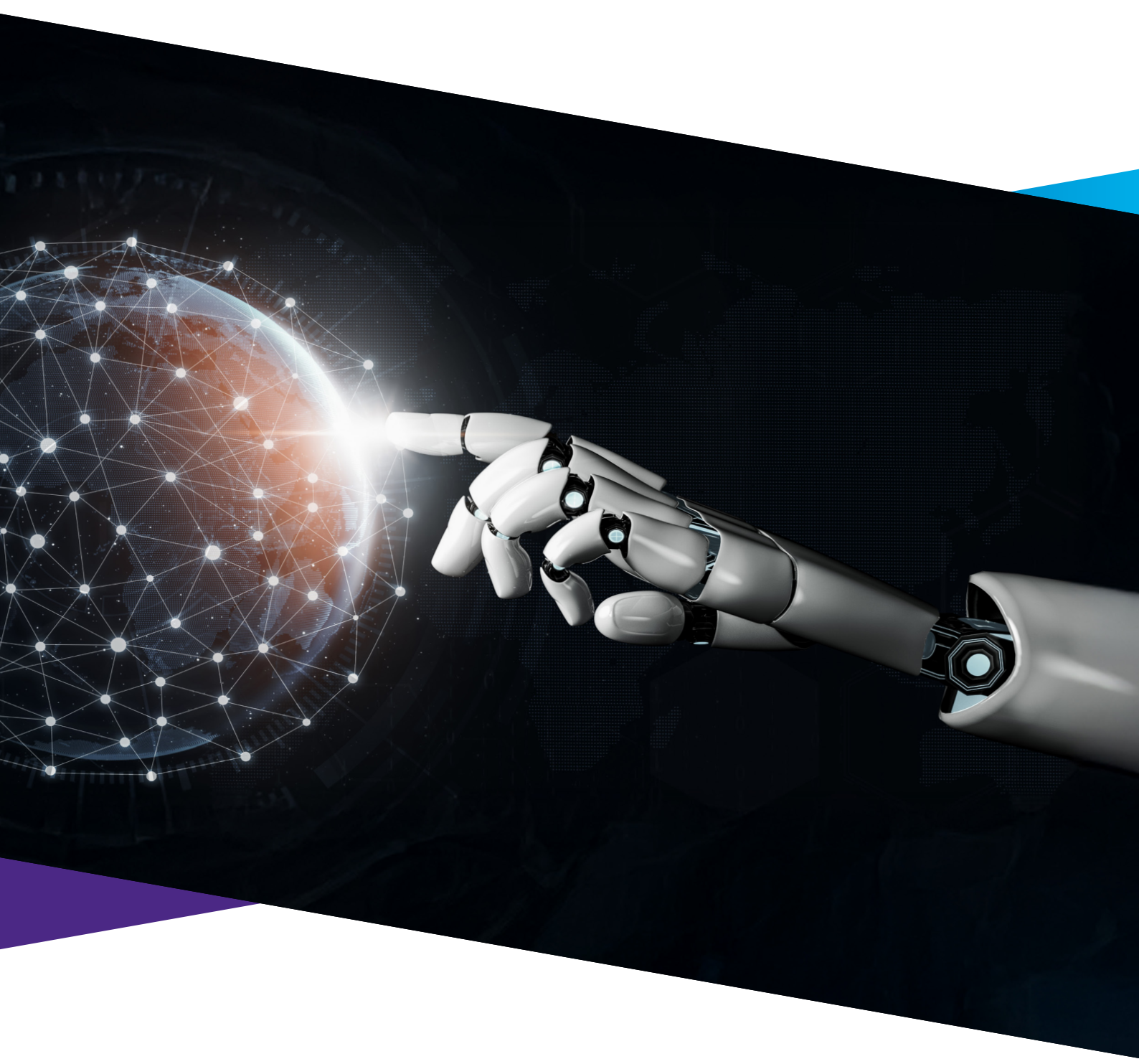


NITRO AIOps

Redefining Network Operations



Telecommunication networks are at the heart of our connected world, but network operators today face unprecedented challenges.

