



Ensemble Geo Manager

GIS-based, real-time physical fiber monitoring and fault isolation

Ultra-high-speed optical data networks are ever-more reliant on the performance and integrity of the physical fiber in the outside-plant environment. Such dependence demands comprehensive physical fiber plant monitoring. Simply knowing that a fiber fault has occurred is no longer sufficient. A carrier must react immediately to locate and repair faults in order to meet strict SLA demands in today's always-on world. Automatic alarming with GIS-based fault location/isolation is key to such rapid response demands.

The Ensemble Geo Manager (a component of the Ensemble Controller suite), teamed with our ALM fiber monitoring solution, is designed to pinpoint the precise location of fiber faults or anomalies and direct repair crews quickly to the street address or GIS location of the event. There is no easier or faster way to identify the location of pending service impairment issues, possible malicious intrusions or actual fiber breaks. Ensemble Geo Manager utilizes real-time data from our ALM, enhanced by correlation to the actual location of connectors, and splices in the network for the most precise fault localization. When an ALM unit detects a fault or anomaly, the Ensemble Geo Manager can proactively notify the operator via email and provide a precise location highlighted on a geographical map in the Ensemble Controller display. Diagnostic and repair teams can then be quickly dispatched to a precise geographical location to effect investigation and recovery.



Your benefits

Accurate fiber plant layouts

Self-explanatory GUI displays accurate locations of fiber plant components on geographical map

Pinpoint fiber event and fault locations Fiber event/fault locations identified clearly on geographical map allows rapid deployment of repair teams direct to the location

Part of our Ensemble Controller suite Poliable secure and user friendly management

Reliable, secure and user-friendly management and surveillance of ADVA FSP and OSA networks, with full FCAPS support

Explore individual fiber routes

Identify the resources and geographical routing of individual customer services

Proactive fiber route planning

Plan diverse service routes to ensure no shared resources or common points of vulnerability

Identify affected customers

Association between affected routes and customers enables proactive notification of faults and restoration activities

High-level specifications

Visualization

- Accurate visualization of fiber plant components on realworld maps
- Precise real-world fault location
- Support for public (Google Maps, OpenStreetMaps, etc) or private tile

GIS data display, navigation

- Browse fiber plant data graphically and in tabular formats from Ensemble Controller
- Tie plant components to geo-locations and real-world addresses
- Quickly trace components in a fiber route

Geo Manager integration

- GIS application integration with Ensemble Controller
- Automated deployment of Geo Manager with Ensemble Controller
- Brown-field deployment options

Fault isolation and recovery

- Proactive notification of fiber faults; save troubleshooting time
- Isolate between inside plant and outside plant locations
- Accurately dispatch repair teams direct to fault location

Customer integration

- Associate customers and services to ALM ports and fiber routes
- Provide proactive fault notifications and recovery status direct to customers

Real-world scaling

- Maintain entire fiber plant in one cohesive database
- Scale to tens of thousands of components
- Visibility to all buildings, ducts, access points

Applications in your network

Advanced fiber plant monitoring, assurance and visualization

- Centralized visibility of entire fiber plant infrastructure
- Real-time, real-world situational awareness
- Proactive notification of fiber faults with precise geographical fault location
- Faster fault recovery





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Product specifications are subject to change without notice or obligation.

