED:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: 1GBPS|AUTo.

:SOURce[1..n]:DATA:TELecom:PORT:CONFiguration:SPEed

Allows you to select the speed of the connected interface.

1GBPS, selects 1GBPS as the speed of the connected interface.

AUTo, selects AUTo as the speed of the connected interface.

Example(s)

* SOUR:DATA:TEL:PORT:CONF:SPE 1,1GBPS

* SOUR:DATA:TEL:PORT:CONF:SPE? 1 Returns 1GBPS

See Also

* LINS32:SOURce:DATA:TELecom:PORT:CONFiguration:SPEed?

:SOURce[1..n]:DATA:TELecom:PORT: CONFiguration:SPEed?

Description

This query returns the speed of the connected interface. Choices are:

For electrical port: 10Mbps, 100Mbps, 1Gbps, and Auto.

For optical port: 1Gbps.

Syntax

:SOURce[1..n]:DATA:TELecom:PORT: CONFiguration: SPEed?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Configuraton>

:SOURce[1..n]:DATA:TELecom:PORT:CONFiguration:SPEed?

Response(s)

Configuraton:

The response data syntax for <Configuraton> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the speed of the connected interface.

1GBPS, selects 1GBPS as the speed of the connected interface.

AUTO, selects AUTo as the speed of the connected interface.

Example(s)

* SOUR:DATA:TEL:PORT:CONF:SPE 1,1GBPS

* SOUR:DATA:TEL:PORT:CONF:SPE? 1 Returns 1GBPS

Returns the speed of the connected interface.

See Also

* LINS32:SOURce:DATA:TELecom:PORT:CONFiguration:SPEed

:SOURce[1..n]:DATA:TELecom:PORT:CONFiguration:DUPLex?

Description

This query returns the the duplex mode for the selected port. Choices are:

For 10 Mbps and 100 Mbps speeds (except for BERT and Smart Loopback tests): Full, Half, and Auto.

For 1Gbps speed, BERT or Smart Loopback: Full.

Syntax

:SOURce[1..n]:DATA:TELecom:PORT:CONFiguration: DUPLex?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Configuration>

:SOURce[1..n]:DATA:TELecom:PORT:CONFiguration:DUPLex?

Response(s)	Configuration: The response data syntax for <Configuration> is defined as a <CHARACTER RESPONSE DATA> element. Returns the the duplex mode for the selected port. AUTO, selects AUTO as the duplex mode for the selected port. FULL, selects FULL as the duplex mode for the selected port.
Example(s)	* SOUR:DATA:TEL:PORT:CONF:DUPL 1, FULL * SOUR:DATA:TEL:PORT:CONF:DUPL? 1 Returns FULL Returns the the duplex mode for the selected port.
See Also	* LINS32:SOURce:DATA:TELecom:PORT:CONFiguration:DUPLex

:SOURce[1..n]:DATA:TELecom:PORT: CONFiguration:FCONtrol

Description

This command allows you to select the flow control of the connected interface.

At *RST the default value is set to None.

Syntax

:SOURce[1..n]:DATA:TELecom:PORT: CONFiguration: FCONtrol<wsp><Port>, ASYMmetrical|SYMMetrical|ASYMandsym| AUTO

:SOURce[1..n]:DATA:TELecom:PORT:CONFiguration:FCONtrol

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Flow:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: ASYMmetrical|SYMMetrical|ASYMandsym|AUTO.

Selects the flow control of the connected interface.

ASYMmetrical, indicates that the pause frame can be transmitted but not received.

SYMMetrical, indicates that the pause frame can be received and transmitted depending on the link partner (L. P.) flow type.

:SOURce[1..n]:DATA:TELecom:PORT:CONFiguration:FCONtrol

ASYMandsym , indicates that the pause frame can be received and/or transmitted depending on the link partner (L. P.) flow type.

AUTo, allows the negotiation of the flow control with the partner port.

Example(s)

* SOUR:DATA:TEL:PORT:CONF:FCON 1, ASYMmetrical

SOUR:DATA:TEL:PORT:CONF:FCON? 1 Returns ASYMMETRICAL

See Also

* LINS32:SOURce:DATA:TELecom:PORT:CONFiguration:FCONtrol?

:SOURce[1..n]:DATA:TELecom:PORT: CONFiguration:FCONtrol?

Description

This query returns the flow control of the connected interface. Choices are: None, Asymmetrical, Symmetrical, Asym. and Sym. (Asymmetrical and Symmetrical),Auto.

At *RST the default value is set to None.

Syntax

:SOURce[1..n]:DATA:TELecom:PORT: CONFiguration: FCONtrol?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Configuration>

:SOURce[1..n]:DATA:TELecom:PORT:CONFiguration:FCONtrol?

Response(s)

Configuration:

The response data syntax for <Configuration> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the flow control of the connected interface.

ASYMMETRICAL, indicates that the pause frame can be transmitted but not received.

SYMMETRICAL, indicates that the pause frame can be received and transmitted depending on the link partner (L. P.) flow type.

ASYMANDSYM, indicates that the pause frame can be received and/or transmitted depending on the link partner (L. P.) flow type.

AUTO, allows the negotiation of the flow control with the partner port.

Example(s)

* SOUR:DATA:TEL:PORT:CONF:FCON 1, ASYMmetrical

* SOUR:DATA:TEL:PORT:CONF:FCON? 1 Returns ASYMMETRICAL

Returns the flow control of the connected interface.

See Also

* LINS32:SOURce:DATA:TELecom:PORT:CONFiguration:FCONtrol

:SOURce[1..n]:DATA:TELecom:PORT:FREGister:FTYPe

Description

This command indicates the generation of a fault during the negotiation process.

Syntax

:SOURce[1..n]:DATA:TELecom:PORT:FREGister:FTYPe<wsp><Port>,
NOERror|OFFLine|LFAilure|ANEGerror

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Ftype:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are:
NOERror|OFFLine|LFAilure|ANEGerror.

Allows the generation of a fault during the negotiation process.

:SOURce[1..n]:DATA:TELecom:PORT:FREGister:FTYPe

NOERror, selects No Error as the fault type.

OFFLine, selects Off-line as the fault type.

LFAilure, selects Link FAilure as the fault type.

ANEGerror, selects Auto-Negotiation Error as the fault type.

Example(s)

* SOUR:DATA:TEL:PORT:FREG:FTYP 1, NOERror

* SOUR:DATA:TEL:PORT:FREG:FTYP? 1 Returns NOERROR

See Also

* LINS32:SOURce:DATA:TELecom:PORT:FREGister:FTYPe?

:SOURce[1..n]:DATA:TELecom:PORT:FREGister:FTYPe?

Description This query returns the status of the generation of a fault during the negotiation process.

Syntax :SOURce[1..n]:DATA:TELecom:PORT:FREGister:FTYPe?<wsp><Port>

Parameter(s) Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax <Fault>

:SOURce[1..n]:DATA:TELecom:PORT:FREGister:FTYPe?

Response(s)

Fault:

The response data syntax for <Fault> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the status of the generation of a fault during the negotiation process.

NOERROR, selects No Error as the fault type.

OFFLINE, selects Off-line as the fault type.

LFAILURE, selects Link FAilure as the fault type.

ANEGERROR, selects Auto-Negotiation Error as the fault type.

Example(s)

* SOUR:DATA:TEL:PORT:FREG:FTYP 1, NOERror

* SOUR:DATA:TEL:PORT:FREG:FTYP? 1 Returns NOERROR

Returns the status of the generation of a fault during the negotiation process.

See Also

* LINS32:SOURce:DATA:TELecom:PORT:FREGister:FTYPe

:SOURce[1..n]:DATA:TELecom:PORT:FREGister:NEGotiate?

Description

This query returns the fault condition that is generated only once, when pressing on the Negotiate button. Choices are:

For electrical port: No Error and Auto-Negotiation Error.

For 1000Mbps optical port: No Error, Off-line, Link Failure, and Auto-Negotiation Error.

At *RST the default value is set to No Error.

Syntax

:SOURce[1..n]:DATA:TELecom:PORT:FREGister:NEGotiate?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Example(s)

* SOUR:DATA:TEL:PORT:FREG:NEG? 1

:SOURce[1..n]:DATA:TELecom:PORT:LCAPabilities

Description

This command allows you to enable or disable the local port capabilities, by checking all supported predefined speed, duplex and flow control combination.

At *RST this setting is disabled by default.

Syntax

:SOURce[1..n]:DATA:TELecom:PORT:LCAPabilities <wsp><Port>, <Capabilities>

:SOURce[1..n]:DATA:TELecom:PORT:LCAPabilities

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Capabilities:

The program data syntax for the parameter is defined as a <BOOLEAN PROGRAM DATA> element.

Enables or disables the local port capabilities, by checking all supported predefined speed, duplex and flow control combination.

Example(s)

* SOUR:DATA:TEL:PORT:LCAP 1, On

* SOUR:DATA:TEL:PORT:LCAP? 1 Returns 1

See Also

* LINS32:SOURce:DATA:TELecom:PORT:LCAPabilities?

:SOURce[1..n]:DATA:TELecom:PORT:LCAPabilities?

Description

This query returns the status of the local port capabilities, by checking all supported predefined speed, duplex and flow control combination.

At *RST this setting is disabled by default.

Syntax

:SOURce[1..n]:DATA:TELecom:PORT:LCAPabilities? <wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Status>

:SOURce[1..n]:DATA:TELecom:PORT:LCAPabilities?

Response(s)

Status:

The response data syntax for <Status> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of the local port capabilities, by checking all supported predefined speed, duplex and flow control combination.

