



PLANET NMS-500
UNC-NMS Network
Management
Controller
Technology



PLANET NMS-500 UNC-NMS Network Management Controller Technology User Guide

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PLANET NMS-500 UNC-NMS Network Management Controller Technology



Product Information

Specifications

- Network Management System: UNC-NMS
- Main Features:
 - Dashboard Site Management Device List
 - Statistic
 - Topology Viewer Event Reports Alarm System Switch Virtual Panel Batch Provisioning
 - Coverage Heat Map
 - Customized Profile
 - Auto Provisioning
 - Cluster Management
 - Zone Plan
 - Authentication
 - User Control
 - Scalability
- Maximum Scalability: 100 sites, 100 site maps, 102,400 nodes
- Network Management Characteristics:
 - Built-in DHCP Server
 - Built-in RADIUS Server
 - SSL secure access
 - Certification Authentication
 - Web-based GUI management interface
 - SNMP v1, v2c, and v3 management
 - Supports PLANET DDNS/Easy DDNS
- Industrial-grade Physical Hardware:
 - 6 x 10/100/1000BASE-T Gigabit Ethernet RJ45 ports (LAN 5 and LAN 6 are bypass ports)
 - 1 x LCM for basic system setting
 - 2 x LEDs (Power and HDD)
 - 2 x USB 3.0 ports for configuration backup and restoration
 - 1 x RJ45 Console port interface
 - 1 x Reset button
 - 1 x 3-pin AC Power input socket for 100~240V
 - 1U Rack-mount

Product Usage Instructions

Remote Logging in NMS

To log in the NMS:

1. Open Chrome/Firefox and go to the default IP: <https://192.168.1.100:8888>
2. Please ensure to use Chrome/Firefox for full support (UI Resolution 1280 x 1024)

Account Modification

To modify the account:

1. Enter a new account (except using 'admin')
2. The new password must include at least one lowercase letter, one uppercase letter, one digit, and one special character (~, !, @, etc.) without a question mark and must be at least 8 characters long.

IP Configuration Setting

To configure IP settings:

1. Select Static IP or DHCP Client for IP configuration setting.
2. The IP status is displayed in real-time.

If you intend to use the SMTP Alarm function, you must enter at least one DNS server.

How to Add a New Site?

To add a new site:

1. Press the 'Site' button and go to the site Summary/Map page (Default is Summary page).
2. Click the '+' button to open the 'Add New Site' page.

Frequently Asked Questions (FAQ)

Overview

Main Features:

Dashboard	Providing the at-a-glance view of center system, site summary, site Map, traffic, PoE network status
Site Management	To create site list, site map for NMS agent management
Device List	To management all site devices or filter one site devices list for NMS agent function operation
Statistic	To show Top 10 Event Report, History Comparison function, Critical Events for devices
Topology Viewer	A topology of network devices compliant with MQTT, SNMP, ONVIF, Smart Discovery and LLTD Protocol with Map or not
Event Reports	The status of a network can be reported via network alarm, system log
Alarm System	Email alerts for the administrator via the SMTP server
Switch Virtual Panel	To directly configure the switch for basic function
Batch Provisioning	Enabling multiple APs to be configured and upgraded at one time by using the designated profile for each site
Coverage Heat Map	Real-time signal coverage of APs on the user-defined floor map to optimize Wi-Fi field deployment
Customized Profile	Allowing the creation and maintenance of multiple wireless profiles
Auto Provisioning	Multi-AP provisioning with one click
Cluster Management	Simplifying high-density AP management
Zone Plan	Optimizing AP deployment with actual signal coverage
Authentication	Built-in RADIUS server seamlessly integrated into the enterprise network
User Control	Allowing on-demand account creation and user-defined access policy
Scalability	Free system upgrade and AP firmware bulk upgrade capability
Maximum Scalability	100 sites, 100 site maps, 102,400 nodes

