

Quick User Guide NMS-1000V



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OVERVIEW

Overview

➤ Main Features:

Dashboard	Providing the at-a-glance view of system, device summary, traffic, PoE network status
Wizard setup	Easy to use step-by-step guidance
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 and system log
Alarm System	Popup alerts and email alerts for 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 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	50 floor maps, 1024 nodes, 128 AP groups, 128 SSID profiles, 1024 managed APs, 20,000 clients, 20,000 RADIUS user accounts, 50 RADIUS user groups and 1024 RADIUS clients

Overview

➤ Network Management Characteristics

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

➤ Industrial-grade Physical Hardware

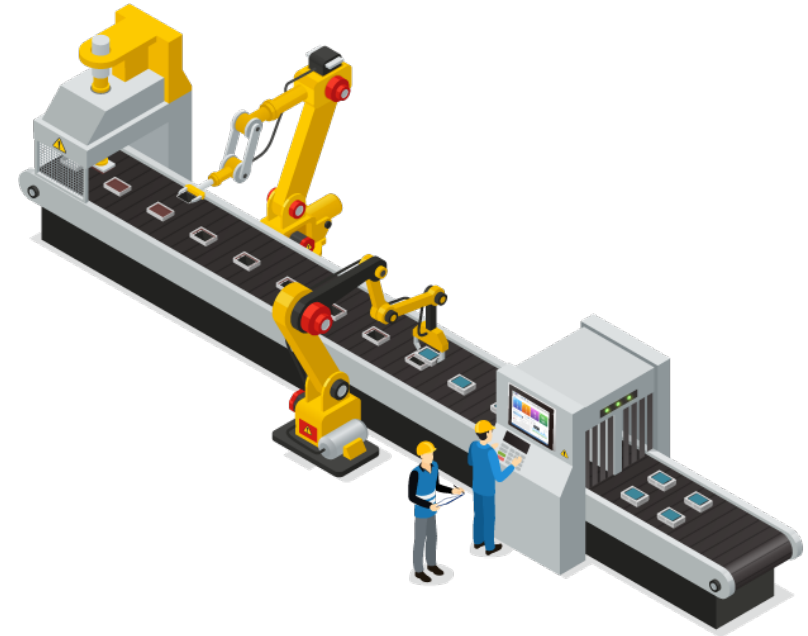
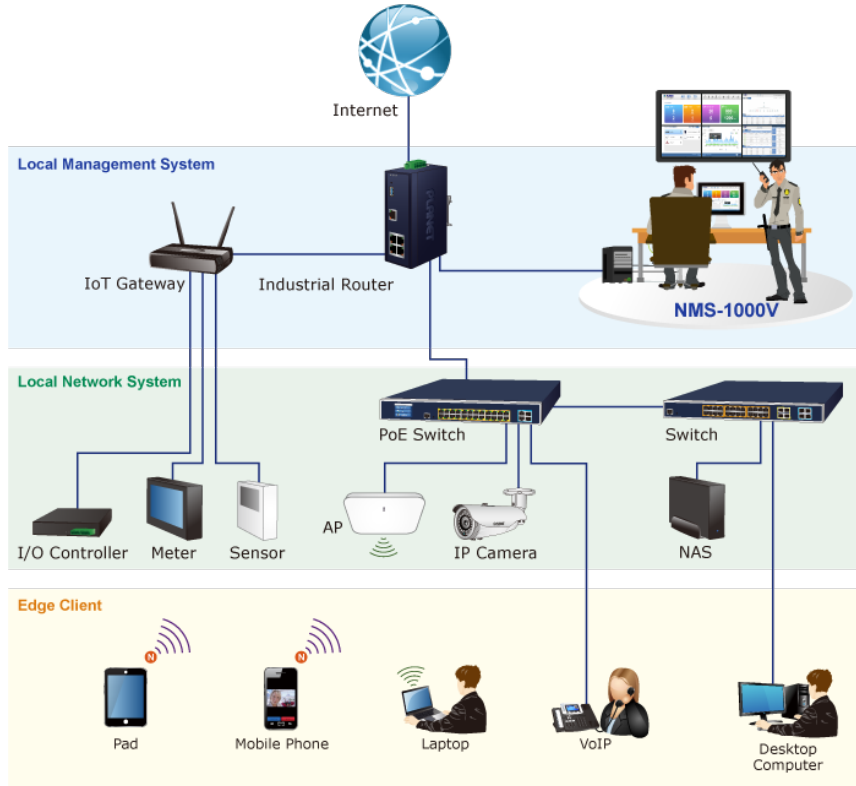
- 2 10/100/1000BASE-T Gigabit Ethernet RJ45 ports
- 2 USB 3.0 ports for configuration backup and restoration
- 1 audio line out (reserve)
- 1 HDMI interface
- 2 DB-9 COM1,COM2 (reserved)
- 1 3-pin DC power input terminal
- 1 2-pin connector for power on/off button (reserve)
- VESA (100 x 100) panel mount

➤ Physical Specifications

Storage	2.5" 32G SATA3 HDD	
Touch LCD Size	NMS-1000V-12: 12.1" TFT-LCD	NMS-1000V-10: 10.1" TFT-LCD
Touch Type	Resistive Touch Window Projected Capacitive Touch	
Display Resolution	NMS-1000V-12: 1024 x 768	NMS-1000V-10: 1280 x 800
Display Luminance (cd/m ²)	NMS-1000V-12: 500	NMS-1000V-10: 350
Display Viewing Angle (H°/V°)	NMS-1000V-12: 160(H)/140(V)	NMS-1000V-10: 160(H)/160(V)
Display Contrast	NMS-1000V-12: 700:1	NMS-1000V-10: 800:1
Display Backlight Lifetime (hrs.)	NMS-1000V-12: 30,000 hrs.	NMS-1000V-10: 40,000 hrs.
Light Transmission (%)	Resistive Touch Window: over 80% Projected Capacitive Touch: over 90%	
Dimensions (W x D x H)	NMS-1000V-12: 319 x 51.7 x 245 mm	NMS-1000V-10: 285 x 49 x 189 mm
Weight	NMS-1000V-12: 2.9 kg	NMS-1000V-10: 2 kg
Enclosure	Aluminum Die-casting Chassis	
Power Requirements	DC IN 9~36V 60W adapter 12V 5A with terminal block AC 100~240V, 2.0A, 60~50Hz.	

APPLICATIONS

Applications



BEFORE FIRST LOGIN

Front & Rear Panels

◆ Front Panel

Power LED(Green)



Front & Rear Panels

◆ Back Panel



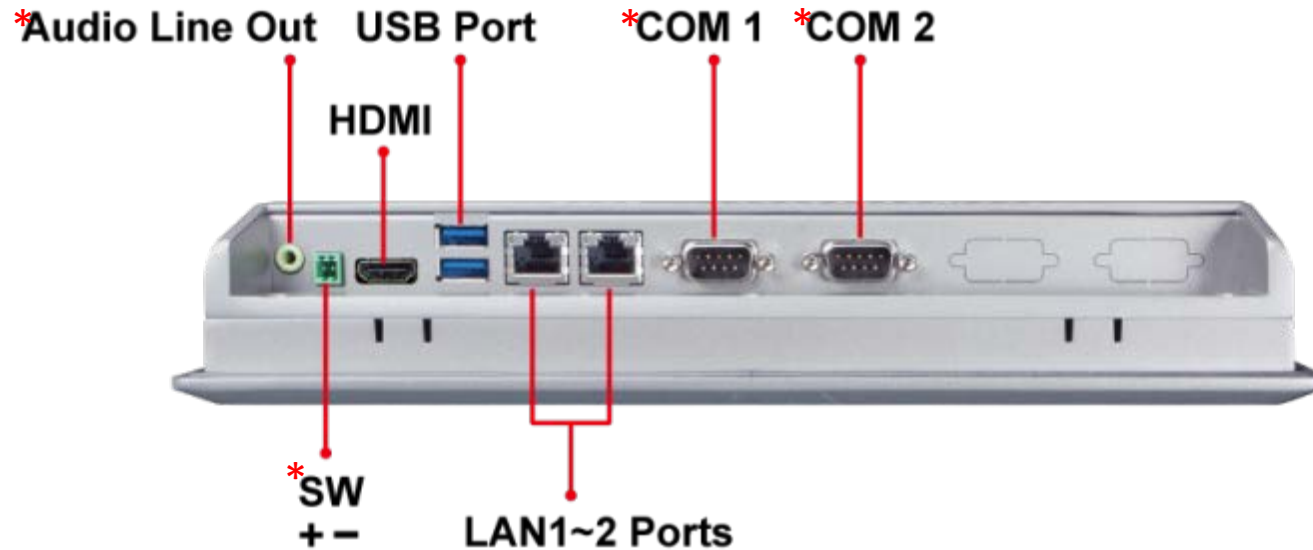
9-36V DC IN



*Just connect NMS-1000V DC IN to turn on system.

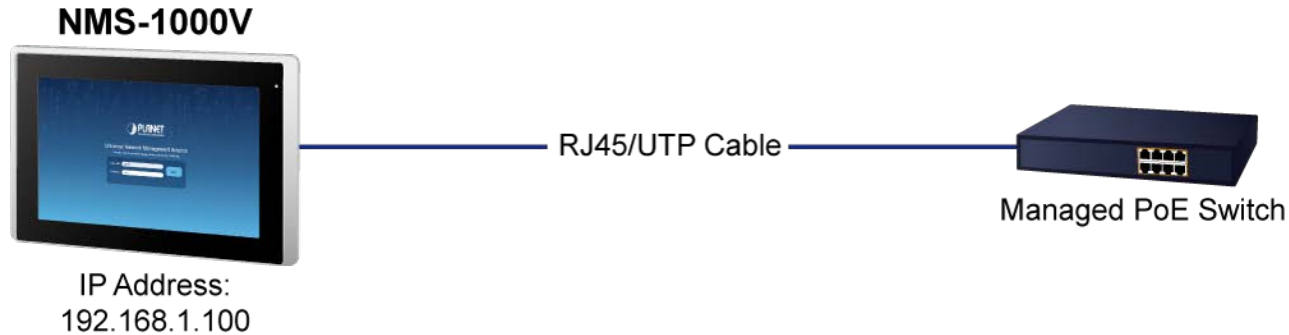
Front & Rear Panels

◆ Bottom Panel



*.Function reserved

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.

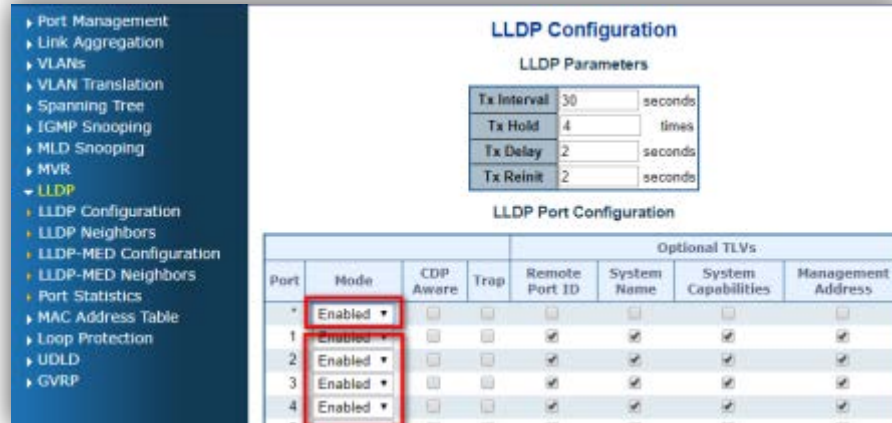
AP: Log in to the AP's Web User Interface and refer to Figure 3 below to configure the AP to "Managed AP". Then, click "Apply Change". To support SNMP AP, enable the SNMP function.

IP Cam: The ONVIF function is enabled by default.

Device Setting



(Figure 1)



(Figure 2)

Device Setting

Setup Menu:	Operation Mode
> Operation Mode	AP Operation mode configuration is used to configure the managed AP administrative mode.
> Setup Wizard	
> WLAN1 (5 GHz)	<input type="radio"/> Standalone AP In Mode Standalone AP , the AP acts as an individual AP in the network, and you manage it by using the Administrator Web User Interface (UI), or SNMP.
> WLAN2 (2.4 GHz)	<input checked="" type="radio"/> Managed AP 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.
> TCP / IP Settings	<input type="checkbox"/> AP Controller IP Address <input type="text" value="0.0.0.0"/>
> Management	
> Logout	

(Figure 3)

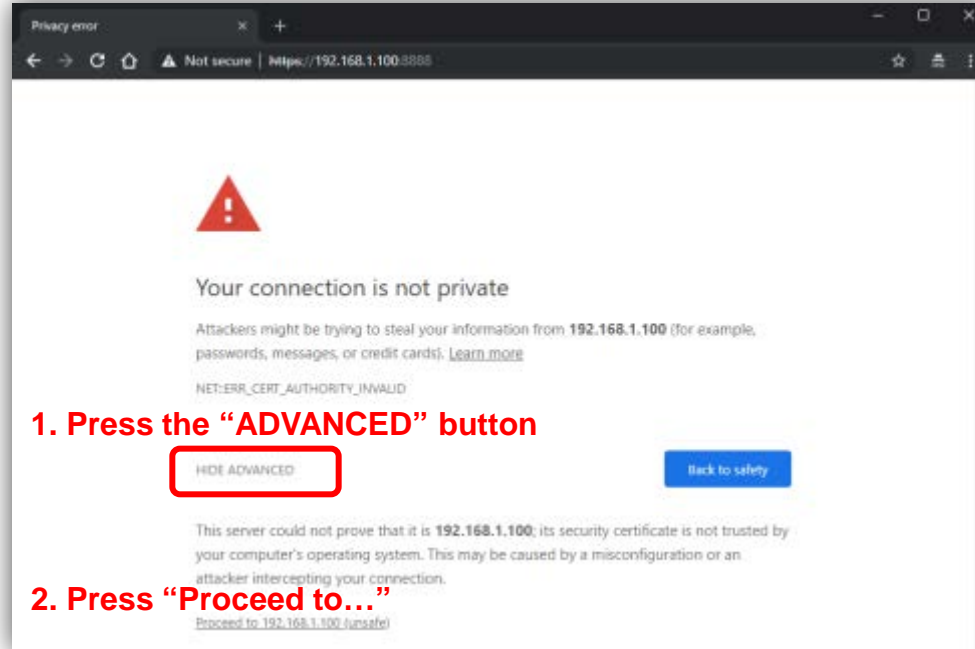
Logging in NMS

- ◆ Username: admin
- ◆ Password: admin



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 768](#))