Example(s)

* SOUR:DATA:TEL:PORT:LCAP 1, On

* SOUR:DATA:TEL:PORT:LCAP? 1 Returns 1

Returns the status of the local port capabilities.

See Also

* LINS32:SOURce:DATA:TELecom:PORT:LCAPabilities

:SOURce[1..n]:DATA:TELecom:PORT:SELect

Description

This command selects the supported port capabilities.

At *RST the supported port capabilities are disabled.

Syntax

:SOURce[1..n]:DATA:TELecom:PORT:SELect<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Example(s)

* SOUR:DATA:TEL:PORT:SEL? 1

:SOURce[1..n]:DATA:TELecom:PORT:CLEar

Description

This command clears the supported port capabilities that are not selected.

At *RST the supported port capabilities are disabled.

Syntax

:SOURce[1..n]:DATA:TELecom:PORT:CLEar<wsp> <Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Example(s)

* SOUR:DATA:TEL:PORT:CLE? 1

:SOURce[1..n]:DATA:TELecom:LCAPabilities

Description

This command allows you to select the supported port capabilities, when the local capabilities box is enabled. Choices are: 10Base-T, Half Duplex, 10Base-T, Full Duplex, 100Base-TX, Half Duplex, 100Base-TX, Full Duplex, 1000Base-T, Full Duplex, 1000Base-X, Full Duplex, Symmetric Pause, Asymmetric Pause.

At *RST the local capabilities are disabled by default.

Syntax

:SOURce:DATA:TELecom:LCAPabilities<wsp><Port>, 10BASETHDUPLEX|10BASETFDUPLEX|100BASETXHDUPLEX|100BASETXFDUPLEX|1000BASETFDUPLEX|1000BASEXFDUPLEX|SPAuse|APAuse

:SOURce[1..n]:DATA:TELecom:LCAPabilities

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Capabilities:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: 10BASETHDUPLEX|10BASETFDUPLEX| 100BASETXHDUPLEX|100BASETXFDUPLEX| 1000BASETFDUPLEX|1000BASEXFDUPLEX| SPAuse|APAuse.

Select the supported port capabilities, when the local capabilities box is enabled.

10BASETHDUPLEX, selects 10Base-T, Half Duplex as the supported port capability.

10BASETFDUPLEX, selects 10Base-T, Full Duplex as the supported port capability.

100BASETXHDUPLEX, selects 100Base-TX, Half Duplex as the supported port capability.

:SOURce[1..n]:DATA:TELecom:LCAPabilities

100BASETXFDUPLEX, selects 100Base-TX, Full Duplex as the supported port capability.

1000BASETFDUPLEX, selects 1000Base-T, Full Duplex as the supported port capability.

1000BASEXFDUPLEX, selects 1000Base-X, Full Duplex as the supported port capability.

SPAuse, selects Symmetric Pause as the supported port capability.

APAuse, selects Asymmetric Pause as the supported port capability.

Example(s)

* SOUR:DATA:TEL:LCAP 1,10BASETHDUPLEX

* SOUR:DATA:TEL:LCAP? 1 Returns 10BASETHDUPLEX

See Also

* LINS30:SOURce[1..n]:DATA:TELecom:LCAPabilities?

:SOURce[1..n]:DATA:TELecom:LCAPabilities?

Description

This query returns the supported port capabilities, when the local capabilities box is enabled. Choices are: 10Base-T, Half Duplex, 10Base-T, Full Duplex, 100Base-TX, Half Duplex, 100Base-TX, Full Duplex, 1000Base-T, Full Duplex, 1000Base-X, Full Duplex, Symmetric Pause, Asymmetric Pause.

At *RST the local capabilities are disabled by default.

Syntax

:SOURce[1..n]:DATA:TELecom:LCAPabilities?<wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Status>

:SOURce[1..n]:DATA:TELecom:LCAPabilities?

Response(s)

Status:

The response data syntax for <Status> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the supported port capabilities, when the Local Capabilities box is enabled.

10BASETHDUPLEX, selects 10Base-T, Half Duplex as the supported port capability.

10BASETFDUPLEX, selects 10Base-T, Full Duplex as the supported port capability.

100BASETXHDUPLEX, selects 100Base-TX, Half Duplex as the supported port capability.

100BASETXFDUPLEX, selects 100Base-TX, Full Duplex as the supported port capability.

1000BASETFDUPLEX, selects 1000Base-T, Full Duplex as the supported port capability.

1000BASEXFDUPLEX, selects 1000Base-X, Full Duplex as the supported port capability.

SPAUSE, selects Symmetric Pause as the supported port capability.

APAUSE, selects Asymmetric Pause as the supported port capability.

Example(s)

* SOUR:DATA:TEL:LCAP 1,10BASETHDUPLEX

* SOUR:DATA:TEL:LCAP? 1 Returns 10BASETHDUPLEX

Returns the supported port capabilities.

See Also

* LINS30:SOURce:DATA:TELecom:LCAPabilities

Auto Negotiation RX Command Reference

:FETCh[1..n]:DATA:TELecom:PORT:STATus?

Description

This query returns the status of the Port.

Syntax

:FETCh[1..n]:DATA:TELecom:PORT:STATus?<wsp> <Port>, ANEGotiation|RFAult|SPEed|DUPLex|FCONtrol|LCLock

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Status:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> element for this parameter are: ANEGotiation|RFAult|SPEed|DUPLex|FCONtrol|LCLock

:FETCh[1..n]:DATA:TELecom:PORT:STATus?

ANEGotiation, indicates the auto-negotiation status. Possible values are:

Negotiating, indicates that the auto-negotiation process is running and not completed yet.

Completed: indicates that the auto-negotiation process has completed successfully.

Parallel Detect Fail: indicates that auto-negotiation has failed through the parallel detection process while negotiating in 10/100Base-T.

RFAult, indicates the remote fault error. Possible values are Error-Offline (1000Base-X only) , Error-Link Fault (1000Base-X only), and Error-Auto-Negotiation error.

SPEed, indicates the negotiated speed. Possible values are 10, 100, and 1000.

DUPLex, indicates the negotiated duplex mode. Possible values are Half, and Full.

FCONtrol, indicates the negotiated flow control. Possible values are None, Enable TX, Enable RX, and Enable RX and TX.

LCLock, indicates the negotiated clock source. The local clock is negotiated only in 1000Base-T (electrical). Possible values are Local, and Remote.

Response Syntax <Values>

:FETCh[1..n]:DATA:TELecom:PORT:STATus?

Response(s)

Values:

The response data syntax for <Values> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the status of the Port.

ANEGOTIATION, returns the auto-negotiation status. Possible values are:

NEGOTIATING, returns that the auto-negotiation process is running and not completed yet.

COMPLETED, returns that the auto-negotiation process has completed successfully.

PARALLEL DETECT FAIL, returns that auto-negotiation has failed through the parallel detection process, while negotiating in 10/100Base-T.

RFAULT, returns the remote fault error. Possible values are Error-Offline (1000Base-X only) , Error-Link Fault (1000Base-X only), and Error-Auto-Negotiation error.

SPEED, returns the negotiated speed. Possible values are 10, 100, and 1000.

DUPLEX, returns the negotiated duplex mode. Possible values are Half, and Full.

FCONTROL, returns the negotiated flow control. Possible values are None, Enable TX, Enable RX, and Enable RX and TX.

:FETCh[1..n]:DATA:TELecom:PORT:STATus?

LCLOCK, returns the negotiated clock source. The local clock is negotiated only in 1000Base-T (electrical). Possible values are Local, and Remote.

Example(s)

* FETC:DATA:TEL:PORT:STAT? 1, ANEGotiation

Returns the status of the Port.

:FETCh[1..n]:DATA:TELecom:PORT:STATus:LINK?

Description

This query returns the status of the link at the input port of the corresponding Ethernet interface.

Syntax

:FETCh[1..n]:DATA:TELecom:PORT:STATus:LINK? <wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

:FETCh[1..n]:DATA:TELecom:PORT:STATus:LINK?

Response Syntax <Status>

Response(s) Status:

The response data syntax for <Status> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the status of the link at the input port of the corresponding Ethernet interface.

ABSENT, indicates that the link is absent.

INACTIVE, indicates that the link is inactive.

Example(s) * FETC:DATA:TEL:PORT:STAT:LINK? 1

Returns the status of the link at the input port of the corresponding Ethernet interface.

Traffic Scan

:SOURce:DATA:TELecom:TSCan:SCAN:ENABle

Description	This command allows start the scanning according to the configuration. This command is an event and has no associated *RST condition or query form.
Syntax	:SOURce:DATA:TELecom:TSCan:SCAN:ENABle <wsp><Enabled>, <Enable>
Parameter(s)	Enabled: The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element. Selects the port number 1 or 2. Enable: The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element. Allows to start the Traffic Scan.
Example(s)	SOUR:DATA:TEL:TSC:SCAN:ENAB 1,1
See Also	SOURce:DATA:TELecom:TSCan:SCAN:ENABle 1,0 SOURce:DATA:TELecom:TSCan:SCAN:ENABle? 1

:SOURce:DATA:TELecom:TSCan:SCAN:ENABle?

Description

This query returns the scanning status.

This command is an event and has no associated *RST condition or query form.

Syntax

:SOURce:DATA:TELecom:TSCan:SCAN:ENABle? <wsp><port>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Set>

:SOURce:DATA:TELecom:TSCan:SCAN:ENABle?

Response(s)	Set: The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the Traffic Scan Status.
Example(s)	SOUR:DATA:TEL:TSC:SCAN:ENABl? 1
See Also	SOURce:DATA:TELecom:TSCan:SCAN:ENABle 1,1 SOURce:DATA:TELecom:TSCan:SCAN:ENABle? 1

:SOURce:DATA:TELecom:TSCan:MODE:TYPe

Description

This command allows the selection of traffic scan mode.

