
Alcatel-Lucent Enterprise OmniVista® 2500 NMS GOLDEN RFP 4.8R2

Version 1.0

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1. Introduction

The Alcatel-Lucent OmniVista® 2500 Network Management System (NMS) provides cohesive management and network-wide visibility, increasing IT efficiency and business agility. It provides a full set of management tools for converged mobile campus. This single platform enables operators to easily provision, manage and maintain a unified Campus Mobile infrastructure with its network elements, alarms, unified access security policies, and virtualization. It also provides advanced network analytics for a full visibility into wired-wireless devices, IoT endpoints and applications, as well as predictive analysis for forward planning.

Providing a network-wide management system for the Alcatel-Lucent Enterprise Network portfolio, the OmniVista 2500 NMS provides a comprehensive set of components and tools for campus mobile infrastructure configuration, monitoring, security, device configuration, alert management, to accelerate, downtime resolution, and overall management.

2. OmniVista 2500 NMS Datasheet:

<https://www.al-enterprise.com/-/media/assets/internet/documents/omnivista-2500-nms-datasheet-en.pdf>

3. Network Management System Minimum Supported Features

3.1. Platform

3.1.1.	The NMS shall support High-availability modes	C/PC/NC
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3.2. Deployment

3.2.1.	The NMS shall support deployment as a Virtual Appliance on VMware ESXi, Microsoft Hyper-V, and Linux-KVM hypervisor platforms	C/PC/NC
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3.3. User Interface

3.3.1.	The NMS shall be access from a web-based interface and shall support mobile browsers	C/PC/NC
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3.4. Topology

3.4.1.	The NMS shall provide a unified Network Topology of both WLAN and LAN Infrastructure with adjacency and mapping capabilities	C/PC/NC
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3.4.2.	The NMS shall support geo-location topology information to visualize assets based on GPS Coordinates	C/PC/NC
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3.5. Network Discovery

3.5.1.	The NMS shall support simple discovery and commissioning of network devices with third-party interoperability	C/PC/NC
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3.6. Provisioning

3.6.1.	The NMS shall support configuration of templates for consistent device configuration to allow for easy deployment	C/PC/NC
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3.7. Network Fabric Configuration

3.7.1.	The NMS shall support configuration of network fabric and services through a simplified workflow and configuration	C/PC/NC
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3.8. Dashboard and Monitoring

3.8.1.	The NMS shall provide real-time monitoring of network performance and KPIs through customizable dashboard with visual widgets	C/PC/NC
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3.9. Notification and Alarm Management

3.9.1.	The NMS shall support alert and notification management from network devices with third-party interoperability	C/PC/NC
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3.10. Locator

3.10.1.	The NMS shall support real-time and historical network-wide search to locate devices and users	C/PC/NC
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3.11. Resource Manager

3.11.1.	The NMS shall provide backup and restore capabilities of network device configuration	C/PC/NC
3.11.2.	The NMS shall support automated network-wide firmware updated for network devices	C/PC/NC

3.12. Thin Switch management

3.12.1.	The NMS shall support software-defined switch management with limited configuration stored locally	C/PC/NC
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3.13. Analytics and Reporting

3.13.1.	The NMS shall support sFlow collector configuration to provide network-wide analytics including bandwidth and traffic patterns with advanced reporting capabilities	C/PC/NC
3.13.2.	The NMS shall support SLA monitoring for critical links such as Jitter and Latency	C/PC/NC
3.13.3.	The NMS shall provide predictive analytics with capacity utilization trends and threshold alerts	C/PC/NC
3.13.4.	The NMS solution shall support generating built-in report templates with scheduling option	C/PC/NC

3.14. Application Visibility

3.14.1.	The NMS shall support application visibility and policy enforcement	C/PC/NC
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3.15. IoT Enablement

3.15.1.	The NMS shall provide IoT devices inventory management with identification features of contextual information	C/PC/NC
3.15.2.	The NMS shall provide IoT devices policy enforcement and control	C/PC/NC
3.15.3.	The NMS shall offer IoT device secure onboarding that is as simple as possible and without requiring additional third-party components.	C/PC/NC

3.16. Network Access Control

3.16.1.	The NMS shall support a built-in integrated NAC with different authentication capabilities such as 802.1x, MAC, and certificate-based authentication	C/PC/NC
3.16.2.	The NMS shall support built-in RADIUS server and Captive Portal capabilities	C/PC/NC
3.16.3.	The NMS shall support external RADIUS and LDAP servers with role-mapping capabilities	C/PC/NC

3.16.4.	The NMS shall support grouping of attributes such as MAC and IP addresses, ports, or services into lists or profiles for easy policy configuration	C/PC/NC
3.16.5.	The NMS shall support a unified security policy configuration for device and user authentication	C/PC/NC
3.16.6.	The NMS shall support a built-in local database for company property and user accounts for employees and guests	C/PC/NC
3.16.7.	The NMS shall support GRE tunneling features such as guests tunnel configuration	C/PC/NC
3.16.8.	The NMS shall support location and period-based policy configuration	C/PC/NC
3.16.9.	The NMS shall support configuring different guest service levels	C/PC/NC
3.16.10	The NMS shall support configuring guest time and data quotas	C/PC/NC

3.17. Threat Mitigation

3.17.1.	The NMS shall support mitigation, remediation and quarantine against threats and malware attacks	C/PC/NC
3.17.2.	The NMS shall support integration with Intrusion Detection/Protection Solutions	C/PC/NC

3.18. Network Administration Management

3.18.1.	The NMS shall support User and role based access control to specific NMS features and network devices with external authentication	C/PC/NC
3.18.2.	The NMS shall support two-factor authentication for administrator access	C/PC/NC
3.18.3.	The NMS shall support enforcing a strong password policy	C/PC/NC

3.19. Data Center and VM Management

3.19.1.	The NMS shall support integration with vSphere, XenServer, or Hyper-V hypervisor systems for VM Management	C/PC/NC
3.19.2.	The NMS shall support creation and management of VXLAN services	C/PC/NC
3.19.3.	The NMS shall support policy enforcement for VMs based on VXLAN traffic	C/PC/NC

3.20. Script Automation

3.20.1.	The NMS shall support CLI scripting for task automation	C/PC/NC
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3.20.2.	The NMS shall support CLI terminal configuration of network devices directly from the web-based interface	C/PC/NC
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3.21. Programmability

3.21.1.	The NMS shall support REST API programmability support for seamless third-party software integration	C/PC/NC
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3.22. Network Management System

3.22.1.	The NMS shall provide a single pane of glass for LAN and WLAN management	C/PC/NC
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3.23. SIP Snooping

3.23.1.	The NMS shall support configuration of QoS policies to SIP data packets	C/PC/NC
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3.24. VLAN Manager

3.24.1.	The NMS shall support management of VLANs across the LAN/WLAN network	C/PC/NC
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3.25. IP Multicast

3.25.1.	The NMS shall support multicast configuration including PIM across the network	C/PC/NC
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3.26. Multimedia Service

3.26.1.	The NMS shall support configuration of mDNS protocol	C/PC/NC
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