Network Management Characteristics

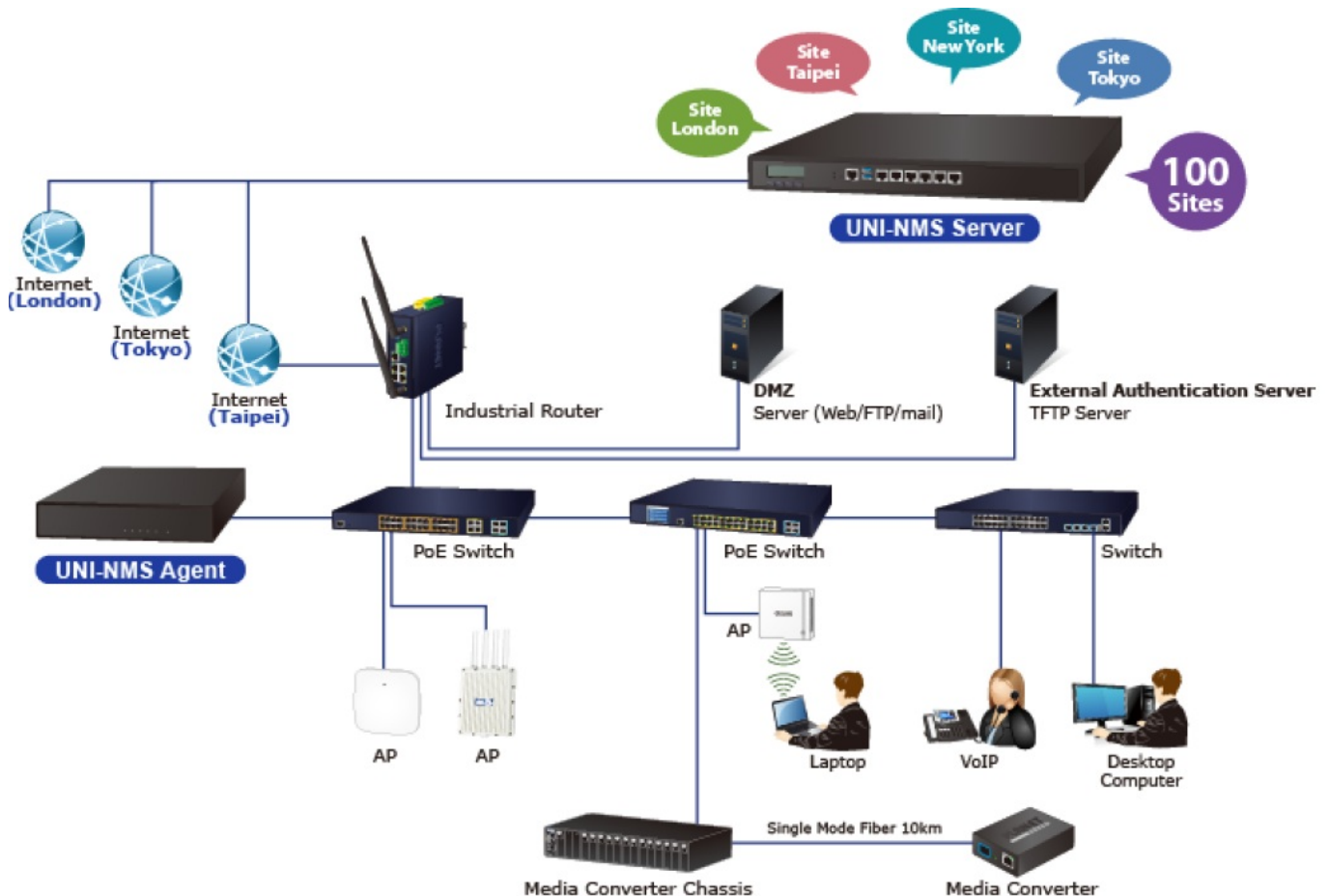
- Built-in DHCP Server
- Built-in RADIUS Server
- SSL secure access
- Certification Authentication
- Web-based GUI management interface
- SNMP v1, v2c, and v3 management
- Supports PLANET DDNS/Easy DDNS

Industrial-grade Physical Hardware

- 6 x 10/100/1000BASE-T Gigabit Ethernet RJ45 ports (LAN 5 and LAN 6 are bypass ports)