At *RST this value is set to VLAN.

Syntax

:SOURce:DATA:TELecom:TSCan:MODE:TYPe <wsp><Enabled>, VLAN|MPLS

Parameter(s)

Enabled:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: VLAN|MPLS.

Allows the selection of traffic scan mode.

VLAN, selects VLAN as the traffic scan mode.

MPLS, selects VLAN as the traffic scan mode.

Example(s)

SOUR:DATA:TEL:TSCan:MODE:TYP 1,VLAN

See Also

SOURce:DATA:TELecom:TSCan:MODE:TYPe 1,VLAN

SOURce:DATA:TELecom:TSCan:MODE:TYPe? 1

:SOURce:DATA:TELecom:TSCan:MODE:TYPe?

Description

This query returns the selected of traffic scan mode.

At *RST this value is set to VLAN.

Syntax

:SOURce:DATA:TELecom:TSCan:MODE:TYPe? <wsp><Port>

Parameter(s)

Port:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Mode>

:SOURce:DATA:TELecom:TSCan:MODE:TYPe?

Response(s)

Mode:

The response data syntax for <Mode> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the mode of traffic scan.

Example(s)

SOUR:DATA:TEL:TSC:MODE:TYP? 1

See Also

SOURce:DATA:TELecom:TSCan:MODE:TYPe 1,MPLS

SOURce:DATA:TELecom:TSCan:MODE:TYPe? 1

:SOURce:DATA:TELecom:TSCan:LEVel:TYPe

Description

This command allows the selection of the criteria that will be used to filter the incoming VLAN or MPLS traffic flows.

At *RST this value is set to All.

Syntax

:SOURce:DATA:TELecom:TSCan:LEVel:TYPe <wsp><Port>, VLAN|MPLS, EVLAN|SVLAN|CVLAN|UNT|ALL|1LAB|2LAB

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the port number 1 or 2.

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: VLAN|MPLS.

Allows the selection of the criteria that will be used to filter the incoming traffic flow.

VLAN, selects the criteria that will be used to filter the incoming VLAN traffic flow.

MPLS, selects the criteria that will be used to filter the incoming MPLS traffic flow.

:SOURce:DATA:TELecom:TSCan:LEVel:TYPe

Level,

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: EVLAN |SVLAN |CVLAN|UNT|ALL|1LAB|2LAB.

Sets the level type.

EVLAN, selects level type as EVLAN.

SVLAN, selects level type as SVLAN.

CVLAN, selects level type as CVLAN.

UNT, selects level type as UNT.

ALL, selects level type as ALL.

1LAB, selects level type as 1LAB.

2LAB, selects level type as 2LAB.

Example(s)

SOUR:DATA:TEL:TSC:LEV:TYP 1,VLAN,EVLAN

See Also

SOURce:DATA:TELecom:TSCan:MODE:TYPe 1,VLAN

SOURce:DATA:TELecom:TSCan:LEVel:TYPe 1,VLAN,EVLAN

SOURce:DATA:TELecom:TSCan:LEVel:TYPe? 1,VLAN

:SOURce:DATA:TELecom:TSCan:LEVel:TYPe?

Description

This query returns the selected criteria that will be used to filter the incoming VLAN or MPLS traffic flows.

At *RST this value is set to All.

Syntax

:SOURce:DATA:TELecom:TSCan:LEVel:TYPe <wsp><Port>

Parameter(s)

Port:

The program data syntax for theparameter is defined as a <CHARACTER PROGRAM DATA> element.

Selects the port number 1 or 2.

Response Syntax

<Level>

:SOURce:DATA:TELecom:TSCan:LEVel:TYPe?

Response(s)

Level:

The response data syntax for <Level> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the level of traffic scan.

Example(s)

SOUR:DATA:TEL:TSC:LEV:TYP? 1,VLAN

See Also

SOURce:DATA:TELecom:TSCan:MODE:TYPe 1,MPLS

SOURce:DATA:TELecom:TSCan:LEVel:TYPe 1,MPLS,ALL

SOURce:DATA:TELecom:TSCan:LEVel:TYPe? 1,MPLS

:FETCh:DATA:TELecom:TSCan:LINK:RATe?

Description

This query returns the network link rate.

This query is not associated with any *RST value.

Syntax

:FETCh:DATA:TELecom:TSCan:LINK:RATe? <wsp><Port>, <Mode>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL PROGRAM DATA> element.

Selects the port number 1 or 2.

Mode:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

Starts the Traffic Scan.

Response Syntax

<Rate>

:FETCh:DATA:TELecom:TSCan:LINK:RATe?

Response(s)

Rate:

The response data syntax for <Rate> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the VLAN link rate of traffic scan.

Example(s)

FETC:DATA:TEL:TSC:LINK:RAT? 1,VLAN

See Also

SOURce:DATA:TELecom:TSCan:MODE:TYPe 1,MPLS

SOURce:DATA:TELecom:TSCan:MODE:TYPe 1,VLAN

FETCh:DATA:TELecom:TSCan:LINK:RATe? 1,VLAN

FETCh:DATA:TELecom:TSCan:LINK:RATe? 1,MPLS

:FETCh:DATA:TELecom:TSCan:LREACHed:STATus?

Description

This query returns the status of when resource limit is reached, new traffic flows are no longer created in the discovery results.

This query is not associated with any *RST value.

Syntax

:FETCh:DATA:TELecom:TSCan:LREACHed:STATus? <wsp><Port>, VLAN|MPLS

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Mode:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: VLAN|MPLS.

Allows the selection of the criteria that will be used to filter the incoming traffic flow.

VLAN, selects the criteria that will be used to filter the incoming VLAN traffic flow.

MPLS, selects the criteria that will be used to filter the incoming MPLS traffic flow.

:FETCh:DATA:TELecom:TSCan:LREACHed:STATus?

Response Syntax <Lreached>

Response(s) Lreached:

The response data syntax for <Lreached> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the VLAN Status of Limit Reached.

Example(s) FETC:DATA:TEL:TSC:LREAC:STAT? 1,MPLS

See Also SOURce:DATA:TELecom:TSCan:MODE:TYPe 1,MPLS

SOURce:DATA:TELecom:TSCan:MODE:TYPe 1,VLAN

FETCh:DATA:TELecom:TSCan:LREACHed:STATus? 1,MPLS

FETCh:DATA:TELecom:TSCan:LREACHed:STATus? 1,VLAN

:FETCh:DATA:TELecom:TSCan:LIST?

Description

This query returns all the output values as per the selection.

This query is not associated with any *RST value.

Syntax

:FETCh:DATA:TELecom:TSCan:LIST?
<wsp><Port>,VLAN|MPLS

:FETCh:DATA:TELecom:TSCan:LIST?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Mode:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: VLAN|MPLS.

Allows the selection of the criteria that will be used to filter the incoming traffic flow.

VLAN, selects the criteria that will be used to filter the incoming VLAN traffic flow.

MPLS, selects the criteria that will be used to filter the incoming MPLS traffic flow.

Row number:

The program data syntax for the third parameter is defined as a <numeric value> element.

Starts the Traffic Scan.

Response Syntax

<List>

:FETCh:DATA:TELecom:TSCan:LIST?

Response(s)

List:

The response data syntax for <List> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the Complete List of traffic scan.

Example(s)

FETC:DATA:TEL:TSC:LIST? 1,VLAN,1

See Also

SOURce:DATA:TELecom:TSCan:MODE:TYPe 1,MPLS

SOURce:DATA:TELecom:TSCan:MODE:TYPe 1,VLAN

FETCh:DATA:TELecom:TSCan:LIST? 1,VLAN,1

FETCh:DATA:TELecom:TSCan:LIST? 1,MPLS,1

:FETCh:DATA:TELecom:TSCan:STATISTICS:FCOunt:TOTal?

Description

This query returns total frame count.

This query is not associated with any *RST value.

Syntax

:FETCh:DATA:TELecom:TSCan:STATISTICS:FCOunt:TOTal?<wsp><Port>,VLAN|MPLS

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Mode:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: VLAN|MPLS.

Allows the selection of the criteria that will be used to filter the incoming traffic flow.

VLAN, selects the criteria that will be used to filter the incoming VLAN traffic flow.

MPLS, selects the criteria that will be used to filter the incoming MPLS traffic flow.

:FETCh:DATA:TELecom:TSCan:STATISTICS:FCOunt:TOTal?

Response Syntax

<Count>

Response(s)

Count:

The response data syntax for <Lreached> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the total Frame count of traffic scan.

Example(s)

FETC:DATA:TEL:TSC:STATISTICS:FCO:TOT? 1,VLAN

See Also

SOURce:DATA:TELecom:TSCan:MODE:TYPe 1,MPLS

SOURce:DATA:TELecom:TSCan:MODE:TYPe 1,VLAN

FETCh:DATA:TELecom:TSCan:STATISTICS:FCOunt:TOTal? 1,VLAN

FETCh:DATA:TELecom:TSCan:STATISTICS:FCOunt:TOTal? 1,MPLS

:FETCh:DATA:TELecom:TSCan:STATISTICS:RATe:TOTal?

Description

This query returns total rate count.

This query is not associated with any *RST value.

Syntax

:FETCh:DATA:TELecom:TSCan:STATISTICS:RATe:TOTal?<wsp><Port>,VLAN|MPLS

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the port number 1 or 2.

Mode:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: VLAN|MPLS.

Allows the selection of the criteria that will be used to filter the incoming traffic flow.

VLAN, selects the criteria that will be used to filter the incoming VLAN traffic flow.

MPLS, selects the criteria that will be used to filter the incoming MPLS traffic flow.

