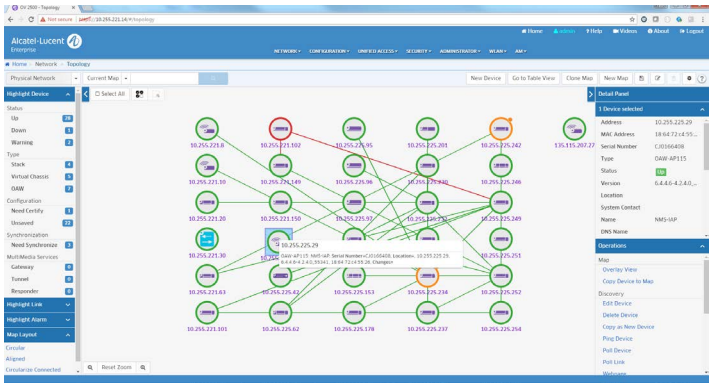
ALE | Where Everything Connects

Alcatel-Lucent OmniVista 2500 NMS C for Network on Demand Service Multi-tenant Network Management



Alcatel-Lucent Network on Demand (NoD) is a service that enables authorized partners to deploy, operate and maintain field proven Alcatel-Lucent LAN/Wi-Fi/core infrastructure including management under a monthly pricing model. NoD subscriptions provide flexibility in duration and network infrastructure size.

Alcatel-Lucent Universal NoD service delivers a choice of LAN core, LAN access and Wi-Fi access infrastructure, offering technology flexibility to best match customer network infrastructure requirements.

OmniVista 2500 NMS C

The Alcatel-Lucent OmniVista® 2500 NMS C provides Alcatel-Lucent Enterprise Business Partners a single user interface to monitor and manage multiple subscribed networks. The solution consists of a «Master» at the business partner's premises (OmniVista Master - OVM). This system is available to business partners authorized to sell Network On Demand services. The system is provided as a virtual appliance, to be deployed on the business partners' own servers. The following figure depicts the requirements to deploy OmniVista 2500 NMS C for the available NoD subscription services.

Subscription Service

Offer	Universal NoD	Flex NoD
OmniVista Master	Mandatory	Mandatory in case of OmniVista clients
OmniVista Client	Mandatory**	Optional*

*OmniVista Client is required to enable OmniAccess Stellar Wi-Fi network, guest access and BYOD management.