Exponential network complexity, driven by multi-technology deployments, complex multi vendor ecosystem, network transformation initiatives and increasing data demand, is coupled with stagnant revenue growth and escalating operational costs.

To remain competitive, operators must transform their networks to deliver on the promises of 5G and beyond, but they are often hampered by a series of critical issues:

Soaring OPEX and Labor Costs: Over the past decade, the cost of managing and maintaining networks has surged. OPEX now represents 70-85% of total telecom spending, with labor-intensive maintenance alone accounting for 20-25%. This financial strain leaves operators with limited room to innovate or reduce overall spending.

Unlocking 5G's Full Potential: While 5G technology promises transformative use cases, its inherent complexity makes rapid deployment, scaling, and autonomous operation difficult. This slows time-to-market for new services, limiting the revenue growth operators urgently need to offset rising costs.

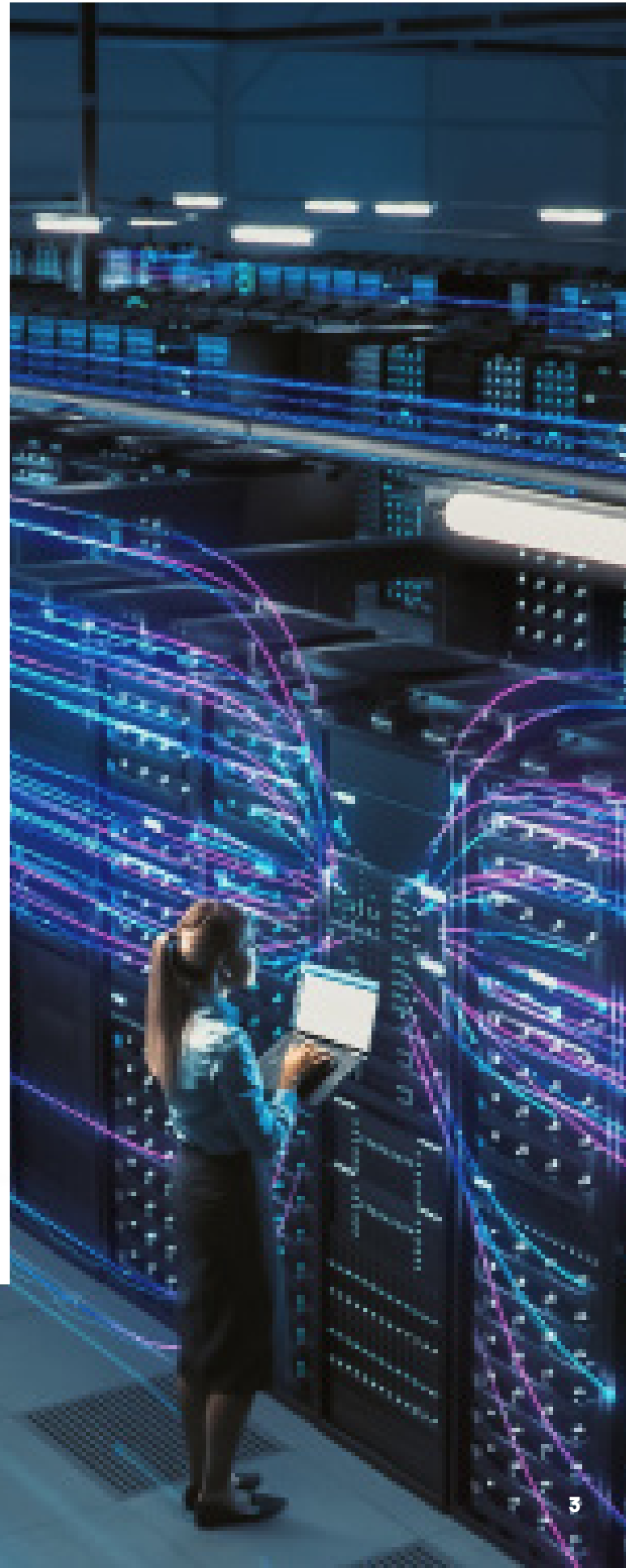
Profitability Pressures: Telecom operators are increasingly squeezed by fierce competition and stagnant ARPU growth. Traditional approaches to non automated operations are no longer sufficient to drive profitability and customer satisfaction in this challenging environment.