:FETCh:DATA:TELecom:TSCan:STATISTICS:RATe:TOTal?

Response Syntax <Rate>

Response(s) Rate:

The response data syntax for <Rate> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the total Statistics Frame Line rate of traffic scan.

Example(s) FETC:DATA:TEL:TSC:STATISTICS:RAT:TOTal? 1,VLAN

See Also SOURce:DATA:TELecom:TSCan:MODE:TYPe 1,MPLS

SOURce:DATA:TELecom:TSCan:MODE:TYPe 1,VLAN

FETCh:DATA:TELecom:TSCan:STATISTICS:FCOunt:TOTal? 1,VLAN

FETCh:DATA:TELecom:TSCan:STATISTICS:FCOunt:TOTal? 1,MPLS

Burst & Emix Command Reference

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM :TESTs

Description

This command enables or disables the selected EtherSam sub-tests.

At *RST condition, this value is set to ON.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:TESTs<wsp>SCONTest|SPERTest,ON|OFF

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM :TESTs

Parameter(s)

Test:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: SCONTest|SPERTest.

Selects the type of EtherSam sub-tests.

SCONTest, selects the Service Configuration Test as the EtherSam sub-tests.

SPERTest, selects the Service performance Test as the EtherSam sub-tests.

Enable:

The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.

The allowed <BOOLEAN PROGRAM DATA> elements for this parameter are: ON|OFF.

Enables or disables the selected EtherSam sub-tests.

ON, sets the EtherSam sub-tests as ON.

OFF, sets the EtherSam sub-tests as OFF.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:TESTs SCONTest,1

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:TESTs

See Also SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:OVERview:SERVice:ENAble 1,1

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:TESTs?

Description

This query returns the status of the selected EtherSam sub-tests.

At *RST condition, this value is set to ON.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:TESTs?<wsp>SCONTest|SPERTest

Parameter(s)

Test:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: SCONTest |SPERTest.

Selects the type of EtherSam sub-tests.

SCONTest, selects the Service Configuration Test as the EtherSam sub-tests.

SPERTest, selects the Service performance Test as the EtherSam sub-tests.

Response Syntax

<Status>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:TESTs?

Response(s)

Status:

The response data syntax for <Status> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of the selected EtherSam sub-tests.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:TESTs SCONTest,1

SOURce:DATA:TELecom:ETHernet:ESAM:TESTs? SCONTest Returns 1

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:OVERview:SERVice:ENAble? 1

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:OVERview:SERVice:ENAble

Description

This command enables or disables the selected service.

This command is not associated with any *RST condition.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:OVERview:SERVice:ENAble <wsp><Service>,ON|OFF

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:OVERview:SERVice:ENAble

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.

Enable:

The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.

The allowed <BOOLEAN PROGRAM DATA> elements for this parameter are: ON|OFF.

Enables or disables the service.

ON, sets the service as ON.

OFF, sets the service as OFF.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:OVERview:SERVice:ENAble 1,1

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:TESTs SCONTest,1

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:OVERview:SERVice:ENAble?

Description

This query returns the status of the selected service.

This query is not associated with any *RST condition.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:OVERview:SERVice:ENAble? <wsp><Service>

Parameter(s)

Service:

The program data syntax for the parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Response Syntax

<Enable>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:OVERview:SERVice:ENAble?

Response(s)

Enable:

The response data syntax for <Enable> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of the service.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:OVERview:SERVice:ENAble 1,1

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:OVERview:SERVice:ENAble? 1 Returns 1

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:TESTs?
SCONTest

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:OVERview:SCOTest:TYPE

Description

This command enables the type of service configuration test.

At *RST condition, Ramp is enabled and Burst is disabled.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:OVERview:SCOTest:TYPE<wsp>BURSTTest|RAMPTest,ON|OFF

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:OVERview:SCOTest:TYPE

Parameter(s)

Test:

The program data syntax for the first parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: BURSTTest|RAMPTest.

Selects the type of Service Configuration Test.

BURSTTest, selects Burst test as the Service Configuration Test.

RAMPTest, selects Ramp test as the Service Configuration Test.

Enable:

The program data syntax for the second parameter is defined as a <BOOLEAN PROGRAM DATA> element.

The allowed <BOOLEAN PROGRAM DATA> elements for this parameter are: ON|OFF.

Enables or disables the Service Configuration Test.

ON, sets the Service Configuration Test as ON.

OFF, sets the Service Configuration Test as OFF.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:OVERview:SCOTest:TYPE RAMPTest,0

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:OVERview:SCOTest:TYPE

See Also SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:OVERview:SERVice:ENAble 1,1

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:OVERview:SCOTest:TYPE?

Description

This query returns status of type of Service Configuration Test.

At *RST condition, Ramp is enabled and Burst is disabled.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:OVERview:SCOTest:TYPE? <wsp> BURSTTest|RAMPTest

Parameter(s)

Test:

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: BURSTTest|RAMPTest.

Selects the type of Service Configuration Test.

BURSTTest, selects Burst test as the Service Configuration Test.

RAMPTest, selects Ramp test as the Service Configuration Test.

Response Syntax

<Status>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:OVERview:SCOTest:TYPE?

Response(s)

Status:

The response data syntax for <Status> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of the Service Configuration Test.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:OVERview:SCOTest:TYPE RAMPTest,1

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:OVERview:SCOTest:TYPE? RAMPTest
Returns 1

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:OVERview:SERVice:ENAble? 1

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:TYPE

Description

This command sets the Frame size type for the selected service and selected port.

At *RST condition, the value is set to Fixed.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:TYPE<wsp><Port>,<Service>,FIXed|EMIX|RANDom

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:TYPE

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

FrameSize Type:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:
FIXed|EMIX|RANDom

Selects the FrameSize type.

FIXed, selects FIXed as the FrameSize type.

EMIX, selects EMIX as the FrameSize type.

RANDom, selects RANDom as the FrameSize type.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:TYPE 1,1,Fixed

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:TYPE

See Also SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:OVERview:SCOTest:TYPE RAMPTest,1

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:TYPE?

Description

This query returns the frame size type for the selected service and selected port.

At *RST condition, the value is set to Fixed.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:TYPE?<wsp><Port>,<Service>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Response Syntax

<FrameSize Type>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:TYPE?

Response(s)

FrameSize Type:

The response data syntax for <FrameSize Type> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the FrameSize type.

FIXed, Fixed is selected as frame FrameSize type.

EMIX, EMIX is selected as frame FrameSize type.

RANDom, Random is selected as FrameSize type.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:TYPE 1,1,Fixed

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:TYPE? 1,1 Returns Fixed

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:OVERview:SCOTest:TYPE? RAMPTest

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:QUANtity

Description

This command sets the quantity of EMIX frame for the selected service and selected port.

At *RST condition, the value is set to 5.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:QUANtity <wsp><Port>,<Service>,<Quantity>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:QUANtity

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Quantity:

The program data syntax for the third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the quantity of frames.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:QUANtity 1,1,5

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:EMIX:FRAMesize 1,1,1,90

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:QUANtity?

Description

This query returns the quantity of EMIX frames for the selected service and selected port.

At *RST condition, the value is set to 5.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:QUANtity? <wsp><Port>,<Service>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Response Syntax

<Quantity>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:QUANtity?

Response(s)

Quantity:

The response data syntax for <Quantity> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the quantity of EMIX frames for the selected service.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:QUANtity 1,1,5

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:QUANtity? 1,1
Returns 5

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:EMIX:FRAMesize? 1,1,1

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:RESDefault

Description

This command restores the Emix frame size configuration to default for the selected service and selected port.

This command is not associated with any *RST condition.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:RESDefault <wsp><Port>,<Service>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:RESDefault

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:RESDefault 1,1

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:QUANtity 1,1,5

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:EMIX:FRAMesize

Description

This command sets the frame size for the selected service, selected EMIX frame and for the selected port.

This command is not associated with any *RST condition.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:EMIX:FRAMesize<wsp><Port>,<Service>,<EMIX frame>,<EMIX Frame Size>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:EMIX:FRAMesize

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second 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 third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the EMIX Frame.

EMIX Frame Size:

The program data syntax for the fourth parameter is defined as a <numeric_value> element.

The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum

Sets the EMIX Frame size.

MAXimum, sets MAXimum as EMIX Frame Size.

MINimum, sets MINimum as EMIX Frame Size.

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:EMIX:FRAMesize

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:EMIX:FRAMesize 1,1,1,90

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:QUANtity 1,1,5

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:EMIX:FRAMesize?

Description

This query returns the frame size of the selected service, selected Emix frame and for selected port.

This command is not associated with any *RST condition.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:EMIX:FRAMesize?<wsp><Port>,<Service>,<EMIX frame>,[MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:EMIX:FRAMesize?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second 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 third parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Sets the EMIX Frame.

The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element.

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:EMIX:FRAMesize?

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum

Sets the frame size of EMIX frames for the selected service.

MAXimum, sets MAXimum as the frame size of EMIX frames.

MINimum, sets MINimum as the frame size of EMIX frames.

This parameter is optional. If no token is specified, the current framesize value will be returned.

Response Syntax <FrameSize>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:EMIX:FRAMesize?

Response(s)

FrameSize:

The response data syntax for <FrameSize> 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:CONFiguration:SERVices:FRASize:EMIX:FRAMesize 1,1,1,90

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:EMIX:FRAMesize? 1,1,1 Returns 90

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRASize:QUANtity? 1,1

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE:ENABle

Description

This command enables or disables the type of Burst Size for the selected service.

At *RST condition, CBS is enabled and EBS is disabled.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE:ENABle<wsp><Service>,CBS|EBS,ON|OFF

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE:ENABle

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.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: CBS|EBS.