- 1 x LCM for basic system setting
- 2 x LEDs (Power and HDD)
- 2 x USB 3.0 ports for configuration backup and restoration
- 1 x RJ45 Console port interface
- 1 x Reset button
- 1 x 3-pin AC Power input socket for 100~240V
- 1U Rack-mount

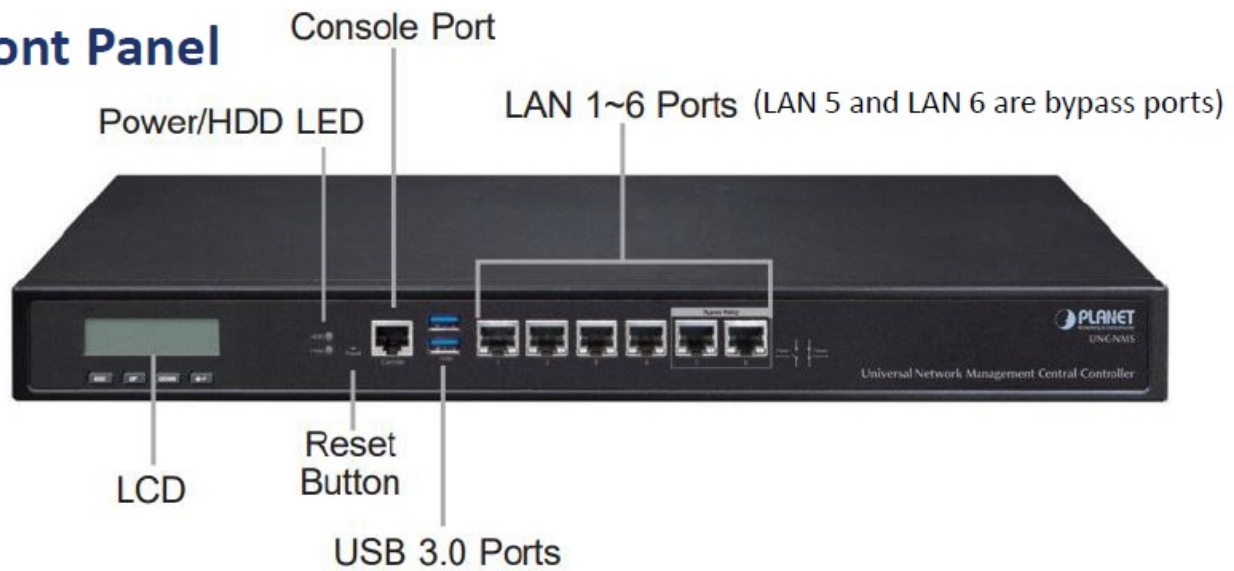
APPLICATIONS



BEFORE FIRST LOGIN

Product Overview

Front Panel

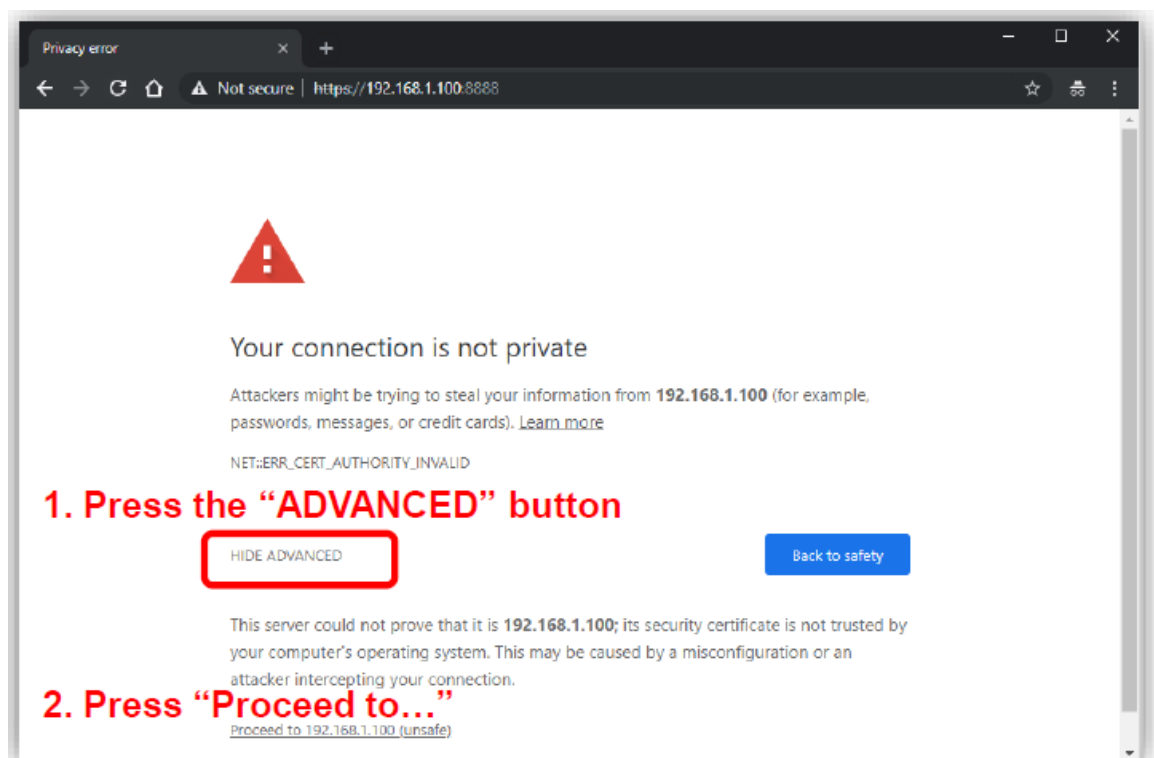


Back Panel



Remote Logging in NMS

- Open Chrome/Firefox to log in the NMS.(Default IP: <https://192.168.1.100:8888>)
- Please use Chrome/Firefox to get fully supported. (UI Resolution 1280 x 1024)



SETUP WIZARD

Account Modification

Steps to modifying account:

