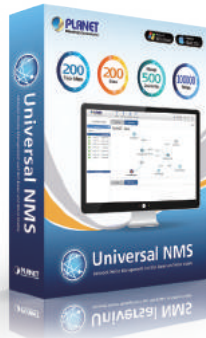


# Universal Network Management System Software



## Universal Network Management System for Central Management

PLANET's Universal Network Management System (UNI-NMS) incorporated in a workstation or PC can monitor all the deployed wired or wireless PoE industrial-grade network devices, such as managed switches, media converters, routers, smart APs, VoIP phones, IP cameras, etc. compliant with the **SNMP Protocol**, **ONVIF Protocol** and **PLANET Smart Discovery utility**. It thus enables the administrator to centrally manage the network from a central office, greatly boosting network and power management efficiency. With its user authentication management, UNI-NMS enhances data transmission security in the modern factory automation systems.



*Let Network Device Management Make Operations Easier*

## Watch Over Network within Minutes

The domain information web page presents a managed devices list and topology view, providing the at-a-glance and efficient summary of your management network. It lets you have a valuable information on the current wired and wireless network statuses via data-driven graphical charts. The topology viewer and event reports enable you to visualize the system usage and node status in real time so as to address whatever issue they may have.



## Product Features

- **Node Discovery:** To discover PLANET managed devices available and allow AP grouping to accelerate AP management.
- **Site Creation:** Easy to create new network sites.
- **Topology Viewer:** A topology of network devices compliant with SNMP, ONVIF, Smart Discovery and LLTD Protocol.
- **Event Reports:** The status of a network can be reported via network alarm, system log, and SNMP trap.
- **Batch Provisioning:** Enabling multiple APs to be configured and upgraded at one time by using the designated profile.
- **Coverage Heat Map:** Real-time signal coverage of APs on the user-defined floor map to optimize Wi-Fi field deployment.
- **Maximum Scalability:** Up to 200 sites, 200 floor maps, 500 nodes per site, 32 AP groups, 32 SSID profiles, 256 managed APs and 5,000 clients.

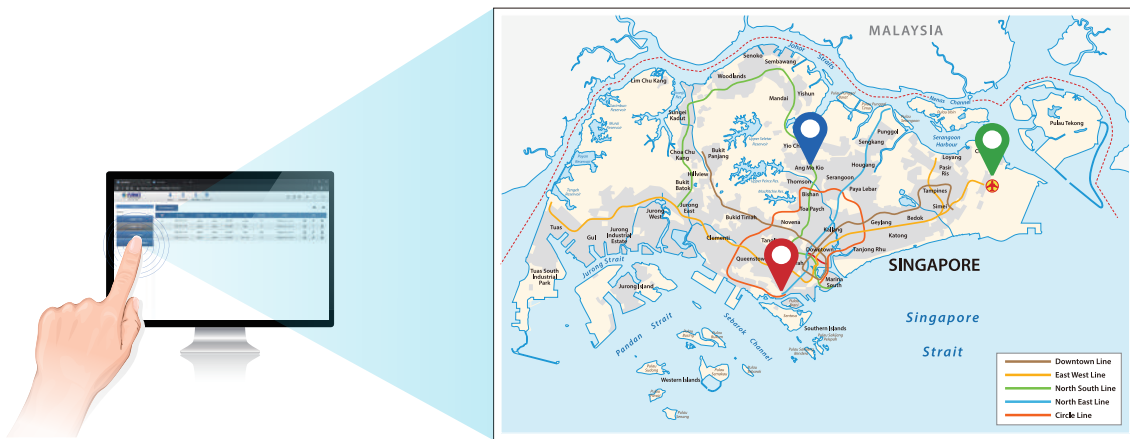
*Three Steps to Manage Nodes with Ease*

The UNI-NMS enhances user experience by providing more user-friendly Web GUI (Chrome only\*) and obvious step-by-step guidance on each related function. Unlike other third-party software, it reduces training time and allows even non-technical users to be able to set up wireless network within minutes.



*Real-time Centralized Monitoring*

As the UNI-NMS can come out with a topology view of the network of the deployed powered devices, it enables to detect which device is online (green) or offline (red). The real-time centralized monitoring of these devices can help the administrator to know what the current statuses of these devices. As shown below, it comes with the mapping function that enables to detect the location of each network site.



