



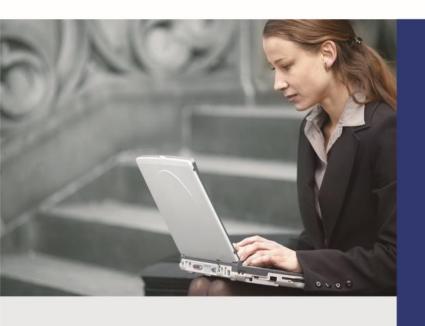
User's Manual



Dual Band 802.11ax 3000Mbps

Wireless Access Point w/802.3at PoE

- WDAP-C3000AX
- WDAP-3000AX
- ► WDAP-W3000AX





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Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1. Reorient or relocate the receiving antenna.
- 2. Increase the separation between the equipment and receiver.
- 3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4. Consult the dealer or an experienced radio technician for help.



FCC Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. To assure continued compliance, for example, use only shielded interface cables when connecting to computer or peripheral devices.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference
- (2) This device must accept any interference received, including interference that may cause undesired operation.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Operations in the 5.15-5.25GHzHz band are restricted to indoor usage only.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

CE Compliance Statement

This device meets the RED 2014/53/EU requirements on the limitation of exposure of the general public to electromagnetic fields by way of health protection. The device complies with RF specifications when it is used at a safe distance of 20 cm from your body.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

WEEE regulation



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

Revision

User Manual of PLANET 802.11ax Dual Band Wireless Access Point

Model: WDAP-C3000AX/WDAP-3000AX/WDAP-W3000AX

Rev: 1.1 (Aug., 2024)

Part No. EM-WDAP-3000 series



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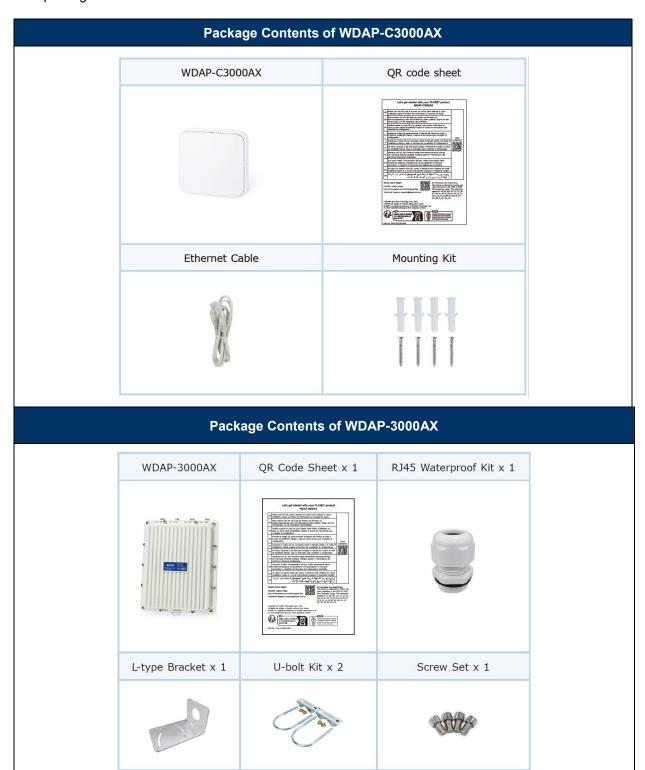
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Chapter 1. Product Introduction

1.1 Package Contents

Thank you for choosing PLANET 802.11ax 3000Mbps Wireless AP. Please verify the contents inside the package box.





WDAP-W3000AX CloudViewerPro App Sheet x 1 Screw Set x 1 Applications and other processing of the pr



If any of the above items are missing, please contact your dealer immediately.



IMPORTANT SAFETY PRECAUTIONS:

- 1) LIVES MAY BE AT RISK! Please be aware of the electrical wires around. Carefully read the section "OUTDOOR INSTALLATION WARNING" in the manual before installation.
- 2) Users MUST complete grounding wired with the device; otherwise, a sudden lightning could cause fatal damage to the device. EMD (Lightning) DAMAGE IS NOT COVERED UNDER WARRANTY.
- 3) Users **MUST** power off the device first before connecting the antenna to it; otherwise, damage might be caused to the device itself.
- 4) The Antenna and Surge Arrestor are required for each antenna connector, and must be purchased separately.



1.2 Product Description

(Please refer to PLANET website for WDAP-3000AX and WDAP-W3000AX information.)

Ultra-high-speed Wi-Fi 6 Wireless LAN Solution

PLANET WDAP-C3000AX **3000Mbps Dual Band 802.11ax Wireless AP**, supporting **Wi-Fi Mesh**, **MU-MIMO**, **OFDMA**, **Seamless Roaming**, **Beamforming and BSS Coloring technology**, provides a maximum wireless speed of 2400Mbps in the 5GHz band and 600Mbps in the 2.4GHz band. The maximum number of client users is up to 256, ensuring more secure and robust connectivity with the adoption of Wi-Fi 6 technology.



Benefits of MU-MIMO, OFDMA, Seamless Roaming, Beamforming and BSS Coloring

The WDAP-C3000AX can be installed in public areas such as hotspots, airports and conferences as OFDMA, a multi-user version of OFDM, enables the concurrent AP to communicate (uplink and downlink) with multiple clients by assigning subsets of subcarriers called resource units (RUs) to the 0 clients. With MU-MIMO and Seamless Roaming technologies, it provides a better Wi-Fi user experience, reducing the likelihood of users turning off Wi-Fi and putting more load on the cellular network. Beamforming is to improve your Wi-Fi signal when you are far away from your router. The BSS color is a numerical identifier of the BSS. 802.11ax radios are able to differentiate between BSSs using BSS color identifier when other radios transmit on the same channel.

These technologies also can solve Wi-Fi congestion issues in open work spaces and conference rooms. The WDAP-C3000AX can offer more powerful throughput coverage of up to 256 client users.







Serving multiple users simultaneously





OFDMA (Orthogonal Frequency Division Multiple Access) Benefits

- Helps transmit small and large packets together to reduce bandwidth burden and improve data transmission performance
- Transmitting data at the same time can effectively reduce the transmission delay for longer frame and low-speed transmission.
- Improves the overall traffic quality, and effectively uses bandwidth in an environment where multiple people use the Internet.
- Increases the number of devices that can be connected to the AP.
- Reduces the power consumption of the device by way of the use of low bandwidth.

A **75%** Reduction in Delays



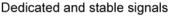


■ Beamforming

Beamforming is to improve your Wi-Fi signal when you are far away from your router. When you use beamforming, Wi-Fi beamforming narrows the focus of that router signal, sending it directly to your devices in a straight line, thus minimizing surrounding signal interference and increasing the strength of the signal that ultimately bring you the following benefits:

- Extend your Wi-Fi coverage
- Deliver a more stable Wi-Fi connection
- Deliver better Wi-Fi throughput
- Reduce router interference



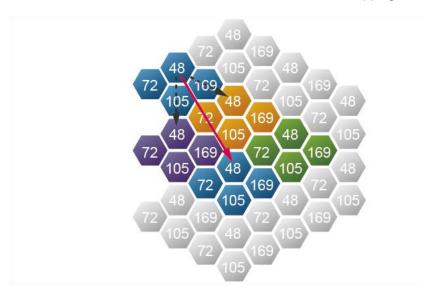




Signal loss

■ BSS Coloring

The BSS color is a numerical identifier of the BSS. 802.11ax radios are able to differentiate between BSSs using BSS color identifier when other radios transmit on the same channel. If the color is the same, this is considered to be an intra-BSS frame transmission. In other words, the transmitting radio belongs to the same BSS as the receiver. If the detected frame has a different BSS color from its own, then the STA considers that frame as an inter-BSS frame from an overlapping BSS.