** Guest access and BYOD management are not supported in Universal NoD.

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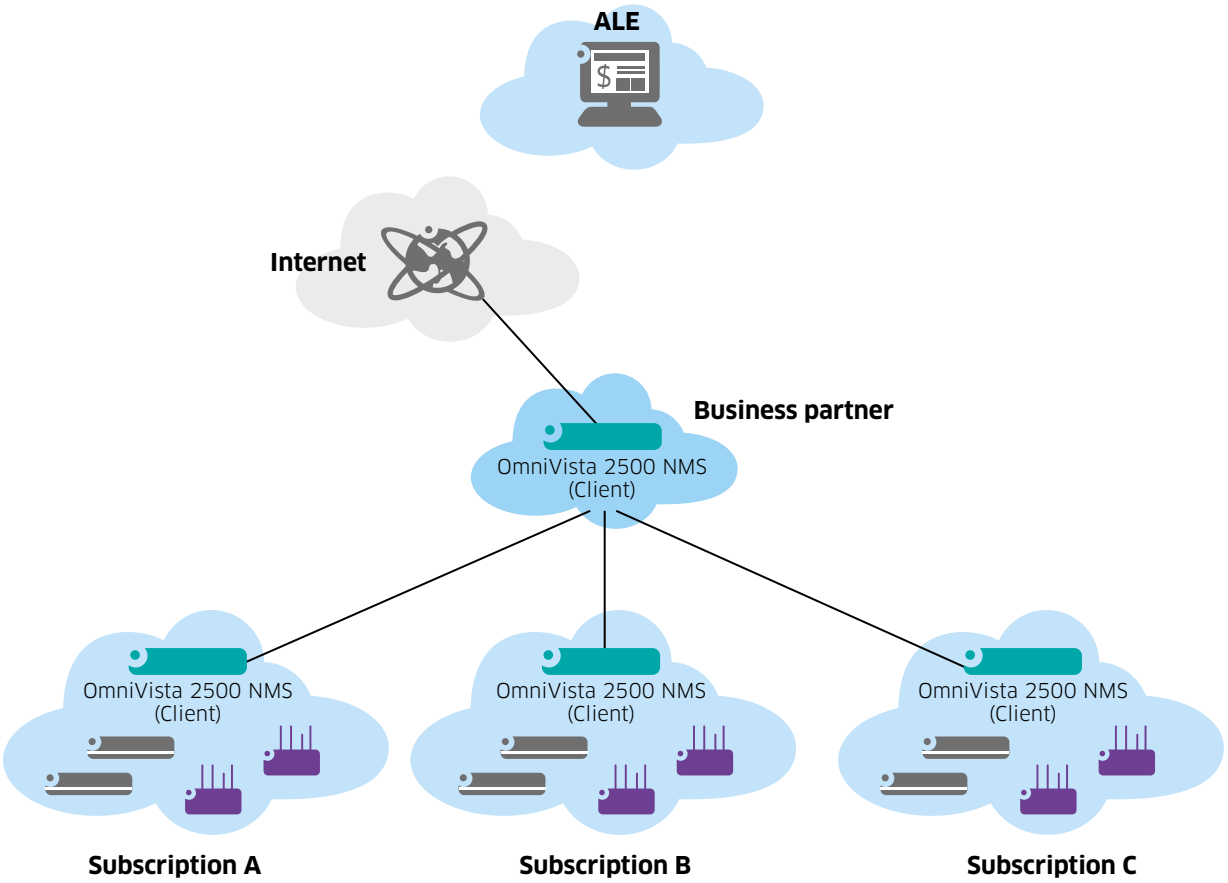
The OmniVista 2500 Master works in conjunction with an OmniVista 2500 NMS C (virtual) appliance (OmniVista Client - OVC). The OVC appliance is deployed at the customer premises and interacts with the customer's subscribed network such as switches and wireless APs. By choice, the customer can opt to purchase licenses to manage equipment beyond the subscribed devices. In addition, the customer can opt to purchase licenses to manage and enforce guest access and BYOD. The OVM interacts with the OVC at the customer site to monitor and manage the customer's network.

OmniVista 2500 Master is also connected to the Alcatel-Lucent Enterprise Business Store. Accounting information gathered from Universal Network on Demand subscribed networks is forwarded to the Business Store.

A high-level overview of the system is shown below.

