

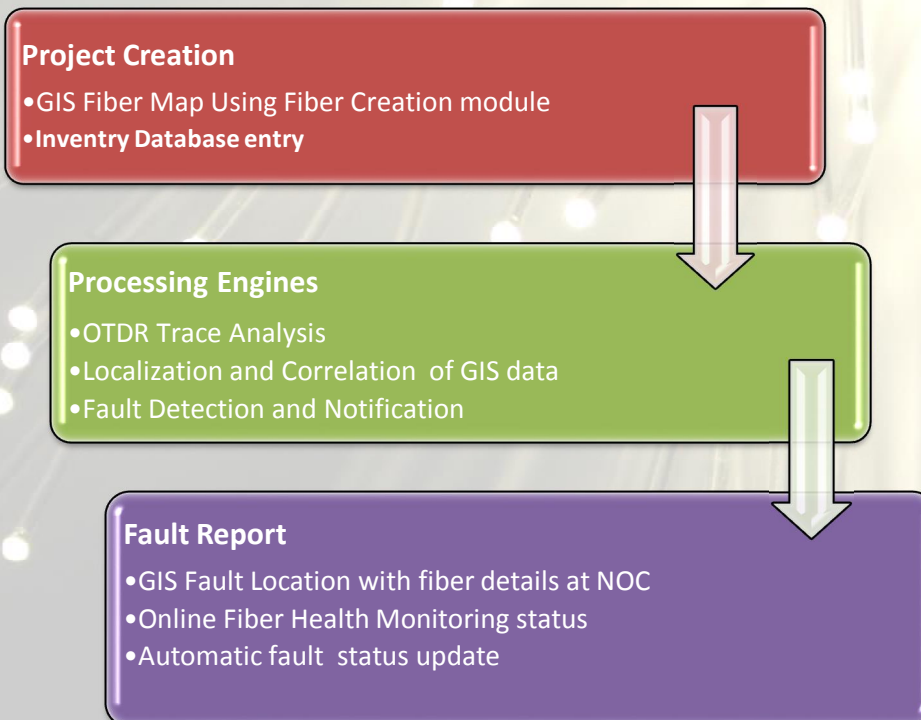


Centre for Development of Telematics

Telecom Technology Centre of Government of India

Fiber Monitor: A solution for Indian scenario

- ✓ Designed for Indian geographical scenario
- ✓ Uses C-DOT's Geo-Intelligence based solution
- ✓ Fault Management from Centralised workplace
- ✓ Reduces network downtime
- ✓ Monitoring fault priority segregation



- ✓ 24*7 Network Monitoring
- ✓ Simultaneous & Centralized Multiple Fiber Fault Detection
- ✓ Fault Localization
- ✓ Fault Notification
- ✓ Automatic Fault Status Update
- ✓ Remote Web Access
- ✓ Fiber Health Index Monitoring
- ✓ Fault Report Generation

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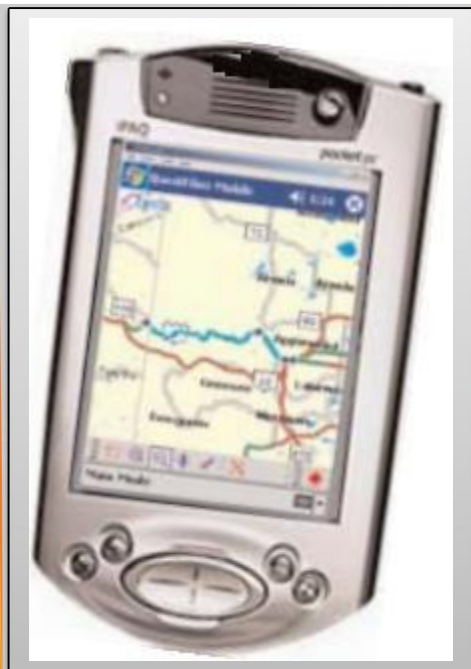
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Fiber Monitor: Geo-Intelligent Fiber Monitoring System

Optical Network Monitor based on ITU-T Recommendations



Geo-Intelligence at work for you!

Benefits of the Fiber Monitor system include:

- Quickly and easily identifying network faults.
- Automatic fault localization & notification
- Network security breaches become visible
- Proactive monitoring ensures network connectivity
- Automatic fault status update after being rectified

How Fiber Monitor will benefit your network?

- Backhaul and Access Network Monitoring with reduced OPEX
- Centralized Fiber Monitoring of Multiple Fibers
- OGC Compliant GIS Mapping and other interfaces

Fiber Monitor

- Fiber Break
- Receive Fault Location
- Proceed to Location
- Repair Fiber
- Verify Fiber
- Turn Up Transmitter

Manual Process

- Fiber Break
- Cause of Alarm
- Dispatch Crew
- Test With OTDR
- Physically Locate Fault
- Proceed to Location
- Repair Fiber
- Verify Fiber Repair
- Turn Up Transmitter

Immediate Fault Detection

Fiber Monitor keeps track of each and every fiber. Whenever a fault occurs, its OTDR based monitoring system detects the fault. Based on the topology of the laid network it analyses the fault with multiple iterations of fault finding mechanism.