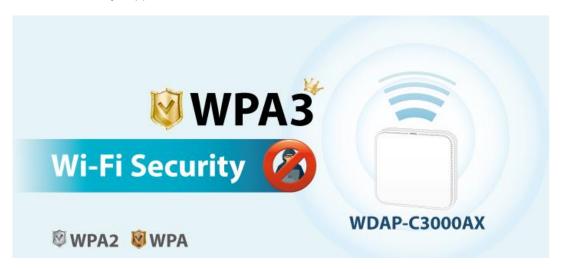




WPA3 Next Generation Security for Your WLAN Solution

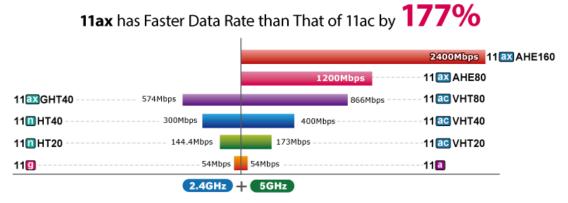
WPA3 is the next generation Wi-Fi security technology that provides the most advanced security protocol to the market. WPA3 makes your connection more secure by preventing hackers from easily cracking your password no matter how simplified the password is. WPA3 can also provide more reliable password-based authentication, so it can better protect the security of individual users.

* WDAP-C3000AX only supports WPA3-Personal.



Super Power Dual-band WLAN Solution

PLANET WDAP-C3000AX, adopting the IEEE 802.11ax Wi-Fi 6 standard, provides a high-speed transmission. The maximum wireless speed in 2.4GHz band is up to 11AX of 574Mbps, and in the 5GHz band is up to 11AX of 2402Mbps. Both the **2.4GHz and 5GHz** wireless connections can also be used simultaneously.



Data Transmission Rates 3000Mbps

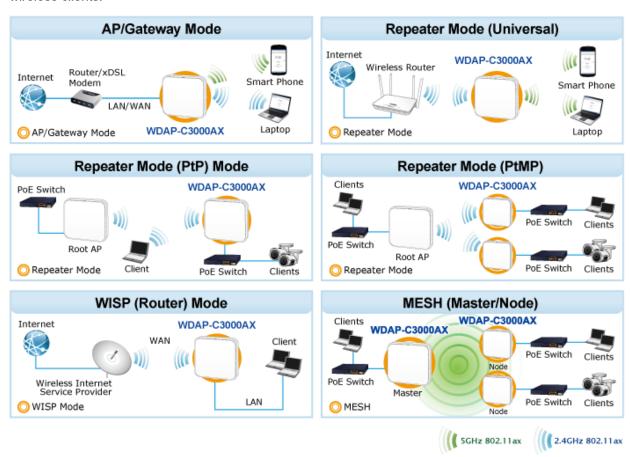
Advanced Security and Rigorous Authentication

The WDAP-C3000AX supports WPA/WPA2/WPA3 wireless encryptions, and also supports the WPA2 Enterprise, WPA/WPA2 Enterprise, which can effectively prevent eavesdropping by unauthorized users or bandwidth occupied by unauthenticated wireless access. Furthermore, any users are granted or denied access to the wireless LAN network based on the ACL (Access Control List) that the administrator pre-established.



Multiple Operation Modes for Various Applications

The WDAP-C3000AX supports the simplified usage modes of AP, Gateway and Repeater, through which they provide more flexibility for users when wireless network is established. Compared with general wireless access points, the WDAP-C3000AX offers more powerful and flexible capability for wireless clients.



Optimized Efficiency in AP Management with Cloud and NMS System

Via the PLANET CloudViewerPro app, you can monitor and control Access Points in real time without a specified location and time limitation. The brand-new GUI configuration wizard helps the system administrator easily set up the WDAP-C3000AX step by step. Besides, the built-in Wi-Fi analyzer provides real-time channel utilization to prevent channel overlapping to assure greater performance. With the automatic transmission power mechanism, distance control and scheduling reboot setting, the WDAP-C3000AX is easy for the administrator to deploy and manage without on-site maintenance. Moreover, you can use PLANET NMS-500 or NMS-1000V AP control function to deliver wireless profiles to multiple APs simultaneously, thus making the central management simple.



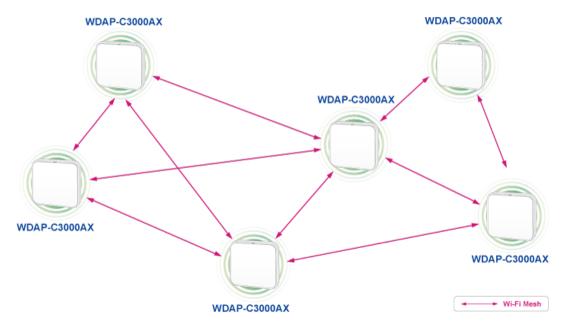
Home Dashboard for Wi-Fi Status



Mesh Wi-Fi for More Hassle-free Network

The WDAP-C3000AX supports Mesh, which is an open standard wireless networking technology that enhances Wi-Fi coverage and stability. It allows different brands of routers and Wi-Fi devices to work together seamlessly, providing a unified network experience. Mesh supports multiple frequency bands, fast roaming, and intelligent management for optimal performance. With its easy setup and automated configuration, users can enjoy extended coverage and a reliable Wi-Fi connection throughout their homes or offices. Mesh is a convenient solution for those seeking improved Wi-Fi coverage and a hassle-free network setup.

Mesh Topology





1.3 Product Features

(Please refer to PLANET website for WDAP-3000AX and WDAP-W3000AX information.)

Industrial Compliant Wireless LAN

- Compliant with the IEEE 802.11a/b/g/n/ac/ax wireless technology
- Equipped with 10/100/1000Mbps RJ45 ports, and auto MDI/MDI-X

RF Interface Characteristics

- 802.11ax 2T2R architecture with data rate of up to 3000Mbps (600Mbps in 2.4GHz and 2400Mbps in 5GHz)
- High output power with multiply-adjustable transmit power control

Multiple Operation Modes and Wireless Features

- Multiple operation modes: AP, gateway and repeater
- Supports OFDMA (orthogonal frequency division multiple access)
- Supports MU-MIMO (multi-user multiple-input multiple-output), Beamforming and BSS
 Coloring
- WMM (Wi-Fi multimedia) provides higher priority to multimedia transmitting over wireless
- Coverage threshold to limit the weak signal of clients occupying session
- Real-time Wi-Fi channel analysis chart and client limit control for better performance
- Supports Terminal Seamless Roaming with 802.11k, 802.11v, and 802.11r
- Supports Mesh connection

Secure Network Connection

- Full encryption supported: WPA3 Personal, WPA2/WPA3 Personal, WPA2 Personal (AES), WPA2 Personal (TKIP), WPA2 Personal (TKIP+AES), WPA/WPA2 Personal (AES), WPA/WPA2 Personal (TKIP), WPA/WPA2 Personal (TKIP+AES), WPA2 Enterprise, WPA/WPA2 Enterprise
- Supports 802.1Q port VLAN supports IP/Port/MAC address/URL filtering, DoS, SPI firewall
- Supports DMZ and port forwarding
- Bandwidth control per IP address to increase network stability