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

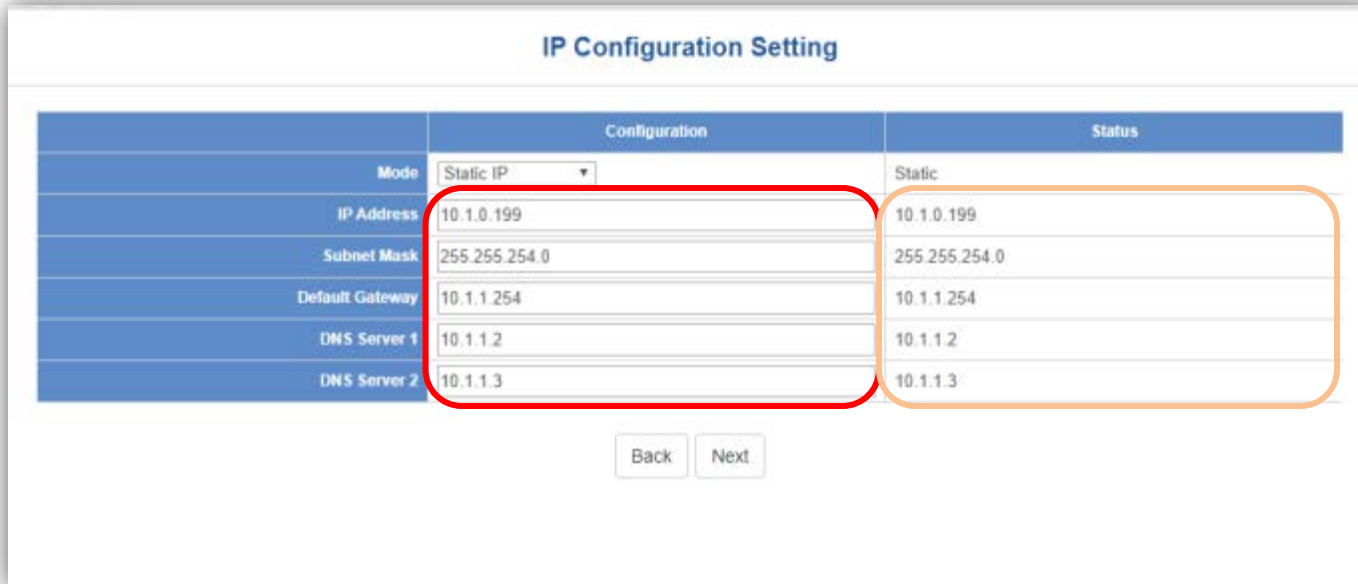
*Please key in a new account, except using "admin"
New Password must be included at least 1*[a~z], 1*[A~Z], 1*[0~9], 1*[~, !, @, ..., w/o "?"]

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.



	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.

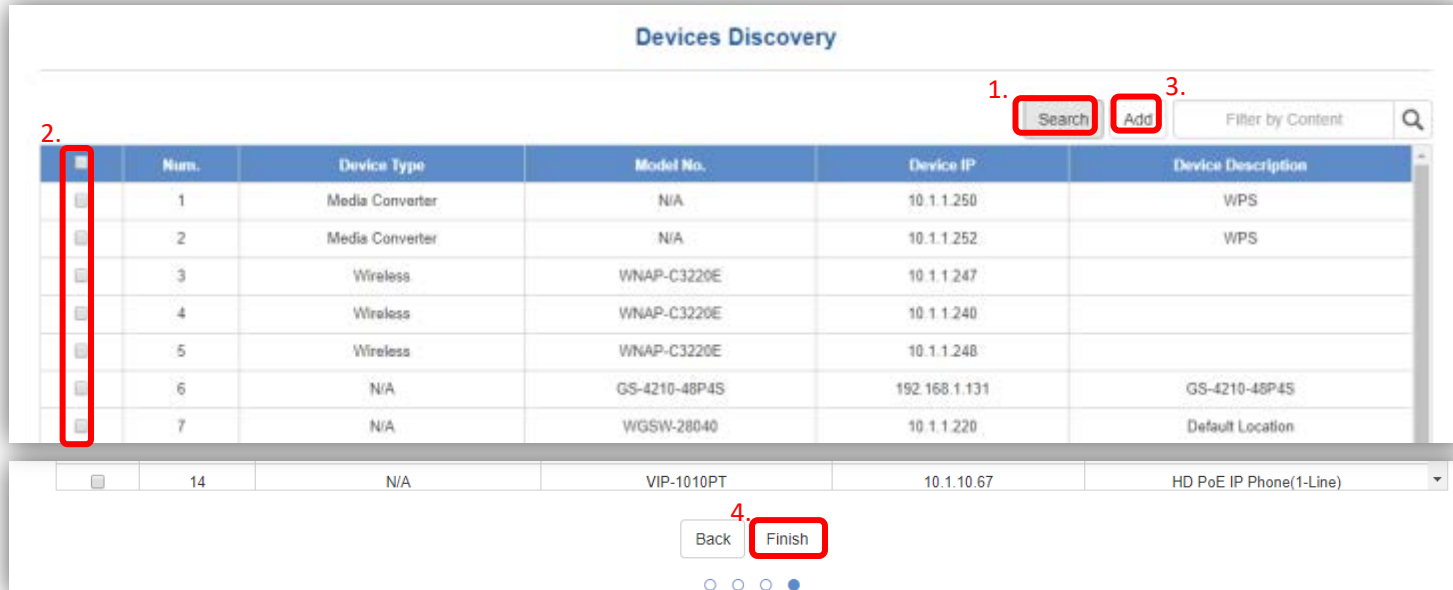
SNMP Preference Setting

		Configuration
Region *	<input type="text" value="ETSI"/>	
RO Community	<input type="text" value="public"/>	
RW Community	<input type="text" value="private"/>	

*Select Region for AP Control (ETSI or FCC)

Devices Discovery

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



The screenshot shows the 'Devices Discovery' wizard interface. It features a table with columns for 'Num.', 'Device Type', 'Model No.', 'Device IP', and 'Device Description'. A vertical column of checkboxes is on the left side of the table. At the top right, there are 'Search' and 'Add' buttons. At the bottom, there are 'Back' and 'Finish' buttons. A progress indicator at the very bottom shows four circles, with the fourth circle filled, indicating the current step.

	Num.	Device Type	Model No.	Device IP	Device Description
<input type="checkbox"/>	1	Media Converter	N/A	10.1.1.250	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-4210-48P4S	192.168.1.131	GS-4210-48P4S
<input type="checkbox"/>	7	N/A	WGSW-28040	10.1.1.220	Default Location

Summary Row: 14 N/A VIP-1010PT 10.1.10.67 HD PoE IP Phone(1-Line)

MAIN UI INTRODUCTION

Home Page - Dashboard UI Structure



The dashboard home page is structured as follows:

- A:** Header bar containing the PLANET logo, summary statistics (40 Device(s), 80 Client(s), 10 Group(s)), and a navigation menu with icons for Home, Location, Reports, Settings, Refresh, System Settings, Global, Tools, and Power.
- B:** Main dashboard area containing four summary cards:
 - Switch:** 8 Online, 2 Offline
 - Router:** 2 Online, 1 Offline
 - Wireless AP:** 20 Online, 0 Offline
 - PoE:** 800 Watts Total Usage, 1200 Watts Total Budget
- C:** The four summary cards mentioned in B.
- D:** Device Type Summary table:

Device Type	Count
Switch	7
IP Camera	20
Unknown	2
Industrial Automation	3
Wireless(AP)	5
- E:** History Graph showing Traffic (PoE) for WAN 1 over a 1-day period. A tooltip for 3/4/2020 12:35:30 PM shows Rx: 32.5 Mbps and Tx: 8.3 Mbps.
- F:** Footer bar containing the copyright notice: Copyright © PLANET Technology Corporation. All rights reserved. and a chat icon.

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), clients (total active clients), device groups (total groups) 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. Advanced Graph: future feature 4. AP Control: 1. Preference, 2. Profiles, 3. Control, 4. Map It and 5. 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, and 5. RADIUS Service, 8. Maintenance: System upgrade, backup and restoration, factory default, system setting. 9. Exit: Click to opt for the logout, reboot or shutting down of the system
C	Local Site Information	<ol style="list-style-type: none"> 1. Switch status, 2. Router status, 3. Access Point status and 4. Total PoE status, <p>*Click Device type button to filter each type of device via device list.</p>
D	Device Type Summary	Show the real-time total quantity of devices under different types
E	History Graph	Show the history graph of WAN traffic / total PoE usage and budget
F	Popup Alert Message Window	Open to show the system event instantly

DASHBOARD INTRODUCTION

Dashboard - Local Site Information

- **Local Site Information:** In this area, you can view 1. Switch, 2. Router , 3. Access Point online/off status and 4. Total PoE usage and budget status.
- Click Router “>” button to see the WAN real-time traffic throughput of Mbps, Kbps... . Click Router “<” button to go back to status.



Dashboard (Home)

- Click the Device type button to filter each type device via device list.

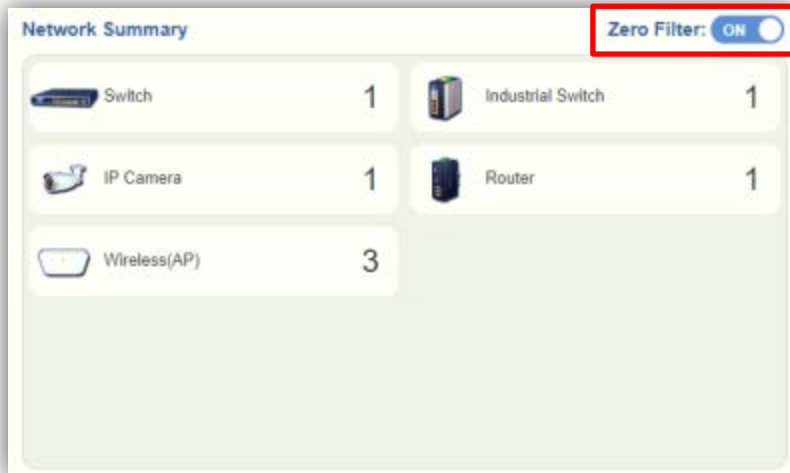



Status	Group	MAC Address	Device Type	Model No.	Version	IP Address	Device Description	Authorization Status	Action
Online		a8:f7:e0:62:31:80	Industrial Switch	IGS-5225-8P48	v3.440b200331	192.168.1.160	IE L2+ Managed PoE+ Switch	Online	[Refresh] [Edit] [Delete]
Online		a8:f7:e0:65:ed:e1	Switch	GS-4210-8P26	v2.308b200330	192.168.1.148	L2/L4 Managed PoE Switch	Online	[Refresh] [Edit] [Delete]

- **Switch:** Click the “Switch Button” to filter the type of Switch, Industrial Switch, and Media Converter.
- **Router:** Click to “Router Button” to filter the type of Router.
- **Wireless AP:** Click the “Wireless AP Button” filter the type of Wireless (AP).

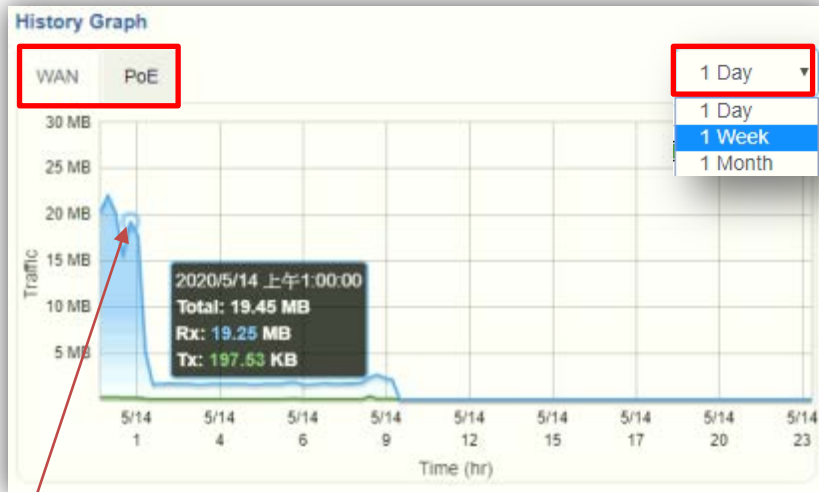
Dashboard - Device Type Summary

- **Device Type Summary** : Show the real-time total quantity of devices under different types.
- **Open the “Zero Filter Button”** to filter the 0 quantity of devices type not shown. If this function is closed, you can see all types that NMS can manage.
- Click the Device type button to filter each type of device via device list.



Dashboard - History Graph

- **History Graph:** Show the history graph of WAN traffic / total PoE usage and budget.
- Press the “WAN” or “PoE” sheet button to change the type of history graph. Press the “Interval Button” to change the interval for day, week, or month. Then you can see the WAN traffic / total PoE usage and budget.



*Moving finger or mouse cursor on graph can let you see the detailed information.

FOOTER INTRODUCTION

Footer - Popup Alert Message

- **Popup Alert Message** : Click the “Message” icon (No. 1) to show the last 30 system events in popup window.
- The last event will be shown on the top page; press the “X” icon (No. 2) to close each message.

