How Agentic AI Correlates GPON and FTTH Networks

AI agents autonomously bridge data gaps between EMS, GIS, and CRM systems to slash MTTR and optimize performance across complex fiber infrastructures.

MONTREAL, CANADA, January 14, 2026 /EINPresswire.com/ -- Unryo, a leader in Agentic AI for IT and network operations, today detailed how its AI framework is solving the most persistent challenges in Gigabit Passive Optical Network (GPON) and Fiber-to-the-Home (FTTH) operations. By automating the correlation of fragmented data across siloed systems, Unryo allows operators to move from manual troubleshooting to autonomous network intelligence.

Orchestrating Data Across the Fiber Stack

GPON environments are notoriously difficult to monitor due to the "blind spots" created by passive optical components and data trapped in separate EMS, GIS, and CRM systems. Unryo's Agentic AI acts as

Dynamic GPON Topology

a digital engineer, interacting directly with these disparate sources to reconstruct real-time dependencies and pinpoint root causes.

Key Capabilities:

- Dynamic Topology Reconstruction: The platform automatically builds a live dependency graph linking physical entities (Metro OLT Splitter ONT) to logical customer services and SLA commitments.

- Automated Root-Cause Investigation: Agents execute sophisticated engineering workflows, such as isolating power degradation, validating OLT port saturation, and detecting optical drift before failure occurs.
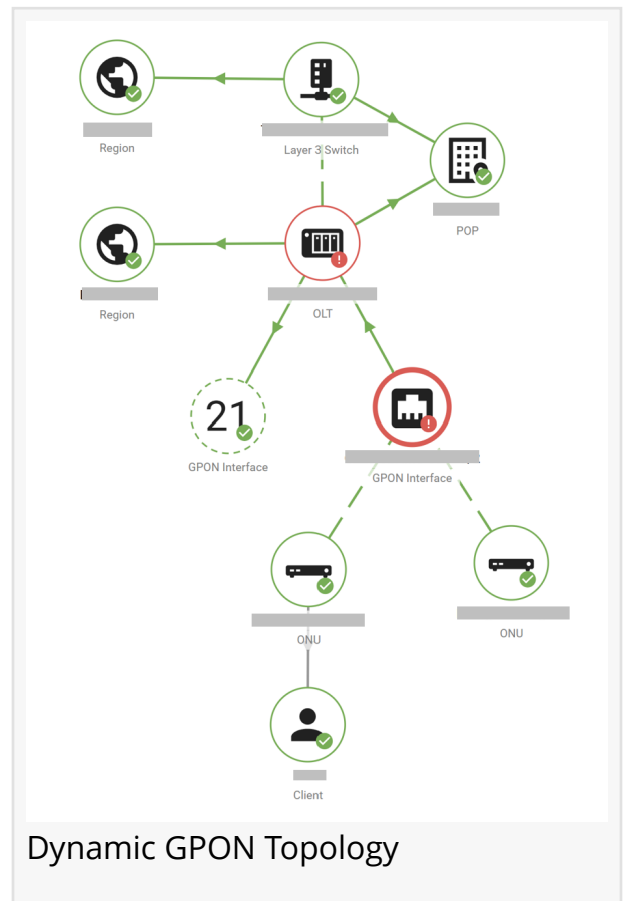
- Conversational Diagnostics: Technicians can interact with the network via a context-aware chat interface. Instead of navigating dashboards, they can ask, "Identify all customers affected by the attenuation spike on splitter Z," and receive a structured explanation backed by live evidence.

- Business-Aware Remediation: Unryo quantifies service impact in real-time, calculating exact SLA/SLO risk and allowing operations teams to prioritize repairs based on business-criticality rather than just alarm volume.

Strategic Operational Impact:

By unifying the observability stack into a single end-to-end view, Unryo delivers measurable gains in operational efficiency:

- 80% Reduction in MTTR: AI agents identify root causes and propose remediations within seconds.

Conversational Diagnostics

- 30% Less Downtime: Predictive detection of optical degradation prevents outages before they impact the subscriber.

> "Our Agentic AI identifies root causes in seconds by automatically correlating data across EMS, GIS, and CRM—eliminating the manual lookups that stall fiber operations."
>
> *Michel Foix, Co-Founder of Unryo*

- 60% Tool Consolidation: Streamlines fragmented monitoring environments into a unified operational framework.

