



# ONMS PON

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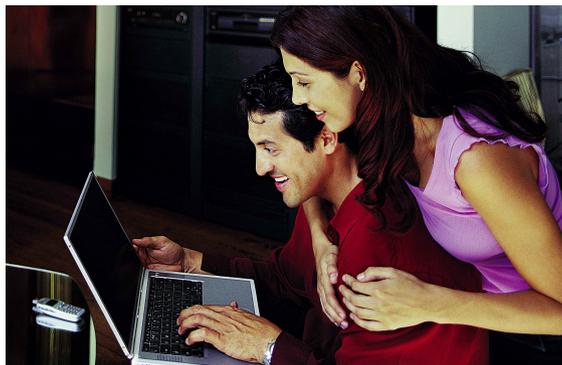
Centralized Remote PON Test System

# ONMS PON – Centralized Remote PON Test System

***JDSU ONMS PON  
minimizes truck rolls and  
ensures faster service turn  
up and restoration.***

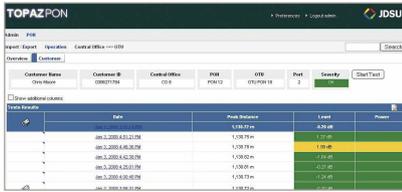
With the convergence of multiple service offerings in the marketplace, incumbent providers must ensure that services meet the quality of experience (QoE) expectations for users. Service providers must evolve their networks to withstand the rigors of bandwidth-intensive Triple-Play applications and contend with the increased competitive pressures while simultaneously delivering affordable services to customers. Many service providers are turning to the Passive Optical Network (PON) point-to-multipoint (P2MP) topology to meet these requirements. PON makes it possible to service multiple subscribers at a competitive price with a single fiber and optical line terminal (OLT).

Service providers who are migrating to PON need a fast and cost-effective method of turning up and restoring service. Traditional troubleshooting methods require time-consuming coordination between the central office (CO) and field personnel using portable devices to conduct testing. The JDSU Optical Network Management System (ONMS) PON test system allows operators to test passive optical networks via the JDSU ONMS. It enables technicians in the field to troubleshoot any leg of the PON by accessing an optical time domain reflectometer (OTDR) in the CO through a mobile phone or Web browser. The ability to perform single-ended measurements without involving a second person at the CO provides faster service turn-up, faster service restoration, and reduces the number of field personnel needed to maintain the PON system. JDSU ONMS also lets network operations center (NOC) operators check the current status of a fiber in seconds without formal training in the use of an OTDR.





# ONMS PON – Features

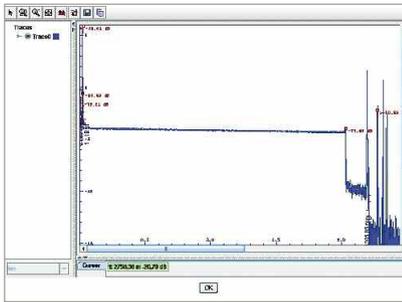


## Open architecture

Integrating the ONMS PON system into the service provider’s environment allows for the capture of information such as the PON termination identification, reducing the time required entering data in the system. Additional value is provided by capturing information from the element management system (EMS) of the OLT; for example, in order to test the PON when the EMS detects a fault.

## Web-enabled application

ONMS PON software is fully web-based. A single license provides simultaneous access for all users, whether they are connecting through the local area network (LAN) or over the web. Users need only web-browser tools, such as Internet Explorer™ or Firefox™ to access the application.

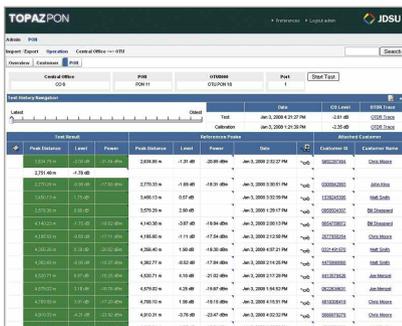


## Mobile access

Technicians connecting new customers often find it difficult to obtain an Internet connection while in the field. In this situation, they can access the ONMS PON application from a mobile phone running Wireless Application Protocol (WAP).

## Easy to use

Simply clicking on a fiber or customer name identifies the current status of the fiber, saving time and eliminating the need for network operations center (NOC) users or field technicians to learn how to use an OTDR. A simple process is also provided to guide technicians in placing the reflector.



## Advanced OTDR module

PON link lengths are relatively short so the event dead zone (EDZ) is the most important performance parameter. A low EDZ makes it possible to distinguish peaks caused by reflectors that are very close. JDSU offers a wide range of OTDR modules for the OTU-8000 that provide the lowest available EDZ values, making it possible to distinguish optical events that are less than one meter apart.

## High-capacity switches

A CO can serve tens of thousands of customers, so it must manage hundreds of fibers. JDSU has developed a new high-capacity switch series that provides a high concentration of ports in a single unit. The new switches reduce the space and energy required to operate a remote test system.

## Reflector

A reflector is installed at each termination to reflect the test wavelength (1610 to 1650 nm). JDSU provides reflectors that create *minimum* insertion loss or reflectance in the traffic bandwidth and are economical, easy-to-install, and reliable.



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