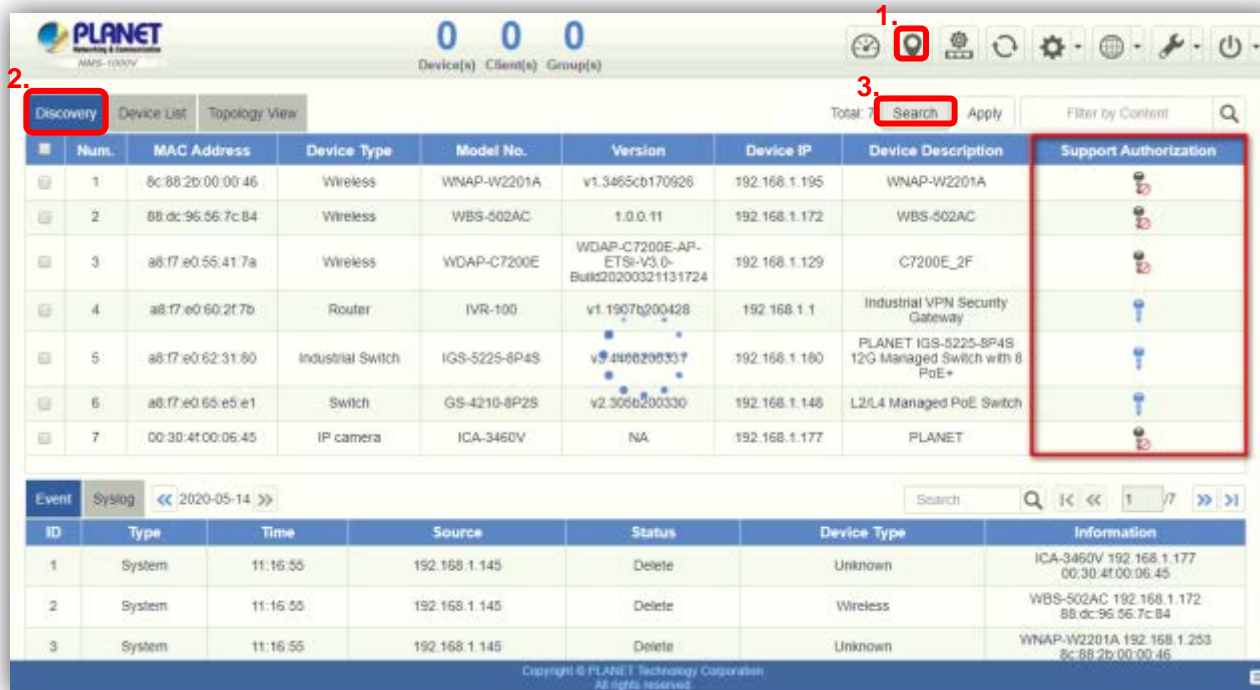


The screenshot displays the PLANET network management interface. The main dashboard shows various device categories like Switch, Router, and Wireless AP, each with a status indicator (Online/Offline). A 'Network Summary' section lists different device types with their counts. A 'History Graph' shows traffic usage over time. An 'Alert Message' popup window is open on the right, showing a list of system events with details such as Status, Device Type, Information, Time, and Status. A red box labeled '1.' points to a message icon in the bottom right corner of the dashboard, and another red box labeled '2.' points to an 'X' icon in the top right corner of the alert message window.

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.



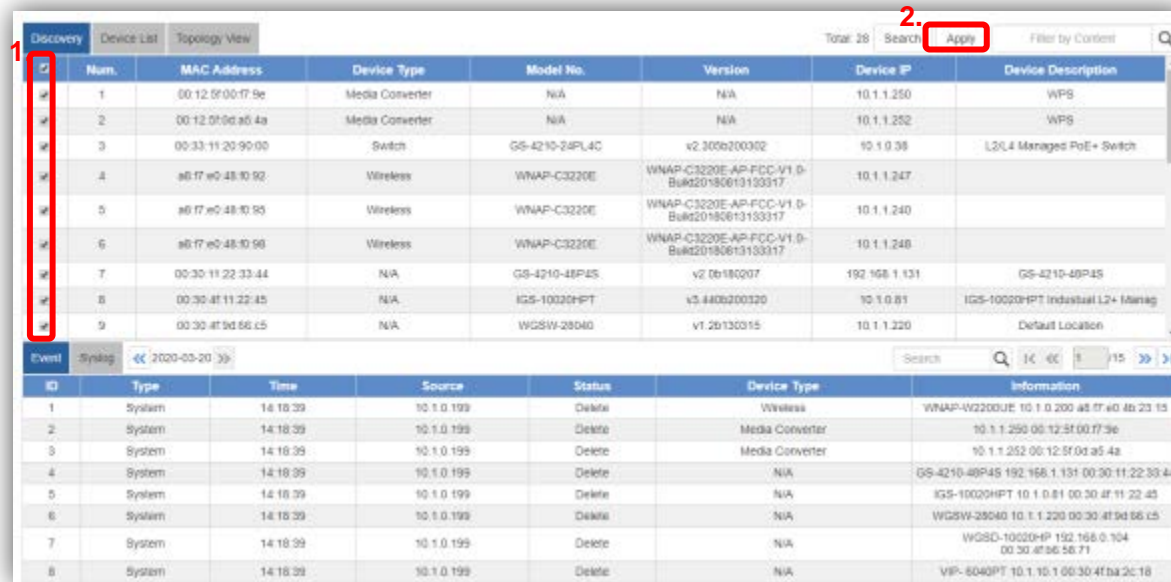
Num.	MAC Address	Device Type	Model No.	Version	Device IP	Device Description	Support Authorization
1	8c:8b:2b:00:00:46	Wireless	WNAP-W2201A	v1.3465cb170926	192.168.1.195	WNAP-W2201A	Not supported
2	88:dc:96:56:7c:84	Wireless	WBS-502AC	1.0.0.11	192.168.1.172	WBS-502AC	Not supported
3	a8:f7:e0:55:41:7a	Wireless	WDAP-C7200E	WDAP-C7200E-AP-ETSI-V3.0-Bulk20200321131724	192.168.1.129	C7200E_2F	Not supported
4	a8:f7:e0:60:2f:7b	Router	IVR-100	v1.1907b200428	192.168.1.1	Industrial VPN Security Gateway	Supported
5	a8:f7:e0:62:31:80	Industrial Switch	IGS-5225-8P4S	v3.4868200331	192.168.1.180	PLANET IGS-5225-8P4S 12G Managed Switch with 8 PoE+	Supported
6	a8:f7:e0:65:e5:e1	Switch	GS-4210-8P2S	v2.3006200330	192.168.1.148	L2/L4 Managed PoE Switch	Supported
7	00:30:4f:00:05:45	IP camera	ICA-3450V	NA	192.168.1.177	PLANET	Not supported

➤ **Support Authorization:** If the devices support MQTT protocol, the status will show “Blue Key”.

Key	Status
	Supported
	Not supported
	Managed by the other 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.



The screenshot shows a network management interface with two main sections. The top section is a table for device discovery, and the bottom section is an event log.

Discovery Table:

Num.	MAC Address	Device Type	Model No.	Version	Device IP	Device Description
1	00:12:5f:00:17:3e	Media Converter	N/A	N/A	10.1.1.250	WPS
2	00:12:0f:6d:a5:4a	Media Converter	N/A	N/A	10.1.1.252	WPS
3	00:33:11:20:90:00	Switch	GS-4210-24PL4C	v2.300b200302	10.1.0.38	L2/L4 Managed PoE+ Switch
4	a6:17:e0:48:10:92	Wireless	WNAP-C3220E	WNAP-C3220E-AP-FCC-V1.0-Bulk20190613193317	10.1.1.247	
5	a6:17:e0:48:10:95	Wireless	WNAP-C3220E	WNAP-C3220E-AP-FCC-V1.0-Bulk20190613193317	10.1.1.240	
6	a6:17:e0:48:10:98	Wireless	WNAP-C3220E	WNAP-C3220E-AP-FCC-V1.0-Bulk20190613193317	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

Event Log Table:

ID	Type	Time	Source	Status	Device Type	Information
1	System	14:18:39	10.1.0.199	Delete	Wireless	WNAP-VG200UE 10.1.0.200 a5:17:e0:4b:23:15
2	System	14:18:39	10.1.0.199	Delete	Media Converter	10.1.1.250 00:12:5f:00:17:3e
3	System	14:18:39	10.1.0.199	Delete	Media Converter	10.1.1.252 00:12:0f:6d: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	WGSW-10020HP 192.168.0.104 00:30:4f:9d:66:c5
8	System	14:18:39	10.1.0.199	Delete	N/A	VF-6040PT 10.1.10.1.00:30:4f:ba:2c:18

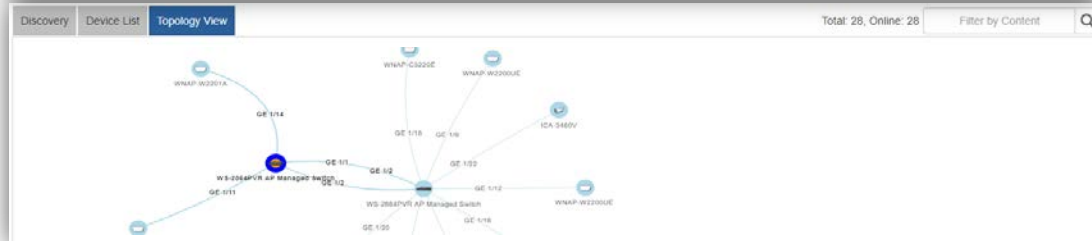
Device List and Topology View

- ◆ Press “Device List” to see the device status.
- ◆ Press “Topology View” to see the domain network topology after one minute.
- ※If you do not see the topology, please check devices to enable SNMP and LLDP function.

Discovery	Device List	Topology View	Total: 7, Online: 7					Filter by Content	
Status	Group	MAC Address	Device Type	Model No.	Version	IP Address	Device Description	Authorization Status	Action
		00:30:4f:00:05:45	IP camera	ICA-3460V	N/A	192.168.1.177	PLANET		
		58:dc:96:56:7c:84	Wireless	WBS-502AC	1.0.0.11	192.168.1.172	WBS-502AC		
		8c:88:2b:00:00:45	Wireless	WNAP-W2201A	v1.3465cb170926	192.168.1.195	WNAP-W2201A		
		a8:f7:e0:55:41:7a	Wireless	WDAP-C7200E-AP-ETSI-V3.0-5uk8202003211317-24		192.168.1.129	C7200E_2F		
		a8:f7:e0:60:2f:7b	Router	IVR-100	v1.19076200428	192.168.1.1	PLANET IVR-100 VPN Gateway		
		a8:f7:e0:62:31:80	Industrial Switch	IGS-5225-8P4S	v3.440b200331	192.168.1.180	IE L2+ Managed PoE+ Switch		
		a8:f7:e0:55:e5:e1	Switch	GS-4210-8P2S	v2.305b200330	192.168.1.148	L2/L4 Managed PoE Switch		

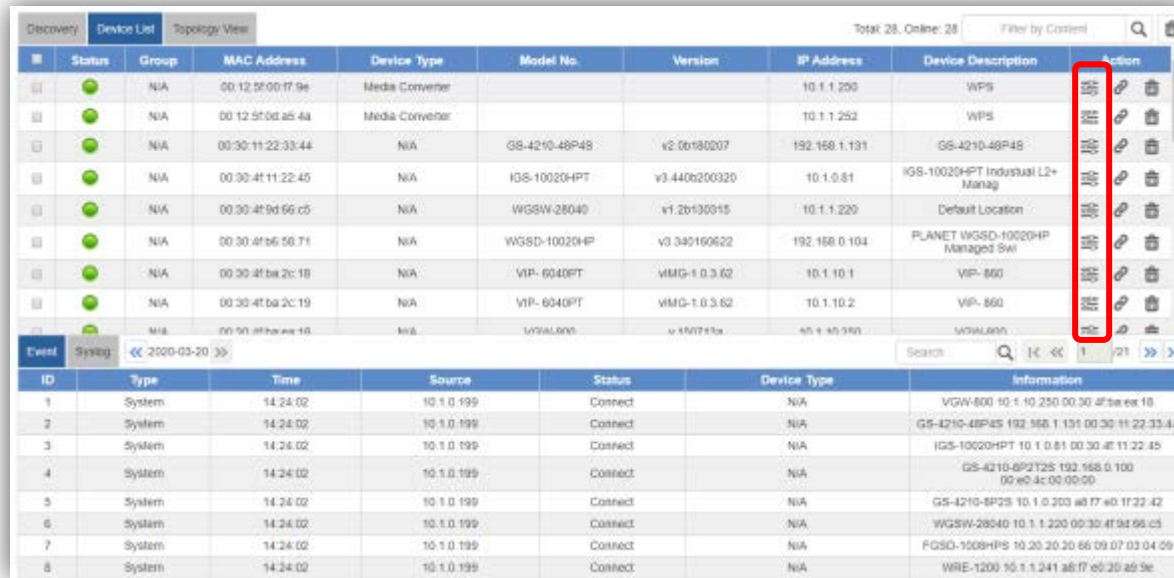
- **Authorization Status:** If the devices support MQTT protocol and are managed currently with NMS, the authorization status will show “Green Key”.

