

VIAVI

NITRO AIOps Inventory Management

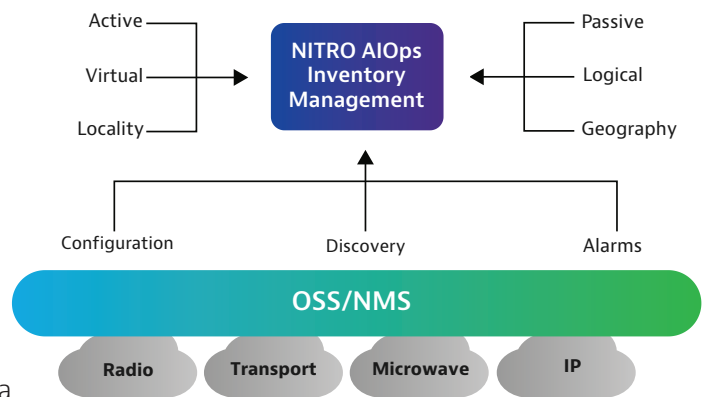
Unified Inventory Platform Awareness

With quality of service being a key differentiator, Communication Service Providers (CSPs) are only as good as their network performance. Compounding this challenge, networks are becoming increasingly larger, complex and virtual. Meanwhile, customers are becoming even more demanding and volatile.

The key challenges that an operator faces today are:

- Vendor/domain-dependent siloed network systems
- Lack of an end-to-end view(360 degrees) of the real-time visibility of resources and services
- Increases in MTTR (Mean-time-to-repair) due to challenges in finding the actual root cause

NITRO® AIOps Inventory Management combines multi-vendor, multi-technology, multi-domain network data on a single pane of glass and provides an end-to-end view of the network. Leveraging patented VIAVI topology, users are able to ensure reliable network operation and experience complete network situational awareness.

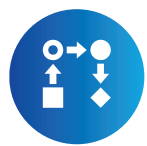


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Key Use Cases



Advanced Inventory Management Platform

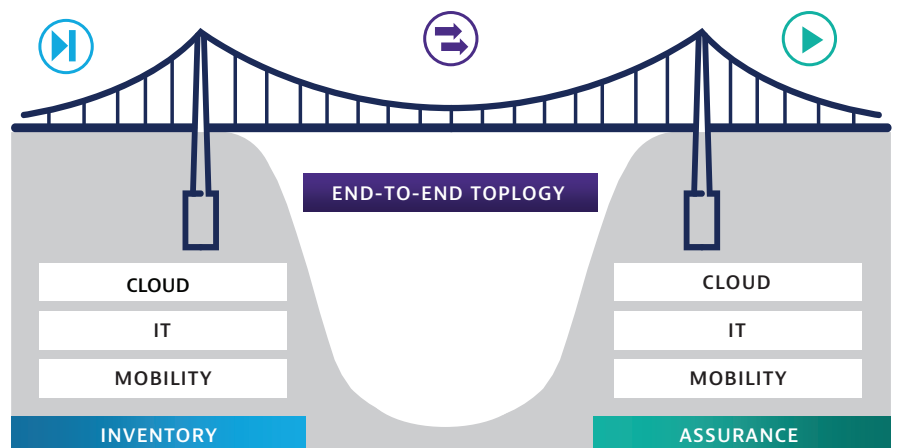


Autonomous Service Change and Configuration



Field Support Intelligence Platform

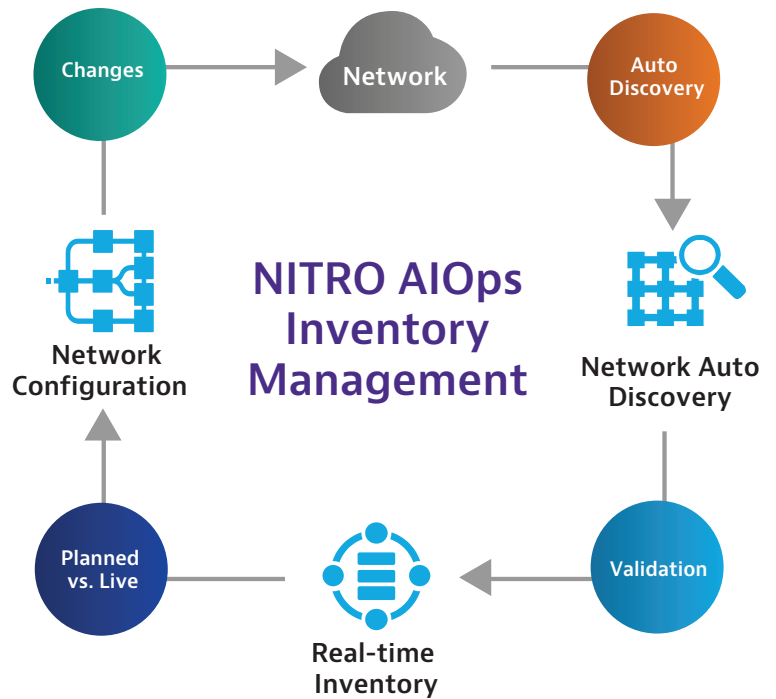
NITRO AIOps Inventory Management topology acts as a bridge between assurance and inventory management, bringing all network parameters together in a single pane of glass and providing true end-to-end visibility of resources and services.