Easy Deployment and Management

- Support management by using PLANET CloudViewer and CloudViewerPro app
- Supports PLANET AP Controllers in AP mode
- Easy discovery by PLANET Smart Discovery
- Self-healing mechanism through system auto reboot setting
- System status monitoring through remote syslog server
- Gateway mode supports PLANET DDNS/Easy DDNS, Captive Portal, RADIUS Server/Client



Product Specifications

	WDAP-C3000AX	WDAP-3000AX	WDAP-W3000AX
	Dual Band 802.11ax	Dual Band 802.11ax	Dual Band 802.11ax
Product	3000Mbps Ceiling-mount	3000Mbps Outdoor Wireless	3000Mbps Indoor
	Wireless Access Point	AP	Wireless AP
Hardware Specific			
Tharaware opeoms	LAN		
	2 x 10/100/1000BASE-T	PoE WAN/LAN: 1 x	PoE WAN/LANx
Interfaces	RJ45 port	10/100/1000BASE-T,	10/100/1000BASE-T,
interraces	Auto-negotiation and auto	auto-MDI/MDIX, 802.3at PoE	auto-MDI/MDIX, 802.3at
	MDI/MDI-X	In	PoE In
	Gain: 4 x Internal 4dBi	Four built-in N-type	Gain: 4 x Internal 1.7dBi
Antennas	antenna (2.4G x2, 5G x2)	connectors	antenna (2.4GHz x2,
	amonna (2.70 A2, 00 A2)	557111001010	5GHz x2)
	Reset button on the rear	Reset button (Press over 5	Reset button *1
Reset Button	side (Press over 5 seconds	seconds to reset the device to	Press over 5 seconds to
	to reset the device to factory	factory default)	reset the device to factory
	default)	,	default
LED Indicators	Power, SYS	Power	Power, SYS
Dimensions	168 x 168 x 32 mm	231 x 80 x 295 mm	86 x 86 x 38.8 mm
(W x D x H)			22 % 33 % 33.0 11
Weight	380 ± 5g	2527 g	165 ± 5g
Material	Plastic	Aluminum	Plastic
	48V DC IN, 0.5A, IEEE		
Power	802.3at PoE+ (WAN/PoE		48~54V 0.5A, IEEE
Requirements	were changed port)	48V 0.5A, IEEE 802.3at PoE+	802.3at PoE+
1041101110	12V DC IN, 1.5A from DC		
	Jack (5.5 x 2.1mm)		
Power	< 15W	< 15W	< 12W
Consumption			
Mounting	Ceiling Mount	Mast mounting	In-wall mount
IP Level	-	IP67	-
ESD Protection	_	±8kV air gap discharge	_
		±4kV contact discharge	
Surge Protection	-	±20kV	-
Wireless Interface	Specifications		
Standard	IEEE 802.11ax		
Juliaula	IEEE 802.11ac		



	IEEE 802.11n			
	IEEE 802.11a			
	IEEE 802.11b			
	IEEE 802.11g			
	IEEE 802.11i			
	IEEE 802.3 10BASE-T			
	IEEE 802.3u 100BASE-TX			
	IEEE 802.3ab 1000BASE-T			
	IEEE 802.3x flow control			
	IEEE 802.11k, 802.11	v, and 802.11r		
Media Access Control	CSMA/CA			
	802.11ax: MIMO-OF	DMA (BPSK / QPSK / 1	16QAM / 64QAM /	⁷ 256QAM, 1024QAM)
Data Mandalati	802.11ac: MIMO-OF	OM (BPSK / QPSK / 16	64QAM / 64QAM / 2	256QAM)
Data Modulation	802.11a/g/n: OFDM (BPSK / QPSK / 16QA	M / 64QAM)	
	802.11b: DSSS (DBPSK / DQPSK / CCK)			
Band Mode	2.4GHz / 5GHz concurrent mode			
	2.4GHz:			
	FCC: 2.412~2.462GHz			
F	ETSI: 2.412~2.472GHz			
Frequency Range	5GHz:			
	FCC: 5.180~5.240GHz, 5.745~5.825GHz			
	ETSI: 5.180~5.700GH	łz		
	ETSI:			
	2.4GHz: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 (13 Channels)			
	5GHz: 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120,124,128,132, 136, 140 (19			
	Channels)			
Operating	FCC:			
Channels	2.4GHz: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 (11 Channels)			
	5GHz: 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116,120,124,128,132, 136, 140, 149,			
	153, 157, 161,165 (24Channels)			
	5GHz channel list may vary in different countries according to their regulations.			
Max. Transmit	FCC: up to 22 ± 1dBr	n		
Power (dBm)	ETSI: < 19dBm (EIRP)			
			WDAP-C3000	WDAP-W3000AX
Receive			AX,	Receive Sensitivity
	Network Mode	Data Rate	WDAP-3000A	(dBm)
Sensitivity			x	
			Receive	



			Sensitivity	
			(dBm)	
	2.4GHz			
	802.11b	1Mbps	-96	-90
	002.115	11Mbps	-87	-83
	802.11g	6Mbps	-93	-84
	802.11g	54Mbps	-75	-70
	802.11n HT20	MCS0	-92	-83
	602.1111 H120	MCS7	-73	-68
	802.11n HT40	MCS0	-89	-83
	802.11n H140	MCS7	-70	-66
	802.11ax HT20	MCS0	-92	-83
	602.11ax H120	MCS11	-64	-56
	000 44 av UT40	MCS0	-89	-83
	802.11ax HT40	MCS11	-61	-53
	5GHz			
	200.44	6Mbps	-90	-83
	802.11a	54Mbps	-75	-70
	802.11n HT20	MCS0	-88	-83
		MCS7	-73	-67
	802.11n HT40	MCS0	-88	-83
		MCS7	-63	-64
	000 44 11700	MCS0	-88	-83
	802.11ac HT20	MCS8	-67	-58
	000 44 11740	MCS0	-88	-83
	802.11ac HT40	MCS9	-64	-57
		MCS0	-88	-85
	802.11ac HT80	MCS9	-60	-56
		MCS0	-88	-83
	802.11ax HT20	MCS11	-61	-57
		MCS0	-88	-83
	802.11ax HT40	MCS11	-58	-56
	802.11ax HT80	MCS0	-84	-82
		MCS11	-55	-53
		MCS0	-82	-88
	802.11ax HT160	MCS11	-51	-51
Software Features				



LAN	Static IP / Dynamic IP		
	Static IP		
WAN	Dynamic IP		
	PPPoE/PPTP/L2TP		
	Access Point		
	Gateway		
Wireless Mode	Repeater		
	WISP		
	MESH		
Channel Width	20MHz, 40MHz, 80MHz, 160MHz		
	WPA3 Personal, WPA2/WPA3 Personal, WPA2 Personal (AES), WPA2 Personal		
Encryption	(TKIP), WPA2 Personal (TKIP+AES), WPA/WPA2 Personal (AES), WPA/WPA2		
Security	Personal (TKIP), WPA/WPA2 Personal (TKIP+AES), WPA2 Enterprise, WPA/WPA2		
	Enterprise		
	Enable/Disable SSID Broadcast		
Wireless Security	Wireless Max. 32 MAC address filtering		
	User Isolation		
Max. SSIDs	8 (4 per radio)		
Max. Clients	256 (200 is suggested, depending on usage)		
Wireless QoS	Supports Wi-Fi Multimedia (WMM)		
	Auto Channel Selection		
	5-level Transmit Power Control Max (100%), Efficient (75%), Enhanced(50%),		
	Standard (25%) or Min (15%)		
Wireless	Client Limit Control, Coverage Threshold		
Advanced	Wi-Fi channel analysis chart		
	Seamless Roaming		
	Beamforming		
	BSS Coloring		
	Device status, wireless client List		
Status	PLANET Smart Discovery		
Monitoring	DHCP client table		
	System Log supports remote syslog server		
VLAN	IEEE 802.1Q VLAN (VID: 1~4094)		
V 27 (1 V	SSID-to-VLAN mapping to up to 4 SSIDs		
Self-healing	Supports auto reboot settings per day/hour		
Management	Remote management through PLANET DDNS/ Easy DDNS		
Central	Configuration backup and restore		
Management	Supports UPnP		
.nanagomont	Supports IGMP Proxy		