Key	Status
	Managed
	Not supported
	Managed Fail
	Managed by the other NMS



Device Identification

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

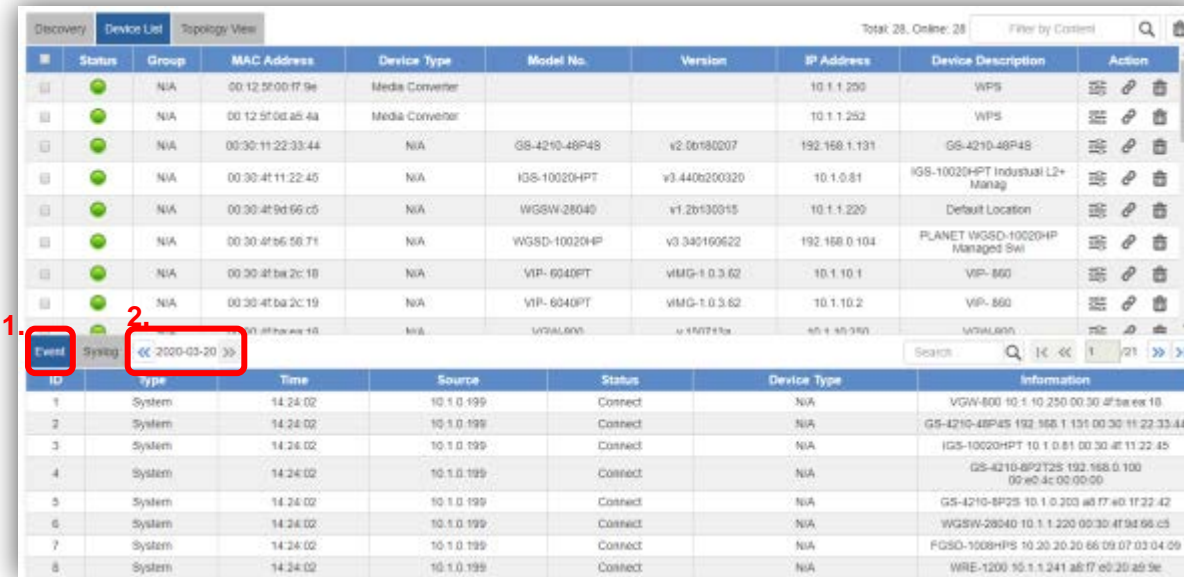


Discovery	Device List	Topology View	Total 28, Online: 28		Filter by Content				
ID	Status	Group	MAC Address	Device Type	Model No.	Version	IP Address	Device Description	Action
	●	N/A	00:12:5f:00:17:9e	Media Converter			10.1.1.200	WPS	[Icon]
	●	N/A	00:12:5f:00:a5:4a	Media Converter			10.1.1.252	WPS	[Icon]
	●	N/A	00:30:11:22:33:44	N/A	GS-4210-48P4S	v2.00180207	192.168.1.131	GS-4210-48P4S	[Icon]
	●	N/A	00:30:4f:11:22:45	N/A	IGS-10020HPT	v3.440b200320	10.1.0.81	IGS-10020HPT Industrial L2+ Manag	[Icon]
	●	N/A	00:30:4f:9d:66:c5	N/A	WGSW-28040	v1.2b130315	10.1.1.220	Default Location	[Icon]
	●	N/A	00:30:4f:56:50:71	N/A	WGSD-10020HP	v3.340160622	192.168.0.104	PLANET WGSD-10020HP Managed Swi	[Icon]
	●	N/A	00:30:4f:ba:2c:10	N/A	VIP-6040FT	VMG-1.0.3.62	10.1.10.1	VIP-660	[Icon]
	●	N/A	00:30:4f:ba:2c:19	N/A	VIP-6040FT	VMG-1.0.3.62	10.1.10.2	VIP-660	[Icon]
	●	N/A	00:90:af:ba:2c:10	N/A	WV6000	v.1.0.0.1.0	10.1.10.300	WV6000	[Icon]

ID	Type	Time	Source	Status	Device Type	Information
1	System	14:24:02	10.1.0.199	Connect	N/A	VGW-600 10.1.10.250 00:30:4f:3e:ee:10
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 a8:f7:40:1f:22:42
6	System	14:24:02	10.1.0.199	Connect	N/A	WGSW-28040 10.1.1.220 00:30:4f:3e:ee: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 95.1.1.241 a8:f7:e0:20:a9:9e

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 PLANET network management interface. At the top, there are tabs for 'Discovery', 'Device List', and 'Topology View'. Below these is a table of network devices. At the bottom, there is a 'System Event' section with a table of events. Red boxes highlight the 'Event' icon in the bottom left and the date selection controls '2020-03-20' in the bottom center.

ID	Type	Time	Source	Status	Device Type	Information
1	System	14:24:02	10.1.0.199	Connect	N/A	VGW-600 10.1.10.250 00:30:4f:ba:ee:10
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:ba:ee:10
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 a8:17:40:1f:22:42
6	System	14:24:02	10.1.0.199	Connect	N/A	WGSW-28040 10.1.1.220 00:30:4f:ba:ee: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 a8:17:e0:20:a9:9e

System Event

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

Discovery | **Device List** | Topology View Total: 26, Online: 26 | Filter by Content

Status	Group	MAC Address	Device Type	Model No.	Version	IP Address	Device Description	Action
	N/A	00:12:0f:00:17:9e	Media Converter			10.1.1.250	WPS	
	N/A	00:12:0f:00:a5:4a	Media Converter			10.1.1.252	WPS	
	N/A	00:30:11:22:33:44	N/A	GS-4210-48P4S	v2.00160207	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	WQSD-10020HP	v3.340160622	192.168.0.104	PLANET WQSD-10020HP Managed Swi	
	N/A	00:30:4f:ba:2c:18	N/A	VIP-6040PT	vBMG-1.0.3.62	10.1.10.1	VIP-860	
	N/A	00:30:4f:ba:2c:19	N/A	VIP-6040PT	vBMG-1.0.3.62	10.1.10.2	VIP-860	
	N/A	00:30:4f:ba:2c:1a	N/A	VIP-6040PT	v1.00111111	10.1.10.250		

Event | Syslog | 2020-03-20

IGS

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	14:18:39	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	Not	N/A	IGS-10020HPT 10.1.0.81 00:30:4f:11:22:45

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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.



The screenshot displays the Syslog Server interface. At the top, there is a navigation bar with the following elements:

- 1.** A blue button labeled "Syslog".
- 2.** Navigation controls: "<< 2019-07-05 >>".
- 3.** Two dropdown menus: "Severity: Any" and "Device: Any".

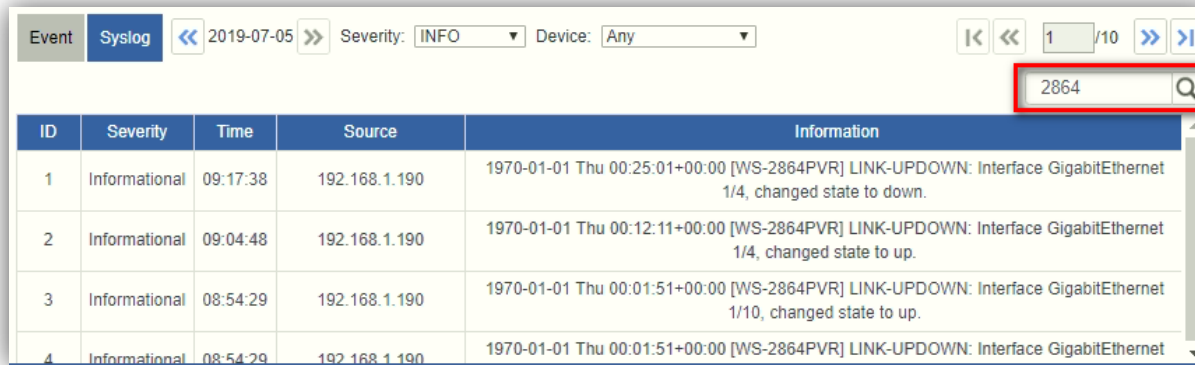
Below the navigation bar is a search input field with a magnifying glass icon. The main content area is a table with the following columns: ID, Severity, Time, Source, and Information.

ID	Severity	Time	Source	Information
1	Informational	09:17:38	192.168.1.190 (PLANET WS-2864PVR AP Managed Switch)	1970-01-01 Thu 00:25:01+00:00 [WS-2864PVR] 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.

At the bottom right of the table, it says "Total: 14".

Syslog Server

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

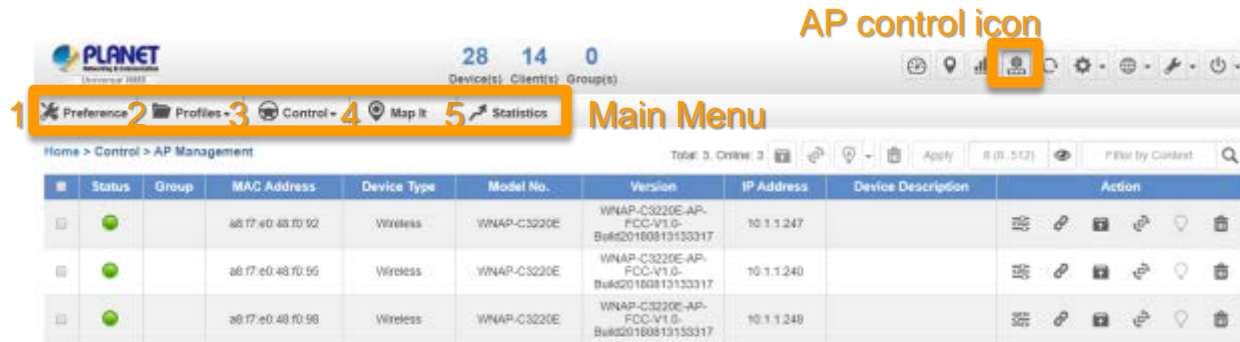


The screenshot shows a Syslog Server interface. At the top, there are navigation controls including a date selector set to '2019-07-05', a severity filter set to 'INFO', and a device filter set to 'Any'. On the right, there are page navigation buttons and a page indicator showing '1 / 10'. A search bar is highlighted with a red box, containing the text '2864'. Below the search bar is a table with the following columns: ID, Severity, Time, Source, and Information.

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



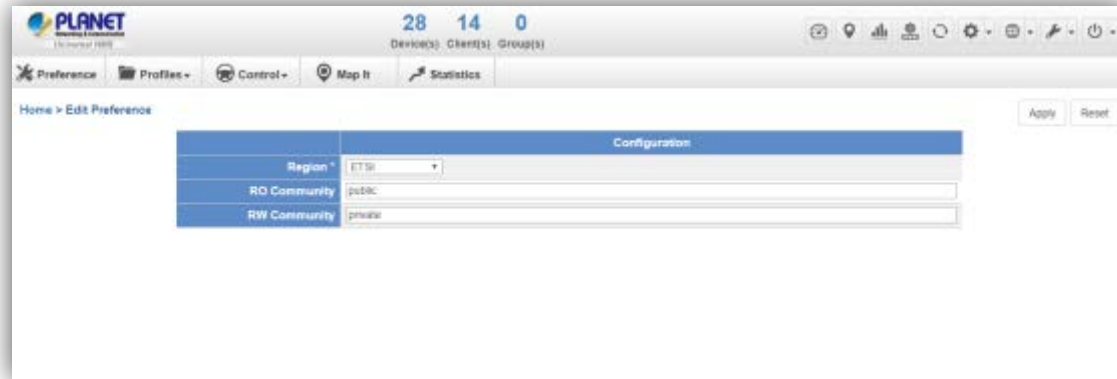
AP control icon

Main Menu

Status	Group	MAC Address	Device Type	Model No.	Version	IP Address	Device Description	Action
●		a8 17:e0 48 70 92	Wireless	WNAP-C3220E	WNAP-C3220E-AP-FCC-V1 0-Bus20180813153317	10.1.1.247		[Icons]
●		a8 17:e0 48 70 96	Wireless	WNAP-C3220E	WNAP-C3220E-AP-FCC-V1 0-Bus20180813153317	10.1.1.240		[Icons]
●		a8 17:e0 48 70 98	Wireless	WNAP-C3220E	WNAP-C3220E-AP-FCC-V1 0-Bus20180813153317	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

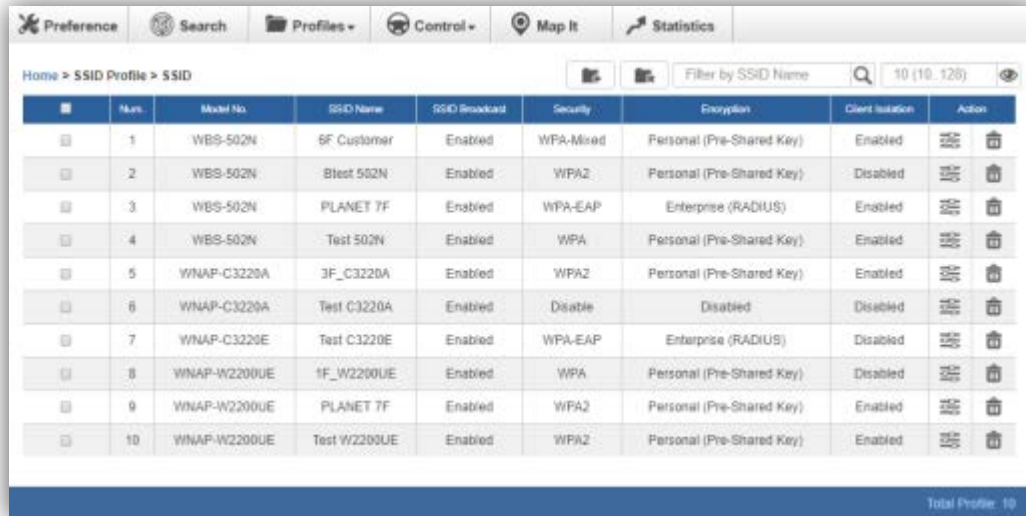
Main Menu – Preference



[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

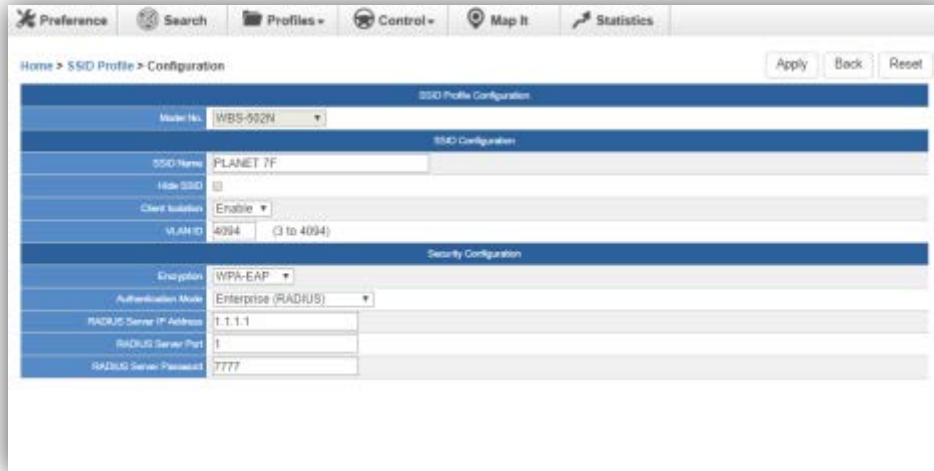


	Man	Model No.	SSID Name	RSSID Broadcast	Security	Encryption	Client Isolation	Action
<input type="checkbox"/>	1	WBS-502N	5F Customer	Enabled	WPA-Mixed	Personal (Pre-Shared Key)	Enabled	
<input type="checkbox"/>	2	WBS-502N	Btest 502N	Enabled	WPA2	Personal (Pre-Shared Key)	Disabled	
<input type="checkbox"/>	3	WBS-502N	PLANET 7F	Enabled	WPA-EAP	Enterprise (RADIUS)	Enabled	
<input type="checkbox"/>	4	WBS-502N	Test 502N	Enabled	WPA	Personal (Pre-Shared Key)	Enabled	
<input type="checkbox"/>	5	WNAP-C3220A	3F_C3220A	Enabled	WPA2	Personal (Pre-Shared Key)	Enabled	
<input type="checkbox"/>	6	WNAP-C3220A	Test C3220A	Enabled	Disable	Disabled	Disabled	
<input type="checkbox"/>	7	WNAP-C3220E	Test C3220E	Enabled	WPA-EAP	Enterprise (RADIUS)	Disabled	
<input type="checkbox"/>	8	WNAP-W2200UE	1F_W2200UE	Enabled	WPA	Personal (Pre-Shared Key)	Disabled	
<input type="checkbox"/>	9	WNAP-W2200UE	PLANET 7F	Enabled	WPA2	Personal (Pre-Shared Key)	Enabled	
<input type="checkbox"/>	10	WNAP-W2200UE	Test W2200UE	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).