1. Please key in a new account, except using "admin"
2. New Password must include at least 1*[a~z], 1*[A~Z], 1*[0~9], 1*[~, !, @, ..., w/o "?"] and must contain at least 8 characters.

Account Modification

	Configuration
User Name	admin123
Password	1qaz!QAZ
Retype Password

*Please key in a new account, except using "admin"
New Password must be included at least 1*[a~z], 1*[A~Z], 1*[0~9], 1*[~, !, @, ..., w/o "?"]

Next

IP Configuration Setting

1. Select "Static IP" or "DHCP Client" for IP configuration setting.
2. IP status is shown in real time.

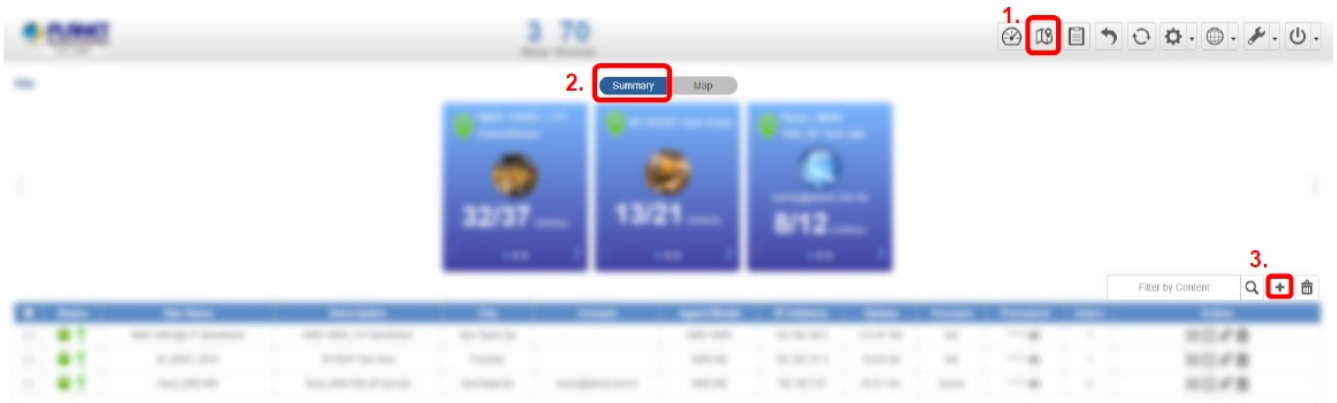
* If you want to use the SMTP Alarm function, you must at least enter one DNS server.

