



ALM

Fiber assurance solution for lean operations

Fiber is a high-value asset. It transports huge amounts of data, generating significant revenue. Fiber failure demands immediate action but a lack of information about the nature of a problem often makes this impossible. In-service fiber monitoring solves this issue and our unique ALM does it with unrivalled efficiency.

Operations teams have one key objective: run a complex communication infrastructure as efficiently as possible. In the event of network failure, a root cause analysis should not require on-site field forces with expensive measurement equipment. Giving customers higher bandwidth services should be possible without changing demarcation device. Gathering real-time information about the integrity of the fiber network should not require costly new kit. Proactive fiber link monitoring solves those challenges. Our ALM is an in-service advanced link monitoring solution for highly precise, real-time monitoring of fiber links. It streamlines operational processes, shortens repair cycles and enables service-agnostic network demarcation.



Your benefits

- ✓ **Improved service quality**
Real-time information on fiber integrity for fast failure detection and short repair cycles.
- ✓ **Non-intrusive monitoring**
Inherent compatibility of demarcation reflectors with any user data protocol as well as multi-wavelength transmission systems.
- ✓ **Streamlined operations**
In-service fiber monitoring for immediate separation between failures of active devices and problems with the fiber plant.
- ✓ **Higher availability**
Detecting degradations and initiating countermeasures before services are affected and SLAs are violated.
- ✓ **Simplified demarcation**
Passive demarcation reflectors for operation without power supply even under harsh environmental conditions.
- ✓ **Intuitive management interface**
Integrated with market-leading geographic information systems (GIS) to quickly and easily localize fiber issues

High-level specifications

Fiber link monitoring

- Two ALM variants for supervision of 16 (16ALM) or 64 fibers (64ALM) per ALM device
- Non-intrusive monitoring independent from user traffic
- Active component at central office only

Demarcation reflector

- Passive device at remote site
- No power and no additional space required
- Integrated with patch cable or discrete devices
- Applicable in harsh environments

Management capabilities

- Full SNMP management for all operational processes
- Built into market-leading GIS
- FSP Network Manager for full set of FCAPS functions

Measurement principles

- Real-time information about fiber loss profile
- Localization of loss points with alarm thresholds
- Ultra-fast fiber integrity verification with 3 to 6 secs. per port

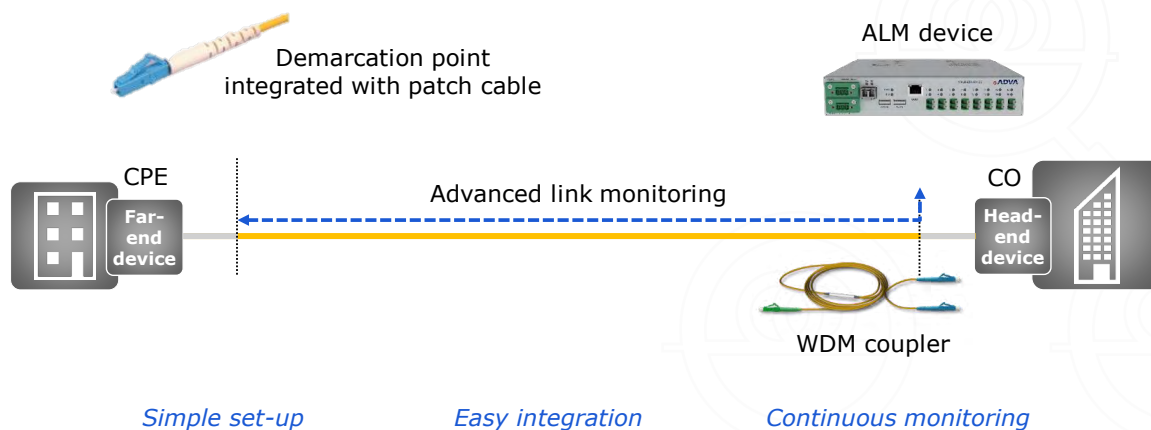
Optical performance

- Up to 160km nominal reach for access, metro and core applications
- Measurement signal at 1650nm, outside user traffic wavelengths

Operational requirements

- Power consumption <15W
- Fanless operation
- Wide operating temperature range (-5°C to 55°C)
- Ultra-compact ETSI solution: up to 64 ports per 1RU chassis

Applications in your network



Simplifying operations and creating more value from fiber networks

- Enhancing dark fiber services with real-time assurance information and shorter repair cycles
- Passive demarcation minimizing operational cost at customer premises with powerless operation
- Proactive fiber monitoring instead of post-failure problem analysis with field services engagement
- Non-intrusive fiber monitoring for assured service delivery enabling service modifications and upgrades without on-site visits
- Remote access to passive fiber sensors for monitoring of unpowered sites



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