

Quick User Guide

NMS-500



Setup Wizard

Node Discovery

Topology View

Event Report

Floor Map

E-mail

RADIUS

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Overview

➤ Main Features:

- ◆ **Dashboard:** Providing the at-a-glance view of system and wireless network status
- ◆ **Node Discovery:** To detect PLANET managed devices available and allow AP grouping to accelerate AP management.
- ◆ **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.
- ◆ **SMTP Alarm:** To send an email alert to the administrator via the SMTP server.
- ◆ **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.
- ◆ **Customized Profile:** Allowing the creation and maintenance of multiple wireless profiles
- ◆ **Auto Provision:** 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:** 200 floor maps, 512 nodes, 64 AP groups, 64 SSID profiles, 512 managed APs, 10,000 clients, 10,000 RADIUS user accounts, 25 RADIUS user groups and 512 RADIUS
- ◆ **Built-in DHCP Server**
- ◆ **Built-in Radius Server**
- ◆ **Console/Telnet command line interface**
- ◆ **SSL secure access**
- ◆ **Web-based GUI management interface**
- ◆ **SNMP v1, v2c, and v3 management**
- ◆ **Supports PLANET DDNS/Easy DDNS**
- ◆ **Remarks:** * means new features will be added through system updates.

➤ System Platform

- ◆ **Form Factor:** 1U Rack-mount chassis
- ◆ **Processor:** Intel® Celeron® J1900 up to 2.42 GHz
- ◆ **Memory:** 2GB DDR3(L) 1333 SODIMM
- ◆ **Browser:** Chrome 31.0 or better

➤ Physical Specifications

- ◆ **I/O Interface:** 4 x 10/100/1000BASE-T RJ45 ports with auto-MDI/MDI-X
1 USB 2.0 port
1 RS232-to-RJ45 console port (115200, 8, N, 1)
LCM display with keypad
- ◆ **Storage:** 2.5", 500GB SATA HDD
- ◆ **Dimensions:** 430 x 200 x 44 mm (W x D x H)
- ◆ **Weight:** 3kg
- ◆ **Power:** 100W ATX PSU
AC 100~240V, 50/60Hz, 8A max.

➤ Compatible Managed Devices:

- ◆ WDAP-W7200AC
- ◆ WDAP-C7200AC
- ◆ WNAP-C3220A
- ◆ WNAP-W2201A
- ◆ WNAP-W2200UE
- ◆ WDAP-C7200E
- ◆ WNAP-C3220E
- ◆ WBS-202N
- ◆ WDAP-702AC
- ◆ WBS-502AC
- ◆ WAP-252N
- ◆ WBS-502N
- ◆ WDAP-802AC
- ◆ WAP-552N
- ◆ WBS-200N
- ◆ WAP-200N
- ◆ WAP-500N
- ◆ WBS-500N

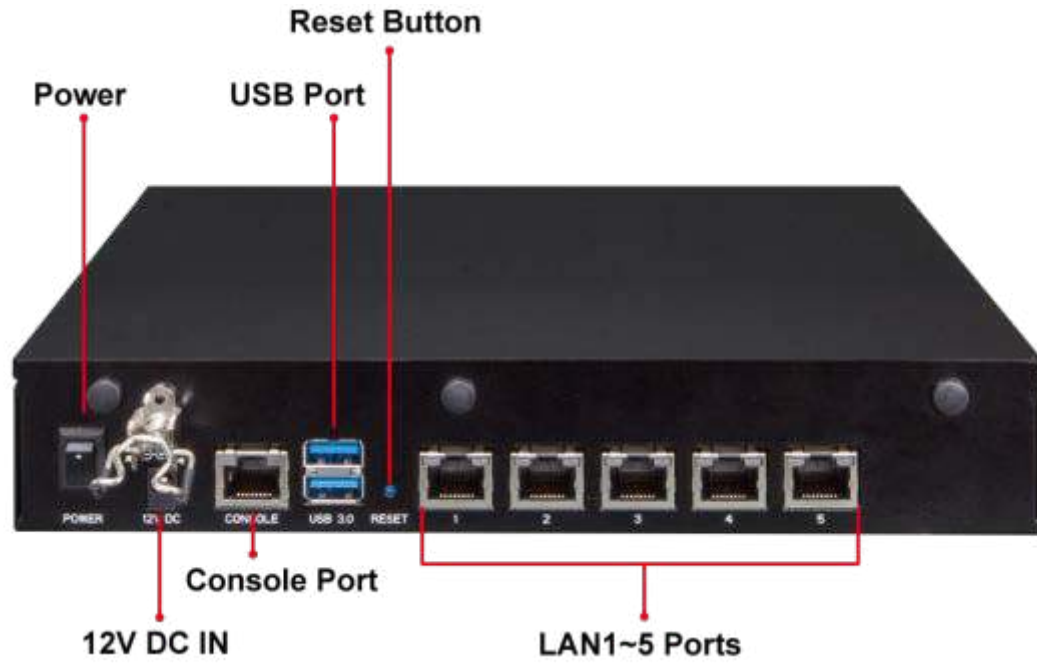
Application



Before First Login



Front & Rear Panels



Device Setting

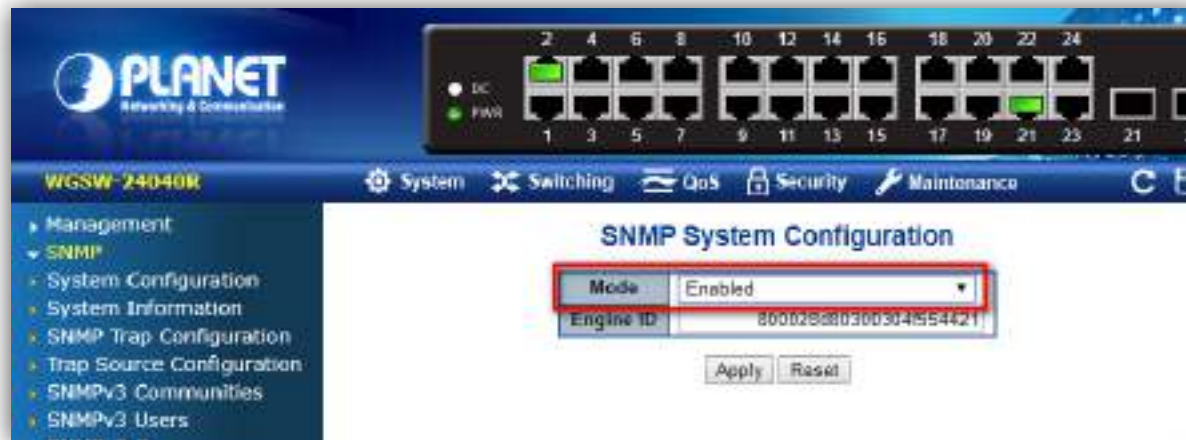


Switch: Log in to the Switch's Web User Interface and refer to the picture below to enable the SNMP and LLDP function as shown in Figures 1 and 2.

AP: Log in to the AP's Web User Interface and refer to Figure 3 below to configure the AP to "Managed AP". Then, click "Apply Change". To support SNMP AP, enable the SNMP function.

IP Cam: The ONVIF function is enabled by default.

Device Setting



SNMP System Configuration

Mode: **Enabled**

Engine ID: 800028080300304854421

Buttons: Apply, Reset

(Figure 1)



LLDP Configuration

LLDP Parameters

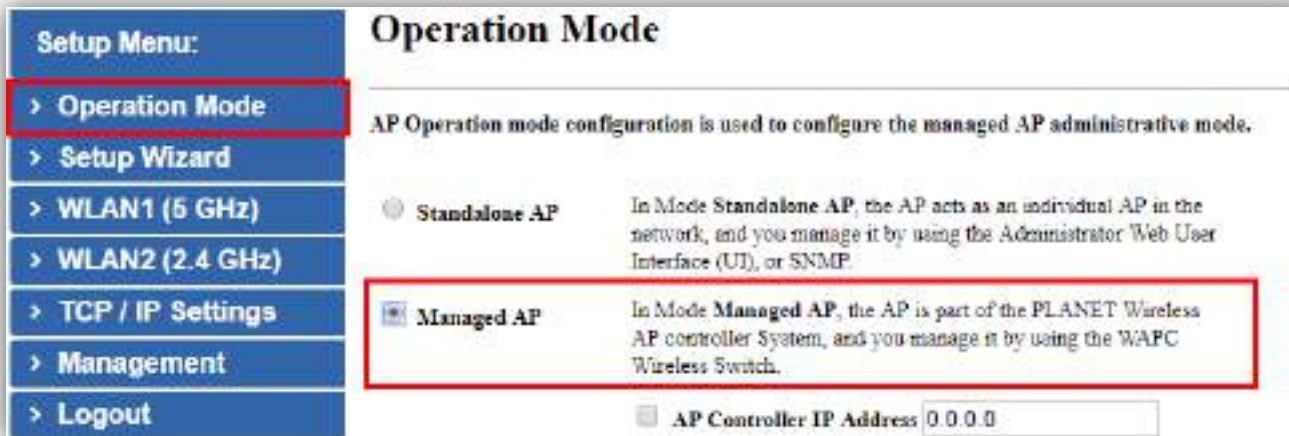
Tx Interval	30	seconds
Tx Hold	4	times
Tx Delay	2	seconds
Tx Reinit	2	seconds

LLDP Port Configuration

Port	Mode	CDP Aware	Trap	Optional TLVs			
				Remote Port ID	System Name	System Capabilities	Management Address
*	Enabled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	Enabled	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	Enabled	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	Enabled	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	Enabled	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

(Figure 2)

Device Setting

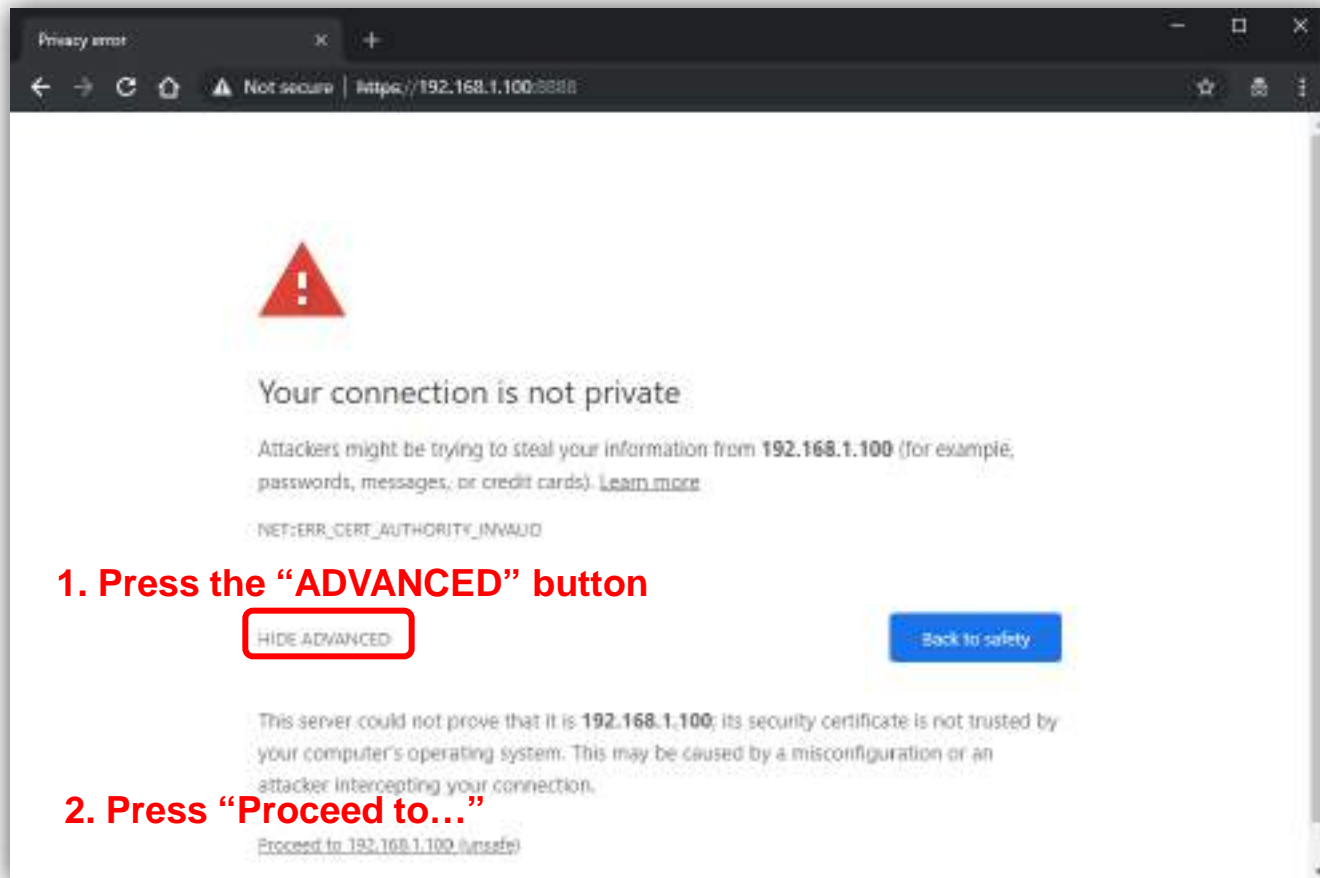


The screenshot displays the configuration page for 'Operation Mode'. On the left is a 'Setup Menu' with options: '> Operation Mode', '> Setup Wizard', '> WLAN1 (5 GHz)', '> WLAN2 (2.4 GHz)', '> TCP / IP Settings', '> Management', and '> Logout'. The 'Operation Mode' option is highlighted with a red border. The main content area is titled 'Operation Mode' and contains the following text: 'AP Operation mode configuration is used to configure the managed AP administrative mode.' Below this, there are two radio button options: 'Standalone AP' (unselected) and 'Managed AP' (selected). The 'Managed AP' option is highlighted with a red border. A description for 'Managed AP' states: 'In Mode Managed AP, the AP is part of the PLANET Wireless AP controller System, and you manage it by using the WAPC Wireless Switch.' At the bottom, there is a checkbox for 'AP Controller IP Address' followed by a text input field containing '0.0.0.0'.

(Figure 3)

Logging in UNI-NMS

- ◆ Open Chrome to log in the UNI-NMS.
- ◆ Please use Chrome to get fully supported. (UI Resolution [1280 x 768](#))



Logging in UNI-NMS

- ◆ Username: admin
- ◆ Password: admin



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Username:

Password:

Login

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.



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Wizard for NMS-500

Account Modification

	Confirmation
User Name	admin123
Password	1qaz!QAZ
Retye 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.



Wizard for NMS-500

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

SNMP Preference Setting

1. Select Region for AP Control (ETSI or FCC).
2. And enter the RO/RW Community for AP's SNMP.



PLANET Networking & Communication
Wizard for NMS-500

SNMP Preference Setting


Configuration	
Region	ETSI
RO Community	public
RW Community	private

*Select Region for AP Control (ETSI or FCC)

Back Next

SNMP Preference Setting

1. Press the Search button to discover PLANET devices.
2. Select check a box and press the “Add” button to add a device to the NMS-500 system.
3. Press the Finish button to leave the Wizard mode and finish the start-up setting.