For a deep dive into these technical workflows, download the full white paper here: https://www.unryo.com/gpon

If you operate GPON at scale and want fewer dashboards, fewer manual checks, and faster answers, this paper is for you.
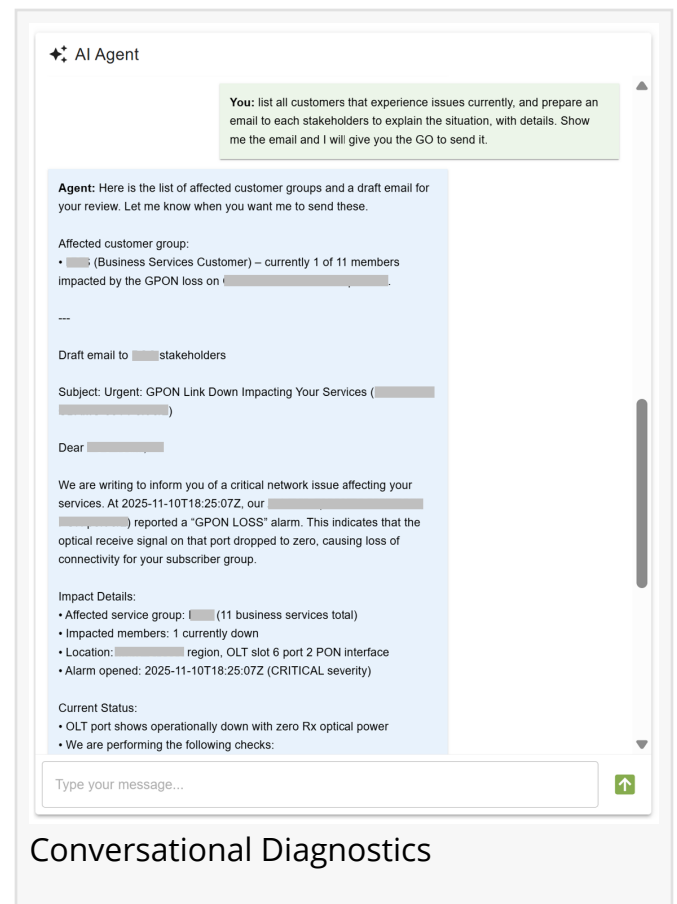
About Unryo

Unryo is the first production-ready true agentic AI platform for infrastructure intelligence. Based in Montreal, Quebec, Unryo helps enterprises monitor, analyze, and manage hybrid environments through autonomous AI agents that deliver actionable insights in real time. Learn
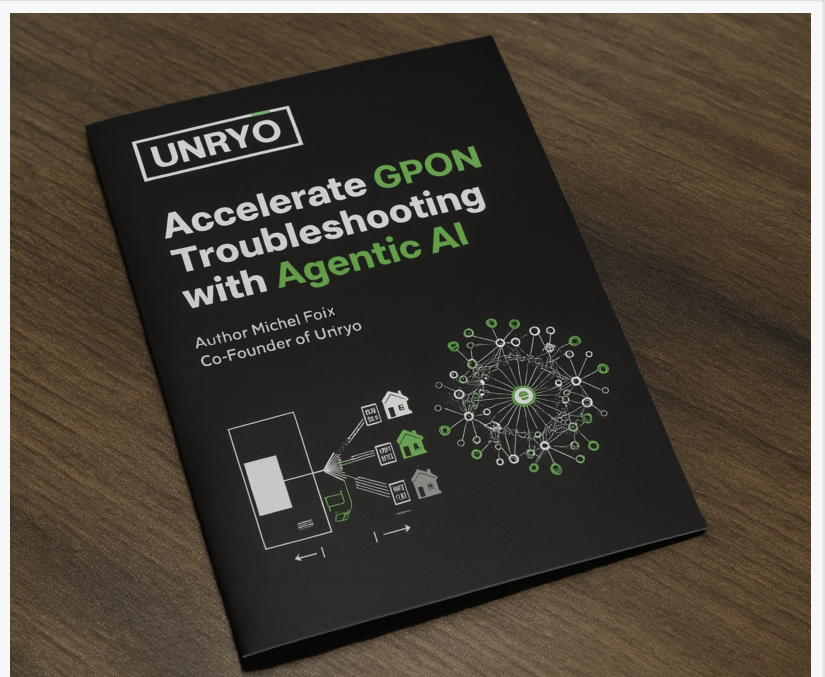
more at www.unryo.com.

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White Paper: Accelerating GPON Investigation with Agentic AI

This press release can be viewed online at: https://www.einpresswire.com/article/882873304