Supports PPTP/L2TP/IPSec VPN Pass-through
Supports Captive Portal, RADIUS Server/Client
Applicable controllers: NMS APC, WS APC, VR/IVR APC, ICG APC, PLANET
CloudViewer, PLANET CloudViewerPro

Environment & Certification			
	Operating: -20~ 55 degrees	Operating: -40~ 70 degrees C	Operating: -20~ 55
Tomporeture	С	Storage: -40 ~ 70 degrees C	degrees C
Temperature	Storage: -40 ~ 70 degrees		Storage: -40 ~ 70
	С		degrees C
			Operating: 10 ~ 90%
I I	Operating: 10 ~ 90% (non-co	ondensing)	(non-condensing)
Humidity	Storage: 5 ~ 95% (non-condensing)		Storage: 5 ~ 90%
			(non-condensing)
Regulatory	CE, RoHS		
Remarks [*]: The feature will be supported through firmware/system upgrade.			



Chapter 2. Physical Descriptions

2.1 Product Outlook

WDAP-C3000AX

Dimensions

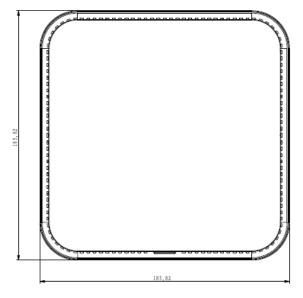
168 x 168 x 32 mm

Weight

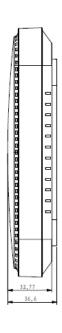
380 ±5g

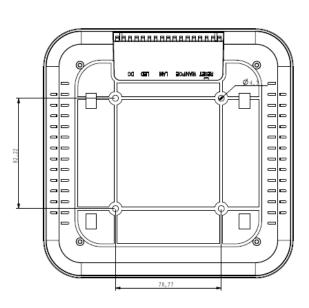
Triple View













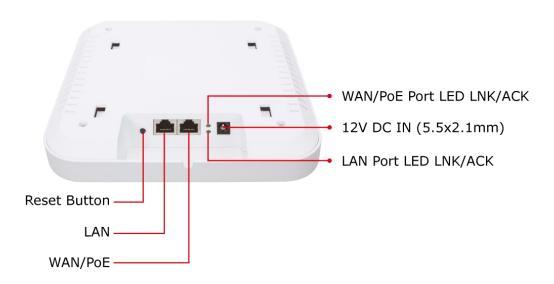
Front Panel



LED definition

LED	STATUS	FUNCTION
PWR	On (Red)	The access point is on.
PWK	Off	System is operating.
	On (Green)	Wireless LAN is working.
		5GHz enabled.
SYS	On (Blue)	Wireless LAN is working.
		2.4GHz enabled. 5GHz disabled.
	Off	Wireless LAN disabled.

Rear Panel





Port definition

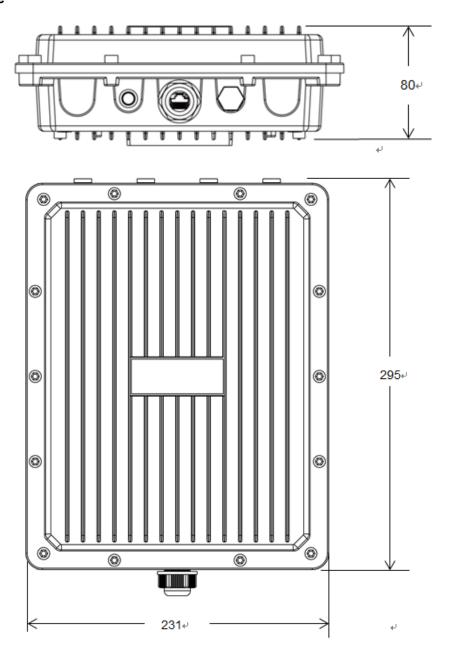
Object	Description		
12V DC	12V DC port for the power adapter (DC-Jack 5.5 x 2.1 mm)		
LED The access point is on.			
LAN port connecting to the network equipment.			
PoE/WAN	LAN/WAN port with Power over Ethernet (PoE) IN		
Donat	To restore to the factory default setting, press and hold the Reset Button for		
Reset	about 5 seconds, and then release it.		

WDAP-3000AX

■ **Dimensions:** 231 x 80 x 295mm

■ Weight: 2500 ±5GHz

Apperance





Port & Connector



LED definition

LED	STATUS	FUNCTION
PWR	On (Green)	The access point is on. And wireless LAN is on.
PVVK	Off	Power Off

Hardware Interface Definition

Object	Description
Antenna Connectors	4 N-type (female) antenna connectors
PoE LAN Port	10/100/1000Mbps RJ45 port, auto MDI/MDI-X 802.3at PoE+ supported, 48VDC In
Reset Button	Press and hold the Reset button for over 5 seconds to return to the factory default setting.
Grounding Terminal	The grounding wire must be attached to this port to prevent damage to the AP from direct lightning strike.



WDAP-W3000AX

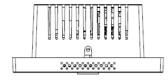
Dimensions (W x D x H)

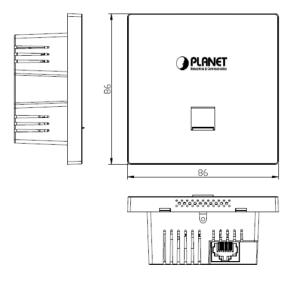
86 x 38.8 x 86 mm

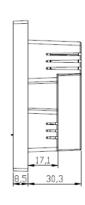
Weight

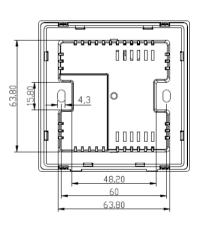
150 ±5g

Triple View





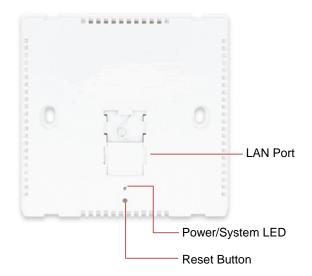




Front Side







Bottom Side



Rear Side





LED definition

LED	STATUS	FUNCTION
PWR	On (Red)	The access point is on.
	Off	System is operating.
sys	On (Green)	Wireless LAN is working.
		5GHz enabled.
	On (Blue)	Wireless LAN is working.
		2.4GHz enabled. 5GHz disabled.
	Off	Wireless LAN disabled.

H/W Interface definition

Object	Description	
WAN	10/100/1000Mbps RJ45 port	
	Connect PoE port to the IEEE 802.3at PoE switch to power on the	
	device.	
LAN	10/100/1000Mbps RJ45 port	
Reset	Press the Reset button for over 5 seconds and then release it to restore	
	system to the factory default settings.	



Chapter 3. Preparation

Before getting into the device's web UI, user has to check the network setting and configure PC's IP address.

