ALCATEL-LUCENT
OMNIVISTA 2500
NETWORK
MANAGEMENT
SOLUTION
Network Management for the
Application Fluent Enterprise
In today’s highly competitive business environment, enterprises must be dynamic and adaptable, and be able to respond in real time to new opportunities as they arise. Time is of the essence, and speed and efficiency are critical – and all are dependent on technology.
To be agile, corporate networks must enable connections, communications and, most importantly, actions

Users need reliable whenever/wherever access to the right services and applications as determined by their specific functions and responsibilities. Yet, the more sophisticated networks become, the more complex they are to manage and protect.

A role-based, user-centric network management approach is mandatory, and it needs to be within an infrastructure that can cope with unpredictable traffic volume while remaining secure against intrusion and other malicious activity.

Managers need to oversee all activity from the highest level to the granular level of specific equipment and devices – all using advanced, intuitive troubleshooting tools to resolve issues quickly. Downtime is an unaffordable liability. And, of course, all of this has to happen within an increasingly multivendor environment, accommodating all equipment, not just some.
Within view, within reach

Good network management and security practices drive efficiency and productivity, and they also optimize return on investment. The integrated, easy-to-use Alcatel-Lucent OmniVista™ 2500 Network Management System (NMS) uniquely combines the full set of end-to-end network operations, security management and data center capabilities for large, diversified infrastructures within a single cohesive platform. The solution oversees daily network operations that encompass operational domains under virtualization deployment.

The OmniVista 2500 NMS puts a full range of applications and tools in the hands of network managers so that they can meet the complex demands associated with new services, fast growing and evolving technologies such as data centers and virtualization, and constant security threats. The OmniVista 2500 NMS provides much needed support to IT managers and network administrators dealing with a deployment of converged, mission-critical applications and challenged with upholding service level agreements (SLAs) for existing services.

The OmniVista 2500 NMS is a single, cohesive platform that allows you to monitor network activity from end-to-end, automatically configuring and managing devices. OmniVista 2500 NMS provides data centers with the ability to streamline a virtual infrastructure and physical network under one roof, providing location troubleshooting operations and network provisioning automation for virtual machine life cycle.

In network security domains, it enables greater control over access and privileges through user-based profiling that supports the needs of the day-to-day business, and better protects the network from intrusion and attacks. It also provides extensive troubleshooting capabilities for rapid location and remediation of failures and other issues that might interfere with network performance, thus ensuring maximum network availability.

The OmniVista 2500 NMS provides:

• Operational simplicity through ease-of-use
• Intuitive workflows to reduce the learning curve
• Automation for complex, error prone operations
• Graphical wizard to translate complex IT settings into OneTouch business-oriented complex policies
• Streamlined virtual machine life cycle and troubleshooting for data center network and virtualization operations
• Scalable architecture to sustain large deployments
A singular, cohesive solution

Although ideal for Alcatel-Lucent network equipment, the OmniVista 2500 NMS supports products from any third-party equipment vendor. Its common tools and cohesive, seamlessly interoperable components and applets make it extremely easy-to-use, thus reducing an operator’s learning curve. Plus, it reduces the cost of deployment and network operations through increased automation, reduced human error and minimized operator intervention.

The point of intersection

From the single Alcatel-Lucent OmniVista 2500 NMS platform, managers exercise complete control over their enterprise network and data centers — from initial configuration through definition, monitoring and remediation — ensuring security, optimum performance, and the reliability and availability essential to maintaining business continuity.

All critical network management steps for network and data center operations occur in a cohesive lifecycle, as shown at right.

