

Coherent OTDR MW90010B with Ciena Wet Plant Supervisory Solution

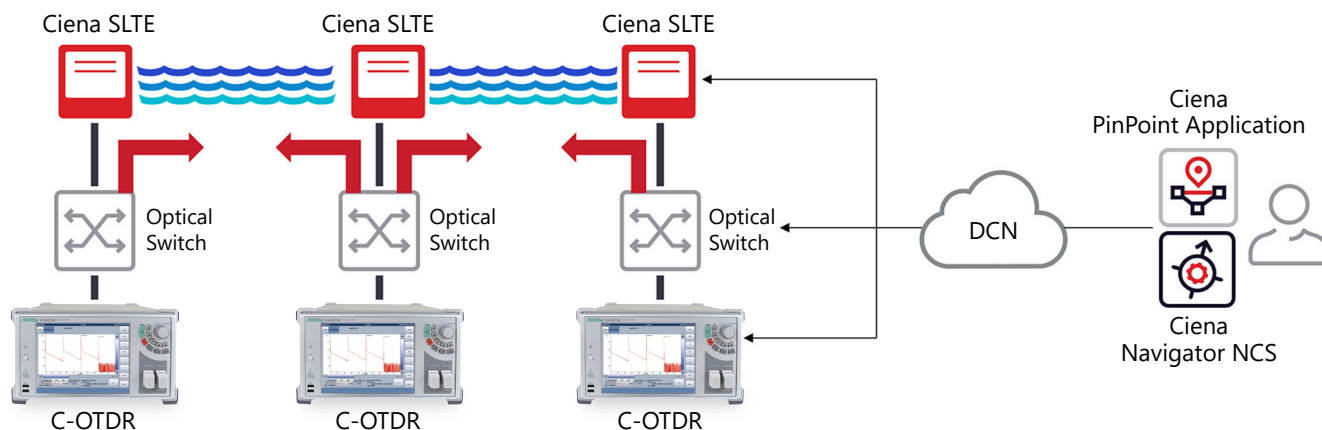
Anritsu Coherent OTDR MW90010B
Ciena GeoMesh Extreme Submarine Network Solution
Ciena Navigator Network Control Suite
Ciena PinPoint Application

Overview

Open submarine cable networks, which integrate cable systems and Submarine Line Terminal Equipment (SLTE) provided from multiple vendors, have become increasingly prevalent in recent years. These open networks offer enhanced configurability and enable the seamless integration of network components, while facilitating subsequent upgrades. However, ensuring the reliability and stability of the connectivity that supports the transmission of critical user data through end-to-end networks is essential for the implementation and ongoing operation of such networks. Additionally, there is a need for robust and comprehensive network management strategies.

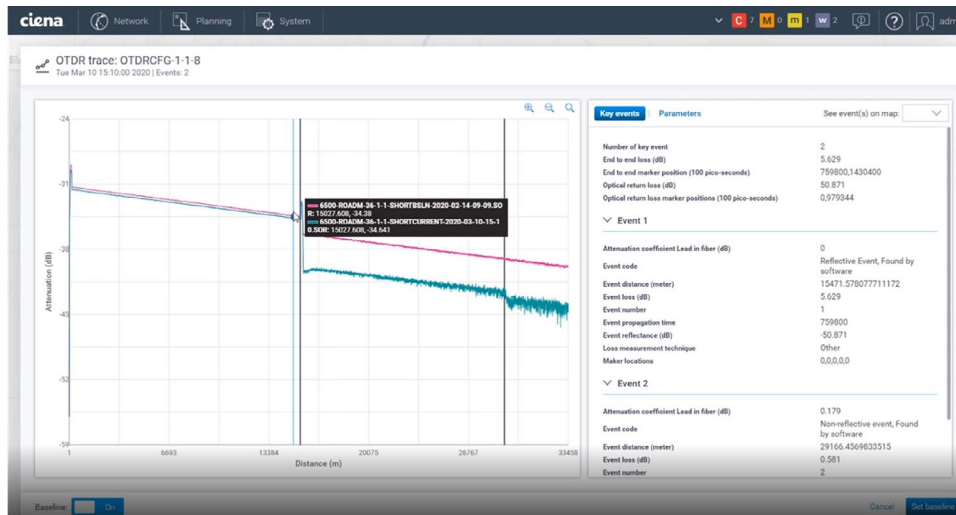
Anritsu's Coherent OTDR (C-OTDR) MW90010B supports a high dynamic range and short resolution, enabling the detection of not only repeater (undersea optical amplifier) failures but also cable faults, unlike traditional systems that send commands to repeaters. With Ciena's PinPoint application, an application available with Ciena's Navigator Network Control Suite™ (NCS), users can implement a real-time, in-service, and detailed monitoring system on any submarine cable.

In addition, the number of fiber pairs on recent submarine cables is increasing, leveraging Spatial Division Multiplexing (SDM) undersea wet plant technology. This solution is highly scalable, as optical switches are used to monitor all the fiber pairs. In contrast, traditional systems require a monitoring device attached to each fiber pair, which can be costly.



Ciena Wet Plant Supervisory Solution Outline

- Operator commands are issued via Ciena's simple web-based graphical user interface (GUI)
- Set up C-OTDR parameters (ex., channel, output power, average time, etc.).
- Easy to select the test cable by simply changing the path of the optical switch.
- A flexible setup can be scheduled to run daily, weekly, or on a yearly basis.
- Allows for insightful comparisons of a current scan to a previous baseline scan or scans.
- Exports ".SOR" files to analyze details of traces with standard trace visualization applications.

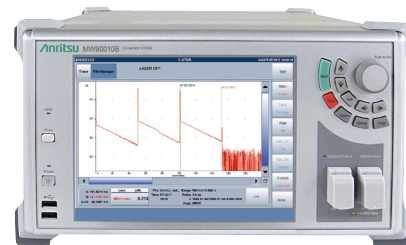


Ciena Navigator Network Control Suite

MW90010B Outline

An Optical Time-Domain Reflectometer (OTDR) operates by sending a light pulse into a fiber optic cable and analyzing the reflected or scattered light that returns. This enables the measurement of fiber optic cable characteristics, such as loss, distance to faults, and the location of connectors or splices.

- Supports submarine cables of up to 20,000 km with 10 ms resolution
- Wide dynamic range up to 26 dB
- Full C-band coverage
- Lightweight and compact for use anywhere
- Built-in GUI operation or script command-based operation



Coherent OTDR MW90010B

Contact Us

This solution is available worldwide. For details, please contact:

<https://www.anritsu.com/en-us/contact-us/corporate-information/anritsu-worldwide>
<https://www.ciena.com/contact-us/worldwide>