IP Configuration Setting

	Configuration	Status
Mode	Static IP	Static
IP Address	10.1.0.199	10.1.0.199
Subnet Mask	255.255.254.0	255.255.254.0
Default Gateway	10.1.1.254	10.1.1.254
DNS Server 1	10.1.1.2	10.1.1.2
DNS Server 2	10.1.1.3	10.1.1.3

Back Next

How to add a New Site?

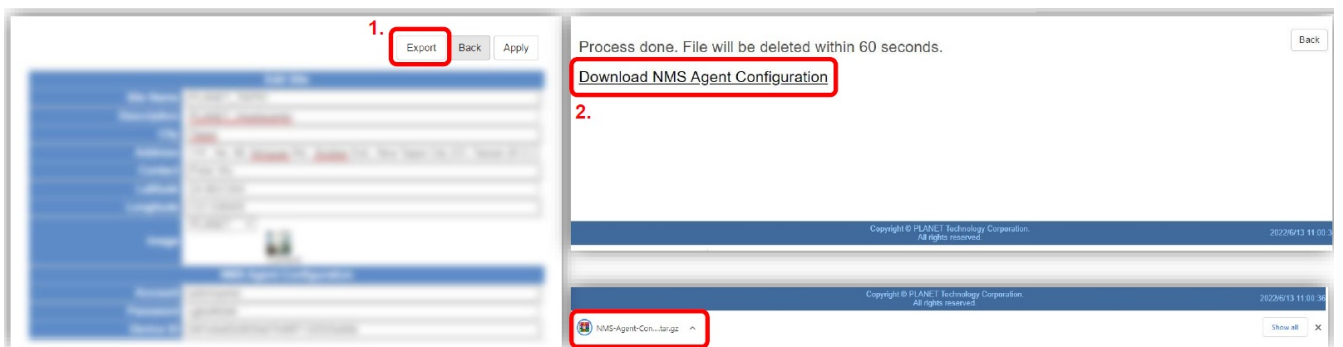


Steps to add a new site:

1. Please press “1. Site” button then go into site “2. Summary”/Map page. (Default is Summary page)
2. Press “3. +” button to open the “Add New Site” page.

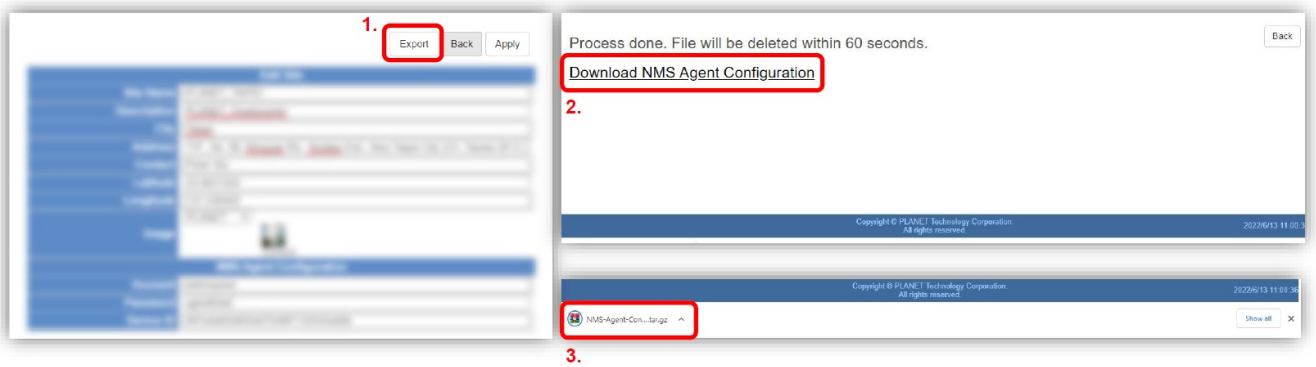
Steps to add a new site: (Fields marked in red are required)