Main Menu – Profiles



[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



The screenshot shows a web interface for configuring a radio profile. At the top, there is a navigation bar with icons for Preference, Search, Profiles, Control, Map It, and Statistics. Below this, the breadcrumb path is "Home > Radio Profile > 2.4GHz > Configuration". On the right side of the breadcrumb path are three buttons: "Apply", "Back", and "Reset". The main content area is titled "Radio Profile Configuration" and is divided into two sections: "Radio Profile Configuration" and "Basic Setting".

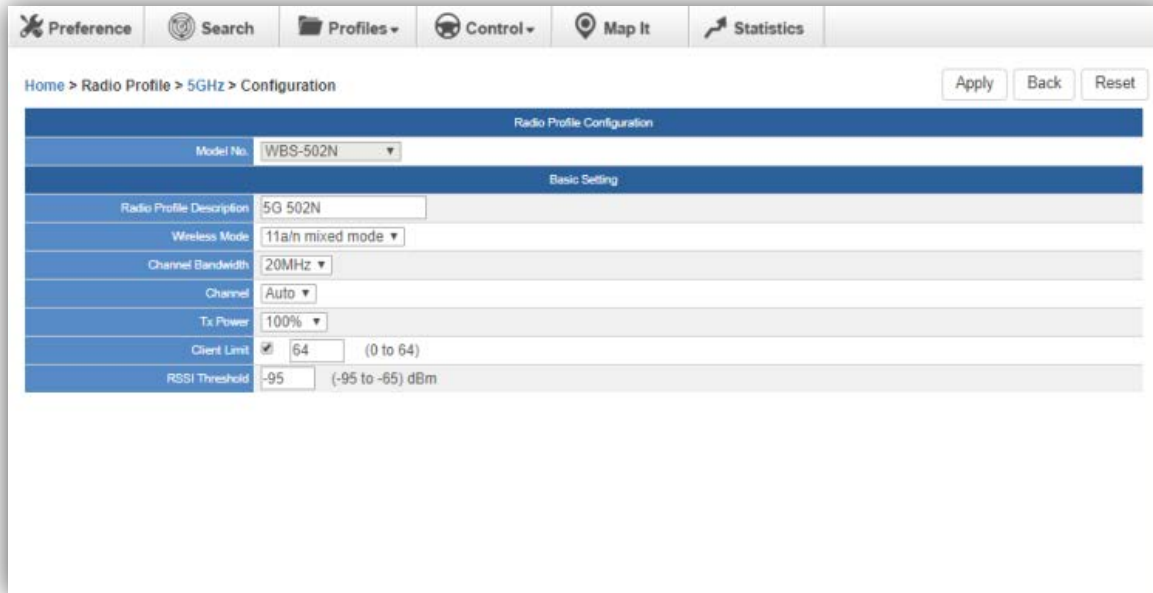
Radio Profile Configuration	
Model No.	WNAP-C3220A

Basic Setting	
Radio Profile Description	Test-2 4G c3220A
Wireless Mode	11b/g/n mixed mode
Channel Bandwidth	40MHz
Channel	Auto
MCS	Auto
Tx Power	100%

[2.4GHz 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.

Main Menu – 3/Profiles



The screenshot shows a web interface for configuring a 5GHz radio profile. The breadcrumb path is "Home > Radio Profile > 5GHz > Configuration". The interface is divided into two sections: "Radio Profile Configuration" and "Basic Setting".

Radio Profile Configuration	
Model No.	WBS-502N

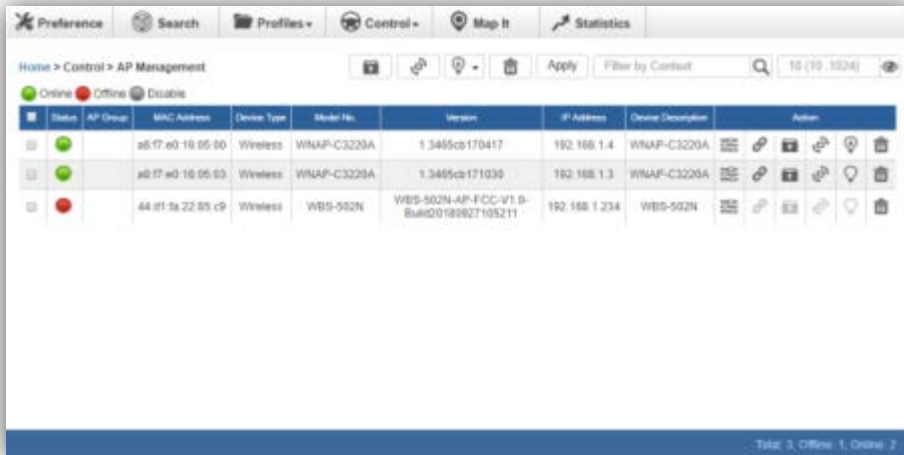
Basic Setting	
Radio Profile Description	5G 502N
Wireless Mode	11a/n mixed mode
Channel Bandwidth	20MHz
Channel	Auto
Tx Power	100%
Client Limit	<input checked="" type="checkbox"/> 64 (0 to 64)
RSSI Threshold	-95 (-95 to -65) dBm

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.

[5GHz Radio Profile Configuration]

Main Menu – Control




Status	AP Group	MAC Address	Device Type	Model No.	Version	IP Address	Device Description	Action
Online		a8:17:e0:18:05:00	Wireless	WNAP-C3220A	1.3485cb170417	192.168.1.4	WNAP-C3220A	[Icons]
Online		a8:17:e0:18:05:03	Wireless	WNAP-C3220A	1.3485cb171030	192.168.1.3	WNAP-C3220A	[Icons]
Offline		44:d1:5a:22:85:c9	Wireless	WBS-502N	WBS-502N-AP-FCC-V1.0-Build0108027105211	192.168.1.234	WBS-502N	[Icons]


[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 in any context that 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.


Main Menu – Control

➤ Status:

 Connection status: online, offline, Wi-Fi disabled

 In progress: action in progress

 Finished/Successful: action finished and successful.


 Failed: action failed.


➤ 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.

➤ 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

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



Num	Group Name	Group Description	Action
1	2280UE G	2280UE Group	[Icons: Add, Delete, Link, Heart, Trash]
2	c3220a 01	c3220A GROUP	[Icons: Add, Delete, Link, Heart, Trash]

[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.

Main Menu – Control

Home > Control > AP Management

Online Offline Discable

Status	AP Group	MAC Address	Model	Version	IP Address	Name	Action
		a8:f7:e0:1e:1f:dd	WDAP-W7200AC	ttsp-170406	192.168.0.119	Wi-Fi_11ac_AP	
		a8:f7:e0:16:05:09	WNAP-W2201A	1.3465cb170407	192.168.0.101	WNAP-W2201A	
		a8:f7:e0:1e:1f:d1	WDAP-W7200AC	ttsp-170406	192.168.0.105	Wi-Fi_11ac_AP	
	Ceiling-mount_1	a8:f7:e0:00:01:00	WNAP-C3220A	1.3465cb170406	192.168.0.102	WNAP-C3220A	
	Ceiling-mount_1	a8:f7:e0:16:05:00	WNAP-C3220A	1.3465cb170406	192.168.0.103	WNAP-C3220A	

➤ 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”.

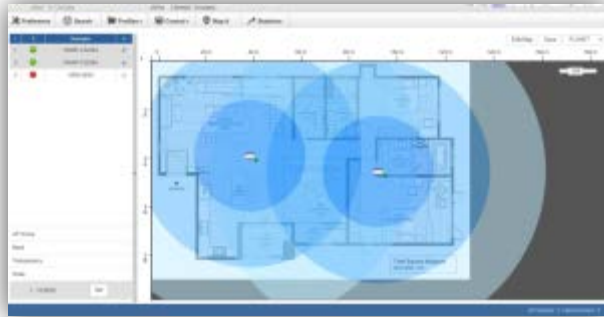
➤ Action:

- 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

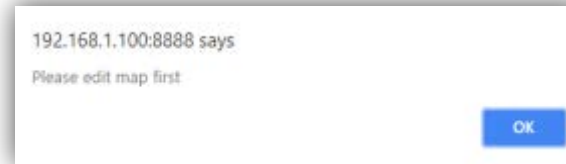


[Map It]

- **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.

*Please use mouse to use this function.

- 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.

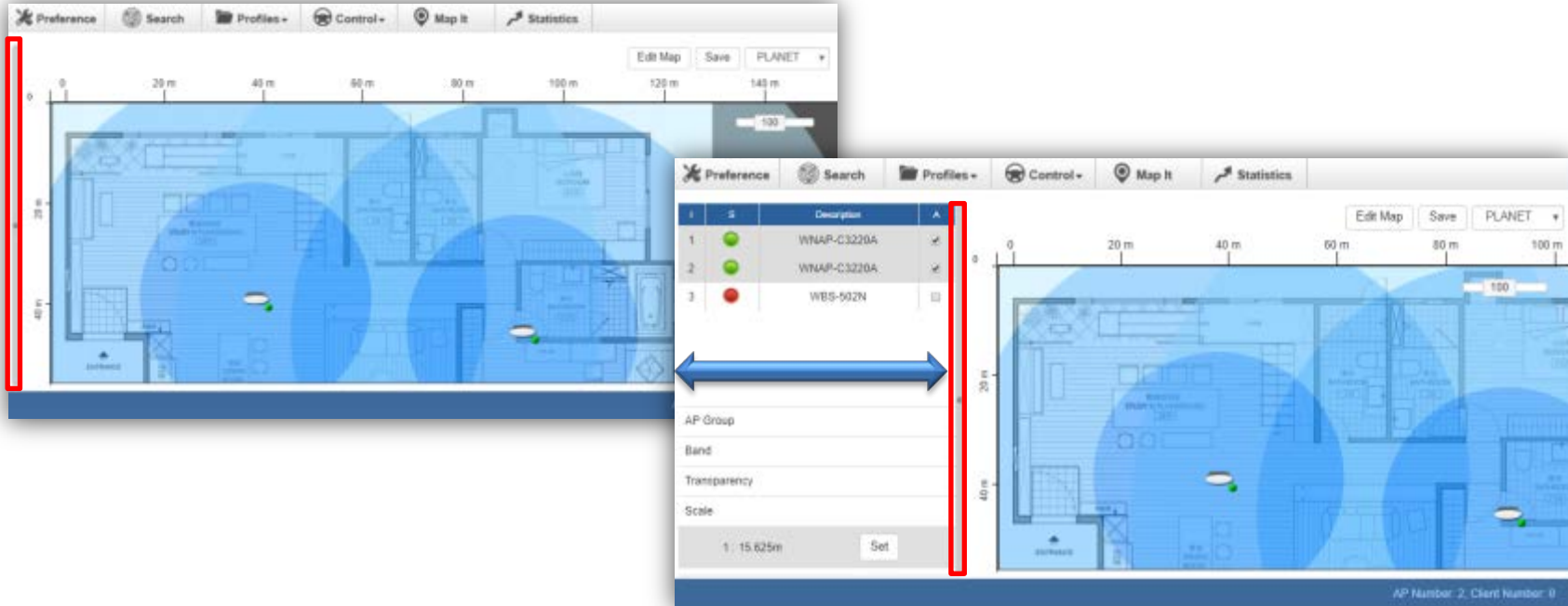


- On the Edit Map page, click “Choose File” and enter the map’s description. Then click “Apply” to upload the map.



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.



The screenshot displays the PLANET software interface. The main window shows a floor plan map with three wireless access points (APs) and their coverage areas. A sidebar on the left is expanded to show a list of APs. A red box highlights the sidebar area in both views. A blue double-headed arrow indicates the transition from the collapsed sidebar to the expanded view.

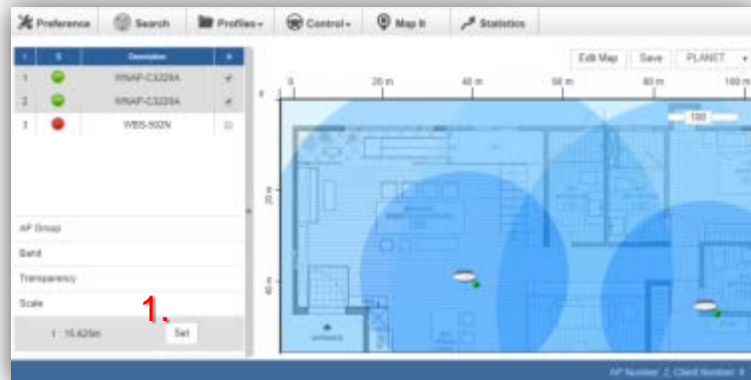
#	S	Description	✓
1	●	WNAP-C3220A	✓
2	●	WNAP-C3220A	✓
3	●	WBS-502N	☐

AP Group
Band
Transparency
Scale
1: 15.625m Set

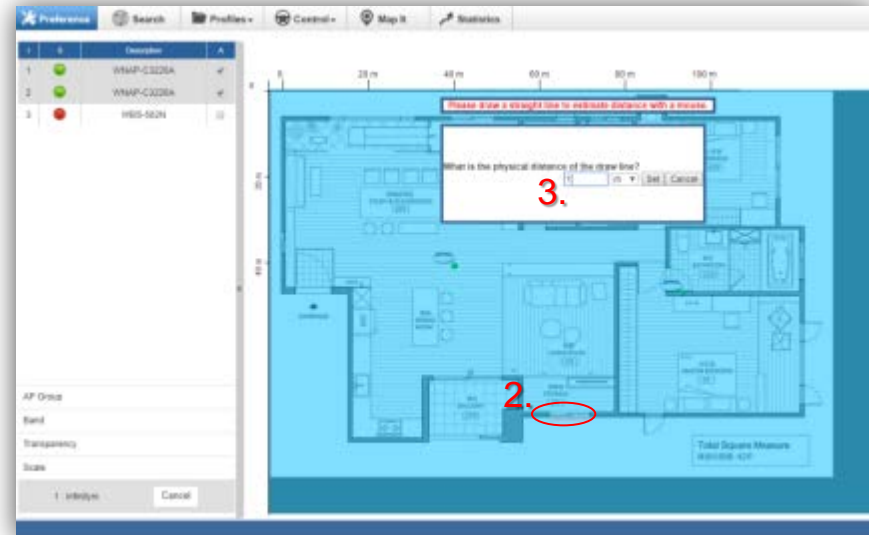
AP Number: 2, Client Number: 0

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.