Wizard for NMS-500

Devices Discovery

1. SEARCH ADD Filter by Content

ID	Name	Device Type	Model No.	Device IP	Device Description
<input type="checkbox"/>	1	Media Converter	N/A	10.1.1.200	WPS
<input type="checkbox"/>	2	Media Converter	N/A	10.1.1.252	WPS
<input type="checkbox"/>	3	Wireless	WNAP-C3220E	10.1.1.247	
<input type="checkbox"/>	4	Wireless	WNAP-C3220E	10.1.1.240	
<input type="checkbox"/>	5	Wireless	WNAP-C3220E	10.1.1.248	
<input type="checkbox"/>	6	N/A	GS-8216-48P45	192.168.1.131	GS-8216-48P45
<input type="checkbox"/>	7	N/A	WGSW-28140	10.1.1.220	Default Location
<input type="checkbox"/>	8	N/A	WSSD-10020HP	192.168.0.104	PLANET WSSD-10020HP Managed Swi
<input type="checkbox"/>	9	N/A	VP-6848PT	10.1.10.1	VP-880
<input type="checkbox"/>	10	N/A	VP-6848PT	10.1.10.2	VP-880
<input type="checkbox"/>	11	N/A	VGW-800	10.1.10.250	VGW-800
<input type="checkbox"/>	12	N/A	VP-1010PT	10.1.10.41	HD PoE IP Phone(1-Line)
<input type="checkbox"/>	13	N/A	VP-1010PT	10.1.10.75	HD PoE IP Phone(1-Line)
<input type="checkbox"/>	14	N/A	VP-1010PT	10.1.10.67	HD PoE IP Phone(1-Line)

2. 3. 4. Back Finish

Main UI Introduction



Home Page -- Dashboard UI Structure

The dashboard features a top navigation bar with the PLANET logo (A), a status bar showing 29 Service(s), 0 Client(s), and 0 Group(s), and a utility menu (B). The main content area is divided into several sections:

- System Information (C):** Displays three gauge charts for CPU Utilization (24.1%), Disk Utilization (48.3%), and Memory Utilization (10.8%).
- Managed APs on Wireless Channels (D):** Shows a list of managed APs with a filter set to 2.4GHz. The current view is empty, displaying "There has no AP at any floor".
- Network Summary (E):** Provides a summary of network devices with a "Zero Filter" toggle. The summary table is as follows:

Switch	1	Media Converter	2
Wireless(AP)	4	Unknown	22
- AP Summary (F):** Includes an "AP Status Chart" and "Current Clients of Top APs". The status chart shows 7 total APs, with a legend for Online (green), Offline (red), and Disabled (grey). The current view is empty, displaying "There is no client".

Main Dashboard -- Description

Item	Description	Remarks
A	Device Status Summary	<ol style="list-style-type: none"> 1. Roughly shows the system status: Current devices online (total online), device groups (total groups), clients (total active clients) 2. Click the PLANET Logo to connect to PLANET Web site.
B	System Menu	<p>From left to right:</p> <ol style="list-style-type: none"> 1. Dashboard: Provides the whole system view and wireless network status 2. Domain: Discovery / Device List / Topology View / Event / syslog page 3. Graphical Statistics: Provides the AP and active client status in charts 4. AP Control: 1. Preference, 2. Search, 3. Profiles, 4. Control, 5. Map It, 6. Statistics 5. Refresh 6. System Configuration: Alert configuration, Date and Time, Interface, IP, Account, Wizard setting 7. Network Services: 1. Planet DDNS, 2. DHCP Server, 3. SMPT, 4. SNMP Agent, 5. RADIUS Service, 8. Maintenance: System upgrade, backup & restore, factory default, system setting. 9. Exit: Click to opt for the logout, reboot, shutting down of the system
C	System Information	<ol style="list-style-type: none"> 1. System Version, 2. Management IP, 3. Management Port, 4. CPU Utilization, 5. Disk Utilization, 6. Memory Utilization,
D	Managed APs on Wireless Channels	Show the real-time total wireless channel
E	Network Summary	Show the real-time total quantity of devices
F	AP Summary	Show the real-time pie charts including AP Status, and Current Clients of Top APs

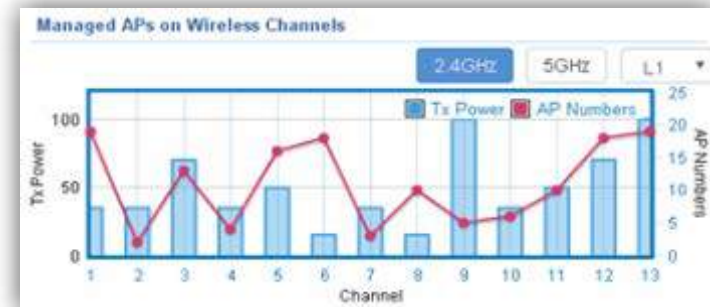
Dashboard Introduction



Dashboard (Home)



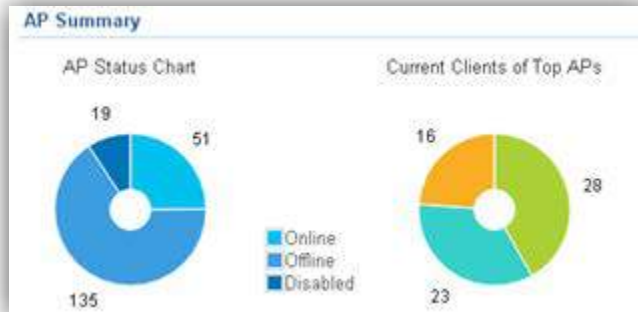
- **System Information:** In this area, you can view the basic system information on system version, management IP, management port, CPU Utilization, Disk Utilization, and Memory Utilization.



- **Network Summary:** In this area, you can view each type of network devices and quantity. Turning "Off" the "Zero Filter" button can filter devices not being displayed.

- **Managed APs on Wireless Channels:** The chart shows the current quantity of managed APs with max. Tx power at each channel.
- Click 2.4GHz or 5GHz to switch to a different frequency band. Select the drop-down list to switch between different floor maps if available.

Dashboard (Home)



- **AP Summary:** In this area, you can view the pie charts including AP Status and Current Clients of Top APs.
- **The AP Status chart** shows which AP is online, offline, or Wi-Fi disabled.
- **The Current Clients of Top APs chart** shows the real-time top 3 APs which have max. active clients.

System Menu -- Graphical Statistics



System Menu – Graphical Statistics



[System Menu – Graphical Statistics]

- **Graphical Statistics:** On this page, you can view the charts including real-time traffic statistics of Top 10 managed APs and active clients.

```
Name :Wi-Fi_11ac_AP
MAC :a8:f7:e0:29:43:76
Client Number :0
Total :0 B
```

- Move the cursor on any arrow point to view the hint of the AP status.



[Top Chart]

- **The Top 10 Managed AP chart** shows the real-time traffic statistics of Top 10.
- Switch between 1 day and 1 week to view the statistic of a day in 24 hrs, or cumulative traffic including 7 days of a week.
- Click the **AP name** at the x-axis of the top chart to show the statistics of designated APs shown in the bottom chart.



[Bottom Chart]

System Menu – Graphical Statistics



[System Menu – Graphical Statistics]

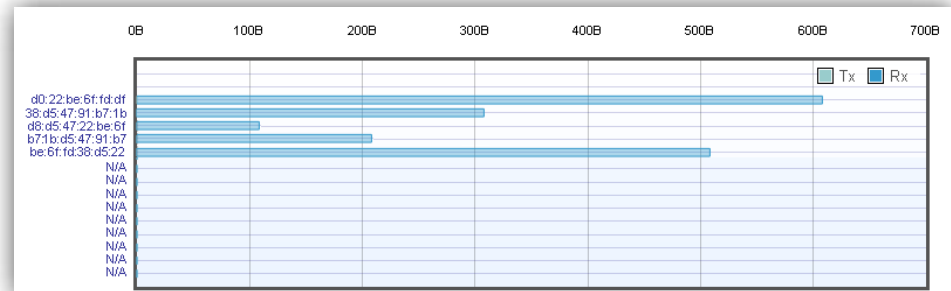


[Top Chart]

- Set the radio option to “**active clients**” and then click the **AP name** at the x-axis of the top chart to show the active clients’ statistics of designated APs shown in the bottom chart.

```
MAC :d0:22:be:6f:fd:df
Rx :608 B
Total :608 B
```

- Move the cursor on bar to view the hint of the client.



[Bottom Chart]

- **The Active Clients chart** shows the real-time traffic statistics of active clients. Switch between 1 day and 1 week to view the statistic per day or per week.

System Menu -- Domain



Discovery

- ◆ Press the “Domain” icon (No. 1) , and then press Discovery (No. 2) and Search (No. 3) to find the managed APs and continue other settings.

The screenshot shows the PLANET Universal NMS interface. At the top, there are status indicators for Device(s), Client(s), and Group(s). Below this, there are navigation tabs: Discovery (highlighted with a red box and '2.'), Device List, and Topology View. On the right side, there is a toolbar with several icons; the first icon (a globe) is highlighted with a red box and '1.'. Below the toolbar, there is a search bar with a 'Search' button (highlighted with a red box and '3.') and an 'Apply' button. The main area displays a table of discovered devices.

ID	Num.	MAC Address	Device Type	Model No.	Version	Device IP	Device Description
1	1	00:12:5f:00:17:9e	Media Converter	N/A	N/A	10.1.1.250	WPS
2	2	00:12:5f:00:a5:4a	Media Converter	N/A	N/A	10.1.1.252	WPS
3	3	00:33:11:20:90:00	Switch	GS-4210-24PL4C	v2.305b200302	10.1.0.38	L2/L4 Managed PoE+ Switch
4	4	a8:f7:e0:48:10:92	Wireless	WNAP-C3220E	WNAP-C3220E-AP-FCC-V1.0-Build20180813133317	10.1.1.247	
5	5	a8:f7:e0:48:10:95	Wireless	WNAP-C3220E	WNAP-C3220E-AP-FCC-V1.0-Build20180813133317	10.1.1.240	
6	6	a8:f7:e0:48:10:96	Wireless	WNAP-C3220E	WNAP-C3220E-AP-FCC-V1.0-Build20180813133317	10.1.1.248	
7	7	00:30:11:22:33:44	N/A	GS-4210-48P4S	v2.0b180207	192.168.1.131	GS-4210-48P4S
8	8	00:30:4f:11:22:45	N/A	IGS-10020HPT	v3.440b200320	10.1.0.81	IGS-10020HPT Industrial L2+ Manag
9	9	00:30:4f:9d:66:c5	N/A	WGSW-28040	v1.2b130315	10.1.1.220	Default Location

Below the device table, there is an 'Event' section with a 'Syslog' tab and a date filter set to '2020-03-20'. It contains a table of system events:

ID	Type	Time	Source	Status	Device Type	Information
1	System	14:18:00	10.1.0.199	Connect	N/A	IGS-10020HPT 10.1.0.81 00:30:4f:11:22:45
2	System	14:18:00	10.1.0.199	Connect	N/A	IGS-10020HPT 10.1.0.81 00:30:4f:11:22:45
3	System	14:18:00	10.1.0.199	Connect	N/A	GS-4210-8P2S 10.1.0.203 a8:f7:e0:1f:22:42
4	System	14:17:00	10.1.0.199	Connect	N/A	GS-4210-8P2S 10.1.0.203 a8:f7:e0:1f:22:42
5	System	14:15:01	10.1.0.199	Connect	N/A	IGS-10020HPT 10.1.0.81 00:30:4f:11:22:45
6	System	14:14:01	10.1.0.199	Connect	N/A	GS-4210-8P2S 10.1.0.203 a8:f7:e0:1f:22:42
7	System	14:14:00	10.1.0.199	Connect	N/A	IGS-10020HPT 10.1.0.81 00:30:4f:11:22:45
8	System	14:14:00	10.1.0.199	Connect	N/A	GS-4210-8P2S 10.1.0.203 a8:f7:e0:1f:22:42
9	System	14:11:01	10.1.0.199	Connect	N/A	GS-4210-8P2S 10.1.0.203 a8:f7:e0:1f:22:42

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UNI-NMS – Adding Devices to List

- Select devices (No. 1) by checking the boxes, and then press the “Apply” icon (No. 2) to add devices to management list.

1

2.

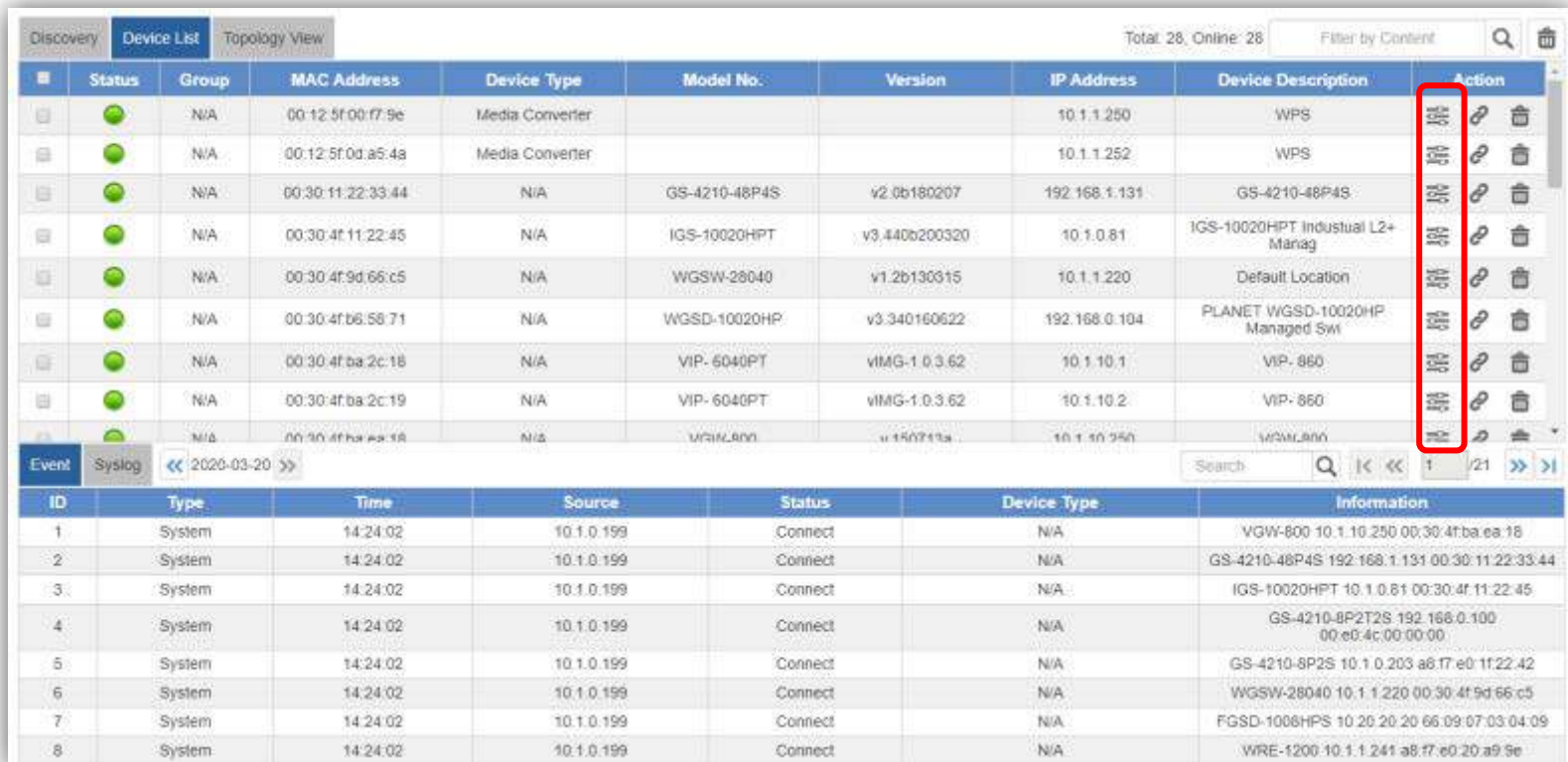


Num.	MAC Address	Device Type	Model No.	Version	Device IP	Device Description
1	00:12:5f:00:f7:9e	Media Converter	N/A	N/A	10.1.1.250	WPS
2	00:12:5f:0d:a5:4a	Media Converter	N/A	N/A	10.1.1.252	WPS
3	00:33:11:20:90:00	Switch	GS-4210-24PL4C	v2.305b200302	10.1.0.38	L2/L4 Managed PoE+ Switch
4	a8:f7:e0:48:f0:92	Wireless	WNAP-C3220E	WNAP-C3220E-AP-FCC-V1.0-Build20180613133317	10.1.1.247	
5	a8:f7:e0:48:f0:95	Wireless	WNAP-C3220E	WNAP-C3220E-AP-FCC-V1.0-Build20180613133317	10.1.1.240	
6	a8:f7:e0:48:f0:98	Wireless	WNAP-C3220E	WNAP-C3220E-AP-FCC-V1.0-Build20180613133317	10.1.1.248	
7	00:30:11:22:33:44	N/A	GS-4210-48P4S	v2.0b180207	192.168.1.131	GS-4210-48P4S
8	00:30:4f:11:22:45	N/A	IGS-10020HPT	v3.440b200320	10.1.0.81	IGS-10020HPT Industrial L2+ Manag
9	00:30:4f:9d:66:c5	N/A	WGSW-28040	v1.2b130315	10.1.1.220	Default Location

