



FiberSpotter: Rapid Fiber-Cut Localization

Minimize downtime and cut operational costs with intelligent, precise fiber monitoring.



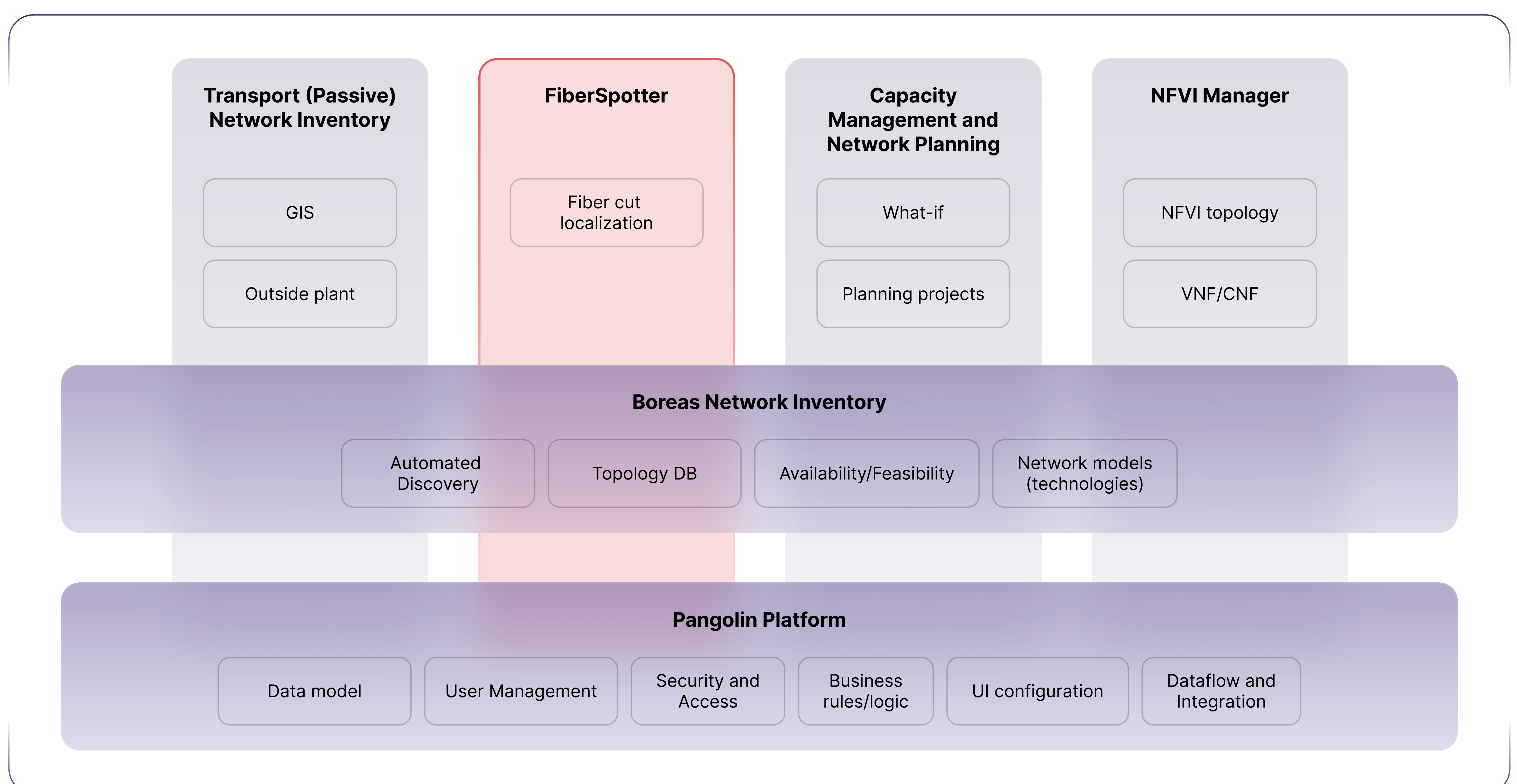
About Globberry

Founded in 2014, Globberry quickly earned recognition from telecom industry leaders like Red Hat, Ericsson, and NEC. With proven expertise and carrier-grade solutions, we serve global telecom providers such as Vodafone, Veon, Kyivstar, and Telus. Our focus is delivering practical solutions and dedicated professional services designed specifically for telecom network management and infrastructure.