Sets the type of Burst.

CBS, selects CBS as the type of Burst.

EBS, selects EBS as the type of Burst.

Enable:
The program data syntax for the third parameter is defined as a <BOOLEAN PROGRAM DATA> element.

The allowed <BOOLEAN PROGRAM DATA> elements for this parameter are: ON|OFF

Enables the type burst size for selected service.
ON, sets the type burst size as ON.
OFF, sets the type burst size as OFF.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE:ENABle 1,CBS,1

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE:ENABle

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE
1,cbs,4050

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE:ENABle?

Description

This query returns the status of burst size type for the selected service.

At *RST condition, CBS is enabled and EBS is disabled.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE:ENABle?<wsp><Service>,CBS|EBS

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.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: CBS|EBS

Sets the type of Burst.

CBS, selects CBS as the type of Burst.

EBS, selects EBS as the type of Burst.

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE:ENABle?

Response Syntax <Status>

Response(s) Status:

The response data syntax for <Status> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of burst size type for the selected service.

Example(s) SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE:ENABle 1,CBS,on
SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE:ENABle? 1,CBS Returns 1

See Also SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE? 1,cbs

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE

Description

This command sets the burst size for the selected burst size type, selected service, selected direction, and selected port.

At *RST condition, the value is set to 12144.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE <wsp><Port>,<Service>,LTOR|RTOL,CBS|EBS,<Size>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Direction:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LTOR|RTOL

Selects the Direction.
LTOR, sets the direction from local to remote.
RTOL, sets the direction from remote to local.
Burst Size Type:
The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element.

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: CBS|EBS

Sets the type of Burst.
CBS, selects CBS as the type of Burst.
EBS, selects EBS as the type of Burst.
Size:
The program data syntax for the fifth parameter is defined as a <numeric_value> element.

The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum

Sets the burst size.
MAXimum, sets MAXimum as the burst size.
MINimum, sets MINimum as the burst size.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE 1,1,LTOR,cbs,2050

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE 1,1,LTOR,cbs,2050
SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE? 1,1,LTOR,cbs

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE?

Description

This query returns the burst size for the selected burst size type, selected service, selected direction, and selected port.

At *RST condition, the value is set to 12144.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE? <wsp><Port>,<Service>,LTOR|RTOL,CBS|EBS,[MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Direction:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LTOR|RTOL

Selects the Direction.
LTOR, sets the direction from local to remote.
RTOL, sets the direction from remote to local.

Burst Size Type:
The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: CBS|EBS

Sets the type of Burst.
CBS, selects CBS as the type of Burst.
EBS, selects EBS as the type of Burst.

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE?

The program data syntax for the fifth parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:
MAXimum|MINimum

Sets the burst size for selected burst size type.
MAXimum, sets MAXimum as the burst size for selected burst size type.
MINimum, sets MINimum as the burst size for selected burst size type.
This parameter is optional. If no token is specified, the current burst size value will be returned.

Response Syntax <Size>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE?

Response(s)

Size:

The response data syntax for <Size> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the burst size for selected burst size type.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE? 1,1,LTOR,cbs

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE 1,1,LTOR,cbs,2050
SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE? 1,1,LTOR,cbs
SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE 1,cbs,4050
SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE? 1,cbs

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:INFRate:ENABle

Description

This command enables or disables the information rate for the selected service.

At *RST condition, CIR is enabled and CIR+EIR is disabled.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:INFRate:ENABle<wsp><Service>,CIR|EIR,ON|OFF

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:INFRate:ENABle

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.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: CIR|EIR

Selects the information rate for the selected service.
CIR, selects CIR (M/bits) as the information rate for the selected service.
EIR, selects EIR +CIR (M/bits) as the information rate for the selected service.
Enable:
The program data syntax for the third parameter is defined as a <BOOLEAN PROGRAM DATA> element.

The allowed <BOOLEAN PROGRAM DATA> elements for this parameter are: ON|OFF

Enables the information rate for the selected service.

ON, sets the information rate as ON.

OFF, sets the information rate as OFF.

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:INFRate:ENABle

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:INFR:ENABle 1,Cir,1

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:INFR 1,1,LTOR,Cir,50

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:INFRate:ENABle?

Description

This query returns the status of information rate for the selected service.

At *RST condition, CIR is enabled and CIR+EIR is disabled.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:INFRate:ENABle?<wsp><Service>,CIR|EIR

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:INFRate:ENABle?

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.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: CIR|EIR

Selects the information rate for the selected service.
CIR, selects CIR (M/bits) as the information rate for the selected service.
EIR, selects EIR +CIR (M/bits) as the information rate for the selected service.

Response Syntax

<Status>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:INFRate:ENABle?

Response(s)

Status:

The response data syntax for <Status> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of the information rate for the selected service.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:INFR:ENABle? 1,CIR

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:INFR? 1,1,LTOR,Cir

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:INFRate

Description

This command sets the information rate for the selected service, selected parameter, selected direction, and selected port.

At *RST condition, the rate is 50%*Line Rate for CIR and 75%*Line Rate for CIR+EIR.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:INFRate <wsp><Port>,<Service>,LTOR|RTOL,CIR|EIR,<Rate>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:INFRate

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Direction:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LTOR|RTOL

Selects the Direction.
LTOR, sets the direction from local to remote.
RTOL, sets the direction from remote to local.
Information Rate Type:
The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element.

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:INFRate

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: CIR|EIR

Selects the Information Rate Type.
CIR, selects CIR as Information Rate Type.
EIR, selects CIR+EIR as Information Rate Type.
Rate:
The program data syntax for the fifth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

The allowed <DECIMAL NUMERIC PROGRAM DATA> elements for this parameter are: MAXimum|MINimum

Sets the Information Rate.

MAXimum, sets MAXimum as the information rate.

MINimum, sets MINimum as the information rate.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:INFR 1,1,LTOR,Cir,50

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE 1,1,LTOR,cbs,2050

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:INFRate?

Description	This query returns the information rate for the selected service, selected parameter, selected direction, and selected port. At *RST condition, the rate is 50%*Line Rate for CIR and 75%*Line Rate for CIR+EIR.
Syntax	:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:INFRate?<wsp><Port>,<Service>,LTOR|RTOL,CIR|EIR,[MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:INFRate?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Direction:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LTOR|RTOL

Selects the Direction.
LTOR, sets the direction from local to remote.
RTOL, sets the direction from remote to local.

Information Rate Type:
The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: CIR|EIR

Selects the Information Rate Type.
CIR, selects CIR as Information Rate Type.
EIR, selects CIR+EIR as Information Rate Type.

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:INFRate?

The program data syntax for the fifth parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:
MAXimum|MINimum

Sets the information rate for selected service.

MAXimum, sets MAXimum as the information rate.

MINimum, sets MINimum as the information rate.

This parameter is optional. If no token is specified, the current information rate value will be returned.

Response Syntax <Rate>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:INFRate?

Response(s)

Rate:

The response data syntax for <Rate> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the information rate for the selected service.

Example(s)

LINS10:SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:INFR? 1,1,LTOR,CIR

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:INFR:ENABle? 1,CIR

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:PERCriteria:ENABle

Description

This command enables the performance criteria for the selected service, selected direction, and selected port.

At *RST condition, all parameters are enabled for both directions.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:PERCriteria:ENABle<wsp><Port>,<Service>,LTOR|RTOL,MAXJ|MAXRTL|MAXFL,ON|OFF

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:PERCriteria:ENABle

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Direction:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LTOR|RTOL

Selects the Direction.
LTOR, sets the direction from local to remote.
RTOL, sets the direction from remote to local.
Information Rate Type:
The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:
MAXJ|MAXRTL|MAXFL

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:PERCriteria:ENABle

Selects the Performance Criteria Type.

MAXJ, selects MAXJitter (ms) as Performance Criteria Type.

MAXRTL, selects Max Round-Trip latency (ms) as Performance Criteria Type.

MAXFL, selects Max Frame Loss (%) as Performance Criteria Type.

Enable:

The program data syntax for the fifth parameter is defined as a <BOOLEAN PROGRAM DATA> element.

Enables the respective Performance Criteria type.

ON, sets the Performance Criteria type as ON.

OFF, sets the Performance Criteria type as OFF.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:PERCriteria:ENABle 1,1,LTOR,MAXJ,1

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:PERCriteria:VALUe 1,1,LTOR,MAXJ,1000

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:PERCriteria:ENABle?

Description

This query returns the performance criteria for the selected service, selected direction, and selected port.

At *RST condition, all parameters are enabled for both directions.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:PERCriteria:ENABle?<wsp><Port>,<Service>,LTOR|RTOL,MAXJ|MAXRTL|MAXFL

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:PERCriteria:ENABle?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Direction:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LTOR|RTOL

Selects the Direction.
LTOR, sets the direction from local to remote.
RTOL, sets the direction from remote to local.
Information Rate Type:
The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXJ|MAXRTL|MAXFL.

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:PERCriteria:ENABle?

Selects the Performance Criteria Type.

MAXJ, selects MAXJitter (ms) as Performance Criteria Type.

MAXRTL, selects Max Round-Trip latency (ms) as Performance Criteria Type.

MAXFL, selects Max Frame Loss (%) as Performance Criteria Type.

