

Geozondas Remote Fiber Test System

Automated Testing for Effective Network Maintenance

The Geozondas **Remote Fiber Test System (RFTS)** automates the process of detecting, locating, and repairing faults in the outside plant.

- **Reduce Time to Detect and Identify Faults**

RFTS can monitor the fiber network 24 hours a day, seven days a week. The system automatically provides fast, precise notification of any network problem without user intervention. The system detects and locates faults along the cable and sends clear alarm reports to the right person in the right place.

- **Enhance Fiber Performance Monitoring**

The **RFTS** provides predictive maintenance cycles to monitor the fiber quality and anticipate any gradual component (splice, connector, etc.) degradation. The RFTS generates service reports showing the quality of the fiber plant and the ongoing performance over time.

- **Improve Cable Management**

The RFTS integrates a comprehensive cable documentation database including geographical landmarks and GPS coordinates. The database can easily be updated.

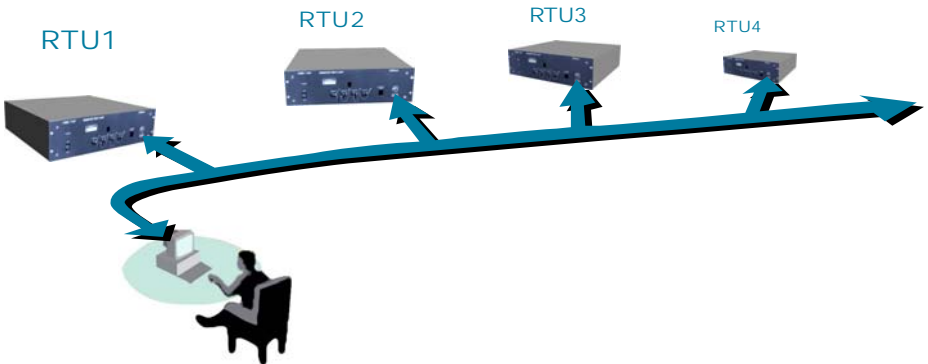
- **Enable Remote Installation**

Geozondas provides the ideal tool for process control and record management during network construction and cable installation. Exact cable data can be entered in the database during installation..



The **RFTS** collects and analyzes data from remote test nodes, allowing comprehensive fault diagnosis prior to dispatching repair crews to the field. Deployed at strategic points in the network, Geozondas **Remote Test Units (RTUs)** automatically test the cable plant and generate alarm reports back to the **RFTS**.

The Geozondas system is a new generation **RFTS** that offers both fiber providers and network operators cost-effective OTDR deployment and lower maintenance costs.



Increased Modularity for Network Integration

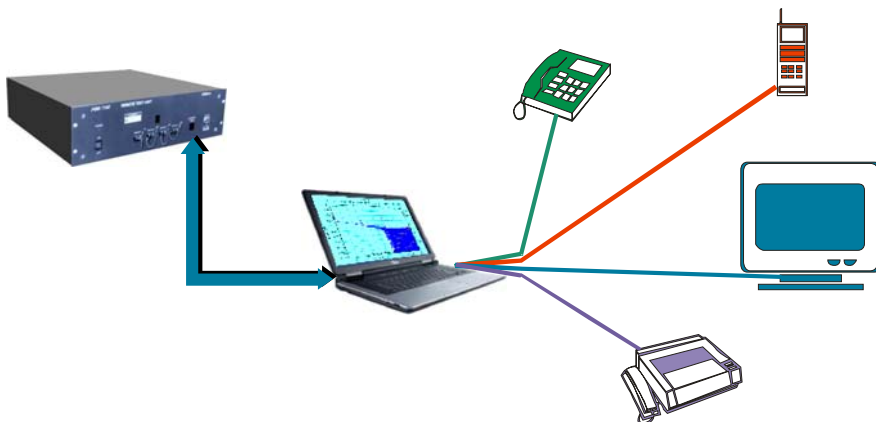
Geozondas System Key Features

- Multi-user configuration with any number of RTUs (FOD7102)
- Advanced Client / Server architecture
- Network integration with Ethernet interface
- Modular Remote Test Unit (RTU) with up to 4 fibers
- Remote switching option with control over a fiber



Alarm Management

Secure alarm management by several ways (Ethernet, Phone ringing, fax, e-mail, screen message)



Network Compatibility

The **RFTS** conforms to all the latest international standards and supports client / server architecture for maximum flexibility and utilization. The system can relay alarms to a service coordinator via a SNMP interface option.