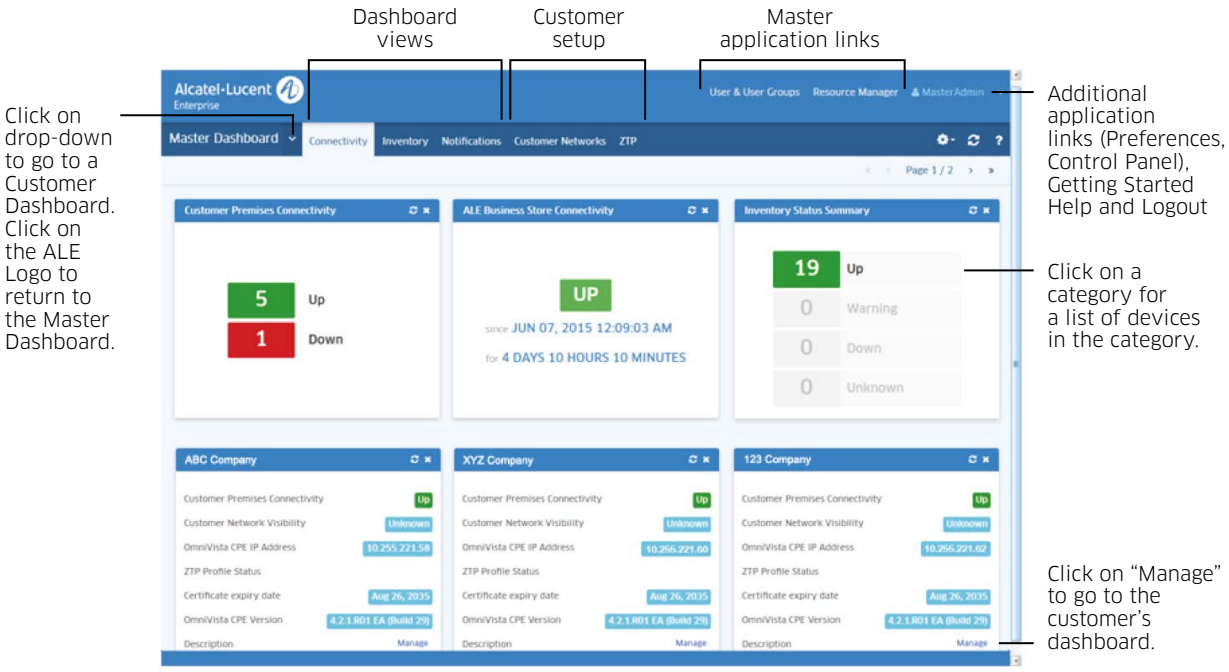


The following sections below provide a high level overview of the OmniVista 2500 NMS Cloud User Interface (UI) functionality.

Master Dashboard overview

The Master Dashboard, which is displayed on the OmniVista Master (OVM), enables you to monitor and manage multiple customer networks from a single user interface. The Master Dashboard provides different views that enables a quick overview of a customer networks.

Master dashboard



Connectivity view

The Connectivity View is the default view. In this view, widgets display the connectivity status of customer networks and the ALE Business Store, as well connectivity and basic information for each customer network. The «Customer Premises Connectivity» widget displays the connectivity status to all customers (the OVC on the customer premises).
In the example above, the OVM is connected to five of six customer sites.

Notification view

In the Notification view, widgets display an overview of notifications received from customer networks (number and type of notification). The «Notifications Summary» widget displays an overview of all notifications from all customers. Notification information for each customer is displayed in each customer widget.

Customer networks

The Customer Networks Administration Screen displays a list of all customers known to the OVM and is used to add, edit, remove customers to/from the OVM, and to create a Zero Touch Provisioning (ZTP) profile for the customer network. A ZTP profile is a Zip file that contains all of configuration files needed to configure the OVC at the customer site Once installed on the OVC, the ZTP profile automatically configures the OVC and establishes a connection to the OVM

Prerequisites for deployment

- The server hosting the OVM should have the following minimum configuration:
  2-4 GHz 8-12 core CPU, 64 GB memory, 500 GB disc space, and a USB drive.
  The server must also have two NICs.
- VMware - A firewall at a central business partner site must allow traffic on port 443 to enable communication between OVM and the ALE Business Store, as well as OVM and its OVCs.
- There should be a high-bandwidth connection between the OVM and OVCs. A minimum bandwidth of 10 Mbps is recommended.
- OVM can be accessed with the following browsers: IE 10+, Chrome 26+, Firefox 26+.

System scalability

- 200,000 ports per OmniVista Master instance

Examples of scalability

- 410 subscriptions with 300 ports
- 65 subscriptions with 3000 ports

Service and support

During a service subscription business partners accredited for the Alcatel-Lucent Universal Network On Demand Service will have access to 24/7 support through the Technical Assistance Center for all hardware and software issues. Support services include bug fixes, software upgrades, and advanced hardware replacement. Customer service and support to Business Partners' customers is depending on individual agreed contracts and service levels.

Addendum, feature list OmniVista 2500 C Client:

Group	Application	
Network	Discovery	Y
	Topology	Y
	AP Registration	Y
	SAA	Y
	Locator	Y
	Notifications	Y
	VM Manager	N
	Analytics	Y
	Application visibility	Y
	PortView	Y
Configuration	VLAN	Y
	Vxlan	Y
	IP Multicast	Y
	CLI Scripting	Y
	Policy View	Y
	SIP	Y
	Captive portal	Y
	Groups	Y
	App launch	Y
	Report	Y
	Resource manager	Y
Unified Access	Unified profile	Y
	Unified policy	Y
	Multimedia services	Y
	Premium services	Y
Security	Users & user groups	Y
	Authentication servers	Y
	Quarantine Manager	Y
Administrator	Control panel	Y
	Preferences	Y
	Audit	Y
	License	Y

Group	Application	
WLAN	WLAN service	Y
	WIPS	Y
	RF	Y
	Heat map	Y
	Floor plan	Y
	Client	Y
UPAM	Summary	Y
	Authentication	Y
	Guest access	Y
	BYOD Access	Y
	Settings	Y

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