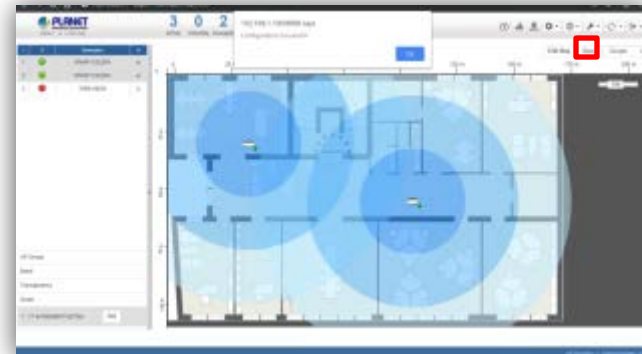


Main Menu – Map It

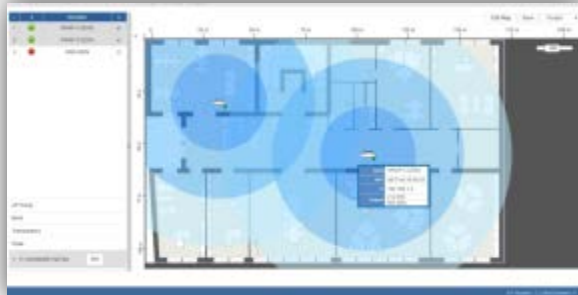
- Drag and drop the AP onto the map or select multiple APs by clicking the checkbox.



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

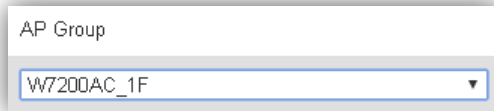


- To upload more maps or edit current map, click the “Edit Map” button to re-enter the Edit Map page.

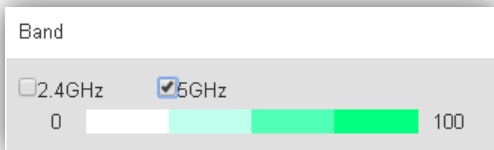
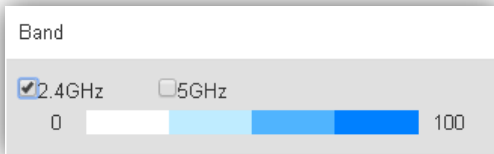


Main Menu – Map It

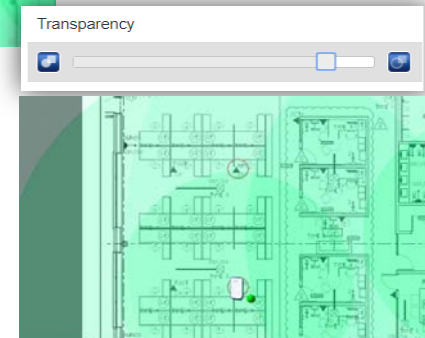
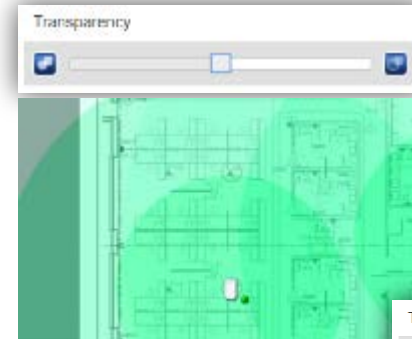
- The lower-left side area provides map control options.
- AP Group: To filter the managed APs shown on the map, the selected AP group is displayed.



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



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



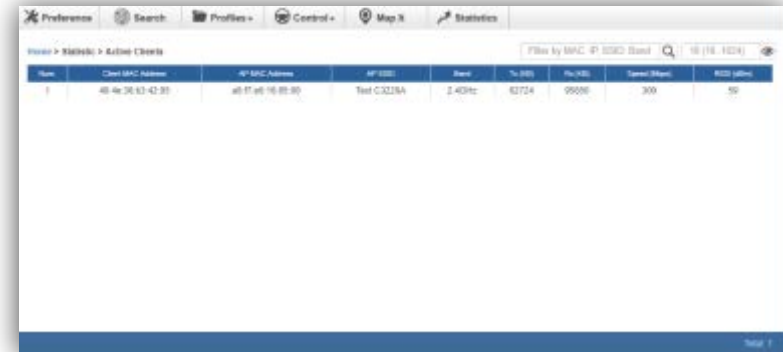
Main Menu – Statistics



AP ID	MAC Address	IP Address	SSID	Band	Power	AP Group	2.4GHz SSID Profile	5GHz SSID Profile	2.4GHz PoE Profile	5GHz PoE Profile
1	ad 07 ad 18 05 08	192.168.1.4	WLAN-C023A	WLAN-C023A	1.3485e17041T		N/A			N/A
2	ad 07 ad 18 05 03	192.168.1.3	WLAN-C023A	WLAN-C023A	1.3485e17193D		N/A			N/A
3	44 01 54 22 05 15	192.168.1.214	WIS-502H	WIS-502H	880-882h-AP-FC-471.9 Band:02180827102711		N/A	Band 502H	N/A	50 502H

[Statistics – Managed APs]

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



Client MAC Address	AP MAC Address	AP SSID	Band	Tx Rate	Rx Rate	Tx Packets	RSSI (dBm)
48 9e 26 82 42 3f	ad 07 ad 18 05 03	Test-C023A	2.4GHz	62724	99036	300	-59

[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

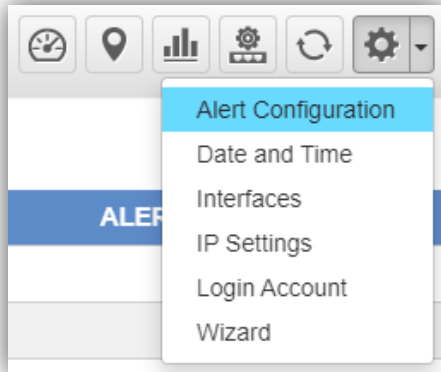


[System Menu – Refresh]

- **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



[System Menu – System Configuration]

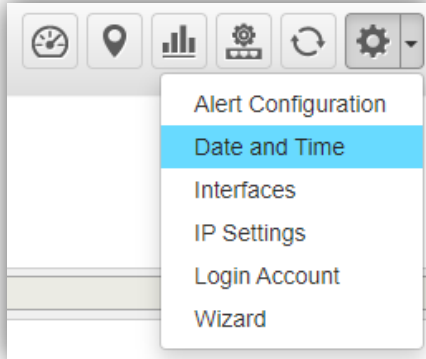
- **Alert Configuration:** On this page, you can configure the system event notice enable or disable by Popup Alert Message and SMTP function.
- After configuration is done, click “Apply” to apply the setting.

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"/>

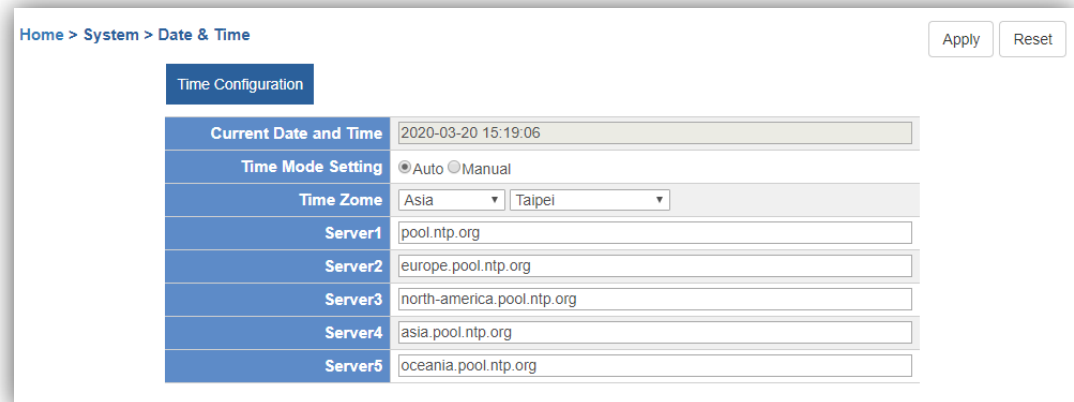
[Alert Configuration]

System Menu – System Configuration



[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.

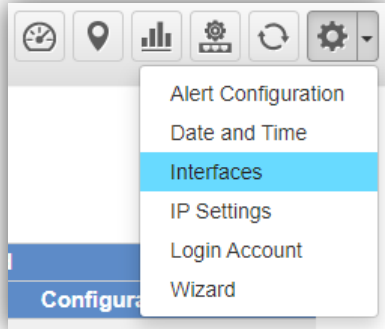


A screenshot of the 'Date & Time' configuration page. The breadcrumb trail is 'Home > System > Date & Time'. The page has 'Apply' and 'Reset' buttons in the top right. The configuration is organized into a table with blue headers and white content cells.

Time Configuration	
Current Date and Time	2020-03-20 15:19:06
Time Mode Setting	<input checked="" type="radio"/> Auto <input type="radio"/> Manual
Time Zone	Asia <input type="text"/> Taipei <input type="text"/>
Server1	pool.ntp.org
Server2	europa.pool.ntp.org
Server3	north-america.pool.ntp.org
Server4	asia.pool.ntp.org
Server5	oceania.pool.ntp.org

[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 1GMbps 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"/>	●	1Gbps FDX	Auto ▾

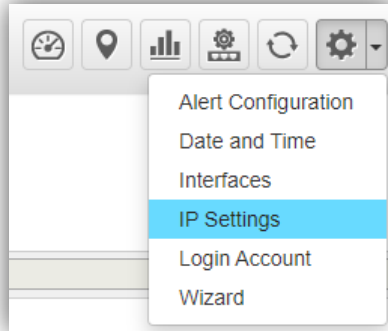
[Port Settings]

System Menu – System Configuration

Port	Packets		Bytes		Errors		Drops	
	Received	Transmitted	Received	Transmitted	Received	Transmitted	Received	Transmitted
1	0	0	0	0	0	0	0	0
2	478835	169696223	156746461	23195	0	420366	5201	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.

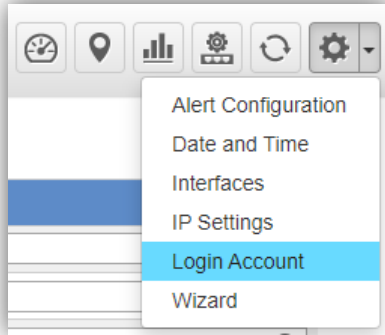
[System Menu – System Configuration]

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]

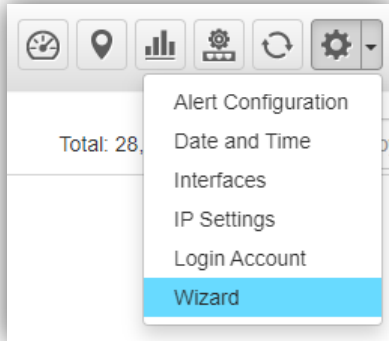
- **Login Account:** On this page, you can modify the login user name and password.
- Enter the new user name and new password directly in the corresponding fields, and then click “Apply” to apply the setting. The login window will be prompted to ask you to enter the new account to re-log in the system.

A screenshot of the 'Edit User' configuration page. The breadcrumb trail at the top reads 'Home > System > Edit User'. The page title is 'Configuration'. There are three input fields: 'User Name' with the value 'admin123', 'Password', and 'Retype Password'. Each field has a small eye icon to its right. At the top right, there are 'Apply' and 'Reset' buttons. At the bottom, 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]

- ◆ *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.

System Menu – System Configuration

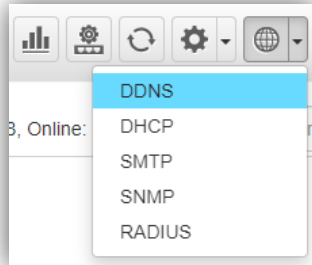


- **Wizard:** Select Wizard for setup wizard again.

[System Menu – System Configuration]

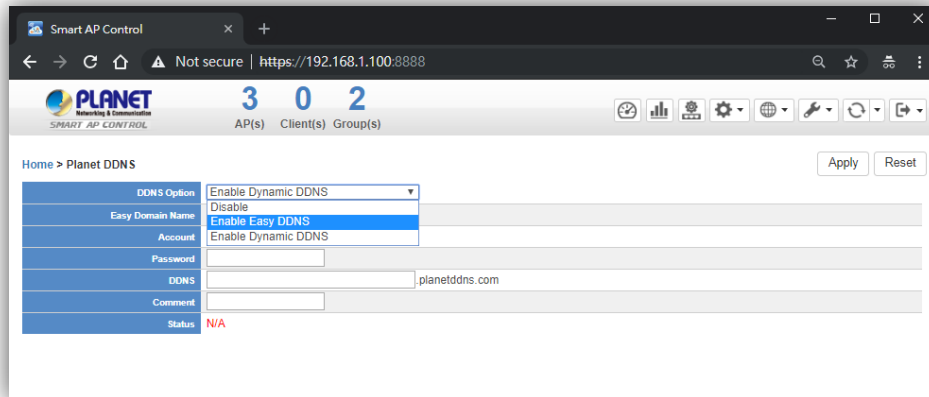
SYSTEM MENU - NETWORK SERVICES

System Menu – Network Services



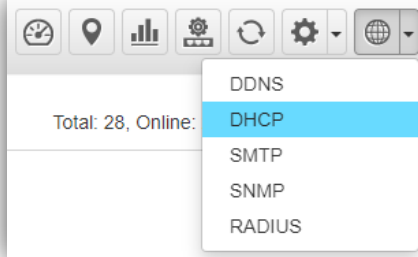
[System Menu – DDNS]

- **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.