About FiberSpotter

Frequent fiber cuts disrupt service continuity, inflate maintenance costs, and frustrate customers. Traditional fiber-cut detection methods rely heavily on costly OTDR equipment, prolong recovery times, and complicate network management.

FiberSpotter, part of Globberry's Network Inventory suite powered by the Pangolin platform, provides a smart and cost-effective solution to fiber-cut issues. FiberSpotter uses passive monitoring techniques, analyzing real-time alarms from Optical Line Terminals (OLTs) and correlating this data with network topology information. The solution accurately pinpoints fiber cuts, significantly lowering maintenance and operational costs without additional equipment installations.



Why Choose FiberSpotter?

01

Lower Operational Expenses

Precisely identifies fiber cuts automatically, reducing the need for costly and frequent manual checks.

02

Improve Customer Satisfaction

Shortens service interruptions, ensuring a quicker return to normal operations and happier subscribers.

03

Streamline Customer Support

Identifies impacted customers immediately, allowing your support team to quickly communicate updates and solutions.

04

Smart Network Growth

Uses AI-based availability checks to help plan network expansion effectively, aligned with customer demands and infrastructure reality.

05

Automate Inventory Management

Automatically documents and updates your network topology, saving time during provisioning and troubleshooting.

06

Easy Deployment Options

Use FiberSpotter with Boreas NI or integrate smoothly with your existing network management solutions.

Technical Capabilities

Advanced Passive Monitoring:

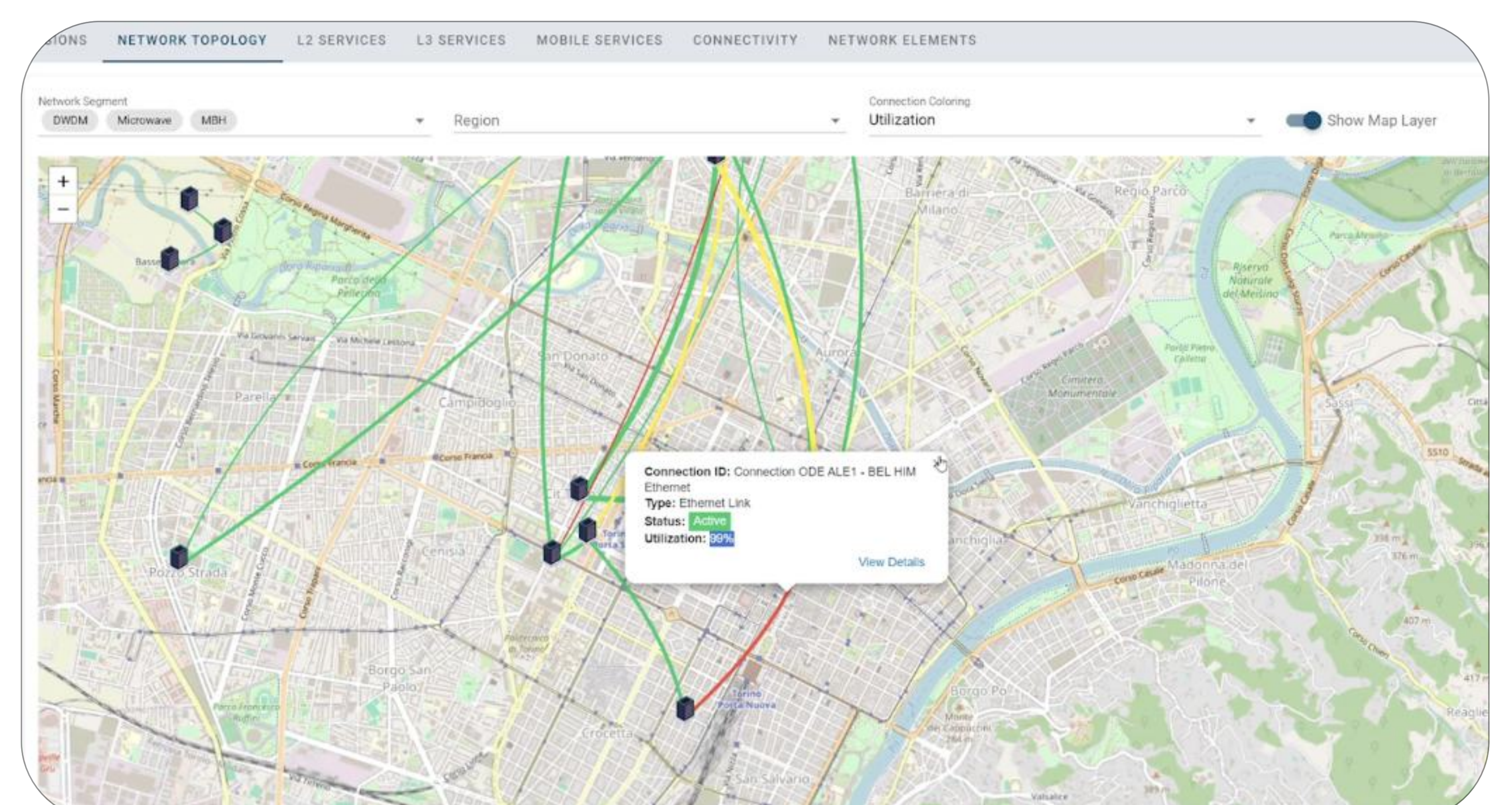
- Collects and examines alarms directly from OLTs and calculates the nodes impacted by the outage
- Analytical identification of the root cause of the outage based on alarm data and topology analysis
- Fast, central deployment avoids costly on-site installations and reduces operational complexity.