<table>
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<tr>
<th>FEATURES</th>
<th>OMNIVISTA 2500 NETWORK MANAGEMENT SOLUTION</th>
<th>BENEFITS</th>
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</table>
| Provides cohesive management and network-wide visibility | OmniVista 2500 NMS | • Streamline IT operations and reduce IT effort with the automation of routine tasks  
• Improves control through a single application for network administrators  
• Provides extensive view of network activity and status (with physical and logical topology maps with spanning tree domains)  
• Has a single consolidated interface for event management, performance analysis, configuration operations and network security deployment |
| Offers device discovery, logical and physical mapping with live monitoring | Topology | • Intuitive, visual representation of the network topology, Alcatel-Lucent devices and third-party devices  
• Logical and physical map of devices with actual neighbor linkage info (physical, subnet, layer 2, IEEE 802.1ab LLDP, VLANs, spanning tree domain and manual links)  
• Dynamic map to create custom logical map based on user defined based filters (IP subnet, location, model, user provided descriptive info)  
• Graphical status indication for device and performance monitoring  
• Launch pad for key OmniVista 2500 NMS components |
| Monitors and analyzes network performance and status of SNMP-enabled devices in real time | Notification Manager | • Enables advanced alerting capabilities for network administrators  
• Categorizes alerts through multiple views and through filtering for Alcatel-Lucent and third-party devices  
• Makes it easier and quicker to troubleshoot and provide faster resolution of alerts by pinpointing their root cause  
• Remediation and notification actions based on predefined conditions via a single click |
| Manage device configuration change lifecycle | Resource Manager | • Simplify configuration changes management through scheduling and backup operations  
• Use simple, effective automation to create infrastructure-wide software image update for baseline version management  
• Increase infrastructure availability by reducing time to repair with up-to-date device configuration archive |
<table>
<thead>
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<th>FEATURES</th>
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</table>
| Deploy QoS and bandwidth management for VoIP and data traffic optimization | PolicyView for QoS | • Simplifies IT tasks with OneTouch automation of complex tasks  
• Reduces costs and time required for efficient deployment of QoS across thousands of devices  
• Simplifies complex QoS settings through use of the Policy Wizard, automating the process of configuring QoS and delivering consistent QoS policy behavior |
| Detect network anomaly through traffic behavior analysis | Traffic Anomaly Detection | • Strengthens quarantine protection with network behavior-based intrusion detection  
• Monitors network traffic for threats, and pattern and behavior changes  
• Provides network-wide anomaly reporting configuration  
• Flags abnormal behavior for detection and incident remediation |
| Protect corporate data through a secure perimeter | Quarantine Manager | • Provides an open approach by integrating with third-party IDS/IPS solutions or any other intrusion notifications  
• Leverages security and traffic monitoring built into Alcatel-Lucent OmniSwitch and Alcatel-Lucent wireless solutions  
• Responds automatically and remediates threats in real time  
• Provides threat mitigation on offenders through various quarantine mitigation actions (Quarantine VLAN, port shut down, blocking MAC address)  
• Reduces IT staff burden and costs while increasing overall network availability |
| Define – role-based access control for end user network access rights | Access Guardian | • Combines a unique workflow and all security components for user-centric, role-based access  
• Ensures centralized configuration for end user authentication management, end-system compliance and user network profile through profile-like approach  
• Provides appropriate access to network resources  
• Global configuration and settings for host integrity check such as remediation definition  
• Dynamic network security configuration without IT staff and burden  
• Fully aligns network infrastructure access with business objectives |
| Simplify virtual machine location tracking and inventory operations | Virtual Machine Manager | • Supports and interfaces with leading enterprise virtualization platforms and hypervisors, VMware vCenter and Citrix XenServer  
• Offers a complete, single pane-of-glass for end-to-end physical and virtual networks  
• Automatically discovers and constantly updates the complete virtual machine inventory  
• Automates unified provisioning to streamline universal network profiles configuration to reduce human errors  
• Ensures consistent universal network profiles provisioning across data centers |
| Manage universal network profile assignment to the data center infrastructure to provide instant connectivity when virtual machines move | SecureView Secure Access | • Centralizes control of switch administration access rights, with OneTouch setup for user login, password and partitioned management (user credentials and access rights) |
| Define span of control with secure device access and network administrator credentials | OmniVista 2500 NMS | • Extensible architecture providing single- and multi-user versions  
• A broad number of operating systems and platforms are certified and supported for optimal server performance  
• Robust architecture allows large infrastructure deployment to scale up to thousands of devices  
• Flexible licensing scheme to accommodate future network growth  
• Web services application for northbound interface for cross-application collaboration |
Key components of the OmniVista 2500 NMS

Providing a single-touch, network-wide management solution for the Alcatel-Lucent Enterprise OmniSwitch portfolio, the Alcatel-Lucent OmniVista 2500 NMS comprises a comprehensive set of components and tools for infrastructure configuration monitoring, security, device configuration, quarantine, troubleshooting, downtime resolution and overall management under one umbrella.

The solution brings a new level of simplicity for management operations by building all applications into a unified OneTouch workflow encompassing network and data center infrastructure. With smart integration and advanced third-party support, the convergence of network and security management helps reduce overall administrative costs, improve return on investment, simplify implementation and monitoring, and provide effective network protection from threats.

THE KEY COMPONENTS INCLUDE:

DISCOVERY

This module provides full control over the discovery of Alcatel-Lucent LAN switches, OmniAccess wireless devices or third-party devices. OmniVista 2500 NMS topology applications discover all supported devices and allow network managers to sort device lists however they choose (for example, by IP address or device type). A dynamic indicator shows the status of each device and its health.