ID	Type	Time	Source	Status	Device Type	Information
1	System	14:18:39	10.1.0.199	Delete	Wireless	WNAP-W2200UE 10.1.0.200 a8:f7:e0:4b:23:15
2	System	14:18:39	10.1.0.199	Delete	Media Converter	10.1.1.250 00:12:5f:00:f7:9e
3	System	14:18:39	10.1.0.199	Delete	Media Converter	10.1.1.252 00:12:5f:0d:a5:4a
4	System	14:18:39	10.1.0.199	Delete	N/A	GS-4210-48P4S 192.168.1.131 00:30:11:22:33:44
5	System	14:18:39	10.1.0.199	Delete	N/A	IGS-10020HPT 10.1.0.81 00:30:4f:11:22:45
6	System	14:18:39	10.1.0.199	Delete	N/A	WGSW-28040 10.1.1.220 00:30:4f:9d:66:c5
7	System	14:18:39	10.1.0.199	Delete	N/A	WGSD-10020HP 192.168.0.104 00:30:4f:b6:58:71
8	System	14:18:39	10.1.0.199	Delete	N/A	VIP-6040PT 10.1.10.1 00:30:4f:ba:2c:18

UNI-NMS – Device List

- ◆ Press the “Identification” icon to modify the device description, type, and web protocol information.



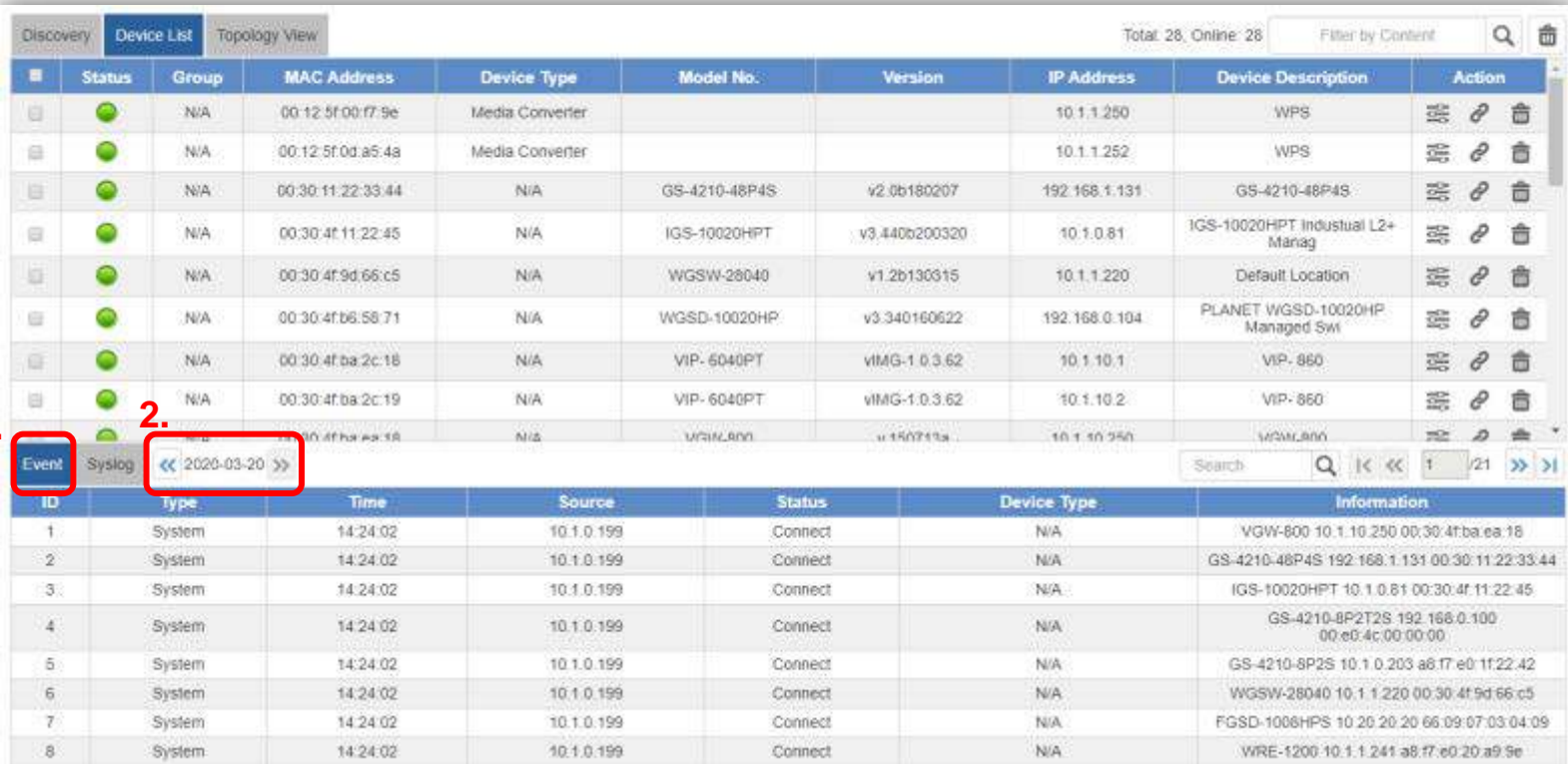
The screenshot displays the 'Device List' tab in the UNI-NMS interface. The main table lists 8 devices with columns for Status, Group, MAC Address, Device Type, Model No., Version, IP Address, Device Description, and Action. A red box highlights the 'Action' column, specifically the 'Identification' icon (represented by a key symbol) for each device. Below the main table is an 'Event' log showing system events with columns for ID, Type, Time, Source, Status, Device Type, and Information.

Status	Group	MAC Address	Device Type	Model No.	Version	IP Address	Device Description	Action
Online	N/A	00-12-5f-00-f7-9e	Media Converter			10.1.1.250	WPS	[Identify] [Refresh] [Delete]
Online	N/A	00-12-5f-0d-a5-4a	Media Converter			10.1.1.252	WPS	[Identify] [Refresh] [Delete]
Online	N/A	00-30-11-22-33-44	N/A	GS-4210-48P4S	v2.0b180207	192.168.1.131	GS-4210-48P4S	[Identify] [Refresh] [Delete]
Online	N/A	00-30-4f-11-22-45	N/A	IGS-10020HPT	v3.440b200320	10.1.0.81	IGS-10020HPT Industrial L2+ Manag	[Identify] [Refresh] [Delete]
Online	N/A	00-30-4f-9d-66-c5	N/A	WGSW-28040	v1.2b130315	10.1.1.220	Default Location	[Identify] [Refresh] [Delete]
Online	N/A	00-30-4f-b6-58-71	N/A	WGSD-10020HP	v3.340160622	192.168.0.104	PLANET WGSD-10020HP Managed Swi	[Identify] [Refresh] [Delete]
Online	N/A	00-30-4f-ba-2c-18	N/A	VIP-6040PT	VIMG-1.0.3.62	10.1.10.1	VIP-860	[Identify] [Refresh] [Delete]
Online	N/A	00-30-4f-ba-2c-19	N/A	VIP-6040PT	VIMG-1.0.3.62	10.1.10.2	VIP-860	[Identify] [Refresh] [Delete]
Online	N/A	00-30-4f-ba-ea-18	N/A	VGW-800	v1.50211a	10.1.10.250	VGW-800	[Identify] [Refresh] [Delete]

ID	Type	Time	Source	Status	Device Type	Information
1	System	14:24:02	10.1.0.199	Connect	N/A	VGW-800 10.1.10.250 00:30:4f:ba:ea:18
2	System	14:24:02	10.1.0.199	Connect	N/A	GS-4210-48P4S 192.168.1.131 00:30:11:22:33:44
3	System	14:24:02	10.1.0.199	Connect	N/A	IGS-10020HPT 10.1.0.81 00:30:4f:11:22:45
4	System	14:24:02	10.1.0.199	Connect	N/A	GS-4210-8P2TS 192.168.0.100 00:e0:4c:00:00:00
5	System	14:24:02	10.1.0.199	Connect	N/A	GS-4210-8P2S 10.1.0.203 a6:f7:e0:1f:22:42
6	System	14:24:02	10.1.0.199	Connect	N/A	WGSW-28040 10.1.1.220 00:30:4f:9d:66:c5
7	System	14:24:02	10.1.0.199	Connect	N/A	FGSD-1006HPS 10.20.20.20 66:09:07:03:04:09
8	System	14:24:02	10.1.0.199	Connect	N/A	WRE-1200-10.1.1.241 a8:f7:e0:20:a9:9e

UNI-NMS – System Event

- ◆ Press the “Event” icon (No. 1) to see the full system event by day.
- ◆ Press the “<<” & “>>” icon (No. 2) to select daily report.



The screenshot displays the UNI-NMS interface. At the top, there are tabs for 'Discovery', 'Device List', and 'Topology View'. The 'Device List' tab is active, showing a table of network devices. Below this, there is a navigation bar with an 'Event' icon (labeled 1) and a date selector '2020-03-20' (labeled 2). The main area shows a detailed view of system events.

ID	Type	Time	Source	Status	Device Type	Information
1	System	14:24:02	10.1.0.199	Connect	N/A	VGW-800 10.1.10.250 00:30:4f:ba:ea:18
2	System	14:24:02	10.1.0.199	Connect	N/A	GS-4210-48P4S 192.168.1.131 00:30:11:22:33:44
3	System	14:24:02	10.1.0.199	Connect	N/A	IGS-10020HPT 10.1.0.81 00:30:4f:11:22:45
4	System	14:24:02	10.1.0.199	Connect	N/A	GS-4210-8P2T2S 192.168.0.100 00:e0:4c:00:00:00
5	System	14:24:02	10.1.0.199	Connect	N/A	GS-4210-8P2S 10.1.0.203 a6:f7:e0:11:22:42
6	System	14:24:02	10.1.0.199	Connect	N/A	WGSW-28040 10.1.1.220 00:30:4f:9d:66:c5
7	System	14:24:02	10.1.0.199	Connect	N/A	FGSD-1008HPS 10.20.20.20 66:09:07:03:04:09
8	System	14:24:02	10.1.0.199	Connect	N/A	WRE-1200 10.1.1.241 a8:f7:e0:20:a9:9e

UNI-NMS – System Event

- ◆ Use “search” to choose the information you want by entering the key word .

Discovery | **Device List** | Topology View Total: 28, Online: 28

☐	Status	Group	MAC Address	Device Type	Model No.	Version	IP Address	Device Description	Action
☐	●	N/A	00:12:5f:00:17:9e	Media Converter			10.1.1.250	WPS	🔍 🔗 🗑️
☐	●	N/A	00:12:5f:0d:a5:4a	Media Converter			10.1.1.252	WPS	🔍 🔗 🗑️
☐	●	N/A	00:30:11:22:33:44	N/A	GS-4210-48P4S	v2.0b160207	192.168.1.131	GS-4210-48P4S	🔍 🔗 🗑️
☐	●	N/A	00:30:4f:11:22:45	N/A	IGS-10020HPT	v3.440b200320	10.1.0.81	IGS-10020HPT Industrial L2+ Manag	🔍 🔗 🗑️
☐	●	N/A	00:30:4f:9d:66:c5	N/A	WGSW-28040	v1.2b130315	10.1.1.220	Default Location	🔍 🔗 🗑️
☐	●	N/A	00:30:4f:b6:58:71	N/A	WGSD-10020HP	v3.340160522	192.168.0.104	PLANET WGSD-10020HP Managed Swi	🔍 🔗 🗑️
☐	●	N/A	00:30:4f:ba:2c:18	N/A	VIP-6040PT	vIMG-1.0.3.62	10.1.10.1	VIP-660	🔍 🔗 🗑️
☐	●	N/A	00:30:4f:ba:2c:19	N/A	VIP-6040PT	vIMG-1.0.3.62	10.1.10.2	VIP-660	🔍 🔗 🗑️
☐	●	N/A	00:30:4f:ba:2c:18	N/A	VGSW-800	v1.50713a	10.1.10.250	VGSW-800	🔍 🔗 🗑️