3.1 System Requirements

- Broadband Internet Access Service (Cable/xDSL/Ethernet connection)
- One IEEE 802.3at PoE switch (supply power to the WDAP-C3000AX/ WDAP-3000AX)
- PCs with a working Ethernet adapter and an Ethernet cable with RJ45 connectors
- PCs running Windows 98/ME, NT4.0, 2000/XP, Windows Vista / Win 7 / 10 / 11, MAC OS 9 or later, Linux, UNIX or other platforms compatible with TCP/IP protocols



- 1. The AP in the following instructions refers to PLANET WDAP-C3000AX. (Please refer to WDAP-3000AX QIG to install the AP.)
- 2. It is recommended to use Internet Explorer 11, Edge, Firefox or Chrome to access the AP.



3.2 Hardware Installation -- Installing the AP

WDAP-C3000AX

Before installing the AP, make sure your PoE switch is connected to the Internet through the broadband service successfully at this moment. If there is any problem, please contact your local ISP.

Please install the AP according to the following steps. Don't forget to pull out the power plug and keep your hands dry.

Step 1. Take the mounting bracket, put it on the target place by aligning the holes and fix it with the supplied screws.

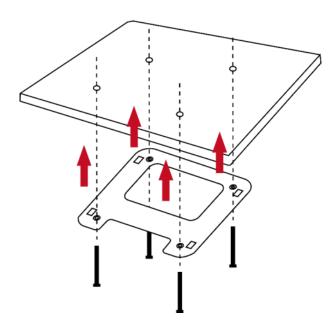


Figure 3-1 Mounting the Bracket



Step 2. Load the device into the mounting bracket, and be sure the device is mated with fixed screws. Then, lock the device in position and plug the Ethernet cable into the WDAP-C3000AX.

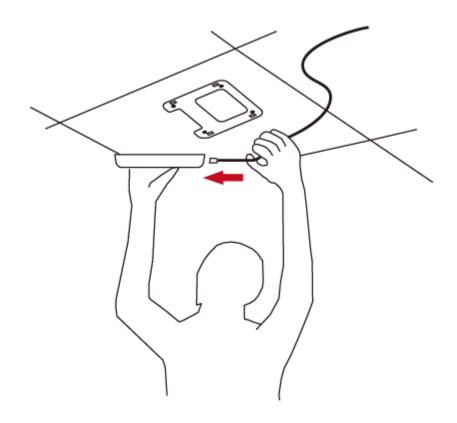


Figure 3-2 Connecting the Ethernet Cable

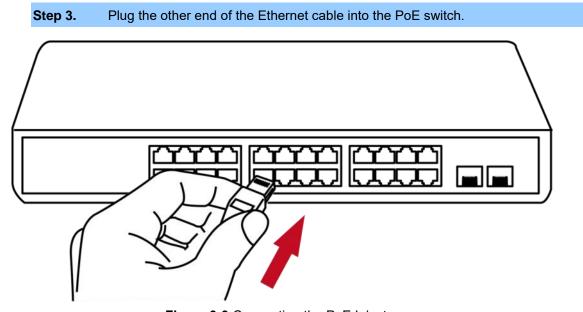


Figure 3-3 Connecting the PoE Injector



WDAP-3000AX

Step 1. Install the backplane to the back of the AP.

Attach the L-type bracket to the backplane and fasten it.

Place the AP to the pole and fasten it with the U-bolt kit.

The AP can be mounted on the pole with a diameter of up to 2".

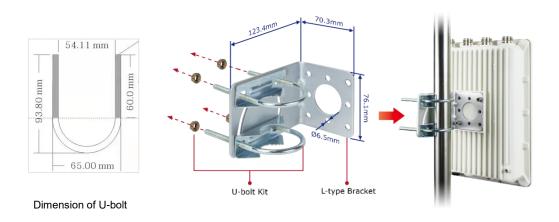


Figure 3-4 Mounting on the cylinder

Step 2. Attach the surge arrestors to each antenna connector.

Attach the antenna equipped with N-type (M) connector to each surge arrestor. Otherwise, connect the antenna through the N-male (male pin) to N-male (male pin) cable.

Plug the RJ45 Ethernet cable into the PoE port of the AP through the waterproof kit, and plug the other side of the RJ45 cable into the PoE port of the PoE switch to finish the installation.

Please remember to finish grounding by consulting the local electrical experts.

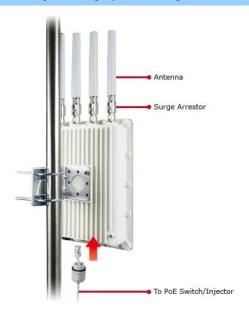


Figure 3-5 Attach the surge arresters, antenna and PoE cable

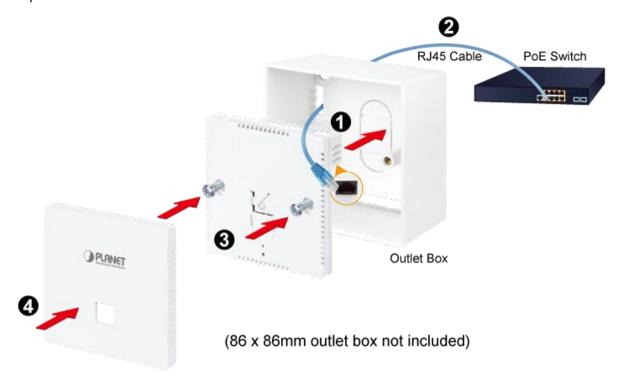


WDAP-W3000AX

Step 1: Use a flat-blade tool to take the cover of the WDAP-W3000AX off.



- Step 2: Connect the WDAP-W3000AX with the PoE Switch.
- Step 3: Assemble them by tightening the two screws.
- Step 4: Place back the cover.





3.3 Manual Network Setup -- TCP/IP Configuration

The WDAP-C3000AX/3000AX IP address <u>default is **DHCP Client** mode and fallback IP is</u>

192.168.1.253, and the fallback default subnet mask is 255.255.255.0. These values can be changed as you want. In this guide, we use all the default values for description.

Connect the WDAP-C3000AX/3000AX with your PC by plugging one end of an Ethernet cable in the LAN port of the AP and the other end in the LAN port of PC. The WDAP-C3000AX/3000AX is powered by a PoE switch.

In the following sections, we'll introduce how to install and configure the TCP/IP correctly in Windows 11. And the procedures in other operating systems are similar. First, make sure your Ethernet Adapter is working, and refer to the Ethernet adapter manual if needed.



3.3.1 Configuring the IP Address Manually (e.g. WDAP-C3000AX)

Summary:

- Set up the TCP/IP Protocol for your PC.
- Configure the network parameters. The IP address is 192.168.1.xxx (If the default IP address of the WDAP-C3000AX is 192.168.1.253, and the DSL router is 192.168.1.254, the "xxx" can be configured to any number from 1 to 252.) and subnet mask is 255.255.255.0.
- 1 Select **Use the following IP address**, and then configure the IP address of the PC.
- 2 For example, the default IP address of the WDAP-C3000AX is 192.168.1.253 and the DSL router is 192.168.1.254, or you may choose from 192.168.1.1 to 192.168.1.252.

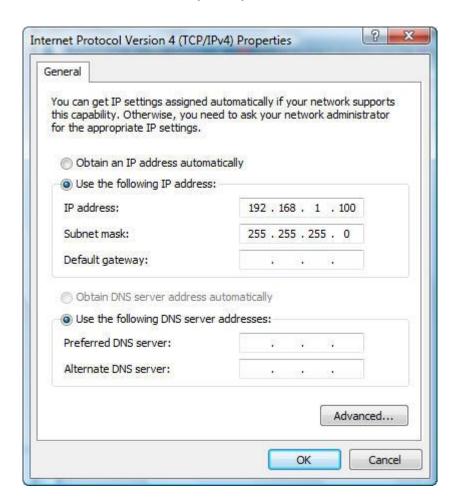


Figure 3-6 TCP/IP Setting



Now click **OK** to save your settings.