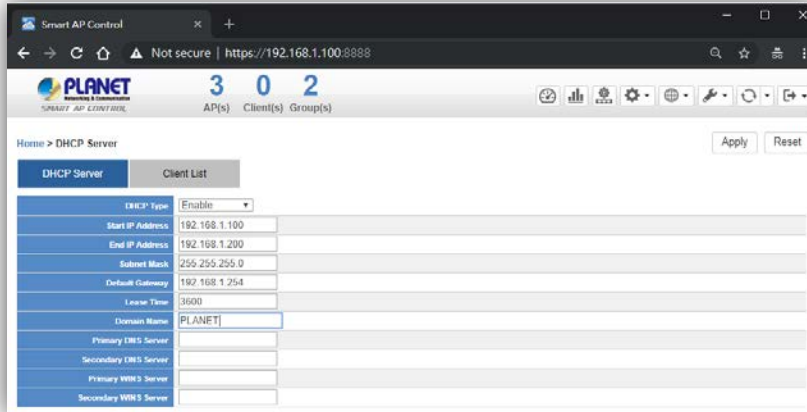


[DDNS Setting]

System Menu – Network Services



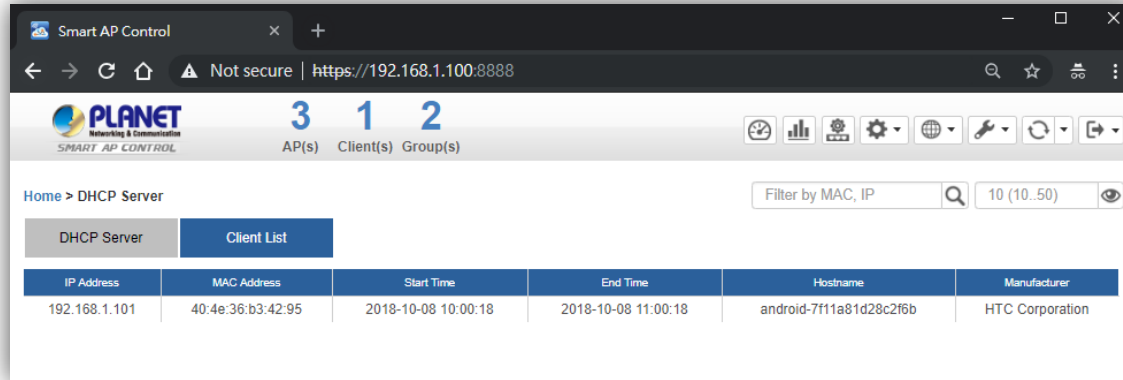
[System Menu – DHCP]



[DHCP Setting]

- **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.

System Menu – Network Services

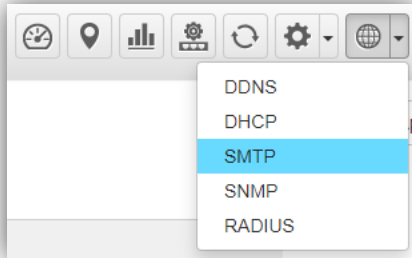


The screenshot shows the Smart AP Control web interface. The browser address bar displays `https://192.168.1.100:8888`. The interface includes a header with the PLANET logo and navigation icons. Below the header, there are statistics for AP(s), Client(s), and Group(s). The main content area is titled "Home > DHCP Server" and features a "Client List" tab. A search filter is set to "10 (10..50)". A table displays the following client information:

IP Address	MAC Address	Start Time	End Time	Hostname	Manufacturer
192.168.1.101	40:4e:36:b3:42:95	2018-10-08 10:00:18	2018-10-08 11:00:18	android-7f11a81d28c2f6b	HTC Corporation

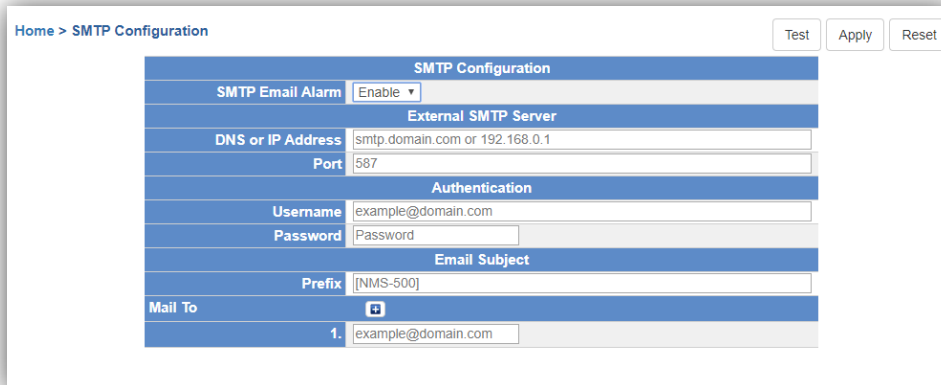
[Client List Information]

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.

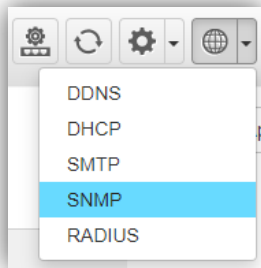


The image shows the 'SMTP Configuration' page in a web interface. The breadcrumb is 'Home > SMTP Configuration'. There are three buttons: 'Test', 'Apply', and 'Reset'. The configuration is organized into sections:

- 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'.

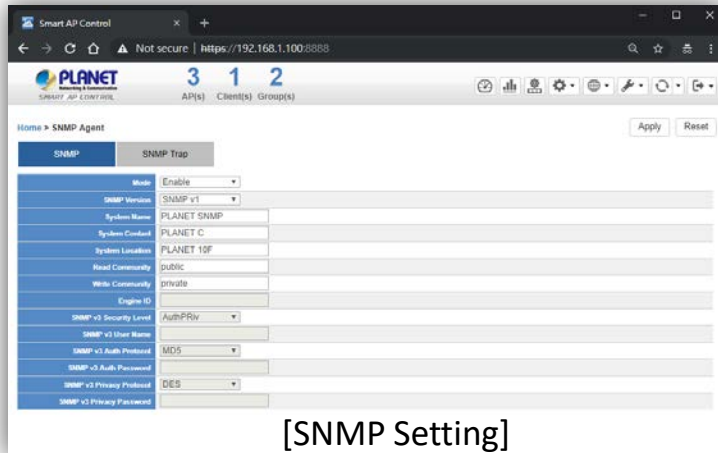
[SMTP Setting]

System Menu – Network Services



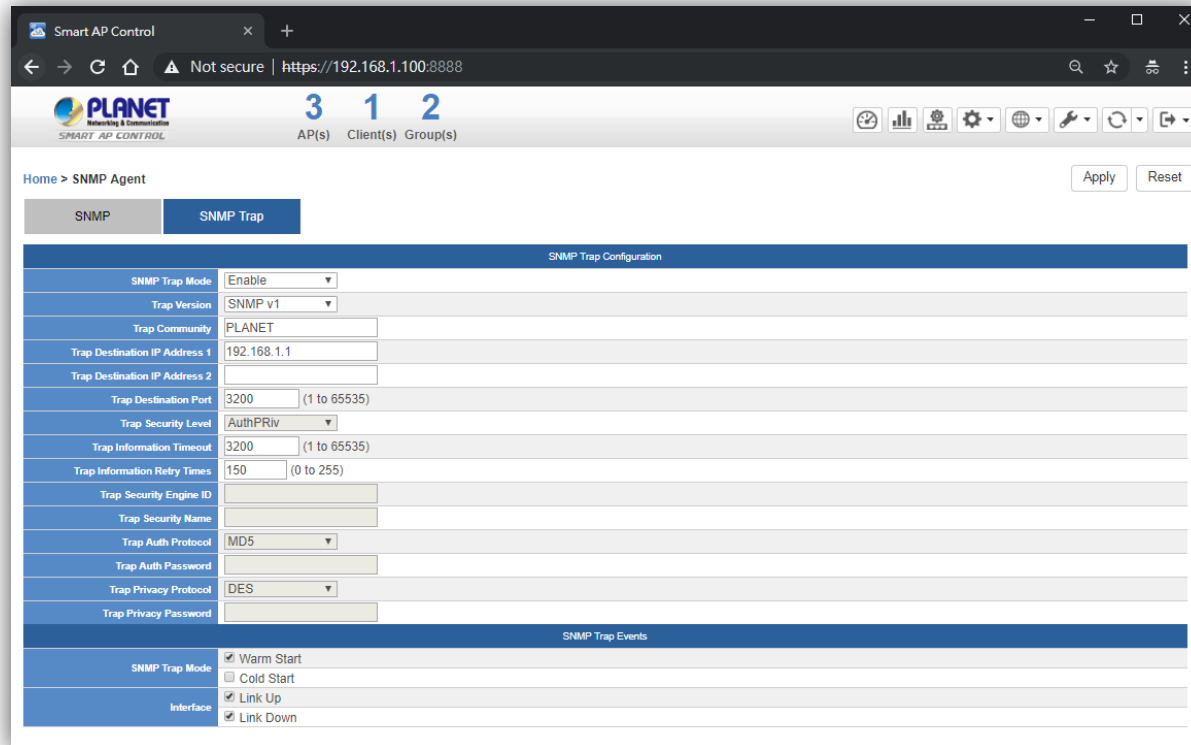
[System Menu – SNMP]

- **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

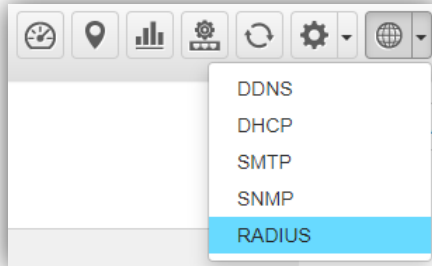


The screenshot shows the 'Smart AP Control' web interface. The browser address bar displays 'https://192.168.1.100:8888'. The interface includes a header with the PLANET logo, navigation icons, and status indicators for '3 AP(s)', '1 Client(s)', and '2 Group(s)'. The main content area is titled 'Home > SNMP Agent' and contains two tabs: 'SNMP' and 'SNMP Trap'. The 'SNMP Trap' tab is active, showing the 'SNMP Trap Configuration' section. This section contains various configuration fields for traps, including mode, version, community, destination IP addresses, ports, security levels, timeouts, and protocols. Below this is the 'SNMP Trap Events' section, which includes checkboxes for 'Warm Start', 'Cold Start', 'Link Up', and 'Link Down'.

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

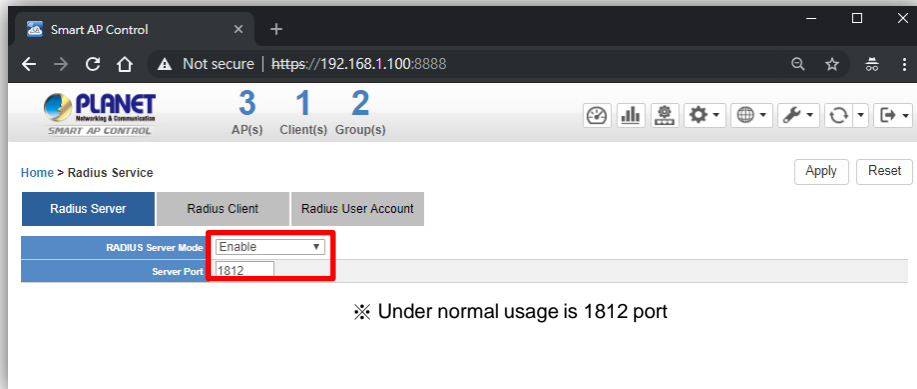
[SNMP Trap Configuration]

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.



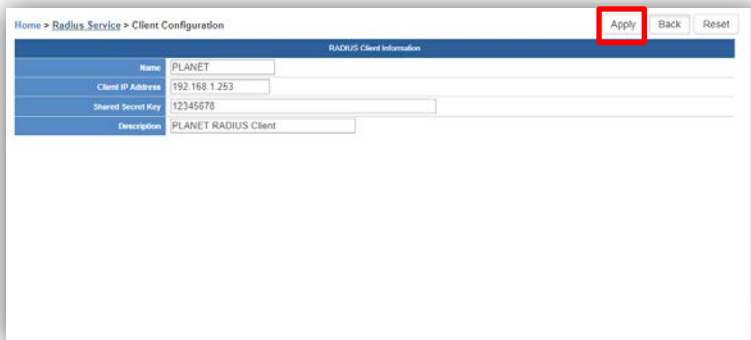
[RADIUS Setting]

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.

A screenshot of the 'RADIUS Client Information' configuration form. The breadcrumb trail is 'Home > Radius Service > Client Configuration'. The form has four input fields: 'Name' (value: PLANET), 'Client IP Address' (value: 192.168.1.253), 'Shared Secret Key' (value: 12345678), and 'Description' (value: PLANET RADIUS Client). At the top right of the form are three buttons: 'Apply' (highlighted with a red box), 'Back', and 'Reset'.