VIAVI NITRO® AIOPS IS A CUTTING-EDGE SOLUTION:

- As an advanced, end-to-end, top-down intelligent engine, VIAVI NITRO AIOps serves as an umbrella solution that **seamlessly integrates across multi-vendor, multi-technology, and multi-domain environments.**
- VIAVI NITRO AIOps AI-driven capabilities offer telecom operators a unique opportunity to **simplify NOC complexity and streamline operations.**



Network Operators are facing mounting pressure to drive revenue growth and enhance efficiency.

How can NITRO AIOps help address this challenge?

NITRO AIOps bridges the gap between complex networks and efficient operations enabling a transformative approach that leverages AI, machine learning (ML), and big data analytics to automate and enhance end-to-end (E2E) multi-domain network orchestration.

90% Reduction in Alarm Noise

30% Cost Savings

CSPs Key Pain Points

Growing Networks Complexity

Escalating Operational Costs

Demand for High Availability and Improved User Experience

NITRO AIOps Benefits

TCO Reduction: Utilizing AI and predictive maintenance, NITRO AIOps effectively mitigates costly downtimes. Advanced AIOps capabilities in resource allocation, capacity planning, and optimization further enhance cost control, promoting sustainable network operations even in the most complex scenarios.

OPEX Reduction: NITRO AIOps elevates network management, troubleshooting, and service assurance through automation, unlocking the full potential of zero-touch operations and enhancing operational efficiency.

Digital Transformation – 5G Monetization: NITRO AIOps enables network digital transformation with real-time analytics and predictive maintenance, identifying issues before they impact users. Its self-healing capabilities optimize performance, ensuring a seamless user experience even during peak loads.

NITRO AIOps Key Capabilities



NOC Consolidation through Cross-domain MOP Automation



Single Pane of Glass Visibility with Auto Discovery and Topological Correlation



ML driven Real Time Network and Service Assurance



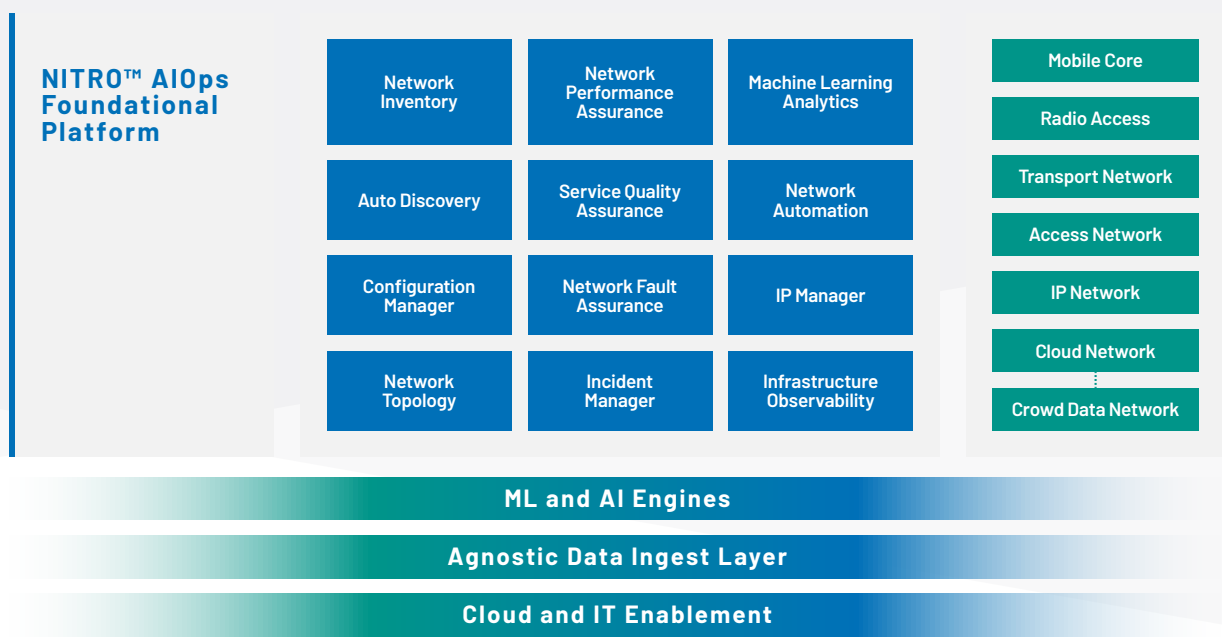
Multi-dimensional Noise Reduction through Topology-based Event Correlation