TOPOLOGY

The OmniVista 2500 NMS’ topology map presents a quick and easy-to-interpret view of network issues to facilitate rapid troubleshooting. Its dynamic, color-coded status feature pinpoints current and impending problems at a glance. Network managers are able to launch specific applications and http-based management for any solution components, such as Alcatel-Lucent OmniAccess wireless devices, as well as any other third-party element management application.

The topology graphical display eases the infrastructure component identification process for items such as spanning tree instances, link aggregation, VLAN associations and ports statuses. The map can be organized into a set of sub-maps that allow a network to be represented from different groupings or hierarchical levels.
LOCATOR
Locator allows administrators to quickly pinpoint hostile elements in the network and contain them, providing a first line of defense against security hazards. Locator’s right-click menu provides direct interaction with other OmniVista 2500 NMs components such as Quarantine Manager and VLAN Manager -- expediting troubleshooting and problem resolution. It also discovers third-party devices and indicates the nearest Alcatel-Lucent operating system device to which the third-party device can be switched, showing the link on a topology map. In short, Locator provides rapid isolation and one-click mitigation of network issues.

NOTIFICATION MANAGER
OmniVista 2500 NMs includes a very powerful Notification Manager for troubleshooting network-related events. It receives SNMP traps from any SNMP compatible device, including third-party systems for analysis, monitoring and remediation. A set of tools is provided to help network administrators focus on fault analysis.

Notification Manager includes a configuration tool based on in-depth filtering to trigger responders, such as e-mail notification or other notifications, based on predefined, specific alarm conditions. This information may be archived, exported or searched to further root cause analysis.

The trap forwarding feature allows OmniVista 2500 NMs to filter SNMP traps and pass them on to third-party applications capable of managing events. It helps organizations to increase network availability and meet their SLAs.

COMMAND LINE INTERFACE
SCRIPTING AUTOMATION
Clean and simple command line interface (CLI) scripting allows network managers to consolidate a wide range of configuration information within a single set of commands. These scripts are copied and distributed easily from one switch to another since they are standardized across all devices with Alcatel-Lucent operating systems.

Network administrators set up context-based CLI commands and define variables to be used in commands. The repetitive tasks are automated and scheduled with CLI scripting --saving IT managers’ time, reducing costs and eliminating human errors. CLI scripting provides a very efficient way to roll out network deployment using configuration templates with minimal administrator intervention.
RESOURCE MANAGER

The Resource Manager provides control over device software and tracking switch configuration changes. Configuration backups may be performed manually, or scheduled to run automatically, with maximum granularity and flexibility to reduce repetitive operations. Bulk software image management is required to standardize device software version across the network and define baseline. Resource Manager reduces all risks of human errors and associated remediation costs. Resource Manager is a critical component of the infrastructure availability by reducing Mean Time to Repair (MTTR).

VIRTUAL MACHINE MANAGER

With new challenges in data center operations such as virtualization deployment, network managers are facing a paradigm shift. Alcatel-Lucent OmniVista 2500 Virtual Machine Manager reduces operation issues on how to manage virtual network elements in conjunction with the physical network infrastructure.

The OmniVista 2500 Virtual Machine Manager — an optional, additional component for OmniVista 2500 NMS — provides integration with leading data center virtualization hypervisor platforms such as VMware vCenter and Citrix XenServer to provide effective visibility and monitoring for all network operations related to the Virtual Machine life cycle. It constantly monitors, logs and reacts to virtualization events by keeping track of virtual machine location in relations to the physical network.

OmniVista 2500 Virtual Machine Manager automates network provisioning for virtual machine movements by establishing definition for critical parameters settings such as VLANs, QoS and security settings, and distributing the binding rules between the virtual infrastructure and the data center fabric. The Virtual Machine Manager eliminates configuration conflicts between virtual and physical networks, thus increasing the efficiency of day-to-day IT operations.
QUARANTINE MANAGER

The Quarantine Manager combines intrusion detection notification and containment management in one component, enforcing a secure perimeter. It defends against attacks through external Intrusion Detection Systems/Intrusion Prevention Systems (IDS/IPS) notification, and through the device-embedded Alcatel-Lucent Traffic Anomaly Detection (TAD) capability, which reports network behavior based on security risk analysis.

The Quarantine Manager provides a comprehensive approach, simplifying network-wide configuration and threat reporting for traffic anomaly detection. It offers flexible threat mitigation responses plus several methods of containment, including quarantine VLAN, port shutdowns, blacklisting for wireless infrastructure, or a containment method based on access control lists. In summary, the Quarantine Manager combines network behavior and threat intrusion detection into a single workflow, with broad options for wired and wireless incident mitigation and extensive incident reporting.