Now, you can run the ping command in the **command prompt** to verify the network connection between your PC and the AP. The following example is in **Windows 11** OS. Please follow the steps below:

- 1. Click on Start > Run.
- 2. Type "cmd" in the Search box.

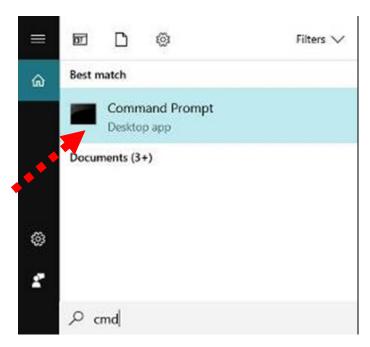


Figure 3-7 Windows Start Menu



- 3. Open a command prompt, type ping 192.168.1.253 and then press Enter.
 - If the result displayed is similar to Figure 3-7, it means the connection between your PC and the AP has been established well.

```
Administrator: C:\Windows\system32\cmd.exe

Microsoft Windows [Version 6.1.76011
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\>ping 192.168.1.253

Pinging 192.168.1.253 with 32 bytes of data:

Reply from 192.168.1.253: bytes=32 time=17ms TTL=64
Reply from 192.168.1.253: bytes=32 time=18ms TTL=64

Ping statistics for 192.168.1.253:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli—seconds:

Minimum = 17ms, Maximum = 18ms, Average = 17ms

C:\>_______
```

Figure 3-7 Successful Result of Ping Command

 If the result displayed is similar to 3-8, it means the connection between your PC and the AP has failed.

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Documents and Settings\user\ping 192.168.1.253

Pinging 192.168.1.253 with 32 bytes of data:

Destination host unreachable.
Destination host unreachable.
Destination host unreachable.
Destination host unreachable.