Optimize OPEX of your Network

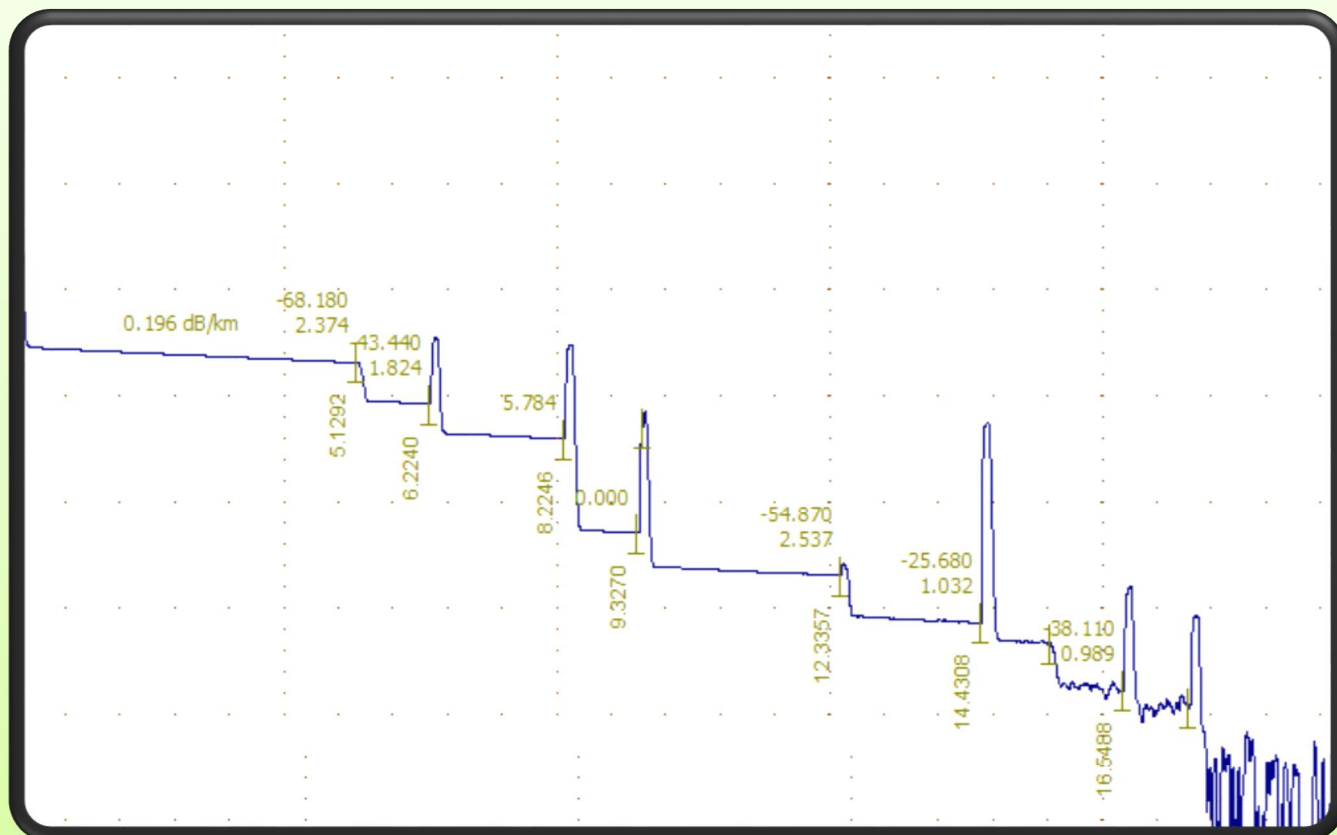
Fiber Monitor is a centralized solution for Fault Localization. Since Fiber Monitor identifies the fault within minutes of its occurrence, it saves a lot of down time of services of the concerned user. OTDR is an expensive instrument, being centralized solution **Fiber Monitor** reduces the movement cost, downtime cost and hence optimizes OPEX of your network.

Manage your Network

Fiber Monitor generates and maintains detailed reports of different faults. As it is a web based solution, you can manage the telecom assets by visualizing them on satellite image and you can also monitor and measure faults. Fiber faults can be detected and localized easily, hence the network downtime is reduced.

Interface with NMS, OSS

Fiber Monitor has well defined interfaces for Network Management System (NMS) as well as FMS (Fiber Management System). Billing, OSS systems can be interfaced to **Fiber Monitor**. Maintenance team can easily get the location of the fault and rectify.



Open System Interface

Supports all common software and system standards. Such as:

- C-DOT Tele-PlanNet



Web Based Solution

- Centralized Monitoring
- Secure Access
- Cater multiple Systems(OLT, EMS, NMS)



Integrated GIS Standard

- All major GIS functionalities, necessary for comprehensive Optical network monitoring, are available within one solution.
- Supports all common international GIS standards.