ACCESS GUARDIAN

The OmniVista 2500 NMS component called Access Guardian provides complete end-to-end support for authentication, host integrity check and role-based access according to user access profile rules. Access Guardian provides centralized visibility and granular control of enterprise network resources. It dynamically provisions network security using a role-based access approach, based on user, device, location and protocol.

Access Guardian provides network administrators with the ability to centrally define policy-based network access rights that allow the network administrators to automatically adapt the needs of users and devices as they connect, thereby enforcing network security while providing appropriate access to network users and devices.

Access Guardian simplifies the complete security posture, including global authentication services and network-wide end-user compliance for host integrity servers, thus providing consistent and effective network security. The Access Guardian approach simplifies the definition and enforcement of end-user security processes by addressing network security and network management as a single workflow through a powerful graphical user interface (GUI) for configuration and reporting.
POLICYVIEW FOR QOS & ACL

PolicyView simplifies the complex task of configuring quality of service (QoS) for voice and data applications, and enables enhanced policy-based management across multiple devices with OneTouch simplicity. Parameters are set once and distributed to relevant devices, reducing the number of interfaces required to configure QoS for VoIP and time-critical data operations.

This component simplifies and automates the complex task of configuring network security policies using ACLs. Once a policy is defined, an administrator applies it to all devices at once. This increases IT department productivity by eliminating repetitive tasks, prevents security breaches and strengthens network access policies. PolicyView also helps conserve bandwidth that is allotted elsewhere within the network.

WEB SERVICES

Web Services provides a flexible, versatile, northbound interface for collaboration and integration with diverse network management applications. It simplifies the introduction of Alcatel-Lucent Enterprise IP solutions into large, complex environments – making it essentially a plug-and-play exercise. It reduces the cost, time and risk associated with Operations Support Systems/Business Support Systems (OSS/BSS) and process automation. It also allows the Alcatel-Lucent OmniVista 2500 NMS and its data structure to be scriptable and accessible to open environments.
<table>
<thead>
<tr>
<th>Infrastructure deployment &amp; centralization of operations</th>
<th>ALCATEL-LUCENT OS10K &amp; OS6900 SERIES</th>
<th>ALCATEL-LUCENT OS6850, OS6850E, OS6855, OS6400, OS9000E SERIES</th>
<th>ALCATEL-LUCENT OS6250, OS6450 SERIES</th>
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<td>EMS launch tool web-based device mgr or third party app launch</td>
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<td>Performance monitoring &amp; troubleshooting</td>
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<td>Performance &amp; statistics measurements</td>
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<td>Configuration operations &amp; Firmware management</td>
<td>Configuration automation with CLI scripting</td>
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<td>Policy management for network administrator &amp; device access credentials</td>
<td>SecureView Switch Access</td>
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<td>Virtual machines inventory &amp; network provisioning automation for VM moves</td>
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<td>Intrusion notification &amp; containment management</td>
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<tr>
<td>Northbound interface/Web Services support for application collaboration</td>
<td>Web Services</td>
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</tbody>
</table>

1- Includes support for Multi Chassis Link aggregation topology
2- Only supported on OS6900 series; Required AOS support for uNP (Universal Port Profiles)
3- ISSU (In Service Software Upgrade) supported on OS10K & OS9000E series
4- Port Shut Down supported only on third-party devices
### OPERATING SYSTEM AND PLATFORM REQUIREMENTS

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>DESCRIPTION</th>
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</table>
| Minimum OmniVista 2500 VMM software requirements (Server & Client) | - Microsoft® Windows® Server 2008 (64 bits version)  
- Microsoft® Windows® 7 Enterprise (32 & 64 bits version)  
- Red Hat® Enterprise Server 6.2 (32 & 64 bits version)  
- SUSE® Linux Enterprise Server 11.2 (64 bits version) |
| Minimum OmniVista 2500 NMS & VMM Server configuration | - For Microsoft® Windows®, Red Hat® ES, SUSE® configuration  
- Intel® Pentium® Quad Core 2 GHz minimum  
- 4 GB RAM minimum |
| Minimum OmniVista 2500 NMS & VMM client system configuration | - For Microsoft® Windows®, Red Hat® ES, SUSE® configuration  
- Intel® Pentium® Dual Core 2 GHz minimum  
- 2 GB RAM minimum |
| Minimum virtualization requirements for OmniVista 2500 NMS server installation | - VMware ESXi 4.1 minimum (64 bits installation)  
- VMware bare metal installation for Microsoft Windows Server 2008 (32 & 64 bits) & Red Hat Linux ES (32 bits & 64 bits) virtual images |
| Minimum hypervisors requirements for OmniVista 2500 VMM | Citrix® XenServer™ Advanced and Enterprise release 6.0 minimum  
- VMware® vCenter™ server 4.1 standard release with VMware ESXi 4.1  
- VMware® vCenter™ server 5.0 standard release with VMware ESXi 5.0 |
Ordering Information