Ping statistics for 192.168.1.253:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\Documents and Settings\user\_
```

Figure 3-8 Failed Result of Ping Command

If the address is 0.0.0.0, check your adapter installation, security settings, and the settings on your AP. Some firewall software programs may block a DHCP request on newly installed adapters.



3.4 Starting Setup in the Web UI

It is easy to configure and manage the AP with the web browser.

Step 1. To access the configuration utility, open a web-browser and enter the default IP address https://192.168.1.253 in the web address field of the browser.

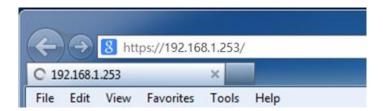


Figure 3-9 Login by Default IP Address

Step 2. When the login window pops up, please enter username and password. Please enter the default user name "admin" and password. Refer to Step 3 to determine your initial login password.



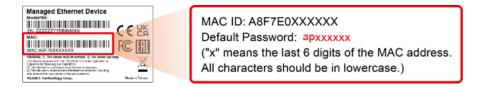
Figure 3-10 Login Window



Step 3. Default Username: admin

Default Password: ap + the last 6 characters of the MAC ID in lowercase

Find the MAC ID on your device label. The default password is "sw" followed by the last six lowercase characters of the MAC ID.



Step 4. After logging in, you will be prompted to change the initial username and password to a permanent one.

The Password must contain 8 to 31 characters, including uppercase, lowercase, numerals and other symbols. Please note spaces (blanks) are not accepted.





If the above screen does not pop up, it may mean that your web browser has been set to a proxy. Go to Tools menu> Internet Options> Connections> LAN Settings on the screen that appears, uncheck **Using Proxy** and click **OK** to finish it.



3.5 Planet Smart Discovery Utility

To easily list the WDAP-C3000AX in your Ethernet environment, the Planet Smart Discovery Utility is an ideal solution.

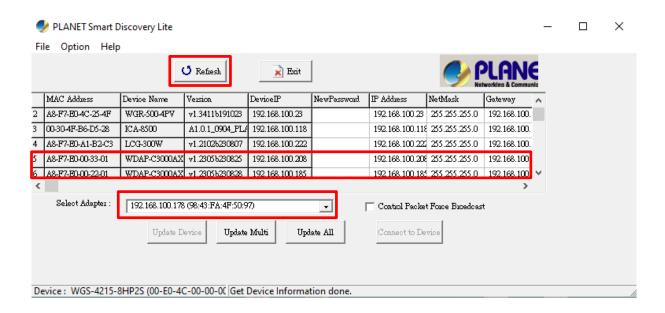
The following installation instructions guide you to running the Planet Smart Discovery Utility.

Step 1: Download the Planet Smart Discovery Utility to administrator PC.

Step 2: Run this utility and the following screen appears.



Step 3: Press "**Refresh**" for the current connected devices in the discovery list as shown in the following screen:



Step 4: Press "Connect to Device" and then the Web login screen appears.



The fields in the white background can be modified directly and then you can apply the new setting by clicking "**Update Device**".



Chapter 4. Web-based Management

This chapter delivers a detailed presentation of AP's functionalities and allows you to manage the AP with ease. (The web GUI and topology below uses the WDAP-C3000AX as an example.)



Figure 4-1 Main Web Page



Main Menu

The main menu displays the product name, function menu, and main information in the center. Via the Web management, the administrator can set up the device by selecting the functions those listed in the function menu and button as shown in Figures 4-2 and 4-3.



Figure 4-2: Function Menu

Object	Description
System	Provides system information of the router.
Network	Provides WAN, LAN and network configuration of the router.
Security	Provides firewall and security configuration of the router.
Wireless	Provides wireless configuration of the router.
Maintenance	Provides firmware upgrade and setting file restore/backup configuration of the router.



Figure 4-3: Function Button

Object	Description
C	Click the "Refresh button" to refresh the current web page.
F	Click the "Logout button" to log out the web UI of the router.
Auto Logout ∨	Set "Auto Logout" to log out the web UI of the router. Auto Logout Off 3 min 5 min 10 min 15 min



4.1 System

Use the system menu items to display and configure basic administrative details of the router. The System menu shown in Figure 4-4 provides the following features to configure and monitor system.

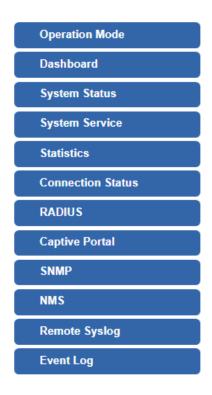


Figure 4-4: System Menu

Object	Description
Operation Mode	The Wizard will guide the user to configuring the router easily and quickly.
Dashboard	The overview of system information includes connection, port, and system
Dasiiboaru	status.
System Status	Display the status of the system, Device Information, LAN and WAN.
System Service	Display the status of the system, Secured Service and Server Service
Statistics	Display statistics information of network traffic of LAN and WAN.
Connection Status	Display the DHCP client table and the ARP table
RADIUS	Enable/Disable RADIUS on routers
Captive Portal	Enable/Disable Captive Portal on routers
SNMP	Display SNMP system information
NMS	Enable/Disable NMS on routers
Remote Syslog	Enable Captive Portal on routers
Event Log	Display Event Log information



4.1.1 Operation Mode

The Wizard guides you to configuring the WDAP-C3000AX in a different mode, including AP, gateway, repeater and WISP modes. The wizard also supports MESH function set up.

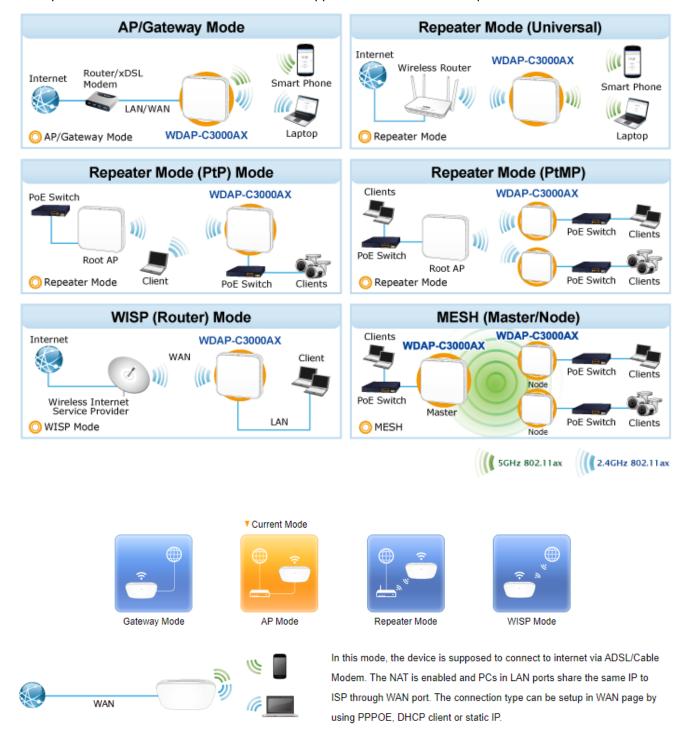


Figure 4-5 Operation Mode





Figure 4-6 Wireless Connection-MESH set up



The default operation mode is AP Mode.



Gateway Mode (Router) 4.1.2

Click "Wizard" → "Gateway Mode" and the following page will be displayed. This section allows you to configure the Gateway mode.

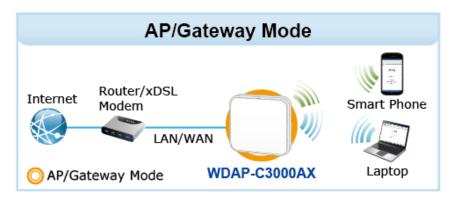


Figure 4-7: Setup Wizard

Step 1: Operation Mode

Select operation Mode.





Step 2: LAN Interface

Set up the IP Address and Subnet Mask for the LAN interface as shown in Figure 5-5.

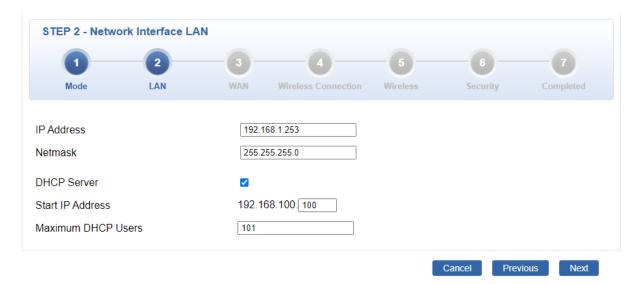


Figure 4-8: Setup Wizard – LAN Configuration

Object	Description
IP Address	Enter the IP address of your router. The default is 192.168.1.1.
Subnet Mask	An address code that determines the size of the network. Normally
	use 255.255.255.0 as the subnet mask.
DUCD Comes	By default, the DHCP Server is enabled.
DHCP Server	If user needs to disable the function, please uncheck the box.
04 417 411	By default, the start IP address is 192.168.1.100.
Start IP Address	Please do not set it to the same IP address of the router.
	By default, the maximum DHCP users are 101, which means the router
Maximum DHCP Users	will provide DHCP client with IP address from 192.168.1.100 to
	192.168.1.200 when the start IP address is 192.168.1.100.
Next	Press this button to the next step.
Cancel	Press this button to undo any changes made locally and revert to
	previously saved values.



Step 3: WAN Interface

The router supports two access modes on the WAN side shown in Figure 4-9

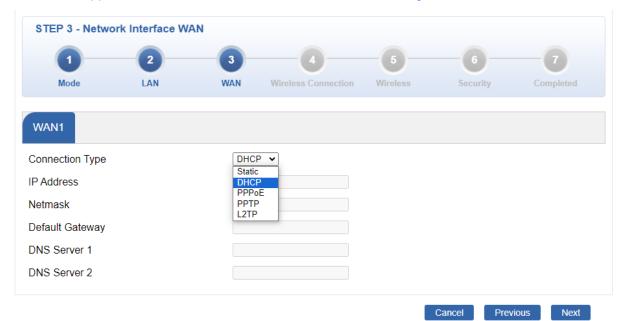


Figure 4-9: Setup Wizard - WAN 1 Configuration

Mode 1 -- Static IP

Select **Static IP Address** if all the Internet port's IP information is provided to you by your ISP. You will need to enter the **IP Address**, **Netmask**, **Default Gateway** and **DNS Server** provided to you by your ISP. Each IP address entered in the fields must be in the appropriate IP form, which are four octets separated by a dot (x.x.x.x). The router will not accept the IP address if it is not in this format. The setup is shown in Figure 4-10.



