

Unlock AI scalability with autonomous network assurance



The enterprise technology landscape is being fundamentally captured by a rapid transition toward agentic AI workflows – highly contextual, autonomous software sub-agents capable of executing complex, multi-variable business processes with minimal human oversight. As organizations scale these interconnected automated systems to manage diverse business demands, they generate unprecedented infrastructure strain.

These automated workflows require immense data throughput, continuous bidirectional synchronization between edge nodes and cloud data centers, and strictly deterministic latency profiles to allow real-time decision-making. For IT leadership, the strategic reality is clear: An AI transformation strategy is only as viable as the underlying network architecture supporting it. Sustaining modern operational momentum requires a shift toward AI network management to act as a competitive accelerator rather than an infrastructure bottleneck.



The challenge

Enterprise IT teams find themselves balancing strict business Service Level Agreements (SLAs) and compounding operational complexity. When infrastructure incidents occur, resolution is severely hindered by the limitations of traditional enterprise environments:

- **Telemetry overload and visibility gaps**
The core obstacle for most enterprises is network architectural complexity and a critical lack of centralized visibility. IT leaders often face a multi-vendor, multi-cloud environment, making it difficult to isolate root causes.
- **The manual engineering bottleneck**
Traditional, manual enterprise change management protocols consume intensive engineering man-hours. In a fragmented environment, finding a solution is slowed further by a lack of vendor accountability and a heavy reliance on administrative queues.
- **Cascading operational downtime**
In an ecosystem governed by interconnected AI workflows, network degradation cannot afford to wait for human intervention. A slow response time results in dropped data streams, compromised compliance reporting, disrupted core application and business stagnation.

The assurance agent

To help reduce operational friction, the assurance agent can be directly built into the core infrastructure operating layer. Designed to understand complex environments, reason through multi-variable anomalies, and adapt based on environmental telemetry, the assurance agent acts as an automated Tier-1 NOC resolver. It triages alarms in near real time, executes runbook-driven repairs, and runs proactive diagnostics to help preserve live service streams and reduce downstream business impact.

The benefits*



Autonomous incident triage

Designed to quickly process reactive alarms across the entire architectural span—including wireline, wireless and private cellular access layers—without requiring manual human triaging.



Automated change management

Significantly re-engineers the traditional troubleshooting pipeline by significantly shrinking change execution times.



Deterministic ticket validation

Leverages algorithmic validation to significantly reduce manual human processing errors out of the operational cycle, dramatically accelerating execution speeds.



Open by design integration

Integrates with your existing IT service management (ITSM) tool sets to help you avoid parallel portals and manual processes.

Partner with Verizon on your AI transformation journey. Trust us to build, manage and support your network, so you can focus on innovation and growing your business.



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