3. Enter the Site info. for “1. Site Name/Description/City” /Address/Latitude/Longitude/Image.
4. Enter the NMS Agent Configuration for “2. Account/Password” then press “3. Re-gen” button to create an Device ID. After enter the required fields, press 4. Apply button.



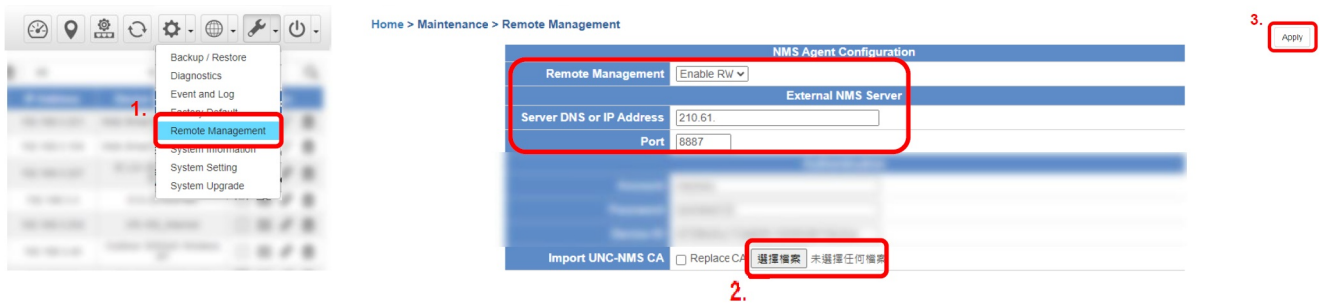
Steps to add a new site:

5. Press the “1. Export” button to create an “NMS-Agent-Conf” file.
6. Click the “2. Download NMS Agent Configuration” link to get the “3. file”.



Steps to add a new site:

5. Press the “1. Export” button to create an “NMS-Agent-Conf” file.
6. Click the “2. Download NMS Agent Configuration” link to get the “3. file”.



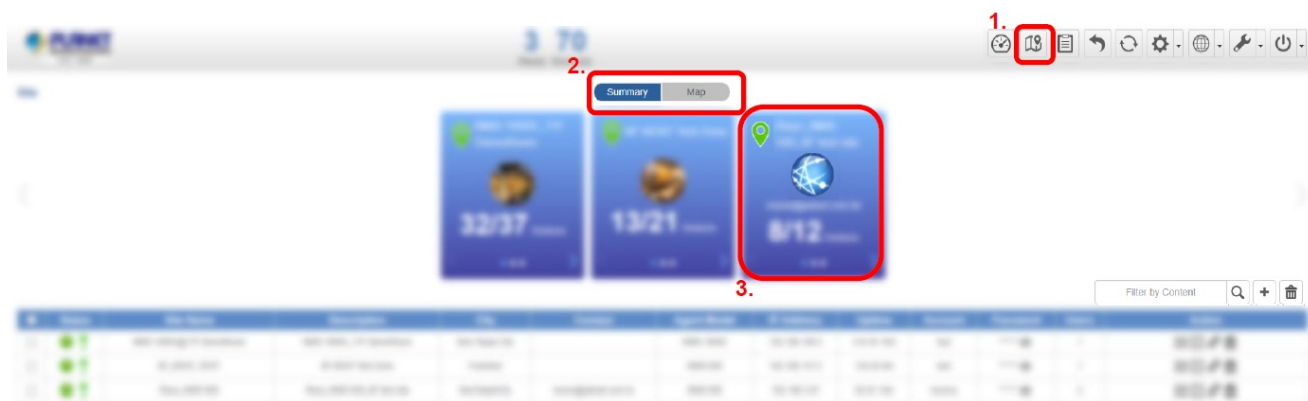
Steps to add a new site:

7. Going to the NMS-500/NMS-1000V web in 1. Remote Management page.
8. 2. Upload the “NMS Agent Configuration file” in the Step 6. and press “3. Apply”. (It will auto-Import authentication info.)
9. Select the “4. Enable RO or Enable RW” for remote management function and enter the Server DNS or IP Address, Port (default is 8887) fields. After above step, press “3. Apply” again.