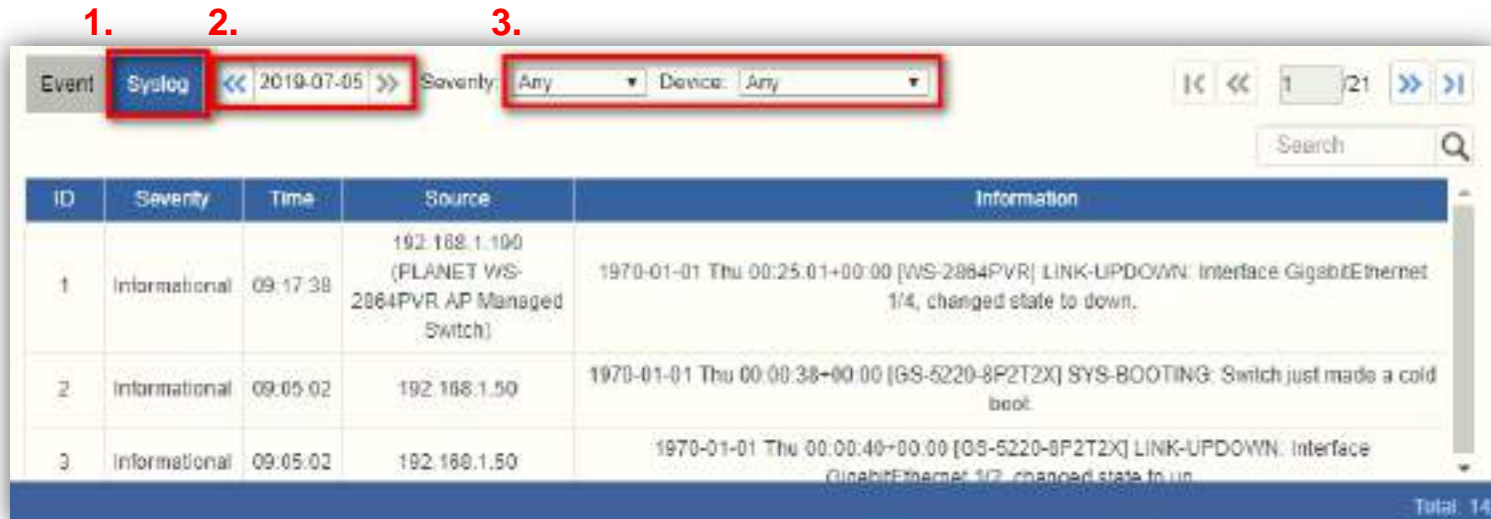
Event | Syslog | << 2020-03-20 >> 🔍 < << 1 /1 >> >

ID	Type	Time	Source	Status	Device Type	Information
1	System	14:24:02	10.1.0.199	Connect	N/A	IGS-10020HPT 10.1.0.81 00:30:4f:11:22:45
2	System	14:23:55	10.1.0.199	Add	N/A	IGS-10020HPT 10.1.0.81 00:30:4f:11:22:45
3	System	14:16:39	10.1.0.199	Delete	N/A	IGS-10020HPT 10.1.0.81 00:30:4f:11:22:45
4	System	14:18:00	10.1.0.199	Connect	N/A	IGS-10020HPT 10.1.0.81 00:30:4f:11:22:45
5	System	14:18:00	10.1.0.199	Connect	N/A	IGS-10020HPT 10.1.0.81 00:30:4f:11:22:45
6	System	14:15:01	10.1.0.199	Connect	N/A	IGS-10020HPT 10.1.0.81 00:30:4f:11:22:45
7	System	14:14:00	10.1.0.199	Connect	N/A	IGS-10020HPT 10.1.0.81 00:30:4f:11:22:45
8	System	13:51:01	10.1.0.199	Connect	N/A	IGS-10020HPT 10.1.0.81 00:30:4f:11:22:45
9	System	13:50:11	10.1.0.199	Add	N/A	IGS-10020HPT 10.1.0.81 00:30:4f:11:22:45

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UNI-NMS – Syslog Server

- ◆ Press the “Syslog” icon (No. 1) to see the full syslog by day (Open the devices remote syslog function.).
- ◆ Press the “<<” & “>>” icon (No. 2) to select daily report.
- ◆ Press the “Drop-down ” menu (No. 3) to select severity and device ID.



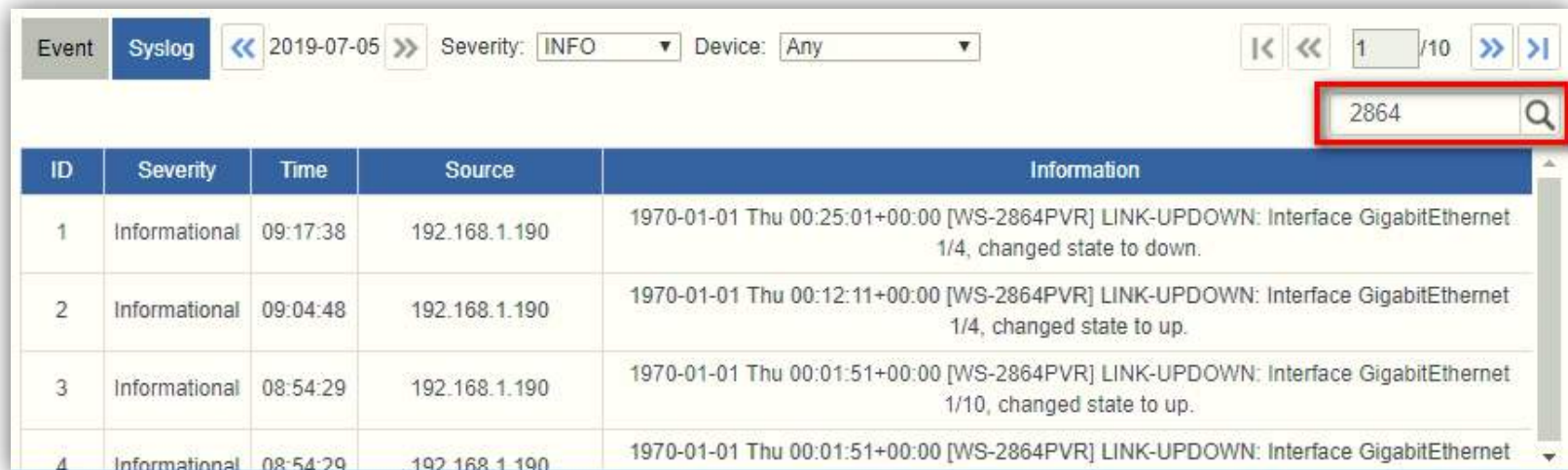
1. 2. 3.

ID	Severity	Time	Source	Information
1	Informational	09:17:38	192.168.1.100 (PLANET WS-2884PVR AP Managed Switch)	1970-01-01 Thu 00:25:01+00:00 [WS-2884PVR] LINK-UPDOWN: Interface GigabitEthernet 1/4, changed state to down.
2	Informational	09:05:02	192.168.1.50	1970-01-01 Thu 00:00:38+00:00 [GS-5220-8P2T2X] SYS-BOOTING: Switch just made a cold boot.
3	Informational	09:05:02	192.168.1.50	1970-01-01 Thu 00:00:40+00:00 [GS-5220-8P2T2X] LINK-UPDOWN: Interface GigabitEthernet 1/2, changed state to up.

Total: 14

UNI-NMS – System Event

- ◆ Use **Search** to choose the information you want by entering the key word.



The screenshot shows the UNI-NMS System Event interface. At the top, there are navigation controls including 'Event' and 'Syslog' tabs, a date filter set to '2019-07-05', a severity filter set to 'INFO', and a device filter set to 'Any'. On the right, there are page navigation buttons and a search input field containing '2864'. Below the search bar is a table with the following data:

ID	Severity	Time	Source	Information
1	Informational	09:17:38	192.168.1.190	1970-01-01 Thu 00:25:01+00:00 [WS-2864PVR] LINK-UPDOWN: Interface GigabitEthernet 1/4, changed state to down.
2	Informational	09:04:48	192.168.1.190	1970-01-01 Thu 00:12:11+00:00 [WS-2864PVR] LINK-UPDOWN: Interface GigabitEthernet 1/4, changed state to up.
3	Informational	08:54:29	192.168.1.190	1970-01-01 Thu 00:01:51+00:00 [WS-2864PVR] LINK-UPDOWN: Interface GigabitEthernet 1/10, changed state to up.
4	Informational	08:54:29	192.168.1.190	1970-01-01 Thu 00:01:51+00:00 [WS-2864PVR] LINK-UPDOWN: Interface GigabitEthernet

System Menu -- AP Control



AP Control UI – Structure & Description

AP control icon



28 14 0
Device(s) Client(s) Group(s)

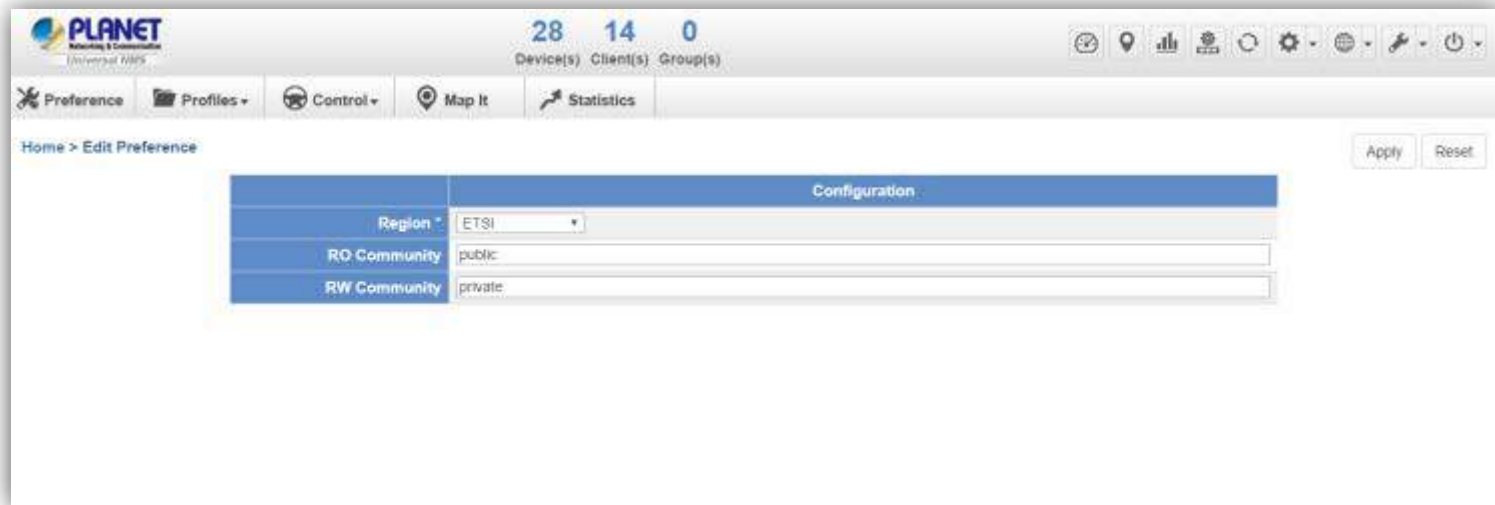
1 Preference 2 Profiles 3 Control 4 Map It 5 Statistics **Main Menu**

Home > Control > AP Management

Status	Group	MAC Address	Device Type	Model No.	Version	IP Address	Device Description	Action
Online		a8:f7:e0:48:f0:92	Wireless	WNAP-C3220E	WNAP-C3220E-AP-FCC-V1.0-Build20180813133317	10.1.1.247		[Icons]
Online		a8:f7:e0:48:f0:95	Wireless	WNAP-C3220E	WNAP-C3220E-AP-FCC-V1.0-Build20180813133317	10.1.1.240		[Icons]
Online		a8:f7:e0:48:f0:96	Wireless	WNAP-C3220E	WNAP-C3220E-AP-FCC-V1.0-Build20180813133317	10.1.1.248		[Icons]

Item	Description	Remarks
1	Preference	Edit region, RO community, RW community
2	Profiles	Set up SSID, Radio (2.4G, 5G) Profiles
3	Control	AP and AP group management
4	Map It	Edit the map of AP location and coverage
5	Statistics	Show the statuses of managed APs and active clients

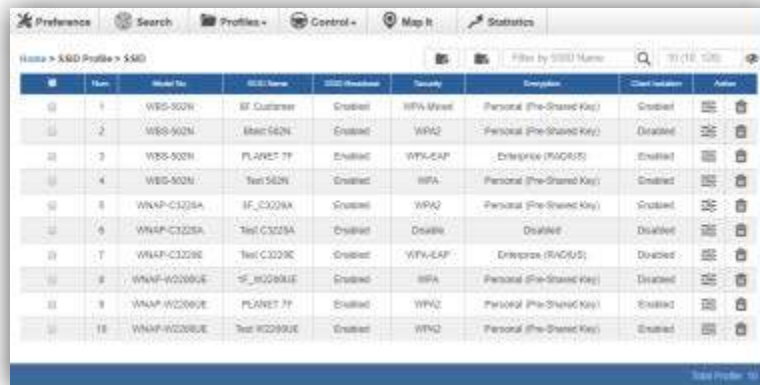
Main Menu – Preference



[Preference]

- **Preference:** On this page, you can choose the device region of FCC or ETSI.
- Then edit RO community and RW community for public or private use.
- Select Apply or Reset.
- **Noted:** Device of FCC and device of ETIS cannot be shown at the same time.

Main Menu – Profiles



ID	Name	Model No.	SSID Name	SSID Enabled	Security	Encryption	Client Isolation	Action
1	WBS-502N	BT Customer	Created	WPA-Mixed	Personal (Pre-Shared Key)	Enabled		
2	WBS-502N	Blair 562N	Enabled	WPA2	Personal (Pre-Shared Key)	Disabled		
3	WBS-502N	PLANET 7F	Enabled	WPA-EAP	Enterprise (RADIUS)	Enabled		
4	WBS-502N	Test 562N	Enabled	WPA	Personal (Pre-Shared Key)	Enabled		
5	WNAP-C325A	IF_C325A	Enabled	WPA2	Personal (Pre-Shared Key)	Enabled		
6	WNAP-C325A	Test C325A	Enabled	Disable	Disable	Disabled		
7	WNAP-C329C	Test C329C	Enabled	WPA-EAP	Enterprise (RADIUS)	Enabled		
8	WNAP-W228UE	5F_W228UE	Enabled	WPA	Personal (Pre-Shared Key)	Disabled		
9	WNAP-W228UE	PLANET 7F	Enabled	WPA2	Personal (Pre-Shared Key)	Enabled		
10	WNAP-W228UE	Test W228UE	Enabled	WPA2	Personal (Pre-Shared Key)	Enabled		

[Profiles]

- **Profiles:** On this page, you can create the SSID and 2.4GHz/5GHz profiles for further AP provisioning.
- **SSID Profiles:** Click the “Add new profile” button to add a new SSID profile.
- **Radio Profiles:** Click the “Add new profile” button to add a new 2.4GHz radio profile or 5GHz radio profile.
- You can create up to 32 profiles for each type of profiles (SSID, 2.4G radio, 5G radio).