Response Syntax

<Status>

Response(s)

Status:

The response data syntax for <Status> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of performance criteria for the selected service.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:PERCriteria:ENABle? 1,1,LTOR,MAXJ

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:PERCriteria:VALUe? 1,1,LTOR,MAXJ

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:PERCriteria:VALUe

Description	This command sets the performance criteria values for the selected service, selected direction and selected port. At *RST condition, the values for Jitter to 2.0ms, Latency to 15.0ms, and Frame Loss to 0.1%.
Syntax	:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:PERCriteria:VALUe<wsp><Port>,<Service>,LTOR|RTOL,MAXJ|MAXRTL|MAXFL,<Value>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:PERCriteria:VALUe

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Direction:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LTOR|RTOL

Selects the Direction.
LTOR, sets the direction from local to remote.
RTOL, sets the direction from remote to local.
Information Rate Type:
The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:
MAXJ|MAXRTL|MAXFL

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:PERCriteria:VALUe

Selects the Performance Criteria Type.

MAXJ, selects MAXJitter (ms) as Performance Criteria Type.

MAXRTL, selects Max Round-Trip latency (ms) as Performance Criteria Type.

MAXFL, selects Max Frame Loss (%) as Performance Criteria Type.

Value:

The program data syntax for the fifth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

The allowed <DECIMAL NUMERIC PROGRAM DATA> elements for this parameter are: MAXimum|MINimum

Sets the Performance Criteria value.

MAXimum, sets MAXimum as the performance criteria value.

MINimum, sets MINimum as the performance criteria value.

Example(s)

```
SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:PERCriteria:VALUe 1,1,LTOR,MAXJ,1000
```

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:PERCriteria:VALUe

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:PERCriteria:ENABle 1,1,LTOR,MAXJ,1

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:PERCriteria:ENABle? 1,1,LTOR,MAXJ

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:PERCriteria:VALUe?

Description

This query returns the performance criteria values for the selected service, selected direction and selected port.

At *RST condition, the values for Jitter to 2.0ms, Latency to 15.0ms, and Frame Loss to 0.1%.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:PERCriteria:VALUe?<wsp><Port>,<Service>,LTOR|RTOL,MAXJ|MAXRTL|MAXFL,[MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:PERCriteria:VALUe?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Direction:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LTOR|RTOL

Selects the Direction.
LTOR, sets the direction from local to remote.
RTOL, sets the direction from remote to local.
Information Rate Type:
The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:
MAXJ|MAXRTL|MAXFL

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:PERCriteria:VALUe?

Selects the Performance Criteria Type.

MAXJ, selects MAXJitter (ms) as Performance Criteria Type.

MAXRTL, selects Max Round-Trip latency (ms) as Performance Criteria Type.

MAXFL, selects Max Frame Loss (%) as Performance Criteria Type.

The program data syntax for the fifth parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum

Sets the performance criteria values for the selected service.

MAXimum, sets MAXimum as the performance criteria value.

MINimum, sets MINimum as the performance criteria value.

This parameter is optional. If no token is specified, the current performance criteria value will be returned.

Response Syntax <Value>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:PERCriteria:VALUe?

Response

Value:

The response data syntax for <Value> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the performance criteria values for the selected service and performance criteria type.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:PERCriteria:VALUe? 1,1,LTOR,MAXJ

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:PERCriteria:ENABle 1,1,LTOR,MAXJ,1

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:TPARameter:BMRate

Description

This command sets the Burst max rate for the selected service, selected direction, and selected port.

At *RST condition, value is equal to Line Rate.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:TPARameter:BMRate <wsp><Port>,<Service>,LTOR|RTOL,<Burst Max Rate>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:TPARameter:BMRate

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Direction:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LTOR|RTOL

Selects the Direction.
LTOR, sets the direction from local to remote.
RTOL, sets the direction from remote to local.

Burst Max Rate:

The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:TPARameter:BMRate

	The allowed <DECIMAL NUMERIC PROGRAM DATA> elements for this parameter are: MAXimum|MINimum Sets the burst max rate. MAXimum, sets MAXimum as the burst max rate. MINimum, sets MINimum as the burst max rate.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:TPARameter:BMRate 1,1,LTOR,65
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE 1,1,LTOR,cbs,2050

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:TPARameter:BMRate?

Description

This query returns the Burst max rate for the selected service, selected direction, and selected port.

At *RST condition, value is equal to Line Rate.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:TPARameter:BMRate? <wsp><Port>,<Service>,LTOR|RTOL,[MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:TPARameter:BMRate?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Direction:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LTOR|RTOL

Selects the Direction.
LTOR, sets the direction from local to remote.
RTOL, sets the direction from remote to local.

The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:TPARameter:BMRate?

Sets the Burst max rate for the selected service, selected direction, and selected port.

MAXimum, sets MAXimum as the Burst max rate.

MINimum, sets MINimum as the Burst max rate.

This parameter is optional. If no token is specified, the current Burst max rate value will be returned.

Response Syntax

<Frame Size>

Response(s)

Frame Size:

The response data syntax for <Frame Size> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the Burst Max Rate for the selected service.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:TPARameter:BMRate? 1,1,LTOR

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:SLAParameter:BSIZE? 1,1,LTOR,cbs

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRAMe:FORMat:OUI

Description

This command sets the Frame format Organizationally Unique Identifier (OUI) type for the selected service and selected port.

At *RST condition, this is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRAMe:FORMat:OUI <wsp><Port>,<Service>, RFC1042|8021H|USERDEFINED

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRAMe:FORMat:OUI

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

OUI:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: RFC1042|8021H|USERDEFINED

Selects the OUI Type.

RFC1042, sets RFC1042 as the OUI type.

8021H, sets 8021H as the OUI type.

USERDEFINED, sets USERDEFINED as the OUI type.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRAM:FORM:OUI 1,1,8021H

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRAMe:FORMat:OUI

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:TPARameter:BMRate 1,1,LTOR,65

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRAMe:FORMat:OUI?

Description

This query returns the Frame format Organizationally Unique Identifier (OUI) type for the selected service and selected port.

At *RST condition, this is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRAMe:FORMat:OUI? <wsp><Port>,<Service>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Response Syntax

<OUI>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRAMe:FORMat:OUI?

Response (s)

OUI:

The response data syntax for <OUI> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the OUI Type for the selected service.

RFC1042, RFC1042 is selected as the OUI type.

8021H, 8021H is selected as the OUI type.

USERDEFINED, USERDEFINED is selected as the OUI type.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRAM:FORM:OUI? 1,1

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:TPARameter:BMRate? 1,1,LTOR

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ETHer

Description

This command sets the Ether Type. It allows to enter the Ether Type hexadecimal value (0000 to FFFF) for the selected service and selected port.

At *RST condition, the value is set to 0800.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ETHer<wsp><Port>,<Service>,<Value>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ETHer

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Value:

The program data syntax for the third parameter is defined as a <NON DECIMAL PROGRAM DATA> element.

Selects the Ether Type value.

Example(s)

SOURce:DATA:TELecom:ETHernet:STReam:ETHer 1,1,#H01

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:NOBSequence 6

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ETHer?

Description

This query returns the Ether Type for the selected service and selected port. The value returned is in a decimal format.

At *RST condition, the value is set to 0800.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ETHer?<wsp><Port>,<Service>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Response Syntax

<Value>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ETHer?

Response(s)	Value: The response data syntax for <Value> is defined as a <NR3 NUMERIC RESPONSE DATA> element. Returns the Ether Type value for the selected service.
Example(s)	SOURce:DATA:TELecom:ETHernet:STReam:ETHer? 1,1
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:NOBSequence?

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:NOBSequence

Description

This command sets the number of Burst sequence.

At *RST condition, the value is set to 2.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:NOBSequence<wsp><Number of Burst Sequence>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:NOBSequence

Parameter(s)	Number of Burst Sequence: The program data syntax for the parameter is defined as a <numeric_value> element. The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum Sets the number of Burst sequence. MAXimum, sets MAXimum as the number of Burst sequence. MINimum, sets MINimum as the number of Burst sequence.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:NOBSequence 6
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:RDERatio 50

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:NOBSequence?

Description

This query returns the number of burst sequence.

At *RST condition, the value is set to 2.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:NOBSequence?<wsp>[MAXimum|MINimum]

Parameter(s)

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum

Sets the number of Burst sequence.

MAXimum, sets MAXimum as the number of Burst sequence.

MINimum, sets MINimum as the number of Burst sequence.

This parameter is optional. If no token is specified, the current number of Burst sequence value will be returned.

Response Syntax

<Number of burst Sequence>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:NOBSequence?

Response(s)	Number of burst Sequence: The response data syntax for <Number of burst Sequence> is defined as a <NR1 NUMERIC RESPONSE DATA> element. Returns the number of Burst sequence.
Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:NOBSequence?
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:RDERatio?

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:RDERatio

Description

This command sets the refill delay ratio (%).

At *RST condition, the value is set to 50.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:RDERatio <wsp><Refil delay Ratio>|MAXimum|MINimum

Parameter(s)

Refil delay Ratio:

The program data syntax for the parameter is defined as a <numeric_value> element.

The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum

Sets the refill delay ratio (%).

MAXimum, sets MAXimum as the refill delay ratio (%).

MINimum, sets MINimum as the refill delay ratio (%).

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:RDERatio 50

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:BIRFrame 50

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM: CONFiguration:BURSt:PARameters:RDERatio?

Description

This query returns the refill delay ratio (%).

At *RST condition, the value is set to 50.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:
CONFiguration:BURSt:PARameters:RDERatio?
<wsp>[MAXimum|MINimum]

Parameter(s)

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are:
MAXimum|MINimum

Sets the refill delay ratio (%).

MAXimum, sets MAXimum as the refill delay ratio (%).

MINimum, sets MINimum as the refill delay ratio (%).

This parameter is optional. If no token is specified, the current refill delay ratio value will be returned.

Response Syntax

<Refil Delay Ratio>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:RDERatio?

Response(s)

Refil Delay Ratio:

The response data syntax for <Refil Delay Ratio> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the refill delay ratio (%).