NITRO AIOps is a cloud-native, multi-vendor, multi-technology, and multi-domain end-to-end solution that overcomes the limitations of traditional OSS systems and existing products in network operations.

NITRO flexible and adaptable architecture is designed to work across different domains, scale dynamically with demand, and support various dimensions of correlation providing a single source of truth across the entire network.

Scalable & Future-Proof Platform
Designed for Diverse Operator Needs

Architecture Schematic



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- 

Cloud-Native Design
- 

Vendor Agnostic
- 

Simplified Complexity
- 

Truly E2E Visibility Across Layers, Technologies, and Domains
- 

Dynamic Scalability
- 

Single Source of Truth

ESSENTIAL AIOPS SOLUTIONS

Digital NOC Transformation

Zero Touch Networks

NITRO AIOps enables the shift to 'Zero Touch' networks by using AI-driven automation simplifying the complexities of multi-cloud, multi-technology, multi-Domain and multi-vendor environments. Enables efficient NOC Operations through event correlation (Noise Reduction)



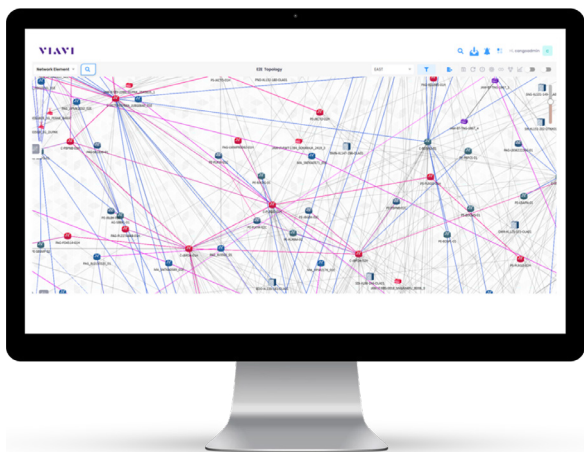
Benefits

- Enhanced Efficiency
- OPEX Reduction
- Strengthens Network Stability
- Fasten Time to Launch New Services

Network Observability (N-Twin)

Auto-Discovery/Inventory

Enhances network observability by implementing advanced E2E auto-discovery/Inventory functionalities, dynamically maps network topology, providing an up-to-date visual of Network Elements and their physical, logical relationships as well as Service Layer.



