

# Fiber Test InSight



Actionable insight into remote fiber test systems.

SPEC SHEET

## KEY FEATURES

Interact with integrated street maps and aerial imagery

Draw or import fiber optic routes

Monitor multiple RTUs simultaneously

Link to the RTU in a few mouse clicks

View fault locations at the street

Store a history of alarms

Set up as a server or on a single workstation

Perform an address search or reverse geocode

Add slack loops, splice points and termination points

Export routes with lat./long. coordinates

Online and offline background maps available

Email notification with URL for quick fault location

### SOFTWARE REQUIREMENTS

- Windows 7 Enterprise or Ultimate, Windows 10, Windows 2008 R2 Server, Windows Server 2012 R2
- Microsoft .NET 4.5 framework
- Internet access (for street maps)
- Google Chrome and Microsoft Edge web browser
- Internet Information Services version 7

## Fiber Test InSight—AUTOMATED AND SIMPLIFIED OTDR FAULT MAPPING

Fiber Test InSight (FTI) is a software option for Fiber Guardian (FG), EXFO's remote fiber test system. In just seconds, FTI automatically converts an optical length fault measurement into a physical location on a network map. The software is a web application that leverages internal maps and cloud services, which makes the drawing and setup of new fiber routes as easy as using Google Maps. Splice location and span (optical length) are set up directly on the map, enabling the highest level of precision possible with minimum effort. With the ability to support one or multiple Fiber Guardian units, the software can be scaled from monitoring critical sites to entire, complex topologies within a single view.

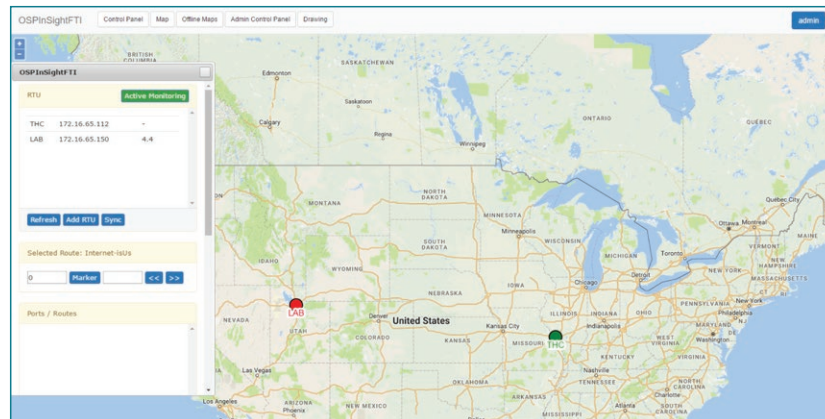


Figure 1. FTI single view showing the status of multiple Fiber Guardian units

FTI's view displays the status of FG units using an intuitive color scheme: normal without faults (green), degradations (yellow) and fiber breaks (red).

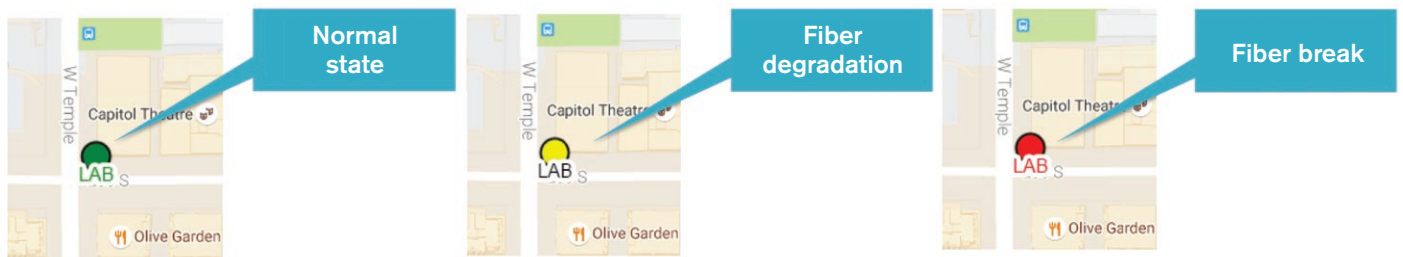


Figure 2. Icons change color to show changes in status

You can also select an FG icon to display, create and modify your monitored routes.