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:RDERatio?

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:BIRFrame?

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:BIRFrame

Description

This command sets the Burst/IR frame ratio.

At *RST condition, the value is set to 90.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:BIRFrame <wsp><Burst IR frame ration>|MAXimum|MINimum

Parameter(s)

Burst IR frame ration:

The program data syntax for the parameter is defined as a <numeric_value> element.

The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum

Sets the Burst/IR frame ratio.

MAXimum, sets MAXimum as the Burst/IR frame ratio.

MINimum, sets MINimum as the Burst/IR frame ratio.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:BIRFrame 30

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:NOBSequence

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:BIRFrame?

Description

This query returns the Burst/IR frame ratio.

At *RST condition, the value is set to 90.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:BIRFrame? <wsp>[MAXimum|MINimum]

Parameter(s)

The program data syntax for the parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum

Sets the Burst/IR frame ratio.

MAXimum, sets MAXimum as the Burst/IR frame ratio.

MINimum, sets MINimum as the Burst/IR frame ratio.

This parameter is optional. If no token is specified, the current Burst/IR frame ratio value will be returned.

Response Syntax

<Burst ir Frame ratio>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:BIRFrame?

Response(s)

Burst ir Frame ratio:

The response data syntax for <Burst ir Frame ratio> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the Burst/IR frame ratio.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:BIRFrame?

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:PARameters:NOBSequence?

:FETCh:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:TABLe?

Description

This query returns CBS test time, EBS test time, total burst test time, values per direction, per service, and for the selected port.

This query is not associated with any *RST condition.

Syntax

:FETCh:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:TABLe?<wsp><Port>, <Service>, LTOR|RTOL

:FETCh:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:TABLe?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Direction:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LTOR|RTOL

Selects the Direction.
LTOR, sets the direction from local to remote.
RTOL, sets the direction from remote to local.

Response Syntax

<Value>

:FETCh:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:TABLe?

Response(s)

Value:

The response data syntax for <Value> is defined as a <STRING RESPONSE DATA> element.

Returns the values for CBS, EBS, total burst test time for the selected service.

Example(s)

FETCh:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:TABLe? 1,1,LTOR

See Also

FETCh:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:TABLe:TOTal? 1,LTOR

:FETCh:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:TABLe:TOTal?

Description

The query returns the total addition of values for CBS test time, EBS test time, and total burst test time for all services per direction and for the selected port.

This query is not associated with any *RST condition.

Syntax

:FETCh:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:TABLe:TOTal?<wsp><Port>, LTOR|RTOL

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Direction:

The program data syntax for the second parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LTOR|RTOL

Selects the Direction.
LTOR, sets the direction from local to remote.
RTOL, sets the direction from remote to local.

:FETCh:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:TABLe:TOTal?

Response Syntax <Value>

Response(s) Value:

The response data syntax for <Value> is defined as a <STRING RESPONSE DATA> element.

Returns the values for CBS, EBS, and total burst test time for selected service number.

Example(s) FETCh:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:TABLe:TOTal? 1,LTOR

See Also FETCh:DATA:TELecom:ETHernet:ESAM:CONFiguration:BURSt:TABLe? 1,1,LTOR

:FETCh:DATA:TELecom:ETHernet:ESAM:RESUlt:SCOTest:BURSt:TEST?

Description

This query returns the result of burst test for selected service, selected direction, and selected port.

This query is not associated with any *RST condition.

Syntax

:FETCh:DATA:TELecom:ETHernet:ESAM:RESUlt:SCOTest:BURSt:TEST?<wsp><Port>,<Service>,LTOR|RTOL,CBS|EBS

:FETCh:DATA:TELecom:ETHernet:ESAM:RESUlt:SCOTest:BURSt:TEST?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Direction:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LTOR|RTOL

Selects the Direction.
LTOR, sets the direction from local to remote.
RTOL, sets the direction from remote to local.
Burst Size Type:
The program data syntax for the fourth parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: CBS|EBS

Selects Burst Size Type.

CBS, selects CBS as the type of Burst Size.

EBS, selects EBS as the type of Burst Size.

:FETCh:DATA:TELecom:ETHernet:ESAM:RESUlt:SCOTest:BURSt:TEST?

Response Syntax None

Response(s) Returns the result of the burst test.

Frameloss, returns the Frameloss as result of the burst test.

Max Jitter, returns the Max Jitter as result of the burst test.

Max Round trip latency, returns the Max Round trip latency as result of the burst test.

Verdict, returns the Verdict as result of the burst test.

Average Rx rate, returns the Average Rx rate as result of the burst test.

Example(s) FETCh:DATA:TELecom:ETHernet:ESAM:RESUlt:SCOTest:BURSt:TEST? 1,1,ltor,CBS

See Also FETCh:DATA:TELecom:ETHernet:ESAM:RESUlt:SCOTest:MRXRate? 1,1,LTOR

:FETCh:DATA:TELecom:ETHernet:ESAM:RESUlt:SCOTest:MRXRate?

Description

This query returns the Max RX rate for the selected service, selected direction, and selected port.

At *RST this is set to --.

Syntax

:FETCh:DATA:TELecom:ETHernet:ESAM:RESUlt:SCOTest:MRXRate?<wsp><Port>,<Service>,LTOR|RTOL

:FETCh:DATA:TELecom:ETHernet:ESAM:RESUlt:SCOTest:MRXRate?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second 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.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LTOR|RTOL.

Selects the Direction.

LTOR, sets the direction from left to right.

RTOL, sets the direction from right to left.

Response Syntax

<MaxRate>

:FETCh:DATA:TELecom:ETHernet:ESAM:RESUlt:SCOTest:MRXRate?

Response(s)

MaxRate:

The response data syntax for <MaxRate> is defined as a <NR2 NUMERIC RESPONSE DATA> element.

Returns the result of MaxRate.

Example(s)

FETCh:DATA:TELecom:ETHernet:ESAM:RESUlt:SCOTest:MRXRate? 1,1,ltor

See Also

FETCh:DATA:TELecom:ETHernet:ESAM:RESUlt:SCOTest:BURSt:TEST? 1,1,ltor,CBS

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM CONFiguration:SERVices:VLAN

Description

This command enables or disables the Virtual Local Area Network (VLAN) configuration for frame parameters, selected service, selected direction, and selected port.

At *RST condition, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAMCONFiguration:SERVices:VLAN<wsp><Port>,<Service>,LTOR|RTOL,ON|OFF

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM CONFiguration:SERVices:VLAN

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Direction:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LTOR|RTOL

Selects the Direction.
LTOR, sets the direction from local to remote.
RTOL, sets the direction from remote to local.
Set:
The program data syntax for the fourth parameter is defined as a <BOOLEAN PROGRAM DATA> element.

The allowed <BOOLEAN PROGRAM DATA> elements for this parameter are: ON|OFF

Enables or disables the VLAN.

ON, sets the VLAN as ON.

OFF, sets the VLAN as OFF.

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM CONFiguration:SERVices:VLAN

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN 1,1,LTOR,ON

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN 1,1,LTOR,ON Returns:1

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:ID 1,1,LTOR,1,1

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM CONFiguration:SERVices:VLAN?

Description

This query returns the status of Virtual Local Area Network (VLAN) configuration for frame parameters, selected service, selection direction, and selected port.

At *RST condition, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet: ESAMCONFiguration:SERVices:VLAN?<wsp> <Port>,<Service>,LTOR|RTOL

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM CONFiguration:SERVices:VLAN?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Direction:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LTOR|RTOL

Selects the Direction.
LTOR, sets the direction from local to remote.
RTOL, sets the direction from remote to local.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM CONFiguration:SERVices:VLAN?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of Virtual Local Area Network (VLAN) configuration for frames.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN 1,1,LTOR,ON

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN 1,1,LTOR,ON Returns:1

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:ID? 1,1,LTOR,1

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:STACked

Description

This command selects the Virtual Local Area Network (VLAN) stacked for the selected service, selected port, selected direction, selected stack, and frames.

At *RST condition, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:STACked<wsp><Port>,<Service>,LTOR|RTOL,<Stacked>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:STACked

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Direction:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LTOR|RTOL

Selects the Direction.
LTOR, sets the direction from local to remote.
RTOL, sets the direction from remote to local.
Stacked:

The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the VLAN stacked.

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:STACked

Example(s)	SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN 1,1,LTOR,ON SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:STAC 1,1,LTOR,3 SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:STAC? 1,1,LTOR Returns:3
See Also	SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN 1,1,LTOR,ON

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:STACked?

Description

This query returns the Virtual Local Area Network (VLAN) stacked for the selected service, selected port, selected direction, selected stack, and frames.

At *RST condition, this value is set to 1.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:STACked? <wsp><Port>,<Service>,LTOR|RTOL

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:STACked?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Direction:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LTOR|RTOL

Selects the Direction.
LTOR, sets the direction from local to remote.
RTOL, sets the direction from remote to local.

Response Syntax

<Stacked>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:STACked?

Response(s)

Stacked:

The response data syntax for <Stacked> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the VLAN stacked for frames.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:STAC 1,1,LTOR,3

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:STAC? 1,1,LTOR
Returns:3

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:ID 1,1,LTOR,1,1

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:TYPE

Description

This command sets the type of Virtual Local Area Network (VLAN) identification for specific VLAN stacked for the selected service, selected port, selected direction, selected stack, and frame parameter.

At *RST condition, this value is set to V8100.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:TYPE<wsp><Port>,<Service>,LTOR|RTOL,<Stacked>,V8100|V88A8| V9100|V9200|V9300

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:TYPE

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Direction:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LTOR|RTOL

Selects the Direction.
LTOR, sets the direction from local to remote.
RTOL, sets the direction from remote to local.
Stacked:

The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the VLAN stacked.