*Optimizing Wi-Fi Deployment with Floor Maps*

With the floor maps, APs can be located according to the field deployment, thus saving your time and cost of on-site support and monitoring. The current statuses of APs are shown in real time and the heat map is able to show the wireless signal coverage and strength to help the administrator fine-tune the overlapping of the adjacent APs anytime to optimize the wireless network performance.



*Browser-based Control on VM Eliminates Limitation of OS*

Designed to provide more flexibility, the UNI-NMS utilizes the Oracle virtual box technology to enable to import software image under different OS platforms, capable of operating from anywhere via web browser and network adapter that are able to access managed nodes on a DHCP-enabled network, thus controlling multiple devices through single PC, laptop or tablet which eliminates the hardware limitation of general hardware controllers. For better performance and more scalability, users just need to upgrade the personal equipment without replacing the original hardware controller. PLANET UNI-NMS is a value-added software which makes your network central management solution more efficient without any hardware installation and extra expensive budget.

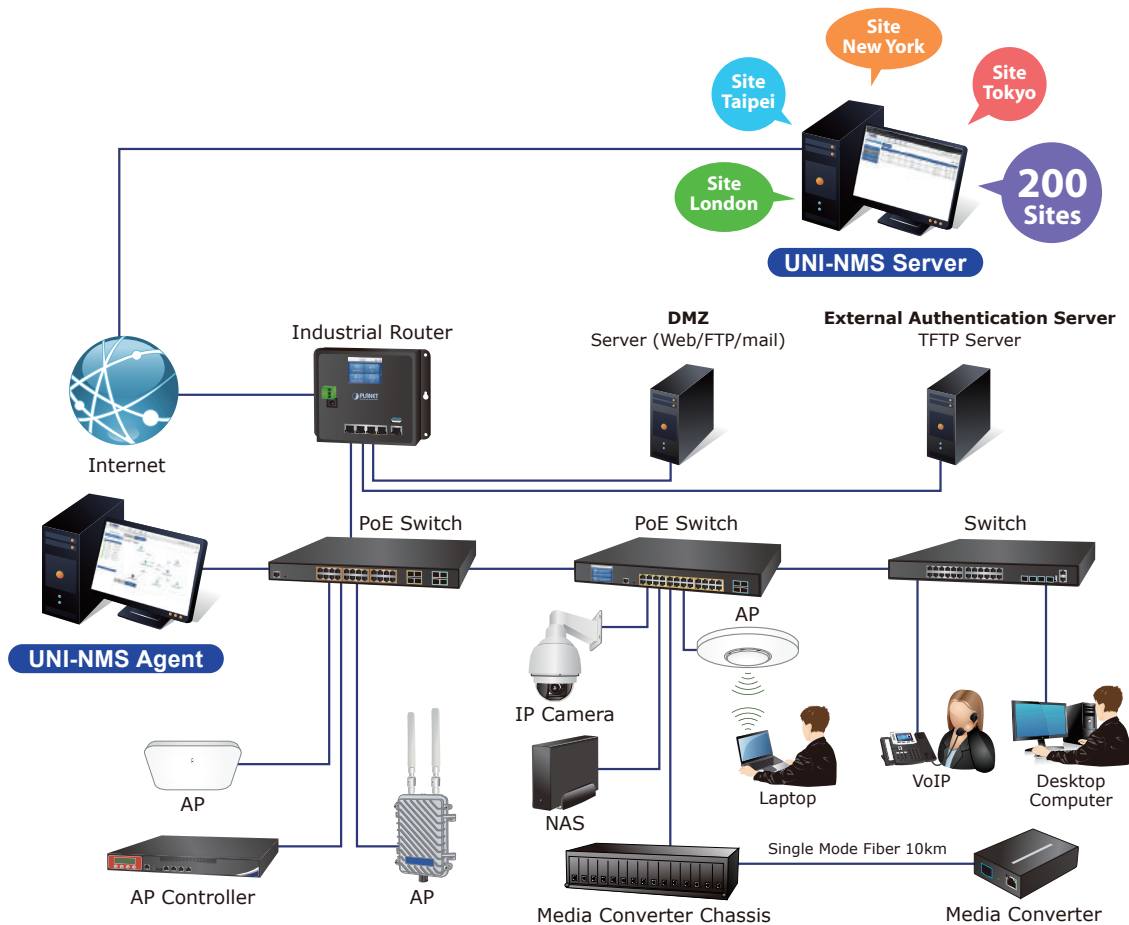
\* Using Chrome browser is recommended.