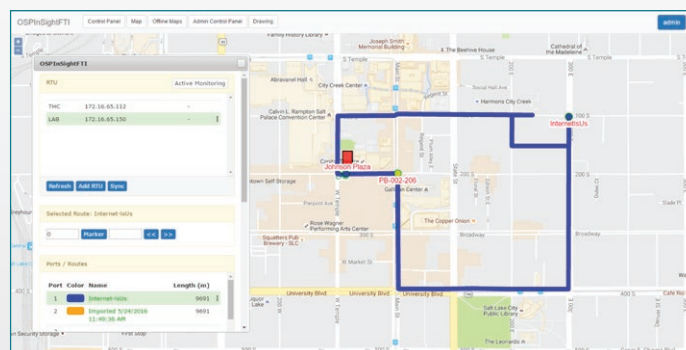


Figure 3. Monitor critical sites and display your routes

## FTI – THE ENTRY AND MAINTENANCE OF THE OPTICAL FIBERS’ GIS DOCUMENTATION

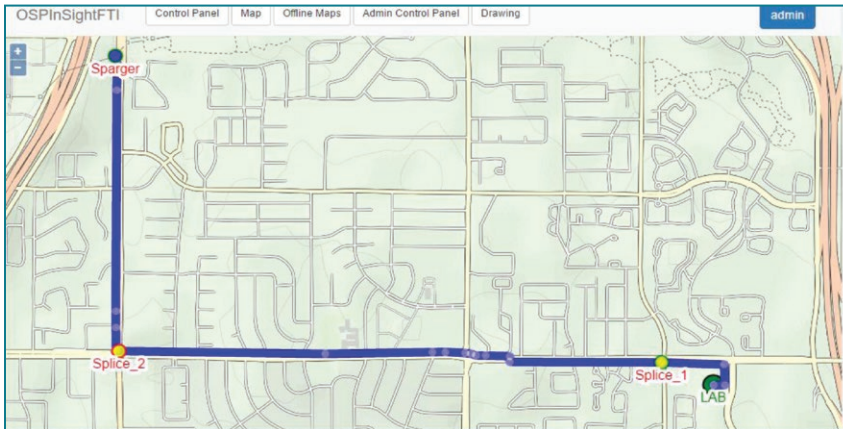


Figure 4. Basic documentation for fault-on-map capability

For each FG port (monitored route) within FTI, the user can easily draw a fiber route on the map to include elements such as splice, slack and termination points to correlate optical event information and geographical position. The color of each fiber route can be defined by the user. It is possible to record GPS coordinates for each point element (splice, slack, or termination) for all the points featured on the schematic documentation. Users can set attributes such as names, slack-in, slack-out and distance override values for each point element.

When adding name labels in a specific node, splice or termination, the labels can be displayed in the map under the node location, as shown in the preceding figure.

For better accuracy between the optical and geographical information, a distance marker is available on the map to slide along the fiber route and calculate the distance that includes any associated slacks and distance overrides.

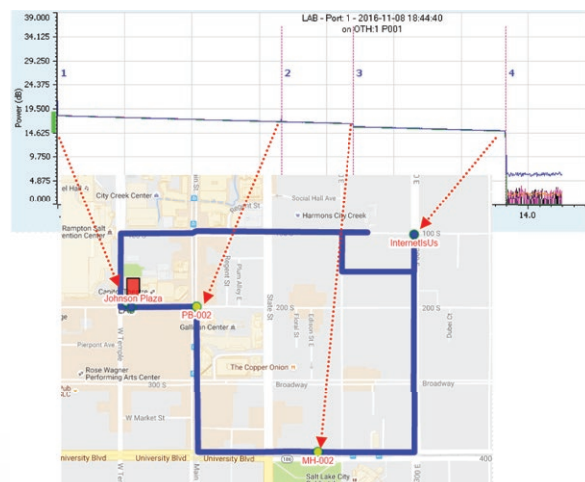


Figure 5. Optical and geographical correlation for improved fault accuracy

### ONLINE AND OFFLINE MAPS

FTI uses commercially available maps, such as Google Maps, Open Street Maps (OSM) and Bing Maps, available in English, Spanish or Chinese, in the background with the ability to change them on the fly. Options for the maps include geocoding, reverse geocoding and automatic route drawing.