Detailed Topology Discovery:

- Automatically detects and documents your network equipment.
- Keeps your network inventory current and precise without manual updates.

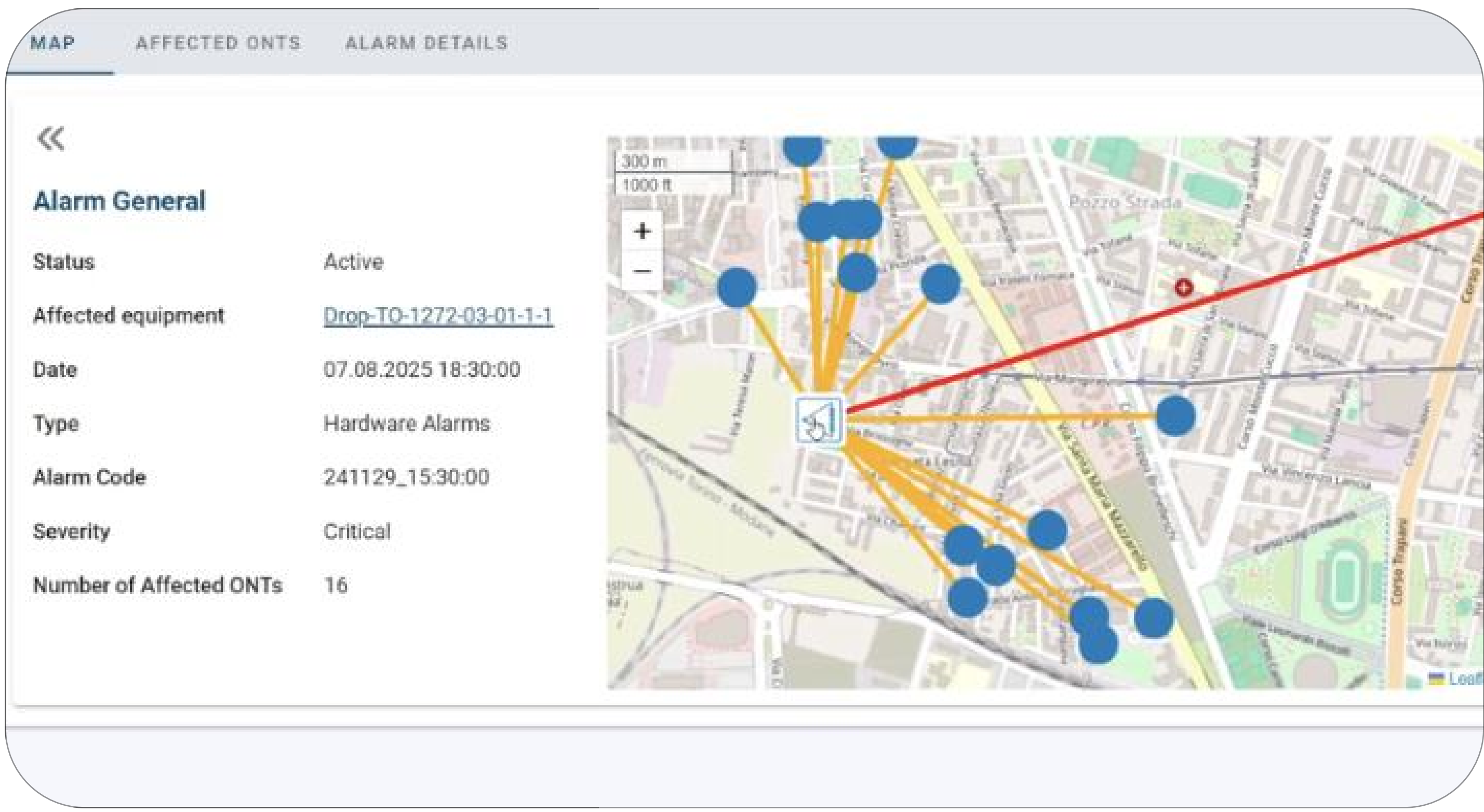
Intelligent Analytics & Actionable Insights:

- Offers automated analysis to quickly identify root causes and assess impacts.
- Provides clear recommendations for network expansion and resource management through Capacity management and Network Planning



Immediate Reporting & Clear Visualizations:

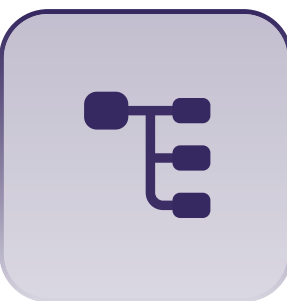
- Visualizes fiber-cut incidents instantly, highlighting affected areas.
- Generates easy-to-use dashboards and custom reports for straightforward network management.



FiberSpotter integrates seamlessly within Globberry’s Network Inventory suite and uses the Pangolin platform's advanced capabilities for flexible and intuitive management tailored specifically for telecom operations.

Solution Architecture

FiberSpotter includes:



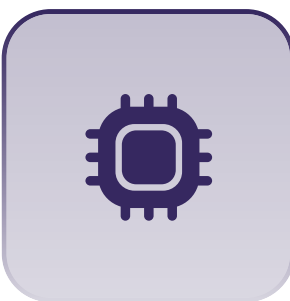
Internal Topology Database

Centralized storage for efficient and accurate management.



Northbound API

Easy integration with OSS, BSS, GIS, and existing inventory systems.



Vendor-specific Data Collection Adapters

Seamlessly collect alarms from diverse OLT vendors.



Adaptive Availability Checks

Proactively evaluate network resources and quickly respond to fiber cuts.

Deployment Scenarios & Use Cases

Primary Inventory System for GPON:

- Complete, purpose-built inventory management solution tailored specifically to Passive Optical Networks.

Complementary Inventory Integration:

- Effectively enhances existing inventory management systems, adding specialized fiber monitoring capabilities.

Real-World Applications:

- Multi-vendor GPON network management.
- Rapid troubleshooting and cost-effective maintenance operations.
- Accurate network inventory auditing and compliance reporting.

Professional Support & Services



Expert Consulting

Strategic assessment of current solutions and customized integration planning.



Full Implementation

Comprehensive support including solution design, integration, rigorous testing, and seamless data migration.



Continuous, Reliable Support

24/7 operational assistance and expert second-level support.

Case Study: Major Ukrainian Fixed Network Operator

Profile:

- Ukraine's leading fixed network provider managing a complex, multi-vendor GPON network.

Challenges:

- Frequent difficulty pinpointing exact fiber-cut locations.
- High maintenance expenses and ineffective resource deployment.
- Inefficient, prolonged downtime and operational complexity.

FiberSpotter Solution:

- Centralized alarm aggregation from over 2,000 OLTs spanning five different vendors.
- Clear visualization of cable segments affected by fiber cuts.
- Strong, scalable platform capable of handling thousands of events per second centrally, removing the need for branch-level deployments.

Results Achieved:

- Substantially reduced operational costs and minimized downtime.
- Faster, targeted dispatching of maintenance teams.
- Accurate real-time visibility, improving overall network reliability.

Trusted by Telecom Leaders

Globberry's FiberSpotter is trusted by major telecom operators including Vodafone, Veon, Kyivstar, and Telus. Our solutions consistently meet rigorous standards and earn certifications from top industry bodies.

Ready to Simplify Your Network Operations?

Discover how FiberSpotter simplifies operations, saves money, and ensures network reliability.



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