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Bridging the Silos – Topology Connects the Silos

NITRO AIOps Inventory Management builds a unified data model by acquiring data from multiple sources of the network system through auto-discovery.



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Benefits

- **Single Source of Truth** for all physical and logical network resources in the network.
- A new **inventory data model** that bridges inventory with legacy/hybrid networks which may have multiple vendors NMS/EMS/OSS echo systems, and enables integrated asset discovery and life cycle management.
- Complete control over the network, with NITRO AIOps Inventory Management acting as a single source of data for multiple teams and reducing **CAPEX** and **OPEX** by bridging the silos.

Key Features

- **Unified Data Model**
 - All the departments use the same inventory database, which leads to efficient data processing and, thanks to the elimination of lots of dedicated interfaces which reduces operational expenditure
- **Topology**
 - Our patented topology autodiscovers the network elements and dynamically stitches the topology providing a single unified view of the entire network at scale
- **QR Code Mobile App**
 - Devices at Multiple Locations can be identified and updated through QR Code Mobile App which helps in effective Fixed Asset Management/Tracking which reduces Field Work.

Customer Challenge

CSP's do not know the accurate real-time information in their networks. It is due to legacy systems that depend on spreadsheets, siloed vendor dependent systems. The complexity and implications grow as the networks grow. CSP's are trying to automate the key processes with tight integration of Assurance and Management Processes to reduce cost and improve efficiency as a leap towards Zero Touch Operations.

Automation isn't just about recovering from the effects of fault/outage but eliminating the root cause of the fault/outage. Legacy systems are an obstacle to automation. Automation cannot be achieved without precise information about the telecom's asset and inventory base. CSP's need a next-generation vendor and technology independent asset and inventory management which correlates the data from multiple network data sources and integrated with other systems to enable automation.

VIAVI Solution

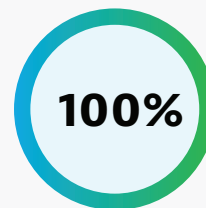
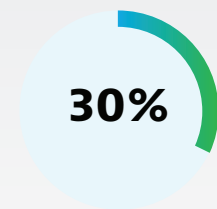
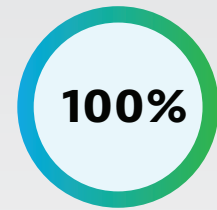
NITRO AIOps Inventory Management provides one consistent view of the network for all technologies and layers enabling CSPs increase business efficiency and reduce OPEX. NITRO AIOps Inventory Management is the foundation of NITRO AIOps and provides the data and information for all other modules, such as Planning and Design, Fault Management, Configuration Management, Service Quality Management, and Network Operations. All the individual modules utilize the same inventory database which paves the way for the foundation of automation.

Use Case

Real-time deployment in a major Indonesian operator provided:

- 50,000+ RAN Sites Monitored
- 45,000+ Microwave Devices Managed
- 41,000+ Sites Monitored
- 15,000+ IP Monitored

Higher Performance through Automation



Additional Features and Capabilities



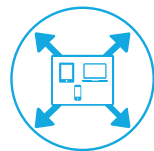
Inventory Management

Network inventory management allows you to keep track of what network devices you have and all their relevant software and hardware.



Configuration Management

Network Configuration Management is fully integrated with the Network Auto-Discovery Framework, which automatically retrieves the current status of the network.



Asset Management System

The Asset Management System enables the Operations Team to manage all the assets that are present in the Network and their Aging Status as well as the Warranty Status of the Assets.



Release Management

The Release Management System enables the Operations Team to manage all the Version Releases that are currently being discovered in the Network Elements along with their Hardware/Software Licensing and Versioning Information.



End-to-End Topology

Patented End to End Topology helps in bridging the Silos currently present in the Network across multiple Domain by dynamically stitching the entire network.



License Management

License Management provides brief information about the license details for each active device based on the domain and NE type categorization



Resources and Service Catalog Management

Resource and Service Catalog Management provides a complete Closed-loop Service Fulfillment solution, which enables efficient network resource utilization and improved service definition.



Site Explorer and Field Tracking

The GIS Explorer provides the Geographical Visualization of all the Sites along with the Network Elements that are present in the Network based on the Geopositioning Information.