[RADIUS Client Setting]

System Menu – Network Services

Home > Radius Service

Filter by Name 10 (10..1024)

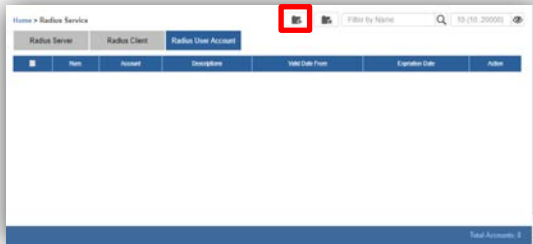
Radius Server Radius Client Radius User Account

	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

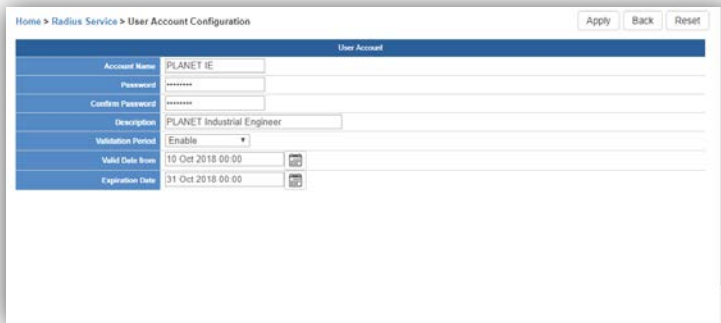
[RADIUS Client Setting Finished]

System Menu – Network Services



[System Menu – RADIUS]

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



The screenshot shows the 'User Account Configuration' form. The breadcrumb trail is 'Home > Radius Service > User Account Configuration'. There are three buttons: 'Apply', 'Back', and 'Reset'. The form fields are as follows:



User Account	
Account Name	PLANET IE
Password	*****
Confirm Password	*****
Description	PLANET Industrial Engineer
Validation Period	Enable
Valid Date from	10 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**

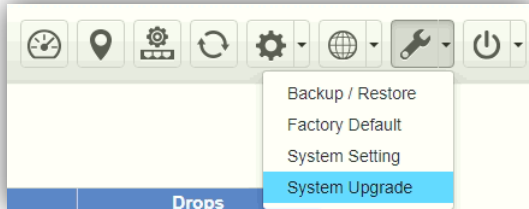
<input type="checkbox"/>	Num.	Account	Description	Valid Date From	Expiration Date	Action
<input type="checkbox"/>	1	PLANET IE	PLANET Industrial Engineer	10 Oct 2018 00:00	31 Oct 2018 00:00	 

Total Accounts: 1

[RADIUS User Account Setting Finished]

SYSTEM MENU - MAINTENANCE

System Menu – Maintenance



[System Menu – Maintenance]

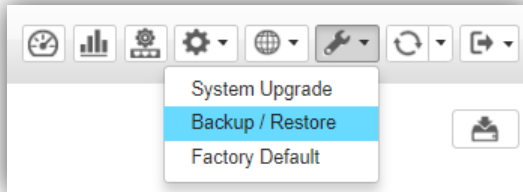


[System Upgrade]

- **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.

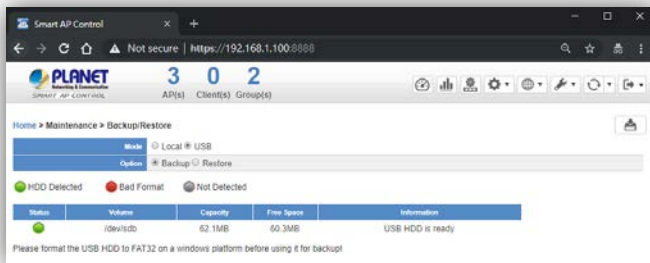
*Remote login must be used for the NMS-1000V to do firmware upgrade.

System Menu – Maintenance

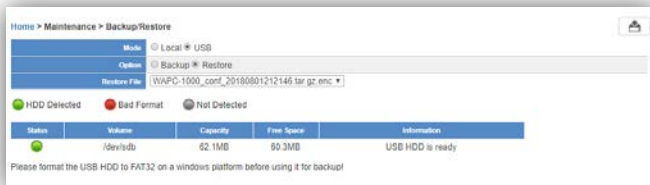


[System Menu – Maintenance]

- **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.
- Use 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.

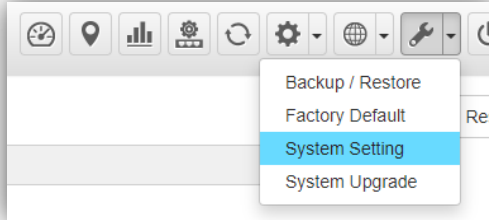


[Backup]



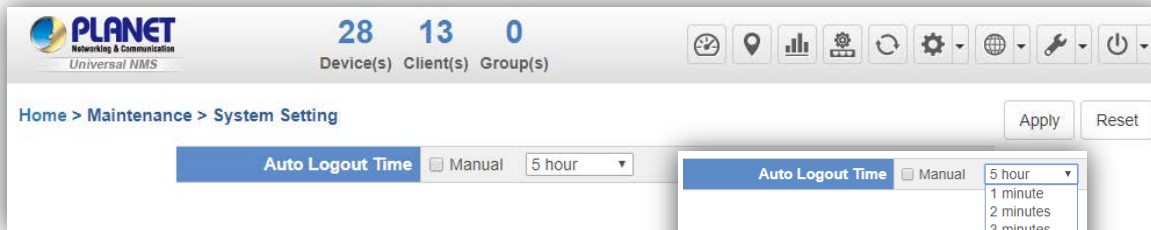
[Restore]

System Menu – Maintenance



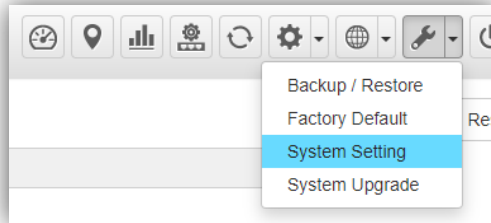
- **System Setting:** Click “System Setting” to set up Logout Time for manual or selection tree.

[System Menu – Maintenance]



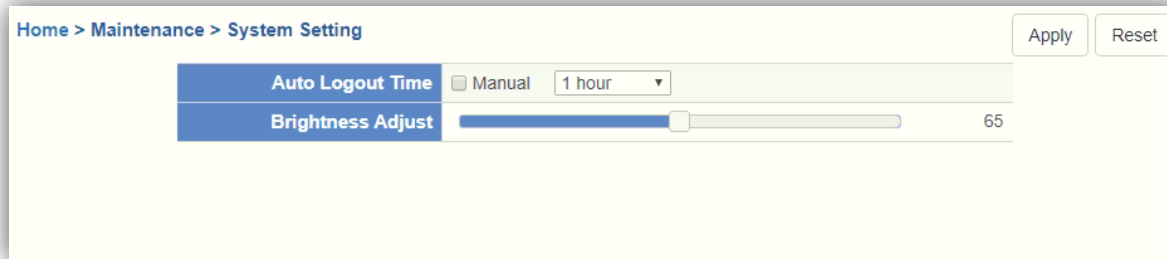
[Auto Logout Time]

System Menu – Maintenance



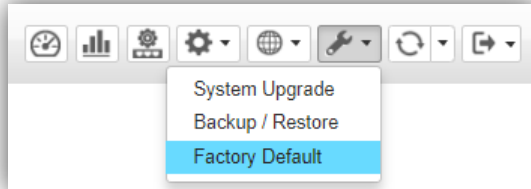
- **System Setting:** Click “System Setting” to adjust the Brightness of touch screen.

[System Menu – Maintenance]



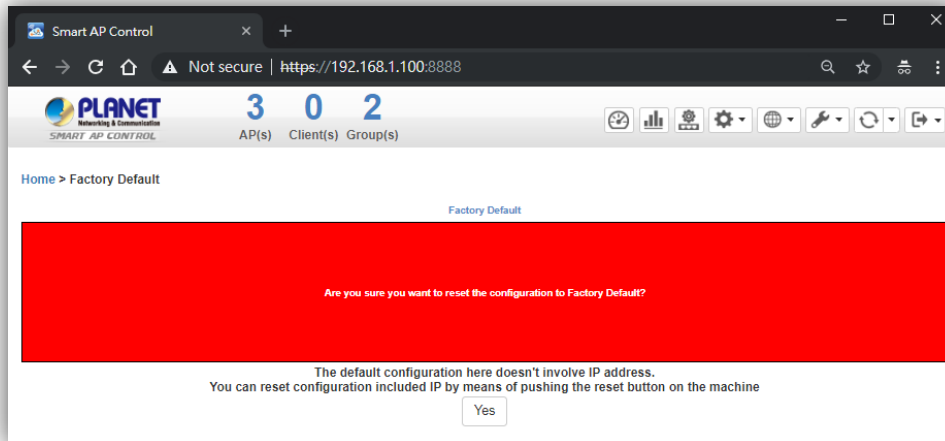
[Brightness Adjust]

System Menu – Maintenance



- **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.

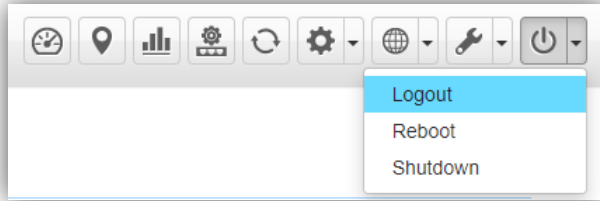
[System Menu – Factory Default]



[Factory Default Warning]

SYSTEM MENU - EXIT

System Menu – Exit



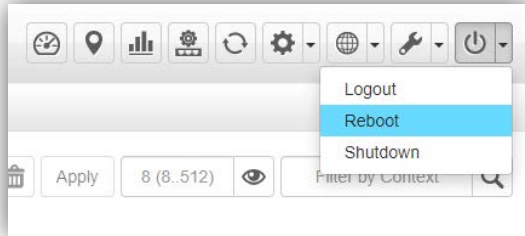
[System Menu – Logout]

- **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.



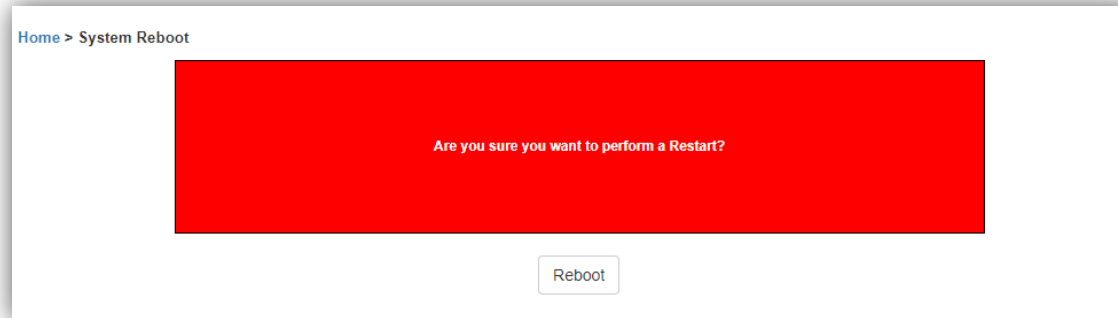
[Login Window]

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]

HDMI OUTPUT

HDMI Output

- **HDMI Output:** NMS-1000V-12 and NMS-1000V-10 support HDMI Output function.
- ※ Please follow the steps below to make sure this function works correctly.
 - 1 · Open NMS-1000 to log in page.
 - 2 · Make sure the TV or Screen supports **resolutions of 1024 x 768** for best optimization.
 - 3 · Connect NMS-1000V and TV or Screen with HDMI cable.



APPENDIX

Appendix – MQTT Devices Support List

Item	Switch	The Latest Firmware version	Industrial Switch	The Latest Firmware version
1	GS-4210-8P2S	GS-4210-8P2S_v2.305b200330.bix	IGS-10020HPT	IGS10020HPT_V3_v3.440b200331.mfi
2	GS-4210-8P2T2S	GS-4210-8P2T2S_v2.305b200330.bix	IGS-10020PT	IGS10020PT_V3_v3.440b200331.mfi
3	GS-4210-48T4S	GS-4210-48T4S_v2.305b200330.bix	IGS-12040MT	IGS12040MT_v2.440b200331.mfi
4	GS-4210-48P4S	GS-4210-48P4S_v2.305b200330.bix	IGS-20160HPT	IGS20160HPT_v2.440b200331.mfi
5	GS-4210-24T2S	GS-4210-24T2S_v2.305b200330.bix	IGS-20040MT	IGS20040MT_v2.440b200331.mfi
6	GS-4210-16T2S	GS-4210-16T2S_v2.305b200330.bix	IGS-10020MT	IGS10020MT_v3.440b200331.mfi
7	GS-4210-24P(L)4C	GS-4210-24P4C_v2.305b200330.bix	IGS-5225-8P4S	IGS52258P4S_v3.440b200331.mfi
8	GS-4210-24P2S	GS-4210-24P2S_v3.305b200331.bix	IGS-5225-8P2T2S	IGS52258P2T2S_v2.440b200331.mfi
9	GS-4210-16P4C	GS-4210-16P4C_v2.305b200331.bix	IGS-5225-4UP1T2S	IGS52254UP1T2S_v4.440b200331.mfi
10	GS-4210-16P2S	GS-4210-16P2S_v2.305b200331.bix	IGS-5225-4P2S	IGS52254P2S_v1.440b200331.mfi
11			IGS-5225-4T2S	IGS52254T2S_v2.440b200331.mfi
Item	Router	The Latest Firmware version	Industrial Router	The Latest Firmware version
1	VR-100	VR-100_v1.1907b200326.bin	IVR-100	IVR-100_v1.1907b200326.bin
Item	NMS	The Latest Firmware version	Industrial NMS	The Latest Firmware version
1	NMS-500	NMS-500_v1.0b200514	NMS-1000V-12	NMS-1000V-12_v1.0b200514
2			NMS-1000V-10	NMS-1000V-10_v1.0b200514

Appendix – Wireless (AP) Support List

Item	Wireless AP	The Latest Firmware version
1	WDAP-W7200AC	V1.3465cb171030
2	WDAP-C7200AC	V1.3465cb171030
3	WNAP-C3220A	V1.3465cb171030
4	WNAP-W2201A	V1.3465cb171030
5	WDAP-W705E	WDAP-W750E-AP-V3.0*feature in future
6	WNAP-W2200UE	WNAP-W2200UE-AP-V1.0
7	WDAP-C7200E	WDAP-C7200E-AP-V1.0
8	WNAP-C3220E	WNAP-C3220E-AP-V1.0
9	WBS-202N	WBS-202N-AP-V1.0
10	WDAP-702AC	WDAP-702AC-V1.0
11	WBS-502AC	WBS-502N-AP-V1.0
12	WAP-252N	WAP-252N-AP-V1.0
13	WBS-502N	WBS-502N-AP-V1.0
14	WDAP-802AC	WDAP-802AC-AP-V1.0
15	WAP-552N	WAP-552N-AP-V1.0
16	WBS-200N	WBS-200N-V1.0
17	WAP-200N	WAP-200N-V1.0
18	WAP-500N	WAP-500N-V1.0
19	WDAP-512AC	WDAP-512AC-AP-V3.0*feature in future

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THANK YOU