Steps to add a new site:

7. Going to the NMS-500/NMS-1000V web in 1. Remote Management page.
8. 2. Upload the “NMS Agent Configuration file” in the Step 6. and press “3. Apply”. (It will auto-Import authentication info.)
9. Select the “4. Enable RO or Enable RW” for remote management function and enter the Server DNS or IP Address, Port (default is 8887) fields. After above step, press “3. Apply” again.



Steps to add a new site:

10. Go back to the UNC-NMS web “Site/Summary” page to check the site status is online or off-line

※ In case of issues, please utilize Maintenance/Diagnostics to conduct a ping test between UNC-NMS and NMS-500/NMS-1000V.

Ensure successful package transmission between the systems

APPENDIX







Appendix – MQTT Devices Support List

Please click



Supported Devices

[Switch](#) / [Industrial Switch](#) / [Router](#) / [AP](#)

Photo	Model	Description	Version	Release Date	Download
Switch					
	GS-4210-24T2S	24-Port Layer 2 Managed Gigabit Ethernet Switch W/2 SFP Interfaces	v2.305b201130	2020-11-30	
	GS-4210-16T2S	16-Port Layer 2 Managed Gigabit Ethernet Switch W/2 SFP Interfaces	v2.305b200904	2020-09-04	
	GS-4210-8P2S	8-Port 10/100/1000T 802.3at PoE + 2-Port 100/1000X SFP Managed Switch	v2.305b200904	2020-09-04	

Appendix – Console

- When the “UNC-NMS login” appears, please enter user login account “adminuser”, and password “adminuser”.

```
PuTTY (inactive)

Last login: Tue Dec 12 17:30:21 CST 2023 from 60.250.65.207 on pts/0
1) View IP Status          7) Shutdown
2) Ping                    8) System Information
3) Restart Network         9) USB Status
4) Factory Default        10) Network Interface Status
5) Logout                  11) BIOS Information
6) Reboot

Please enter your choice: 8
Firmware Version:
v1.0b231212
MAC Address:
00:03:2d:4f:49:5c
00:03:2d:4f:49:5d
00:03:2d:4f:49:5e
00:03:2d:4f:49:5f
00:03:2d:4f:49:60
00:03:2d:4f:49:61
=====
      Name      Size      Use%
=====
      CPU              28.4
      DISK    55.4 GiB    28.9
      MEMORY    3.7 GiB    28.8
```

Serial line	Speed
<input type="text" value="COM6"/>	<input type="text" value="115200"/>
Connection type:	
<input type="radio"/> Raw <input type="radio"/> Telnet <input type="radio"/> Rlogin <input type="radio"/> SSH <input checked="" type="radio"/> Serial	

```
Please enter your choice: 9
Detect      Number of USB
=====
False      0
Please enter your choice: 10
Port      Link      Speed
=====
0         Up        1Gbps FDX
1         Down       Down
2         Down       Down
3         Down       Down
4         Down       Down
5         Down       Down

Please enter your choice: 11
BIOS Information
Vendor: American Megatrends Inc.
Version: 5.12
Release Date: 12/06/2019
Please enter your choice: █
```

THANK YOU

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Documents / Resources



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e
NMS-500, NMS-1000V, NMS-500 UNC-NMS Network Management Controller Technology, NMS-500, UNC-NMS Network Management Controller Technology, Network Management Controller Technology, Management Controller Technology, Controller Technology, Technology

References

- [PLANET CloudViewer](#)
- [Wireless AP Controller - PLANET Technology](#)
- [User Manual](#)

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