Additionally, some offline maps are available to be used along with FTI when internet connectivity is a security issue or it is not available at all. In those cases, FTI can still use offline maps as background. For further details, please contact your regional sales specialist.

### FTI WILL FIND THE FAULT FOR YOU

The FG series devices are designed to warn you about a fault in your fiber network and plot that data on a graph. FTI goes one step further by showing you where the fault is on a map. Not only that, it will display the footprint of the entire route being monitored. FTI contains an Active Alerts window to display a list of your network infrastructure’s active faults. By selecting an active alarm, FTI will directly display the fault location.

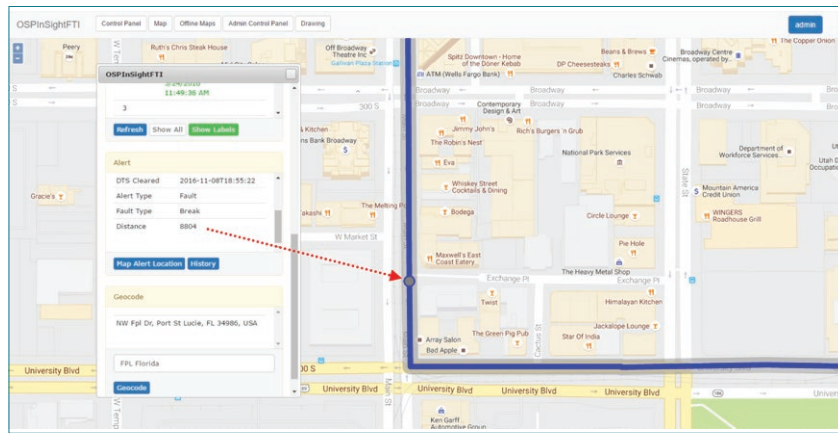


Figure 6. Display of the fiber fault location

## EMAIL NOTIFICATION WITH FAULT COORDINATES

FTI has a regional management configuration that displays and/or notifies based on only the remote test units (RTUs) assigned to each user for regional management in access (UI) and alerts. It sends an email with fault coordinates, a fault position image and a URL link that can be opened in Google Maps to easily locate the fault position. See figure 7a. In addition, there is a hyperlink that can bring you to the OTDR trace results through your local network or VPN. See Figure 7b.

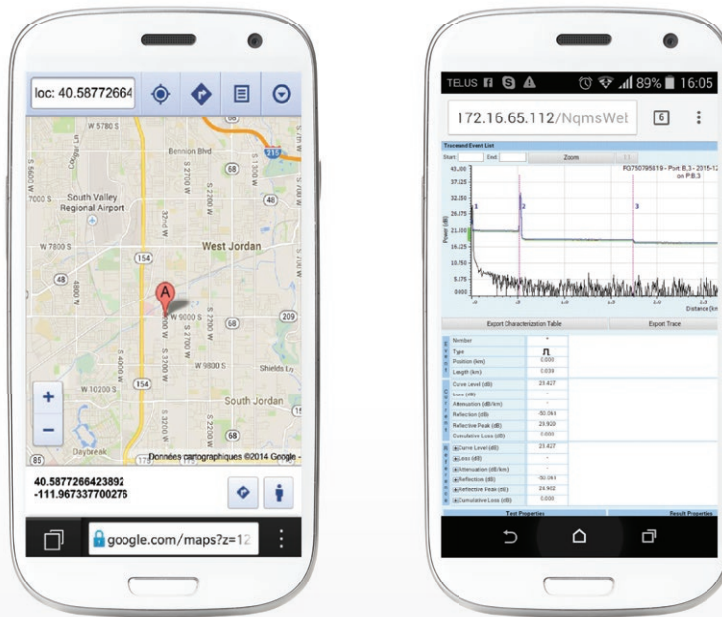


Figure 7. – FTI emails 7.a Left - FTI emails include a hyperlink to easily pinpoint the fault location  
7.b Right – The emails also include a hyperlink to open the OTDR trace

Features include email alerts (running on all tablets and smartphones) with a URL/hyperlink to Google Maps software, export/import fiber-route capabilities, color coding, a multilingual web UI and much more.