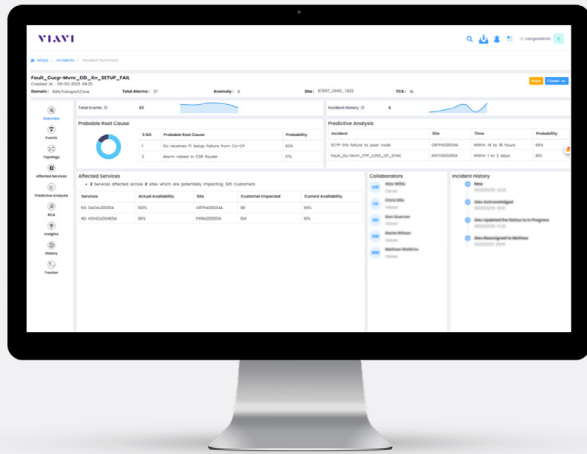
Benefits

- Simplify Issue Detection
- Speed up Root Cause analysis
- Empower Network Resiliency
- Improved E2E Inventory Accuracy

ML Based Service Assurance

Predictive Analytics

NITRO AIOps ML-based service assurance employs *predictive E2E cross-domain analytics and correlations* to optimize service performance, anticipating potential issues through advanced pattern detection in historical and real-time data.



Benefits

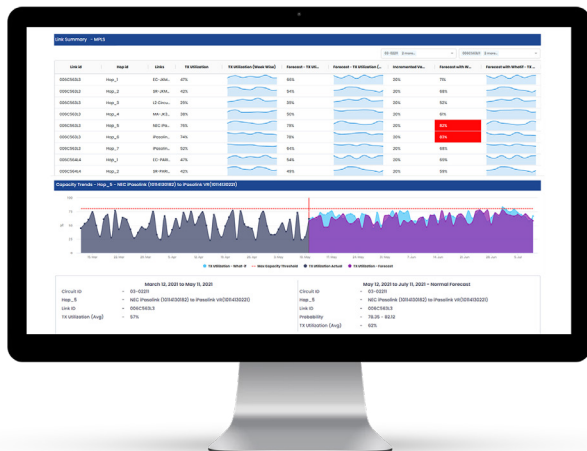
- Predictive Service Degradation
- Preemptive actions, Minimizing Downtime
- Seamless and Reliable Service Delivery
- Consolidated Network Monitoring

ML Based Network Assurance

Auto root cause and self healing | Informed Capex Decisions

NITRO AIOps, powered by ML, enhances network assurance with automated root cause identification and self-healing capabilities.

Predictive analytics and event correlation anticipate disruptions, enabling real-time adjustments and Informed CAPEX Investments through Capacity Planning and NBA Recommendations for seamless operations.



Benefits

- Reduced Down Time
- Enhanced Network Resiliency
- TCO Reduction

DRIVING STRATEGIC VALUE FOR OPERATORS

VIAVI Selected by TDC NET to Drive Network Transformation with Advanced E2E Automated Monitoring Across Complex Domains

VIAVI NITRO AIOps is designed to seamlessly operate across TDC NET’s entire IT and telecom ecosystem, covering mobile, coax, fiber, core, transport networks, and data centers. Serving as a central hub for network management and monitoring, it integrates data and alerts from multiple vendors, technologies, and domains into a single intelligent system, streamlining complex network operations to achieve unprecedented efficiency.



“As a connectivity pioneer in Denmark, TDC NET is focused on improving and automating the operations for both fixed-line and mobile networks, so we rely on proven innovation and performance from partners like VIAVI”

- Carsten Rasmussen,
Head of IT Enablement, TDC NET

Claro Colombia Selects TCS and VIAVI Partnership to Improve Customer Service Using AI-Based Technology

Leveraging NITRO AIOps’ AI/ML capabilities, Claro SOC in Ortezal will gain a unified, multi-vendor, multi-technology, and multi-domain view, ensuring end-to-end visibility of mobile and fixed network services.



“The value of a SOC lies in its ability to keep services running smoothly, secure from threats, and optimized for performance. Our partnership with TCS provides end-to-end visibility that helps Claro’s SOC deliver a better customer experience. By enabling real-time visibility, predictive maintenance, and rapid resolution capabilities, VIAVI NITRO AIOps helps Claro successfully execute its innovative initiatives.”