## Applications

*Economical Central Network Management Solution for SMBs*

PLANET UNI-NMS helps service providers and IT managers control all PLANET network devices at the same time and enables administrators to effectively manage up to 100,000 managed nodes and 200 managed sites simultaneously without purchasing any license, hardware controller and expensive annual subscription fee.

The administrator can automatically discover and configure device profiles, batch provisioning/firmware upgrade, and built-in SAPC (Smart AP Control) that customize Wi-Fi planning against floor maps, and monitor all managed APs through single web-based interface. It allows operating across different platforms through virtualization software. Such design avoids the need to configure the wireless APs one by one and provides more profit to SMB users.



## Specifications

Product	UNI-NMS
<b>Management Features (of PLANET managed devices)</b>	
Maximum Managed Nodes	100,000
Maximum Managed Sites	200
Maximum Managed Devices/site	500
Maximum AP Groups	32
Maximum APs per AP Group	256 (limited to the same model)
Maximum SSID Profiles	32
Maximum Radio Profiles	32
Maximum Concurrent Clients	5,000
Maximum Floor Maps	10
Compatible Devices	Support SNMP, ONVIF and Smart Discovery Products
Centralized Network Devices Management	<ul style="list-style-type: none"> <li>■ Auto discovery of devices by one touch via SNMP, ONVIF and PLANET Smart Discovery</li> <li>■ Device list with filter function</li> <li>■ Remotely control each managed device via hyperlink</li> <li>■ Easy to build multiple sites in a network</li> <li>■ Topology view of each site of network devices with LLDP Protocol (*2)</li> <li>■ Event report on site issues via system log and syslog</li> <li>■ Device alive checking by SNMP protocol</li> <li>■ AP controller (SAPC Software function)</li> <li>■ Floor map view (*1)</li> <li>■ Dashboard view</li> </ul>
<b>Wireless AP Controller Features</b>	
Centralized AP Management	<ul style="list-style-type: none"> <li>■ AP group management (bulk provision, upgrade, reboot, LED control)</li> <li>■ AP provisioning</li> <li>■ AP SSID, radio configuration</li> <li>■ AP bulk firmware upgrade</li> <li>■ Remote AP power reboot</li> <li>■ Floor map view</li> <li>■ Floor map import, custom map export*</li> <li>■ Real-time AP signal coverage display</li> <li>■ Real-time AP and wireless client status monitoring</li> <li>■ Real-time graphical statistics view</li> <li>■ Real-time wireless channel distribution</li> </ul>
Encryption Type	64/128-bit WEP, WPA, WPA-PSK, WPA2, WPA2-PSK, 802.1x Authentication
Wireless Security	Enable/Disable SSID Broadcast AP Isolation
Multiple SSIDs per Frequency Band	Up to 5
RF Control	Output power Auto channel Traffic shaping per frequency band IAPP L2 roaming
<b>System Management Features</b>	
Management Interface	Web-based user interface
System Management	Management IP/port Login account modification System upgrade
Supported Display Type	Switch, Industrial switch, Media Conversion, VDSL, Wireless (AP), VoIP, IP Camera, IP Power, PON, NAS, HDVR/NVR, Unknown
<b>System Requirements</b>	
Minimum Hardware Requirements	CPU: Intel Core i5 3.4 GHz dual-core or above RAM: minimum 4 GB HDD: 40 GB (actual requirement is dependent on log size)
OS Supported	Microsoft Windows 7/8/8.1/10 Mac OS X 10.8/10.9/10.10/10.11 (*1) Note: supported OS is dependent on virtualization product
Virtualization	Oracle VirtualBox 5.0 or later
Browser Supported	Chrome 31.0 or later Firefox 34.0 or later

Remarks: \*1 New features will be added through system updates.  
\*2 Topology ring display, VM support VMware, SMTP alarm.

## Ordering Information

UNI-NMS

PLANET Universal Network Management System

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**UNI-NMS**