SSID Profile Configuration

SSID Name: WBS-502N

SSID Configuration

SSID Name: PLANET 7F

Security: WPA-EAP

Encryption: Enterprise (RADIUS)

Client Isolation: Enabled

WPA ID: WPA2

Security Configuration

Encryption: WPA-EAP





Authentication Mode: Enterprise (RADIUS)

Radius Server IP Address: 192.168.1.1

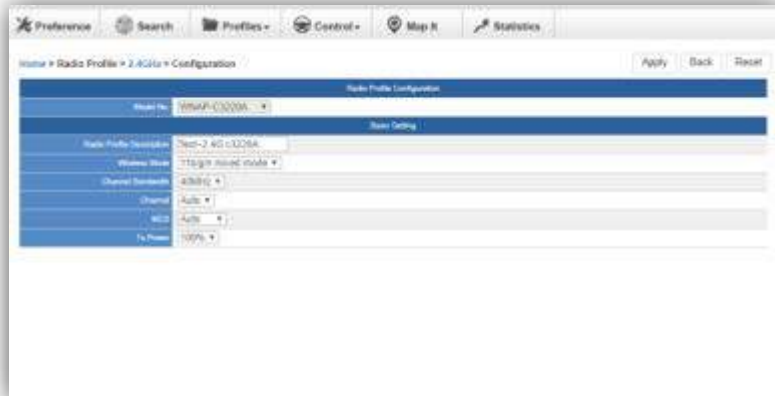
Radius Server Port: 1812

Radius Shared Secret: 12345678

[SSID Profile Configuration]

- On the **SSID profile configuration** page, enter the value that you preferred and then click “**Apply**” to save the profile.
-  **Add new profile:** Click it to add a new profile.
-  **Delete selected item:** Click it to delete the selected profile.
-  **Edit:** Click it to edit the profile.
-  **Delete:** Click it to delete the single profile.
- **Filter:** You can filter the search result by entering the keywords in the field next to the magnifier icon. The keywords include: SSID Name

Main Menu – 3/Profiles



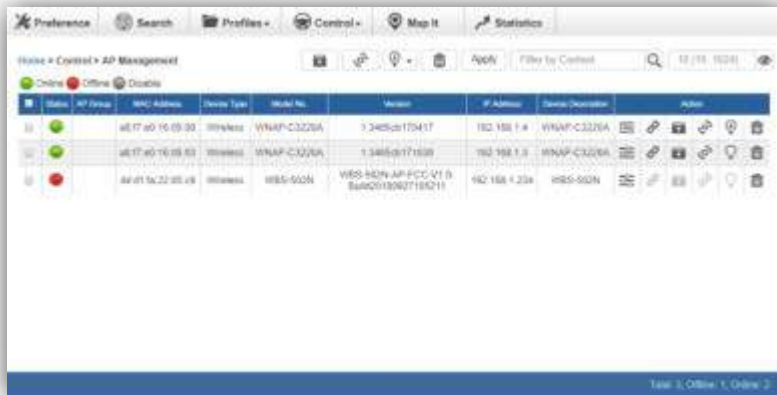
[2.4GHz Radio Profile Configuration]



[5GHz Radio Profile Configuration]

- On the Radio profile configuration page, enter the value that you preferred and then click “**Apply**” to save the profile.
- **Apply:** Click this button to save the settings.
- **Back:** Click this button to return to the previous page.
- **Reset:** Click this button to reset all fields to default value.
- **Remarks:**
 1. Strongly suggest you to keep the values as default except the fields like Channel, Network Mode, Channel Bandwidth, Tx Power, IAPP, and Tx/Rx to prevent any unexpected error or impact on the performance.
 2. WMM Capable is not allowed to be disabled.







Main Menu – Control











[Control - AP Management]

- **Control:** On this page, the system allows you to control the AP or AP group with specific actions.
- **AP Management:** Go to this page to control single AP or multiple APs.
- **AP Group Management:** Go to this page to create multiple APs as a group or control AP group.
- **Filter:** You can filter the AP list by entering the keyword in the field next to the magnifier icon. The keyword should be any context belongs to the fields like AP Group, MAC Address, Model, Version, IP Address, and Name.
- **Apply:** Click this button to apply the setting. The profile setting will not take effect until you click the **"Apply"** button on the Control's main page.

➤ Status:

-    **Connection status:** online, offline, Wi-Fi disabled
-  **In progress:** action in progress
-  **Finished/Successful:** action finished and successful.
-  **Failed:** action failed.

➤ Action:

-  **Setting:** edit setting and allocate profile to AP
-  **Link:** link to the AP's web page
-  **Firmware Update :** upgrade AP's firmware
-  **Reboot:** reboot the AP
-  **Delete:** delete the AP from the control list
-    **LED Control:** control the AP's LED.
Mouse-click in a sequential order:
LED blink-> LED off-> LED on

➤ Remarks:

To configure multiple APs at one time, select multiple APs and then choose one of the action icons on the top of the page. The **"Link"** action is not allowed for multiple APs.

Main Menu – Control



Procedure of configuring AP's setting:

1. Edit the basic AP Information.
2. Click the "**Clone >>**" button if you want to use the same IP configuration as the previous LAN settings. Otherwise, please enter the preferred LAN setting.
3. If there are already profiles created, you can designate the SSID profile and Radio profile to this AP. You can do this step later once AP's basic setting is done

[AP Configuration]

- On the **AP Group Configuration** page, you can create an AP group with the same model of AP.
- **Save:** Click this button to save the group/setting.
- **Back:** Click this button to return to the previous page.
- **Reset:** Click this button to reset all fields to default value.
- **Remarks:** The system allows to create up to 32 AP groups.

Main Menu – Control



[3/Control - AP Group Management]

➤ On the **AP Group Management** page, you can create AP group and control one or more AP groups.

➤ **Add new group:** Click it to add an AP group.

➤ **Delete selected item:** Click it to delete the selected AP group.

➤ **Apply:** Click this button to apply the setting. The profile setting will not take effect to a group until you click the **"Apply"** button.

➤ Remarks:


To do profile provisioning to multiple AP groups at one time, select multiple AP groups, and then click the **"Apply"** button. The **"Link"** action is not allowed for multiple APs or AP group.

➤ Procedure of profile provisioning to AP groups:

1. Select the AP group.
2. Click the **"Apply"** button.
3. Go to **"3/Control-> AP Management"** to check whether the status is becoming **"In progress"**. Wait until the status comes **"Online"**.




➤ Action:

 **Setting:** edit setting and allocate profile to group

 **Firmware Update :** upgrade AP group's firmware

 **Reboot:** reboot the AP group

 **Delete:** delete the AP group from the control list

 **LED Control:** control the AP group's LED.

Mouse-click in a sequential order:

LED blink-> LED off-> LED on

Main Menu – Map It



[Map It]

- **Map It:** On this page, the system allows you to upload your floor map to the system and you can add managed APs to the actual position against the floor map. This is convenient to user to view and adjust the actual deployment by reference to its real transmission power and channel allocation.
- The system allows user to upload up to 10 floor maps.

- A system message will prompt to remind you to edit map first if there is no other map available in the system. Click “OK” to continue.

192.168.1.100:8888 says

Please edit map first

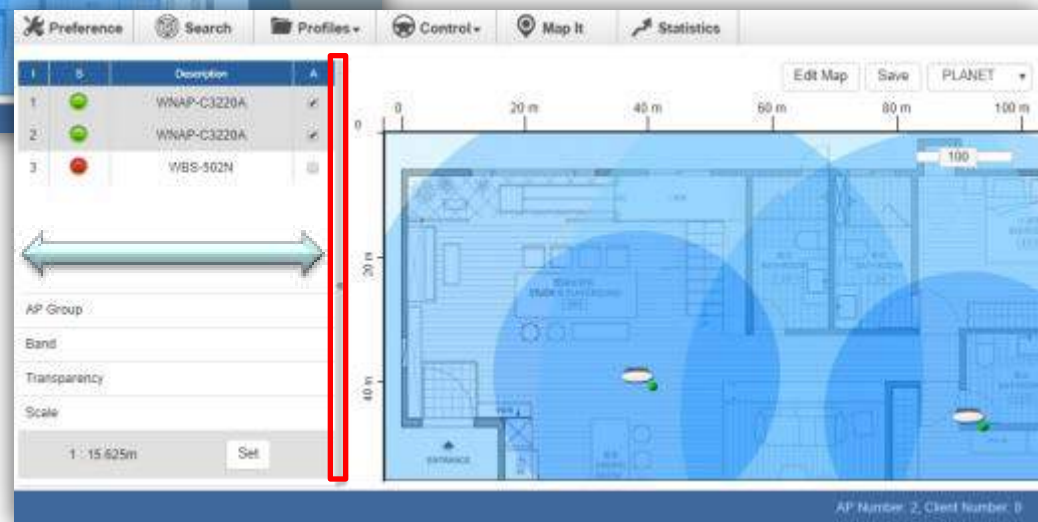
OK

- On the **Edit Map** page, click “**Choose File**” and enter the map’s description. Then click “**Apply**” to upload the map.



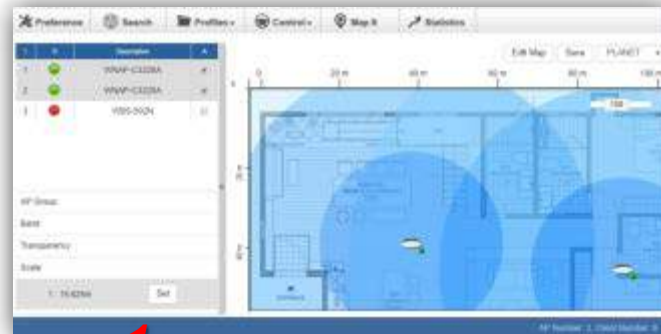
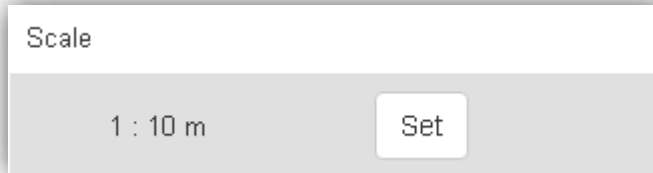
Main Menu – Map It

- After finishing map uploading, you can click the sidebar at the left-side of the window to expand the AP list.

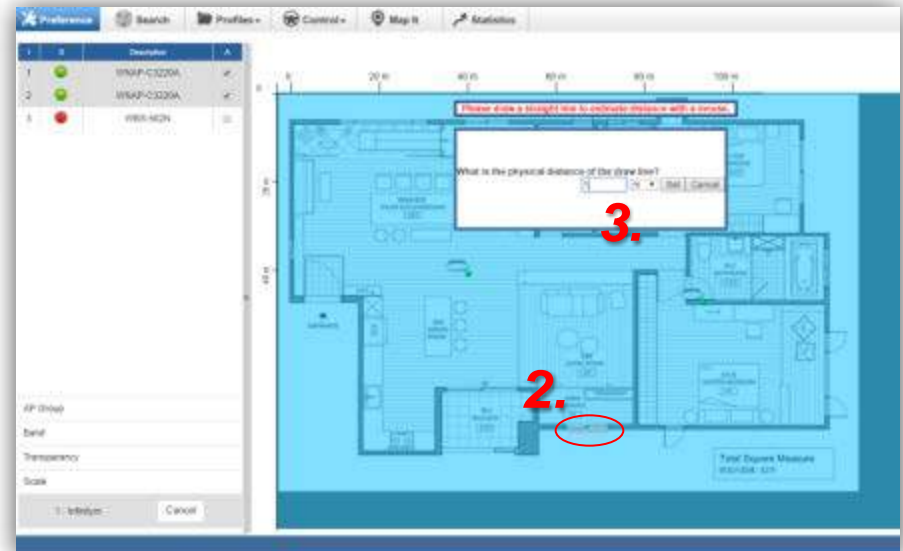


Main Menu – Map It

- **Setting Scale:** 1. Click **“Scale”** to start to reset the map scale.



- Press the **“Set”** button to draw a line on the map. Fill its physical distance in the blank and press **“Set”** or **“Cancel”**. For example, in the graph below, set the door width to 0.8 m.



Main Menu – Map It

- Drag and drop the AP onto the map or select multiple APs by clicking the checkbox.



- Once the allocation is done, click **“Save”** to save the setting.



- To upload more maps or edit current map, click the **“Edit Map”** button to re-enter the **Edit Map** page.

Main Menu – Map It

- The lower-left side area provides map control options.
- **AP Group:** To filter the managed APs shown on the map, but the selected AP group is displayed.

AP Group

W7200AC_1F

- **Band:** Select “2.4GHz” to show APs with 2.4GHz frequency or select “5GHz” to show APs with 5GHz frequency.

Band

2.4GHz 5GHz

0 100

Band

2.4GHz 5GHz

0 100

- **Transparency:** Slide the bar to adjust the transparency of the map.

Transparency

0 100



Transparency

0 100



Main Menu – Statistics



AP ID	Status	MAC Address	IP Address	Model ID	Name	Location	AP Name	SSID	Band
1	Online	88:17:4d:74:26:28	192.168.1.4	WSAP-11226A	WSAP-11226A	1.34552/171217		WSAP-11226A	5G
2	Online	88:17:4d:74:26:28	192.168.1.3	WSAP-11226A	WSAP-11226A	1.34552/171217		WSAP-11226A	5G
3	Offline	88:17:4d:74:26:28	192.168.1.224	WSAP-11226A	WSAP-11226A	1.34552/171217		WSAP-11226A	5G

[Statistics – Managed APs]

- **Managed APs:** On this page, you can observe the current configuration of all managed APs.
- **Filter:** You can filter the AP list by entering the keyword in the field next to the magnifier icon. The keyword should be any context that belongs to the fields of this page.



Client ID	MAC Address	IP Address	SSID	Client Name	Tx PPS	Rx PPS	Total Upload	RSSI (dBm)
1	88:17:4d:74:26:28	192.168.1.224	WSAP-11226A	WSAP-11226A	2.9040	92724	200	54

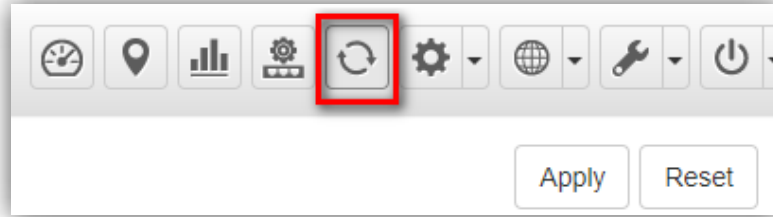
[Statistics – Active Clients]

- **Active Clients:** On this page, you can observe the statuses of all associated clients including traffic statistics, transmission speed and RSSI signal strength.
- **Filter:** You can filter the search result by entering the keywords in the field next to the magnifier icon. The keywords include MAC Address, IP Address, SSID and Band.

System Menu -- Refresh



System Menu – Refresh



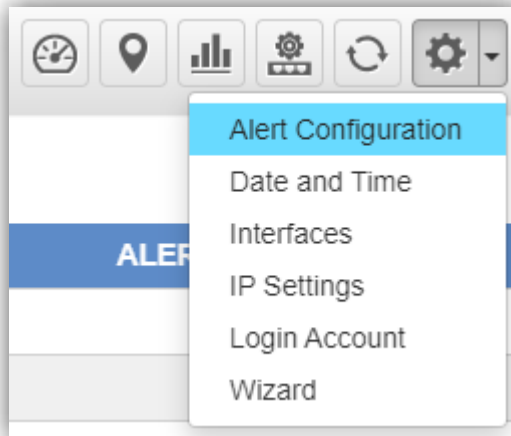
[System Menu – Refresh]

➤ **Refresh:** The page content will be updated every 1 minute automatically by default. If you require the system to update immediately, you may click "**Manually**" to refresh the page content.

System Menu -- System Configuration



System Menu – System Configuration



- **Alert Configuration:** On this page, you can configure the system event notice enable or disable by Popup Alert Message and SMTP function.
- After configuration is done, click **"Apply"** to apply the setting.