## OBTAINING HISTORICAL INFORMATION

Fiber Test InSight keeps historical records for faults in its database. They are easily accessible through the FTI web page and can be exported in CSV format.

## TOPOLOGY AND REQUIREMENTS

FTI version 8.1.1 supports: English, French, Spanish, Japanese, Korean, Simplified Chinese, Traditional Chinese, Thai, Vietnamese, Portuguese and Russian display languages.

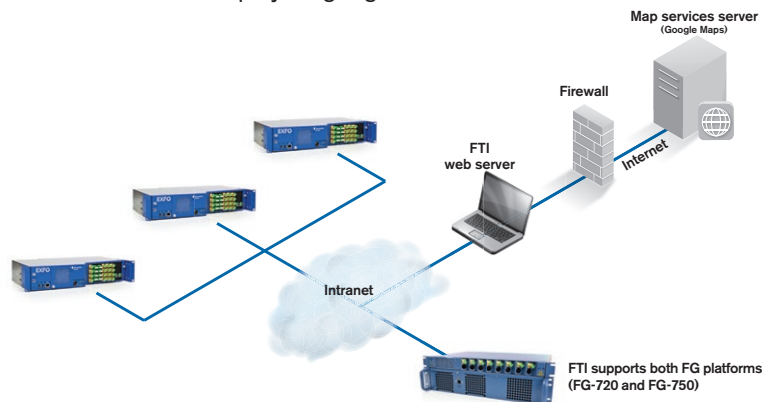


Figure 8. Functional diagram of Fiber Guardian with optional Fiber Test InSight for light and easy fault-on-map capability. FTI is supported on the FG-750 and FG-720 Fiber Guardian Series.

## HARDWARE REQUIREMENTS

### from 1 to 9 RTUs:

- Intel Core i3 (2.6 GHz) processor
- 4.0 GB RAM
- Disk space: 500 GB
- Ethernet card: 10/100/1000 Mbit/s

### from 10 to 19 RTUs:

- Intel Core i5 (3.4 GHz) processor
- 8.0 GB RAM
- Disk space: 500 GB
- Ethernet card: 10/100/1000 Mbit/s

### from 20 to 30 RTUs:

- Intel Core i7 (3.4 GHz) processor
- 12.0 GB RAM
- Disk space: 1000 GB
- Ethernet card: 10/100/1000 Mbit/s

For more than 30 RTUs, please contact EXFO

### ORDERING INFORMATION

<b>SW-FTI</b>	Fiber Test InSight for the first unit of a new FTI server with Google Maps & Open Street Maps for first year. Fault-on-map web server application software license. - Includes 1-Year software warranty (bug fixes) and availability to upgrades (new functions/features) - Google Maps services will be deactivated Year after initial activation date unless license is renewed beforehand - Perpetual license with Open Street Maps as long as public services running.
<b>SW-FTIA</b>	Additional Fiber Test InSight for Google Maps & Open Street Maps. Fault-on-map web server application software license. - Includes 1-Year software warranty (bug fixes) and availability to upgrades (new functions/features) - Google Maps services will be deactivated 1Y after initial activation date unless license is renewed beforehand - Perpetual license with Open Street Maps as long as public services running
<b>SW-FTI-REN</b>	Renewal of Fiber Test InSight for Google Maps & Open Street Maps

EXFO Headquarters > Tel.: +1 418 683-0211 | Toll-free: +1 800 663-3936 (USA and Canada) | Fax: +1 418 683-2170 | info@EXFO.com | [www.EXFO.com](http://www.EXFO.com)

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