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:TYPE

IDType:

The program data syntax for the fifth parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LTOR|RTOL

Selects VLAN type.

V8100, selects VLAN type as 8100.

V88A8, selects VLAN type as 88A8.

V9100, selects VLAN type as 9100.

V9200, selects VLAN type as 9200.

V9300, selects VLAN type as 9300.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:TYPE 1,1,LTOR,1,V8100

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:STAC 1,1,LTOR,2

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:TYPE?

Description

This query returns the type of the Virtual Local Area Network (VLAN) identification for specific VLAN stacked for the selected service, selected port, selected direction, selected stack, and frame parameter.

At *RST condition, this value is set to V8100.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:TYPE?<wsp><Port>,<Service>,LTOR|RTOL,<Stacked>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:TYPE?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Direction:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LTOR|RTOL

Selects the Direction.
LTOR, sets the direction from local to remote.
RTOL, sets the direction from remote to local.
Stacked:

The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the VLAN stacked.

Response Syntax

<Idtype>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:TYPE?

Response(s)

Idtype:

The response data syntax for <Idtype> is defined as a <CHARACTER RESPONSE DATA> element.

Returns the Virtual Local Area Network (VLAN) type for frames.

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:CONFiguration:SERVices:VLAN:TYPE? 1,1,LTOR,1

See Also

SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:TYPE

SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:TYPE?

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:ID

Description

This command sets the Virtual Local Area Network (VLAN) Identification for the specific VLAN stacked for the selected service, selected port, selected direction, selected stack, and frame parameter.

At *RST condition, this value is set to 2.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:ID<wsp><Port>,<Service>,LTOR|RTOL,<Stacked>,<Id>|MAXimum|MINimum

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:ID

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Direction:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LTOR|RTOL

Selects the Direction.
LTOR, sets the direction from local to remote.
RTOL, sets the direction from remote to local.
Stacked:

The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the VLAN stacked.

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:ID

Id:

The program data syntax for the fifth parameter is defined as a <numeric_value> element.

The allowed <numeric_value> elements for this parameter are: MAXimum|MINimum

Select the VLAN ID.

MAXimum, selects Id as MAXimum.

MINimum, selects Id as MINimum.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:ID 1,1,LTOR,1,50

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN 1,1,LTOR,ON

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:ID?

Description

This query returns the available VLAN ID for specific VLAN stacked for the selected service, selected port, selected direction, selected stack, and frame parameter.

At *RST condition, this value is set to 2.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:ID?<wsp>,<Port>,<Service>,LTOR|RTOL,<Stacked>,[MAXimum|MINimum]

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:ID?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Direction:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LTOR|RTOL

Selects the Direction.
LTOR, sets the direction from local to remote.
RTOL, sets the direction from remote to local.
Stacked:

The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the VLAN stacked.

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:ID?

The program data syntax for the fifth parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: MAXimum|MINimum

Select the VLAN ID.

MAXimum, selects Id as MAXimum.

MINimum, selects Id as MINimum.

This parameter is optional. If no token is specified, the current VLAN ID value will be returned.

Response Syntax <Id>

Response(s) Id:

The response data syntax for <Id> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the value of VLAN identification for frame parameters.

Example(s) SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:ID? 1,1,LTOR,1

See Also SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN? 1,1,LTOR

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:ID:ELIGiblebit

Description

This command enables or disables the user Virtual Local Area Network (VLAN) eligible bit for specific VLAN stacked for the selected service, selected port, selected direction, selected stack, and frame parameter.

At *RST condition, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:ID:ELIGiblebit <wsp><Port>,<Service>,LTOR|RTOL,<Stacked>,ON|OFF

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:ID:ELIGiblebit

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Direction:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LTOR|RTOL

Selects the Direction.
LTOR, sets the direction from local to remote.
RTOL, sets the direction from remote to local.
Stacked:

The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the VLAN stacked.

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:ID:ELIGiblebit

Set:

The program data syntax for the fifth parameter is defined as a <Boolean Program Data> element.

The allowed <Boolean Program Data> elements for this parameter are: ON|OFF

Enable or disable the eligible bit for the specific VLAN Id.

ON, sets the eligible bit for the specific VLAN Id as ON.

OFF, sets the eligible bit for the specific VLAN Id as OFF.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:ID:ELIGiblebit 1,1,LTOR,1,ON

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:STAC 1,1,LTOR,2

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:ID:ELIGiblebit?

Description

This query returns the status of user VLAN eligible bit for specific VLAN stacked for the selected service, selected port, selected direction, and selected stack.

At *RST condition, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:ID:ELIGiblebit? <wsp><Port>,<Service>,LTOR|RTOL,<Stacked>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:ID:ELIGiblebit?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Direction:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LTOR|RTOL

Selects the Direction.
LTOR, sets the direction from local to remote.
RTOL, sets the direction from remote to local.
Stacked:

The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the VLAN stacked.

Response Syntax

<Set>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:ID:ELIGiblebit?

Response(s)

Set:

The response data syntax for <Set> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of eligible bit for frame parameters.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:ID:ELIGiblebit? 1,1,LTOR,1

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:STAC? 1,1,LTOR

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:PRIority

Description

This command sets the priority of the Virtual Local Area Network (VLAN) identification for the specific VLAN stacked for the selected service, selected port, selected direction, and selected stack.

At *RST condition, this value is set to 0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:PRIority<wsp><Port>,<Service>,LTOR|RTOL,<Stacked>,<Priority>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:PRIority

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Direction:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LTOR|RTOL

Selects the Direction.
LTOR, sets the direction from local to remote.
RTOL, sets the direction from remote to local.
Stacked:

The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the VLAN stacked.

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:PRIority

Priority:

The program data syntax for the fifth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Set the priority of the stream.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:PRIority 1,1,LTOR,1,2

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:ID:ELIGiblebit 1,1,LTOR,2,ON

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:PRIority?

Description

This query returns the priority of the Virtual Local Area Network (VLAN) identification for the specific VLAN stacked for the selected service, selected port, selected direction, and selected stack.

At *RST condition, this value is set to 0.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:PRIority?<wsp><Port>,<Service>,LTOR|RTOL,<Stacked>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:PRIority?

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Direction:

The program data syntax for the third parameter is defined as a <CHARACTER PROGRAM DATA> element.

The allowed <CHARACTER PROGRAM DATA> elements for this parameter are: LTOR|RTOL

Selects the Direction.
LTOR, sets the direction from local to remote.
RTOL, sets the direction from remote to local.
Stacked:

The program data syntax for the fourth parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the VLAN stacked.

Response Syntax

<Priority>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:PRIority?

Response(s)

Priority:

The response data syntax for <Priority> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns value of VLAN priority for frame.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:PRIority? 1,1,LTOR,1

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRAMe:FORMat:OUIUdefined 1,1,#H11

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRAMe:FORMat:OUIUdefined

Description

This command sets the value for the UserDefined OUI for the selected service and selected port.

At *RST condition, this is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRAMe:FORMat:OUIUdefined<wsp><Port>,<Service>,<OUI>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRAMe:FORMat:OUIUdefined

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

OUI:

The program data syntax for the third parameter is defined as a <NONDECIMAL NUMERIC PROGRAM DATA> element.

Sets the UserDefined OUI value.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRAMe:FORMat:OUIUdefined 1,1,#H11

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:PRIority 1,1,LTOR,2,5

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRAMe:FORMat:OUIUdefined?

Description

This query returns the value for the UserDefined OUI for the selected service and selected port.

At *RST condition, this is device dependent.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRAMe:FORMat:OUIUdefined?<wsp><Port>,<Service>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Response Syntax

<Value>

:SOURce[1..n]:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRAMe:FORMat:OUIUdefined?

Response(s)

Value:

The response data syntax for <Value> is defined as a <NR3 NUMERIC RESPONSE DATA> element.

Returns the user defined OUI value.

Example(s)

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRAMe:FORMat:OUIUdefined? 1,1

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:VLAN:PRIority? 1,1,LTOR,2

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP:DHCP

Description

This command enables or disables the DHCP for the selected service and selected port.

At *RST condition, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP:DHCP<wsp><Port>,<Service>,ON|OFF

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP:DHCP

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Enable:

The program data syntax for the third parameter is defined as a <BOOLEAN PROGRAM DATA> element.

The allowed <BOOLEAN PROGRAM DATA> elements for this parameter are: ON|OFF

Enables or disables the DHCP.

ON, sets the DHCP as ON.

OFF, sets the DHCP as OFF.

Example(s)

SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP:DHCP 1,1,ON

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRAMe:FORMat:OUIUdefined 1,1,#H11

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP:DHCP?

Description

This query returns the status for DHCP for of the selected service and selected port.

At *RST condition, this value is set to OFF.

Syntax

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP:DHCP?<wsp><Port>,<Service>

Parameter(s)

Port:

The program data syntax for the first parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Port number 1 or 2.

Service:

The program data syntax for the second parameter is defined as a <DECIMAL NUMERIC PROGRAM DATA> element.

Selects the Service number 1 or 10.

Response Syntax

<Enable>

:SOURce[1..n]:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP:DHCP?

Response(s)

Enable:

The response data syntax for <Enable> is defined as a <NR1 NUMERIC RESPONSE DATA> element.

Returns the status of DHCP for the selected stream.

Example(s)

SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP:DHCP 1,1,ON

SOURce:DATA:TELecom:ETHernet:STReam:ADDRess:SOURce:IP:DHCP? 1,1 Returns 1

See Also

SOURce:DATA:TELecom:ETHernet:ESAM:CONFiguration:SERVices:FRAMe:FORMat:OUIUdefined? 1,1

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