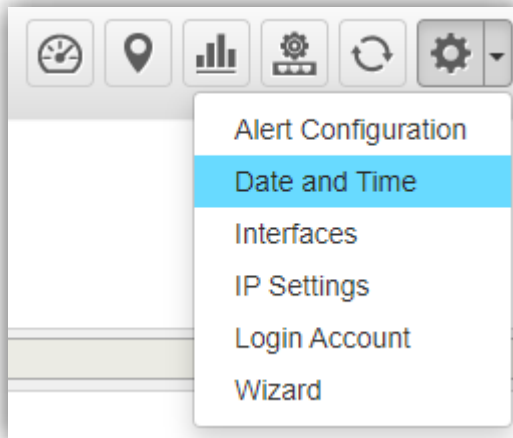
[System Menu – System Configuration]

Home > Alert Configuration Apply Reset

	ENABLE	ALERT_MESSAGE	SMTP
System Start	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
System Shutdown	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
System Reboot	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
System Firmware Upgrade Successful	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
System Firmware Upgrade Fail	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Management Add Device	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Management Delete Device	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Management Device Connect	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Management Device Disconnect	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Management Device Set Profile	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Management Device Profiles Setting Done	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Management Device Profiles Setting Failed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Web Login	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

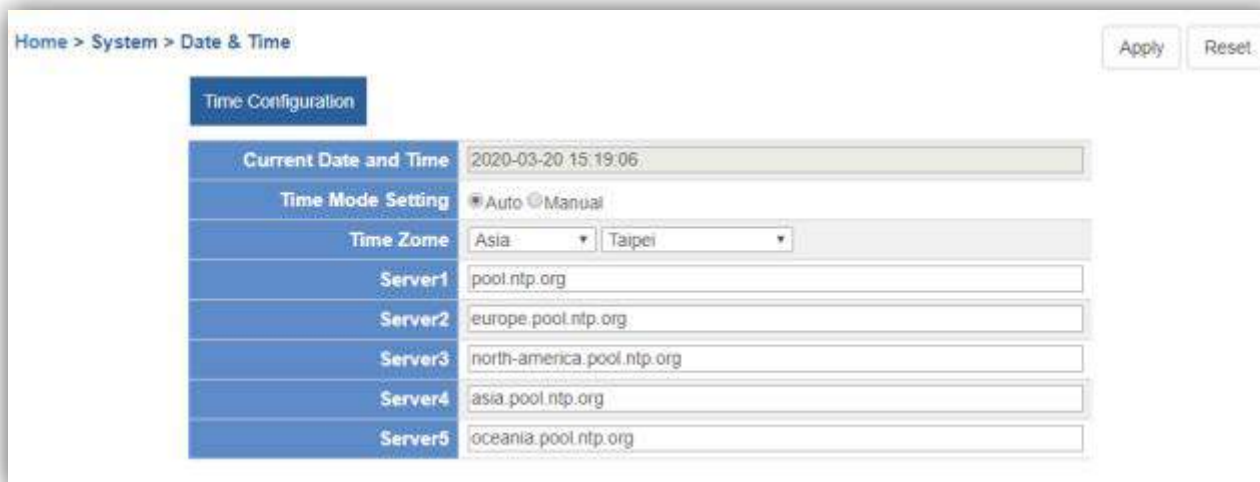
[Alert Configuration]

System Menu – System Configuration



- **Date and Time:** On this page, you can configure the Date and Time by NTP server or manual setting.
- After configuration is done, click **“Apply”** to apply the setting.

[System Menu – System Configuration]



[Date and Time configuration]

System Menu – System Configuration



- **Interface:** On the PORT page, you can see each Port status and you can configure the speed for down, auto, 10/100 Mbps HDX/FDX, and 1Gbps FDX on the Port Statistics page.
- Click "Apply" to apply the setting.

[System Menu – System Configuration]

Port Configuration		Port Statistics		
Port	Port Description	Link	Speed	
			Current	Configuration
1	<input type="text"/>	●	Down	Auto ▼
2	<input type="text"/>	●	Down	Auto ▼
3	<input type="text"/>	●	Down	Auto ▼
4	<input type="text"/>	●	Down	Auto ▼
5	<input type="text"/>	●	100Mbps FDX	Auto ▼

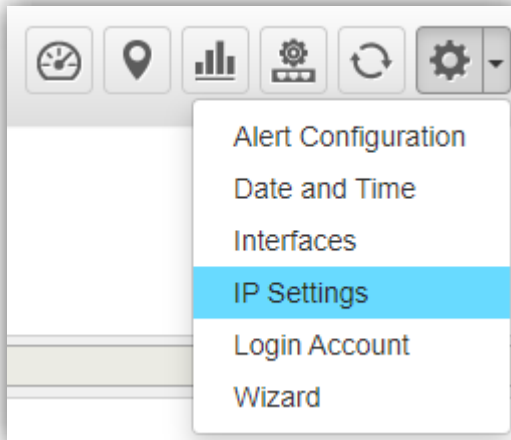
[IP Settings]

System Menu – Network Services

Port Configuration		Port Statistics							
Port	Packets		Bytes		Errors		Drops		
	Received	Transmitted	Received	Transmitted	Received	Transmitted	Received	Transmitted	
1	2234	679017	740503	2192	0	5091	0	0	
2	12321	5332879	2006673	924	0	19136	15	0	
3	7012	958520	1445023	5369	0	4726	254	0	
4	0	0	0	0	0	0	0	0	

[Port Statistics information]

System Menu – System Configuration



- **IP Settings:** On this page, you can configure the static ID of SAPC or choose it as DHCP client.
- After configuration is done, click **“Apply”** to apply the setting. The window will prompt you to change network setting that will cause the system to restart.

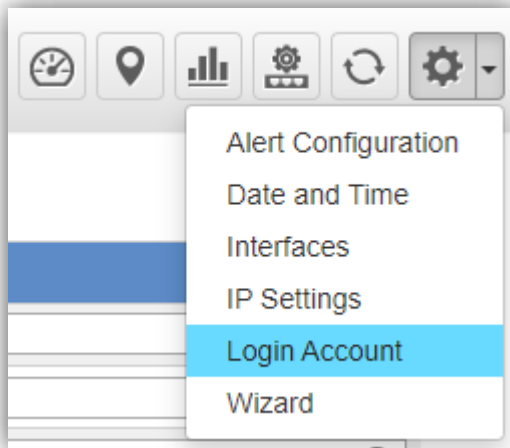
[System Menu – System Configuration]

Home > System > IP Settings Apply Reset

	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	10.1.1.3	10.1.1.3
DNS Server 2	10.1.1.4	10.1.1.4

[IP Settings]

System Menu – System Configuration



[System Menu – System Configuration]

- **Login Account:** On this page, you can modify the login user name and password.
- Enter the new user name and new password directly in the corresponding fields, and then click **"Apply"** to apply the setting. The login window will be prompted to ask you to enter the new account to re-log in the system.

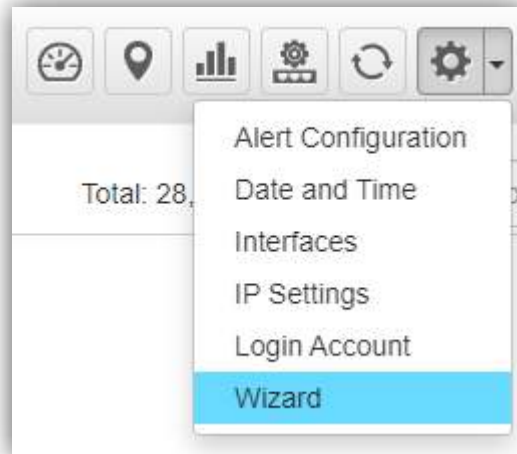
- ◆ *Please key in a new account, except using "admin"
- ◆ New Password must include at least 1*[a~z], 1*[A~Z], 1*[0~9], 1*[-, !, @, ...] and must contain at least 8 characters.



The image shows a web form titled "Home > System > Edit User". In the top right corner, there are "Apply" and "Reset" buttons. The form has a table-like structure with a blue header row labeled "Configuration". Below the header, there are three rows of input fields: "User Name" with the value "admin123", "Password" with a masked input field, and "Retype Password" with a masked input field. At the bottom of the form, there is a note: "*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*[-, !, @, ...] and must contain at least 8 character."

[Login Account]

System Menu – System Configuration



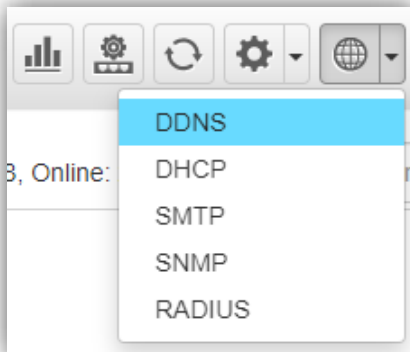
- **Wizard:** Select Wizard for setup wizard again.

[System Menu – System Configuration]

System Menu -- Network Services

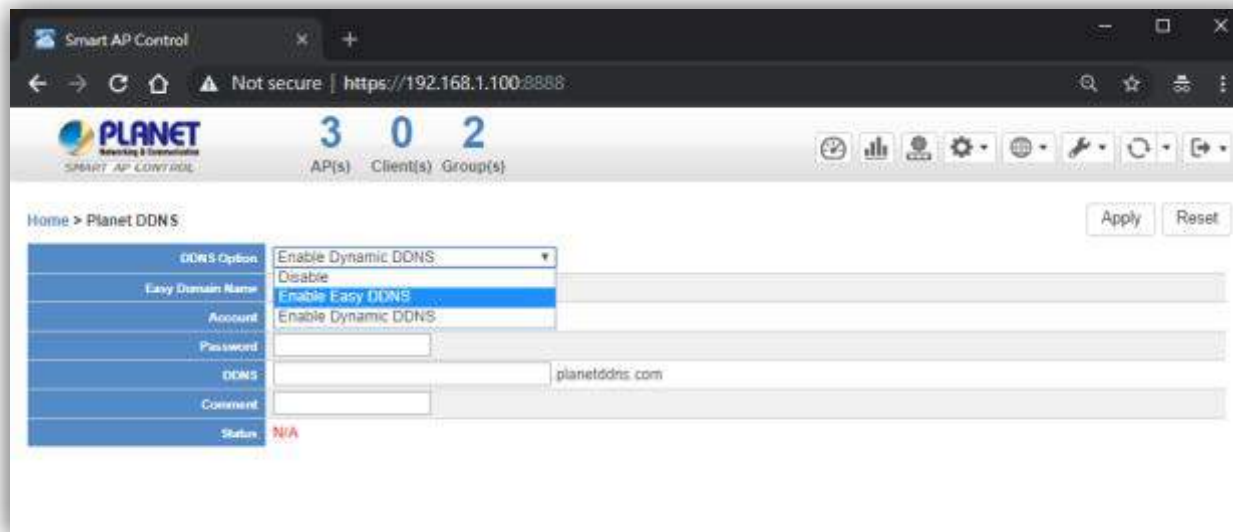


System Menu – Network Services



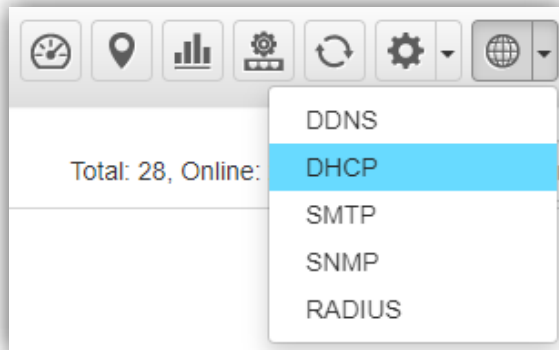
[System Menu – DDNS]

- **Network Services:** On this page, you can set up DDNS, DHCP, SMTP, SNMP, and RADIUS of the system.
- **DDNS:** Click “DDNS” to use PLANET Easy DDNS services or Dynamic DDNS. (Supports PLANET DDNS/Easy DDNS)
- Click “Apply” to apply the setting.



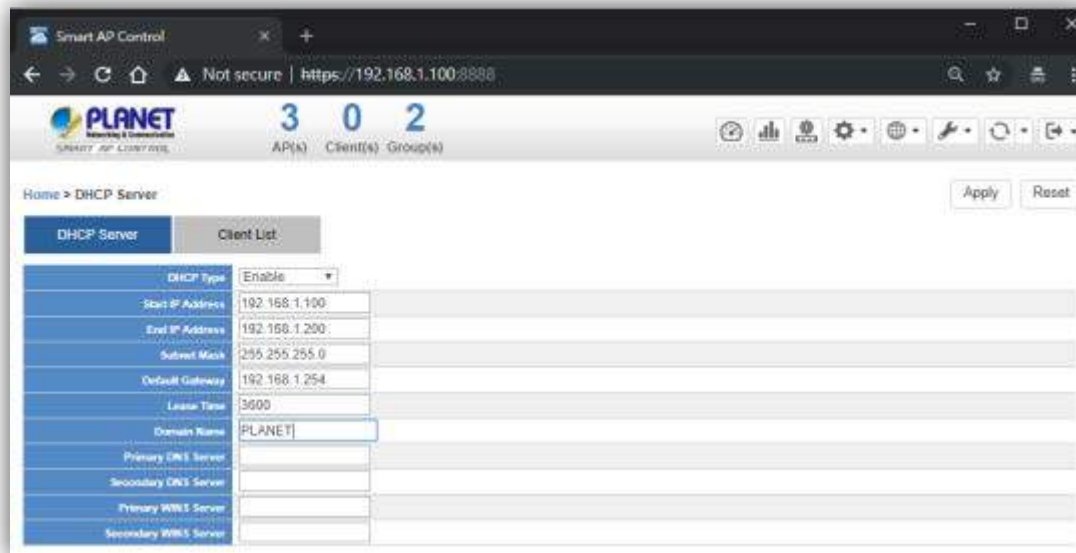
[DDNS Setting]

System Menu – Network Services



[System Menu – DHCP]

- **Network Services:** On this page, you can set up DDNS, DHCP, SMTP, SNMP, and RADIUS of the system.
- **DHCP:** On the DHCP Server page, choose “**Enable**” to use DHCP server service. On Client list page, you can see the Client detailed information.
- Click “**Apply**” to apply the setting.



[DDNS Setting]

System Menu – Network Services

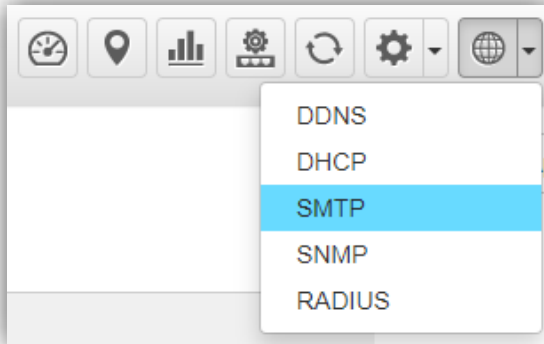


The screenshot shows the PLANET Smart AP Control web interface. The browser address bar displays "https://192.168.1.100:8088". The interface includes a navigation menu with "Home" and "DHCP Server". Under "DHCP Server", there are two tabs: "DHCP Server" and "Client List", with "Client List" being the active tab. A search bar is present with the text "Filter by MAC, IP" and a search icon. Below the search bar, there is a dropdown menu showing "10 (10 / 50)". The main content area displays a table with the following data:

IP Address	MAC Address	Start Time	End Time	Hostname	Manufacturer
192.168.1.101	40-4e:36:b3:42:95	2018-10-08 10:00:16	2018-10-08 11:00:16	android-7f11a81d28c2f5b	HTC Corporation


[Client List information]

System Menu – Network Services



[System Menu – SMTP]

- **Network Services:** On this page, you can set up DDNS, DHCP, SMTP, SNMP, and RADIUS of the system.
- **SMTP:** On the SMTP page, choose “**Enable**” to use SMTP service.
- Click “**Apply**” to apply the setting.