Flexible Network Deployment

Using the latest technology, Remote Test Units (**RTU**) can be deployed as economically as a standard piece of optical test equipment. The **RTU** is versatile enough to handle inter-office, short haul, or long haul networks and includes a special fault detection algorithm.

Effective Fault Detection

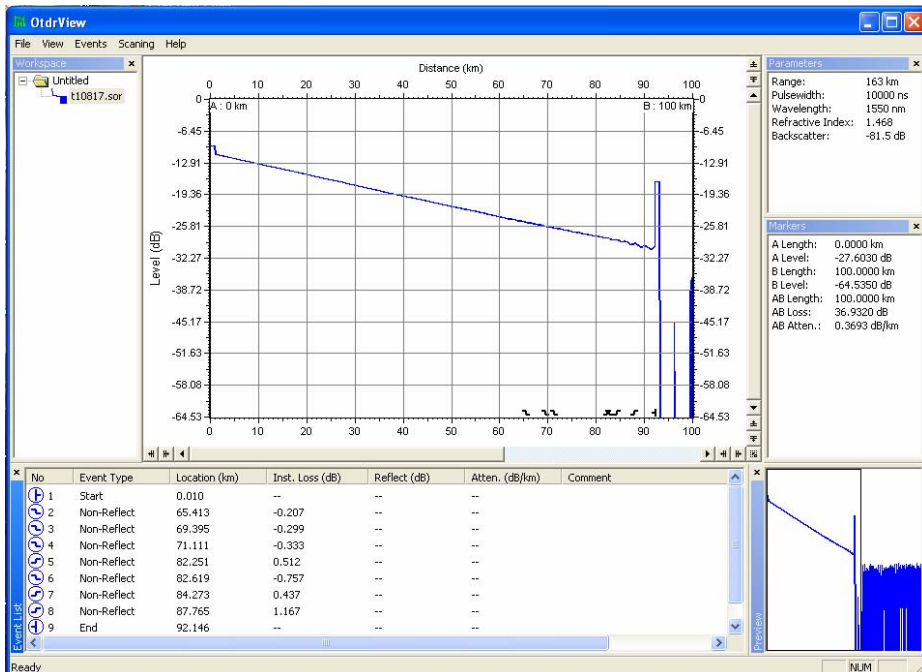
In the event of a network problem, the **RTU** sends an alarm notification automatically to the **RFTS**. The alarm contains the date and time, the nature, and the distance of the fault. A textual alarm dialogue box is displayed and the system makes several audible warnings to alert the operator of a network event.

Precise Fault Location

The alarm dialogue box gives the operator direct access to the OTDR trace and the cable schematics. The network event is clearly highlighted on both the OTDR trace display and the cable schematic for simple identification. This level of information helps the operator process, analyze and decide the correct action.

Improved Fiber Performance Monitoring

The Geozondas system can be programmed to perform regular predictive maintenance cycles on the fiber plant. This mode scans the fiber links in greater detail to record more section and optical point loss values. The operator can document the quality of the fiber plant over time.



Monitoring performance and analysis of fiber performance trends.

Continuous technical support

Advanced On-Line Support is available using the remote dial-in feature developed with the Geozondas system. Our highly trained technical support experts assist customers in diagnosing problems as well as consulting on network performance.

Simplified installation

Specialist application engineers follow proven project management techniques to optimize system test, implementation, and client acceptance .

Comprehensive training

System installation and training personal provide a smooth and trouble free system start-up, ensuring that **RFTS** is operational from day one. Training modules exist for administrator, user, and maintenance personnel.

Lifetime maintenance

Flexible hardware and software maintenance programs can be tailored to each client's needs to ensure continual operation over the system's lifetime.