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Brochure

NITRO AIOps Cloud-Native, End-to-End Service Assurance

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The VIAVI NITRO[®] cloud-native Artificial Intelligence for Network Operations (AlOps) portfolio helps CSPs, DSPs, ISPs, Utilities, and Enterprises accelerate their digital OSS transformation journey by evolving their legacy network operations center (NOC) to a dark NOC. The NITRO AlOps End-to-End Service Assurance solution enables the breaking down of silos across network domains to provide a vendor agnostic and holistic view of the entire network - end-to-end. With real-time monitoring, NITRO AlOps Service Assurance enables root cause identification of Customer Experience (CX) - impacting issues enabling proactive problem resolution.

Network Intelligence	Auto Discovery and End-to-End Network Service Topology Service Assur and Analyt (Telco, Cloud		cs Operat		ions & sed	Forecas	capacity P ing and N		Application Performance Monitoring & Observability		Field Operations Management & Tower Mobile App			
		formance surance	A Fai	ult Manage & AlOps			ntelligent orrelation			ntory gement		Con Ma	figuration nagement	
	NITRO AIOps Service Assurance													
NOC/SOC Applications	Network & Service Assurance	Service Qu Managem		1101	26 -	ross Domain Correlation	Customer Experience Analytics	e Virtual		Resource Catalog anagement	Configu Chai Manag	nge	Configuration Delta Analysis	
	Cross Domain Correlation	Root Cau Analysi		n Incid Classifi		Probe Correlation	PM, FM, CM Auto Disco Correlation & Reconcilia		/ery	Service / Resource rovisioning	Configu Back Rest	up &	Golden Configuration Comparison	
	End-to-End Topology		898	AI/ML Analytics		Automation & Orchestration		IP Address Management		Observability/ Application Monitoring				
	Single Pane of Glass)		Anon Detec		End-to-End Zero Touch Automation Provisionin		- 0	0		App, Flow, & Kubernetes Monitoring		Log Analytics & Forensics	
	MW Route Path Analysis			e Wha Simula	IT-IT	Parameter Comparison & Closed Loc Analysis		1			Automonous SOC		Infra Layer Observability	
	Performance Counters		Alarms	ms Log		Traces		Inventory	rv i i i i i i i i i i i i i i i i i i i		omer ience		cense Data	
Data Sources	KQI		Events	Me	trics	Config	uration	Network Pro	bes	Revenue	Data	Ticke	et Information	
Interface Protocols	SNMP v2c, v3	CORBA	ODBC, RPC, RMI	FTP	SFTF	P Rest API Te		emetry Kafka Streaming		NETCONF RES		STCONF	Custom Interfaces	
Domains	Radio	vlicrowave	Open RAN IP N	lobility Ei	IP nterprise	Firewall	DWDM	Core RAN	Core-CS,	PS FTTH	+	IN/VAS	Fixed Line	
Environment	Physical Servers	IoT	Ericsson VNF	Nokia	VNF	Cisco VNF	Huawei VNF Azure Clo					azon Web Services Docker + Kubernetes		

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Al for Network Operations (AlOps) Portfolio and Coverage

NITRO AlOps Service Assurance

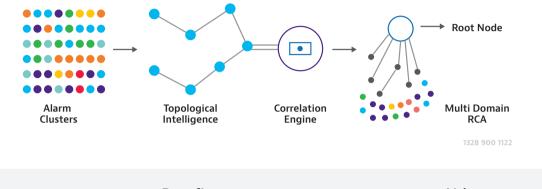
Enable network operation teams to proactively identify and resolve CX-impacting network problems and ensure quality service delivery

- Identify critical metrics for bottlenecks that affect Quality of Service (QoS)
- Proactively plan network capacity
- Forecast Network Faults
- Analyze and predict network traffic

A One-Stop Solution

VIAVI NITRO AlOps visualizes, automates, and optimizes digital experiences as well as service and network quality across hybrid telco and IT networks by integrating real-time assurance with closed-loop automation and analytics driven by artificial intelligence/machine learning.

Powered by a topology, assurance and analytics suite of applications, NITRO AlOps governs the digital experience as well as service and network quality with intelligence that monitors, detects and heals by leveraging local orchestrators, driving digital transformation initiatives towards autonomic network management.



Teams

- Network Operations
- Field Operations
- Customer Care

Benefit

- Proactive alerting system
- Collaborative space for operators
- Automated process workflow trigger at the edge

Value

- Improved operational efficiency
- Faster alarm triage

Product Features

NITRO AlOps is available as a cloud service on public, hybrid, and private clouds.

Network Performance Monitoring

Monitor your network with 1000+ KPIs along with intuitive dashboards, instant alerts, and intelligent reporting

End-to-End Network Topology

Automated end-to-end, multi-layer, multi-vendor, multi-domain topology with end-to-end visualization and management

Network Configuration Manager

Integrated with the Network Auto-Discovery Framework which automatically retrieves the current status of the network

Workflow Automation

Orchestrate and automate network fault troubleshooting steps and ongoing maintenance tasks with ease using a rule-based workflow engine

Anomaly Detection

Detect and rectify abnormal patterns in the network automatically through AI algorithms

Application Performance Management

Monitor application performance across physical, virtual, and cloud environments to ensure mission-critical business apps meet end-user expectations

GIS and Network Topology Visualizer

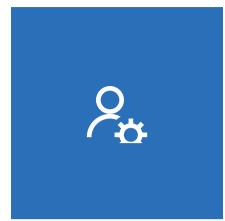
Understand the bigger picture by visualizing how the overall network infrastructure is organized

Proven Success Cases – Focus: CSPs



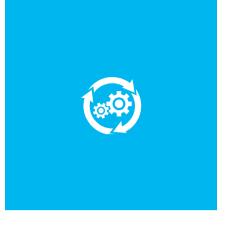
Empowering Fault Management

Through automated service quality management, customer experience impacting failures and the probable root cause of network failures can be identified and rectified, thereby reducing resources required to support the network leading to overall OPEX reduction



Improved Capacity Planning

Planning the network capacity is very crucial, especially on special occasions. NITRO AlOps forecasting prediction algorithms give an idea to capacity planning teams as to the reduction or addition needed based on observed data



Automated Network Orchestration

Repeatable activities can be automated using the root cause analysis (RCA) workflow feature which, in turn, increases the efficiency of the network avoiding manual intervention and potential associated human errors

Customer	Problem	Solution	Benefit			
East African Operator	High handoff and drop	Identified capacity issues	Improvement in customer			
	rates impacting customer	in Mw VoLTE network	experience identified via			
	experience	elements	an audit			
Middle East Operator	High roamer issues observed in the network	AlOps Service Assurance observed high GGSN reject failures in particular roamers	Roamer issues were reduced with improved customer experience			
North American Operator	No single system to view	Provided end-to-end	Single pane of glass			
	the performance of all	analytics of the entire	enterprise customer			
	network elements	network	performance views			



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