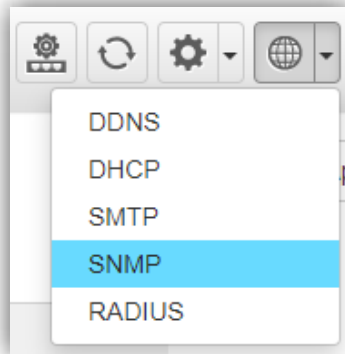


The image shows the 'SMTP Configuration' page in a web interface. The breadcrumb path is 'Home > SMTP Configuration'. There are three buttons at the top right: 'Test', 'Apply', and 'Reset'. The configuration is organized into several sections:

- SMTP Configuration:** SMTP Email Alarm is set to 'Enable'.
- External SMTP Server:** DNS or IP Address is 'smtp.domain.com or 192.168.0.1', and Port is '587'.
- Authentication:** Username is 'example@domain.com' and Password is 'Password'.
- Email Subject:** Prefix is '[NMS-500]'.
- Mail To:** A list with one entry: '1. example@domain.com'.

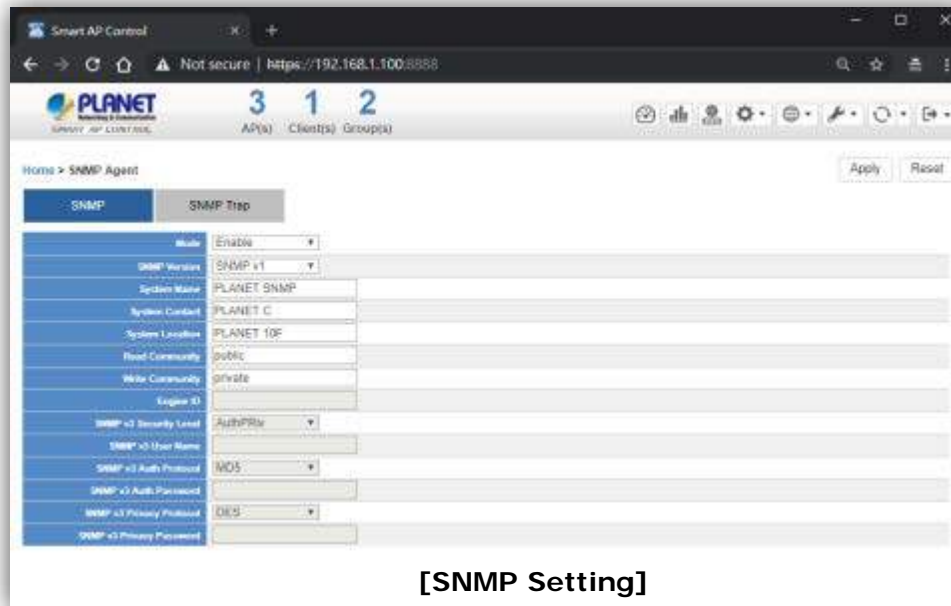
[SMTP Setting]

System Menu – Network Services



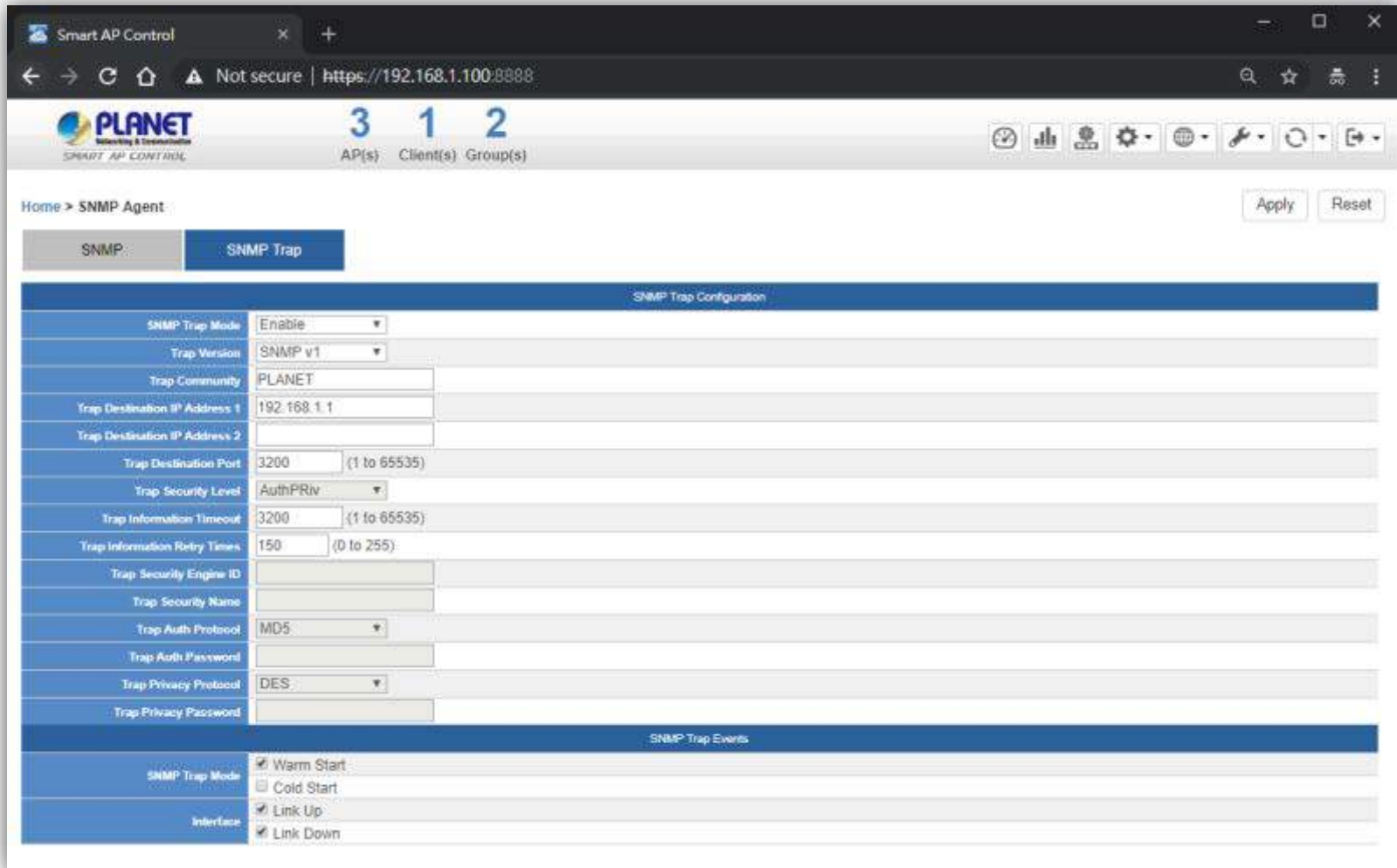
[System Menu – SNMP]

- **Network Services:** On this page, you can set up DDNS, DHCP, SMTP, SNMP, and RADIUS of the system.
- **SNMP:** On the SNMP Agent page, choose “**Enable**” to use SNMP v1, v2c, v3 service. On the SNMP Trap page, you can set up the SNMP Trap Configuration.
- Click “**Apply**” to apply the setting.



[SNMP Setting]

System Menu – Network Services



Smart AP Control | Not secure | https://192.168.1.100:8088

PLANET SMART AP CONTROL | 3 AP(s) | 1 Client(s) | 2 Group(s)

Home > SNMP Agent | Apply | Reset

SNMP | **SNMP Trap**

SNMP Trap Configuration

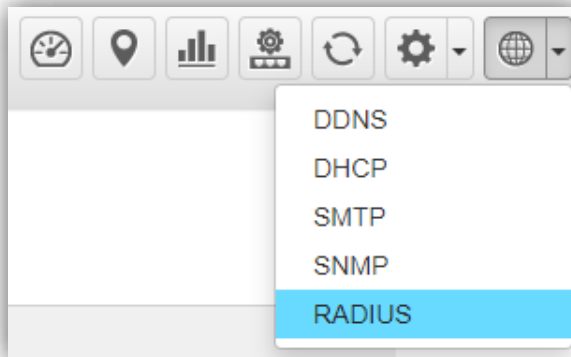
SNMP Trap Mode	Enable
Trap Version	SNMP v1
Trap Community	PLANET
Trap Destination IP Address 1	192.168.1.1
Trap Destination IP Address 2	
Trap Destination Port	3200 (1 to 65535)
Trap Security Level	AuthPriv
Trap Information Timeout	3200 (1 to 65535)
Trap Information Retry Times	150 (0 to 255)
Trap Security Engine ID	
Trap Security Name	
Trap Auth Protocol	MD5
Trap Auth Password	
Trap Privacy Protocol	DES
Trap Privacy Password	

SNMP Trap Events

SNMP Trap Mode	<input checked="" type="checkbox"/> Warm Start
	<input type="checkbox"/> Cold Start
Interface	<input checked="" type="checkbox"/> Link Up
	<input checked="" type="checkbox"/> Link Down

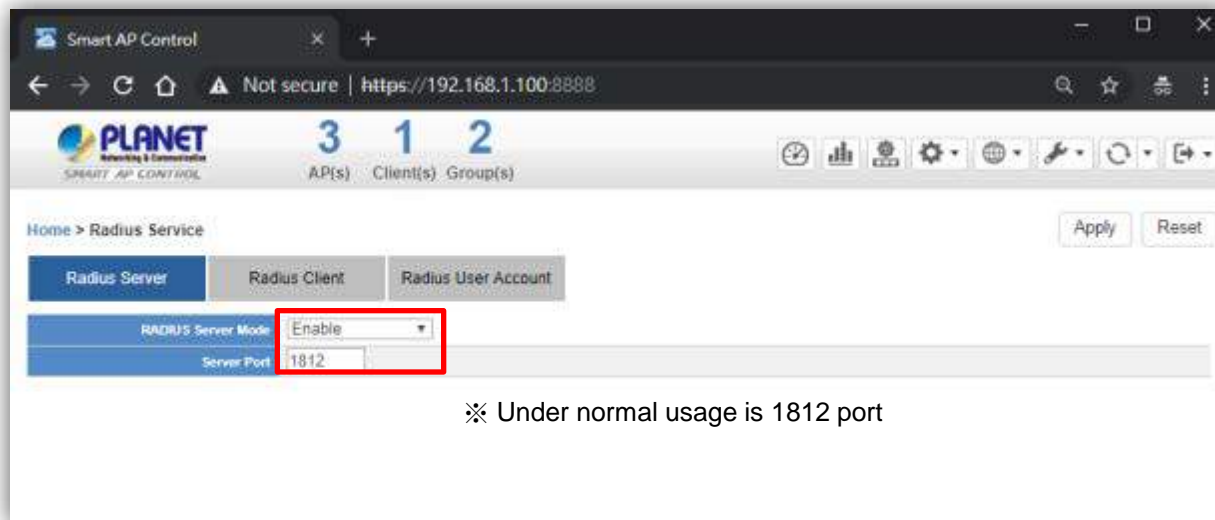
[SNMP Trap Configuration]

System Menu – Network Services



[System Menu – RADIUS]

- **Network Services:** On this page, you can set up DDNS, DHCP, SMTP, SNMP, and RADIUS of the system.
- **RADIUS:** On the RADIUS page, choose “**Enable**” to use RADIUS service. On RADIUS Client page and RADIUS User Account page, you can see the detailed information of them.
- Click “**Apply**” to apply the setting.



※ Under normal usage is 1812 port

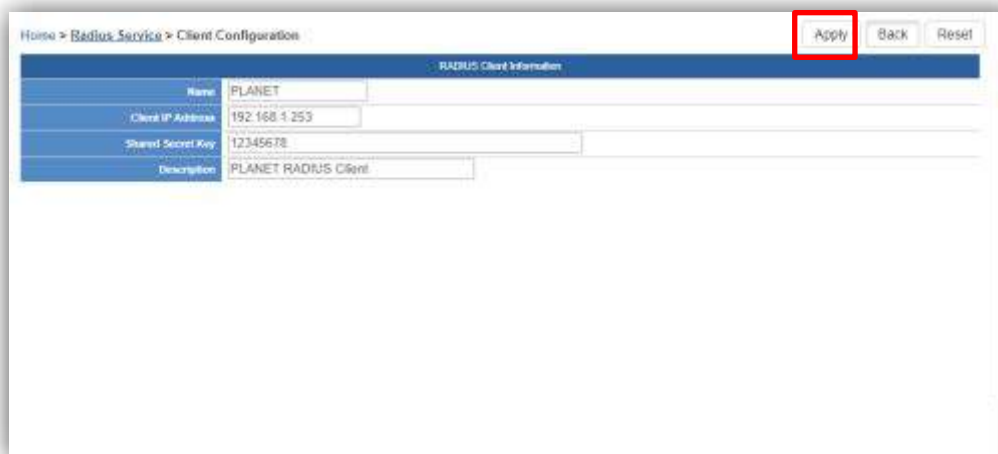
[RADIUS Setting]

System Menu – Network Services



[System Menu – RADIUS Client]

- **Add Radius Client Configuration:** On this page, you can set up Name, Client IP, Shared Secret Key, and Description of the system.
- Click “**Apply**” to apply the setting.
- **AP RADIUS Setup:** You should go to AP’s Web UI to RADIUS page to set up Radius Server IP, Password and Server Port (1812), and enable the function.





[RADIUS Client Setting]

System Menu – Network Services

Home > Radius Service

Filter by Name: 10 (10.1024)

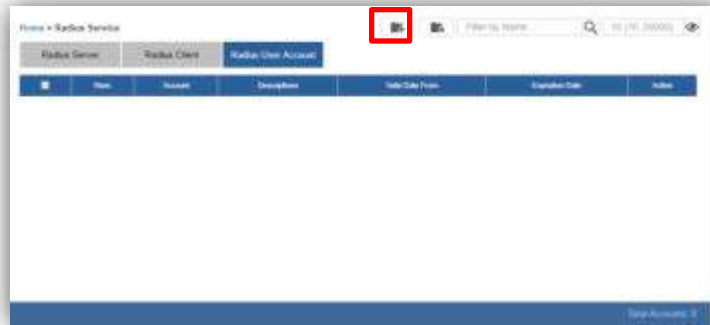
Radius Server | **Radius Client** | Radius User Account

	Num.	Name	Client IP Address	Secret Key	Description	Action
<input type="checkbox"/>	1	PLANET	192.168.1.253	12345678	PLANET RADIUS Client	 

Total Clients: 1

[RADIUS Client Setting Finished]

System Menu – Network Services



[System Menu – RADIUS]

- **Add RADIUS User Account:** On this page, you can set up Account Name, Password, Description, Validation Period information of the system.
- Click **“Apply”** to apply the setting.

