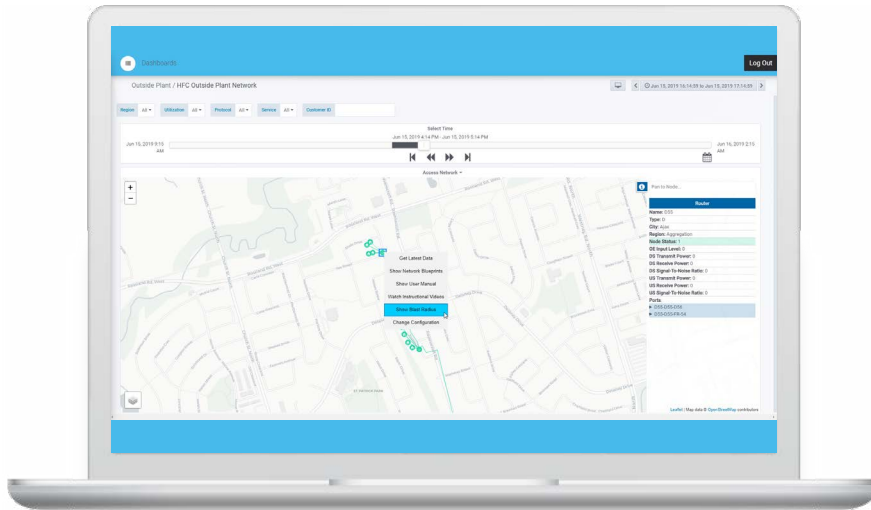


Service-aware HFC Assurance and Impact Analysis

HFC Performance Management

Take pro-active command of HFC network performance through inventory-driven analytics; isolating the root cause and magnitude of network degradations before they become outages.



Problem Statement

- Correlation of common faults across a complex HFC access network
- Pro-active intervention must be driven by real-time analytics
- Impact analysis and preventative automation require precise profile of blast radius
- Precise determination of per-service implications is required

Field Operations

Customer Care

End-to-End Assurance

Area of Focus

Outside Plant

Network Performance Management

Assurance

HFC

Analytics

Capabilities Summary

- **Inventory-Driven Topology**
Element-by-element service tree mapping from central inventory records.
- **Service Awareness**
Per-service telemetry along the signal path.
- **Root Cause Analytics**
Machine Learning and rules-based trouble profiling.
- **Network Status Playback**
Time-series analytics capture history of the network.
- **Blast Radius Analytics**
Quickly report on severity and impact of degradations.

BENEFITS

Proactively Orchestrate Your Network Through Timely and Precise Analytics

- Identify, characterize and locate network troubles in real-time.
- Feed highly-localized conclusions to network automation and alerting systems for remediation.
- Instantly assess severity of network troubles; identifying impacted customers and services.



Topology-based service analytics for HFC networks deliver value through:

- Highly precise and objective analytics are key inputs to closed-loop automation.
- Network performance scores can be accurately profiled from both service and individual customer perspectives.
- Customers and services can be benchmarked across the network, powering more focused network upgrades.