OmniVista 2500 Network Management Solution is based on OmniVista 2500 NMS, the core solution, and OmniVista 2500 VMM, an optional, additional module focusing on data center and virtualization management, operating in concert with OV2500 NMS. At a minimum, OmniVista 2500 VMM configuration requires the OmniVista 2500 NMS Starter Pack to operate. OmniVista 2500 VMM requires as a minimum release 3.5.4 to operate.

**ALCATEL-LUCENT OMNIVISTA 2500 NMS**

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<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>OV25START-R35-N</td>
<td>OmniVista 2500 NMS Starter Pack License – New installation includes activation license for all OmniVista 2500 NMS application components. Starter Pack license includes support for up to 10 IP management addresses/managed devices.</td>
</tr>
<tr>
<td>OV25EXT10-NEW</td>
<td>OmniVista 2500 NMS Extension License for 10 supplemental IP management addresses/managed devices – New installation. Extension license requires OmniVista 2500 Starter Pack activation. Extension licenses can be combined (model &amp; quantity) to provide specific IP management address number.</td>
</tr>
<tr>
<td>OV25EXT20-NEW</td>
<td>OmniVista 2500 NMS Extension License for 20 supplemental IP management addresses/managed devices – New installation.</td>
</tr>
<tr>
<td>OV25EXT50-NEW</td>
<td>OmniVista 2500 NMS Extension License for 50 supplemental IP management addresses/managed devices – New installation.</td>
</tr>
<tr>
<td>OV25EXT100-NEW</td>
<td>OmniVista 2500 NMS Extension License for 100 supplemental IP management addresses/managed devices – New installation.</td>
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<tr>
<td>OV25EXT500-NEW</td>
<td>OmniVista 2500 NMS Extension License for 500 supplemental IP management addresses/managed devices – New installation.</td>
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<tr>
<td>OV25EXT1000-NEW</td>
<td>OmniVista 2500 NMS Extension License for 1000 supplemental IP management addresses/managed devices – New installation.</td>
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ALCATEL-LUCENT OMNIVISTA 2500 VMM

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<th>PART NUMBER</th>
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<tr>
<td>OV2500-VMM-S</td>
<td>License for OmniVista 2500 VMM. License for Small deployment up to 200 virtual machines for inventory, monitoring support and network provisioning. Supports a single instance of VMware vCenter release 4.1 or higher. Support. Citrix XenServer release 6.0 or higher. Requires OmniVista 2500 NMS release 3.5.4 to operate.</td>
</tr>
<tr>
<td>OV2500-VMM-M</td>
<td>License for OmniVista 2500 VMM. License for Medium deployment up to 1000 virtual machines for inventory, monitoring support and network provisioning. Supports a single instance of VMware vCenter release 4.1 or higher. Support. Citrix XenServer release 6.0 or higher. Requires OmniVista 2500 NMS release 3.5.4 to operate.</td>
</tr>
<tr>
<td>OV2500-VMM-L</td>
<td>License for OmniVista 2500 VMM. License for Large deployment up to 5000 virtual machines for inventory, monitoring support and network provisioning. Supports a single instance of VMware vCenter release 4.1 or higher. Support. Citrix XenServer release 6.0 or higher. Requires OmniVista 2500 NMS release 3.5.4 to operate.</td>
</tr>
<tr>
<td>OV2500-VMM-MI</td>
<td>License for OmniVista 2500 VMM. License for Multiple instances deployment up to combined total of 5000 virtual machines for inventory, monitoring support and network provisioning. Supports dual instance of VMware vCenter release 4.1 or higher. Support dual instance of Citrix XenServer release 6.0 or higher. No simultaneous hypervisor platform supported at once. Requires OmniVista 2500 NMS release 3.5.4 to operate.</td>
</tr>
</tbody>
</table>

Alcatel-Lucent provides service access and continuous update maintenance support programs for the OmniVista 2500 Network Management System. Evaluation licenses as well as upgrade part numbers are available.

Contact your Alcatel-Lucent representative for further details.

http://enterprise.alcatel-lucent.com/