User Account	
Account Name	PLANET IE
Password	*****
Confirm Password	*****
Description	PLANET Industrial Engineer
Validation Period	Enable
Valid Date From	16 Oct 2018 00:00
Expiration Date	31 Oct 2018 00:00

[RADIUS User Account Setting]

System Menu – Network Services

Home > Radius Service

Radius Server Radius Client **Radius User Account**

	Num.	Account	Description	Valid Date From	Expiration Date	Action
	1	PLANET IE	PLANET Industrial Engineer	10 Oct 2018 00:00	31 Oct 2018 00:00	 

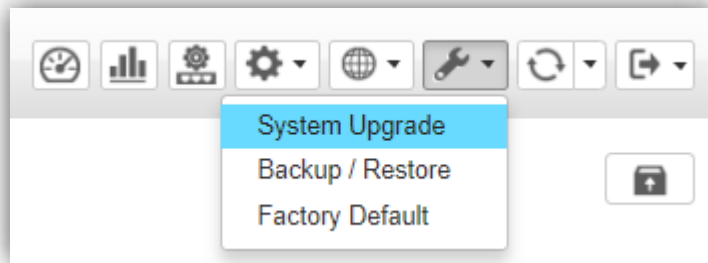
Total Accounts: 1

[RADIUS User Account Setting Finished]

System Menu -- Maintenance



System Menu – Maintenance



[System Menu – Maintenance]



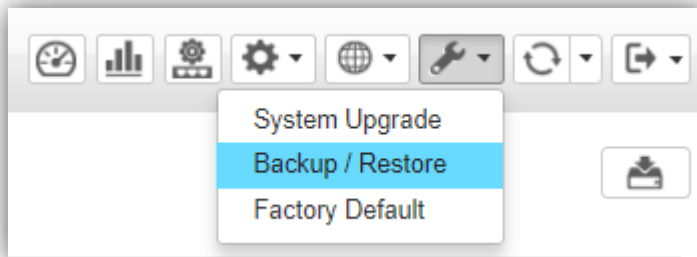
[System Upgrade]

- **System Upgrade:** On this page, you can upgrade the system to the latest version with new patch.
- Click "**Choose File**" to designate the system patch file for upgrade. Then, click the upgrade icon at the upper-right corner to start the system upgrade.
- Please regularly check PLANET official website for the system upgrade file.

- WAPC-1000 Control download path:

<https://www.planet.com.tw/en/product/wapc-1000>

System Menu – Maintenance



[System Menu – Maintenance]

- **Backup/Restore:** On this page, you can back up and restore the system profiles with the system file (*.tar.gz.enc).
- Click **"backup"** to start backing up the system profiles file in HDD or USB.
- Using the **"Choose File"** button to choose the right system profiles file and click **"restore"** to start restoring the system.
- **Please use the system default file name to restore system, or it may fail.**

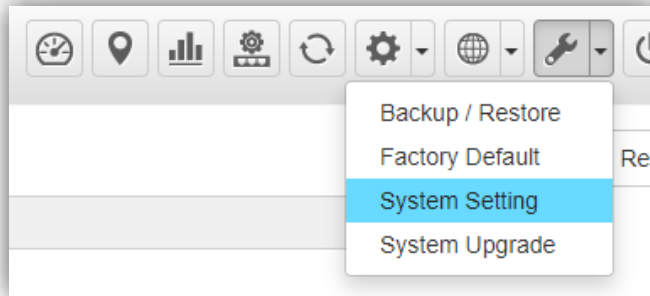


[Backup]



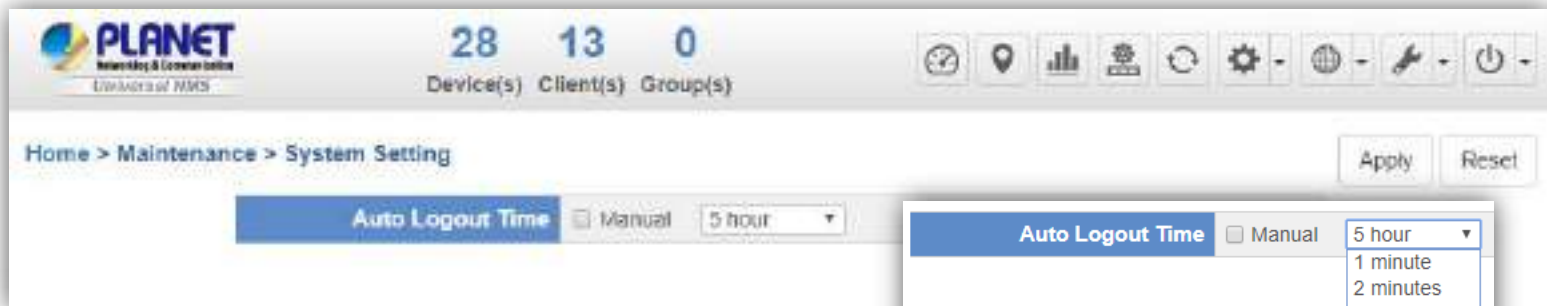
[Restore]

System Menu – Maintenance



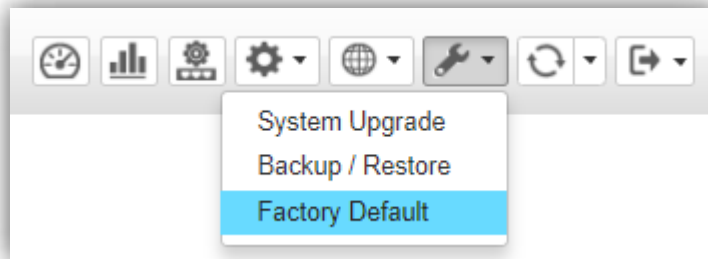
[System Menu – Maintenance]

- **System Setting:** Click “System Setting” you can set up Logout Time for manual or selection tree.



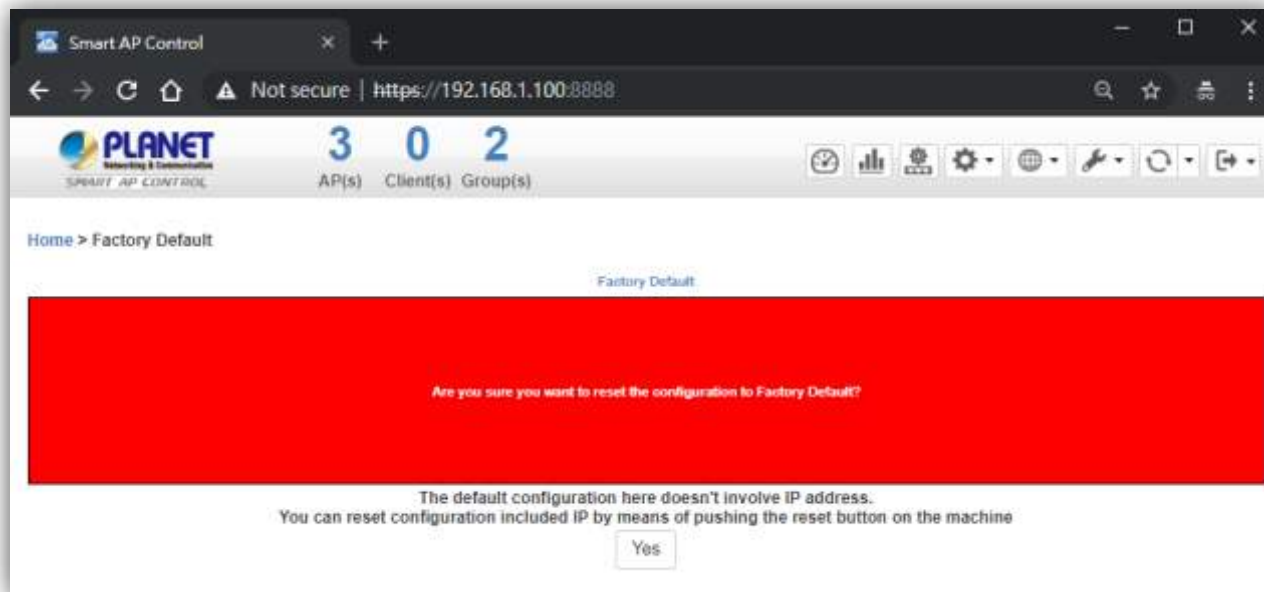
[Auto Logout Time]

System Menu – Maintenance



[System Menu – Factory Default]

- **Factory Default:** Click “Factory Default” to reset the system to factory default. Once clicked, the warning window will prompt you to reset system to default.

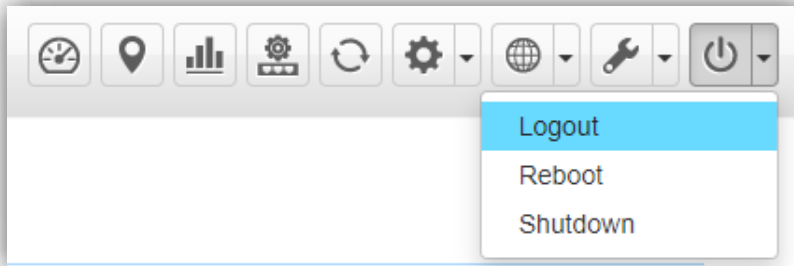


[Factory Default Warning]

System Menu -- Exit



System Menu – Exit



[System Menu – Logout]

- **Exit:** On this page, you can log out, reboot, or shut down the system.
- **Logout:** Click “Logout” to log out the system.
- Once clicked, the login window will prompt you to re-log in the system.



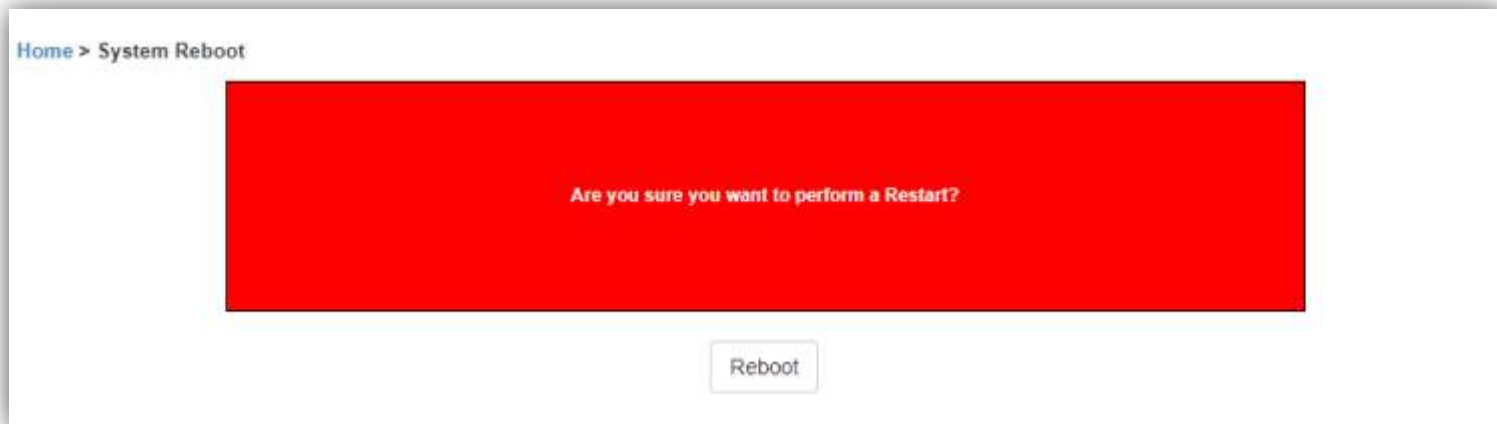
[Login Window]

System Menu – Exit



[System Menu – Reboot]

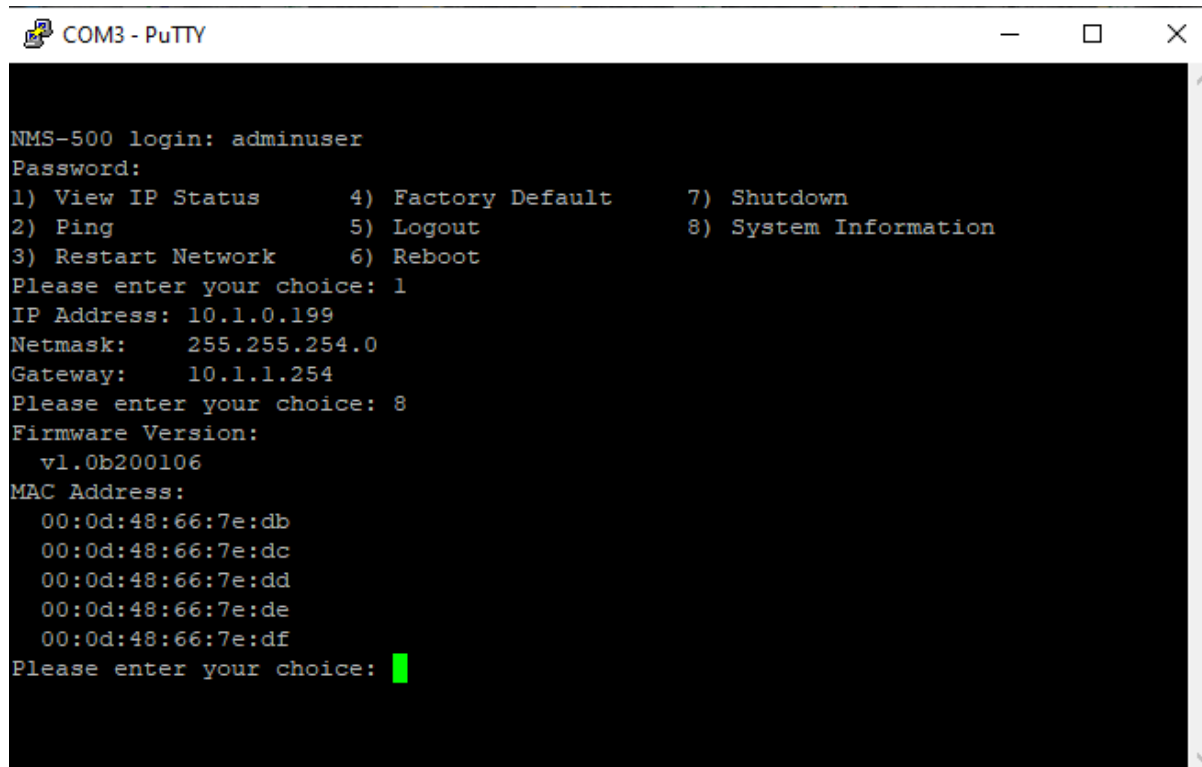
- **Logout:** On this page, you can log out, reboot, or shut down the system.
- **Reboot:** Click “**Reboot**” to restart the system.
- **Shutdown:** Click “**Shutdown**” to close the system and shut down the MV.
- Once clicked, the warning window will prompt you to reboot or shut down the system.



[Reboot Warning]

Console

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



```
COM3 - PuTTY
NMS-500 login: adminuser
Password:
1) View IP Status      4) Factory Default    7) Shutdown
2) Ping                5) Logout             8) System Information
3) Restart Network    6) Reboot
Please enter your choice: 1
IP Address: 10.1.0.199
Netmask: 255.255.254.0
Gateway: 10.1.1.254
Please enter your choice: 8
Firmware Version:
v1.0b200106
MAC Address:
00:0d:48:66:7e:db
00:0d:48:66:7e:dc
00:0d:48:66:7e:dd
00:0d:48:66:7e:de
00:0d:48:66:7e:df
Please enter your choice: █
```

- ◆ When the “preferred command” appears, please enter “No.3” to restart network command. (It will not be necessary if you cannot be connected to UNI-NMS Web UI.)



ACTIVATING IP POWER