- Eddy Bueno, Vice President, Latin America, VIAVI

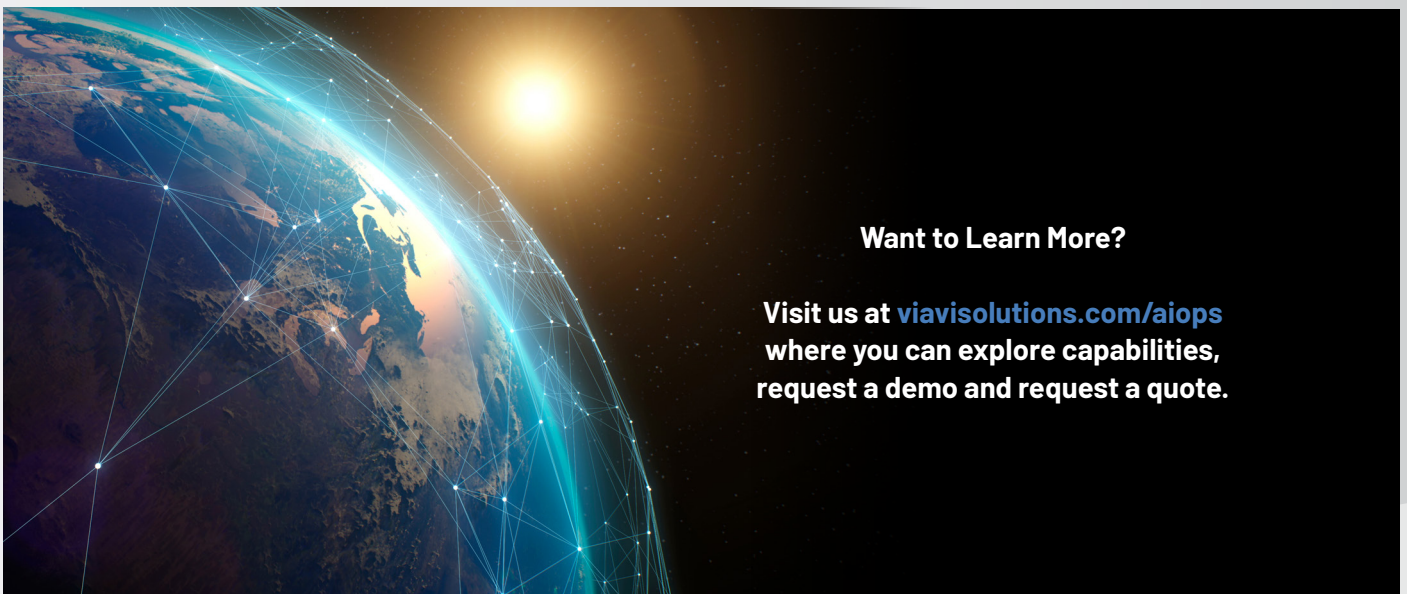
VIAVI Selected by Telefónica HISPAM to Provide Advanced, Automated Network Inventory Management

AI Ops Inventory Management solution is engineered to manage Telefónica HISPAM's passive and active network components across multi-domains like Radio, Core, IP, Transmission, Microwave, and Fiber Optics, including IP Address Management (IPAM). It automatically discovers, catalogs, and maps physical assets, software, virtual devices, and their connections, creating an unprecedentedly unified source of truth.



“Telefónica HISPAM maintains a commitment to build a modern and efficient OSS architecture, and to accomplish this we rely on extensive engineering expertise as well as the proven reliability, convenience and ease-of-use given to us by VIAVI and their AI Ops solution. We are rapidly expanding our regional network, and innovations from VIAVI will have a significant impact on improving the service and reliability we offer our subscribers.”

- Gabriel Rodriguez,
Head of OSS Systems for Telefónica HISPAM



Want to Learn More?

Visit us at viavisolutions.com/aiops where you can explore capabilities, request a demo and request a quote.



viavisolutions.com

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To reach the VIAVI office nearest you, visit viavisolutions.com/contact

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