Figure 4-10: WAN Interface Setup – Static IP Setup



Object	Description
IP Address	Enter the IP address assigned by your ISP.
Netmask	Enter the Netmask assigned by your ISP.
Default Gateway	Enter the Gateway assigned by your ISP.
DNS Server	The DNS server information will be supplied by your ISP.
Next	Press this button for the next step.
Previous	Press this button for the previous step.
Cancel	Press this button to undo any changes made locally and revert
	to previously saved values.

Mode 2 -- DHCP Client

Select DHCP Client to obtain IP Address information automatically from your ISP. The setup is shown in Figure 4-11.

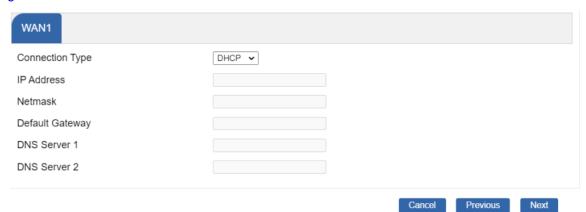


Figure 4-11: WAN Interface Setup – DHCP Setup



Step 4: Network Interface Wireless Connection

Set up the Security Settings as shown in Figure 5-9.



Figure 4-12: Wireless Connection- set up

Object	Description
Mesh Wi-Fi Mode	Select the Mesh role for Master or Node to enable Mesh function.
	The default configuration is disabled.
Select Radio	Select 2.4GHz or 5GHz for MESH ID radio.
Mesh ID	Enter the Mesh ID, just like SSID, or use the discover Mesh ID from the Master/Node Mesh AP.
Encryption	Selector is for the encryption for the sake of security. WPA3 Personal WPA3 Personal WPA2WPA3 Personal WPA2 Personal (AES) WPA2 Personal (TKIP) WPA2 Personal (TKIP+AES) WPAWPA2 Personal (AES) WPAWPA2 Personal (TKIP) WPAWPA2 Personal (AES) WPAWPA2 Personal (TKIP) WPAWPA2 Personal (TKIP) WPA Personal (TKIP) WPA Personal (TKIP) WPA Personal (TKIP) WPA Personal (TKIP) WPA2 Enterprise WPAWPA2 Enterprise
Passphrase	Enter the password for Mesh ID; the default configuration is null.
Next	Press this button for the next step.
Previous	Press this button for the previous step.
Cancel	Press this button to undo any changes made locally and revert to
	previously saved values.



Step 5: Network Interface Wireless

Set up the Security Settings as shown in Figure 4-13.

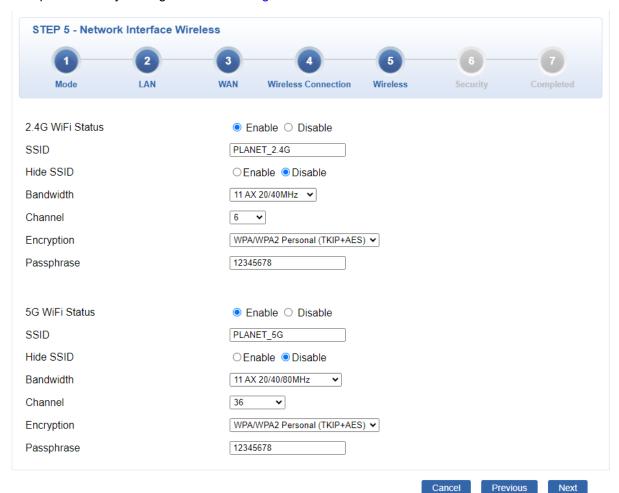


Figure 4-13: Wireless Setup

Object	Description
2.4G/5G Wi-Fi Status	Enable or Disable 2.4GHz/5GHz radio.
0010	Enter the SSID ID name. The default configuration is
SSID	PLANET_2.4G/PLANET_5G.
Bandwidth	Select bandwidth for 2.4GHz/5GHz
Channel	Select channel for 2.4GHz/5GHz
Encryption	Selector is the encryption for the sake of security. WPA3 Personal WPA3 Personal WPA2/WPA3 Personal WPA2 Personal (AES) WPA2 Personal (TKIP) WPA2 Personal (TKIP+AES) WPAWPA2 Personal (TKIP) WPAWPA2 Personal (TKIP) WPAWPA2 Personal (TKIP) WPAWPA2 Personal (TKIP+AES) WPAP Personal (TKIP+AES) WPA Personal (TKIP+AES) WPA Personal (TKIP) WPA Personal (TKIP+AES) WPA2 Enterprise WPAWPA2 Enterprise
Passphrase	Enter the password for SSID; the default configuration is null.



Next	Press this button for the next step.
Previous	Press this button for the previous step.
Cancel	Press this button to undo any changes made locally and revert to
	previously saved values.

Step 6: Security Setting

Set up the Security Settings as shown in Figure 4-14.



Figure 4-14: Setup Wizard - Security Setting

Object	Description
SPI Firewall	The SPI Firewall prevents attack and improper access to network
	resources.
	The default configuration is enabled.
	SYN Flood is a popular attack way. DoS and DDoS are TCP
Plack SVN Flood	protocols. Hackers like using this method to make a fake connection
Block SYN Flood	that involves the CPU, memory, and so on.
	The default configuration is enabled.
	ICMP is kind of a pack of TCP/IP; its important function is to transfer
Diagle ICMD Flood	simple signal on the Internet. There are two normal attack ways
Block ICMP Flood	which hackers like to use, Ping of Death and Smurf attack.
	The default configuration is disabled.
Block WAN Ping	Enable the function to allow the Ping access from the Internet
	network.
	The default configuration is disabled.



	Enable the function to allow the web server access of the router from
Remote Management	the Internet network.
	The default configuration is disabled.
Next	Press this button for the next step.
Previous	Press this button for the previous step.
Cancel	Press this button to undo any changes made locally and revert to
	previously saved values.

Step 7: Setup Completed

The page will show the summary of LAN, WAN and Security settings as shown in Figure 4-15.

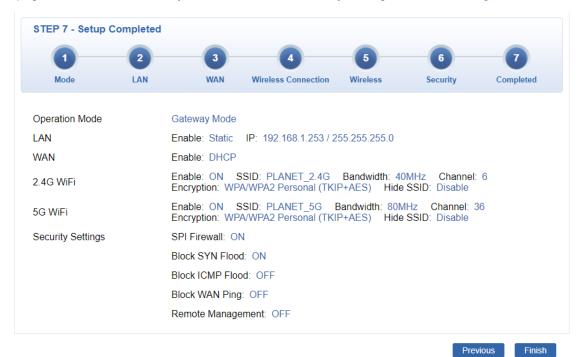


Figure 4-15: Setup Wizard - Setup Completed

Object	Description
Finish	Press this button to save and apply changes.
Previous	Press this button for the previous step.



4.1.3 Dashboard

The dashboard provides an overview of system information including connection, port, and system status as shown in Figure 4-16.

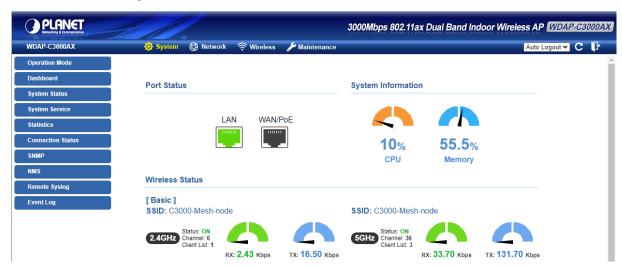


Figure 4-16: Dashboard

Port Status

Object	Description
	Ethernet port is in use.
	Ethernet port is not in use.

Wireless Status

Object		Description
RX: 0 bps	TX: 0 bps	Wireless is in use.
RX: 0 bps	TX: 0 bps	Wireless is not in use.

System Information

Object	Description
CPU	Display the CPU loading
Memory	Display the memory usage



4.1.4 System Status

This page displays system information as shown in Figure 4-17.

Device Information

 Model Name
 WDAP-C3000AX

 Firmware Version
 v1.2305b230825

Region ETSI

Current Time 2023-10-03 Tuesday 16:59:56

Running Time 5 days, 06:28:55

LAN

MAC Address A8:F7:E0:00:33:01

Connection Type DHCP

IP Address 192.168.100.208
Netmask 255.255.255.0
Gateway 192.168.100.1

Mesh WiFi

Status ON

Mesh ID PLANET-Mesh

Channel 36

 Encryption
 WPA3 Personal

 BSSID
 AA:F7:E0:00:22:01

Signal -58 dBm Link Quality 74%

2.4GHz WiFi

Status ON

SSID C3000-Mesh-node

Channel 6

Encryption WPA/WPA2 Personal (TKIP+AES)

MAC Address A8:F7:E0:00:33:03

5GHz WiFi

Status ON

SSID C3000-Mesh-node

Channel 36

Encryption WPA/WPA2 Personal (TKIP+AES)

MAC Address A8:F7:E0:00:33:04

Figure 4-17: Status



4.1.5 System Service

This page displays the number of packets that pass through the router on the WAN and LAN. The statistics are shown in Figure 4-18.

Sen	Server Service		
#	Action	Service	Status
1	Enabled	DHCP Service	DHCP Table: 5
2	▼ Disabled	DDNS Service	Not enabled
3	▼ Disabled	Quality of Service	
4	▼ Disabled	RADIUS Service	
5	▼ Disabled	Captive Portal	
6	Enabled	2.4G WiFi	SSID: PLANET_2.4G
7	Enabled	5G WiFi	SSID: PLANET_5G

Sec	Secured Server Service		
#	Action	Service	Status
1	✓ Enabled	Cyberseurity	TLS 1.1, TLS 1.2, TLS 1.3
2	Enabled	SPI Firewall	
3	X Disabled	MAC Filtering	(Active / Maximum Entries) 0 / 32
4	X Disabled	IP Filtering	(Active / Maximum Entries) 0 / 32
5	X Disabled	Web Filtering	(Active / Maximum Entries) 0 / 32

Figure 4-18: Service



4.1.6 Statistics

This page displays the number of packets that pass through the router on the WAN and LAN. The statistics are shown in Figure 4-19.

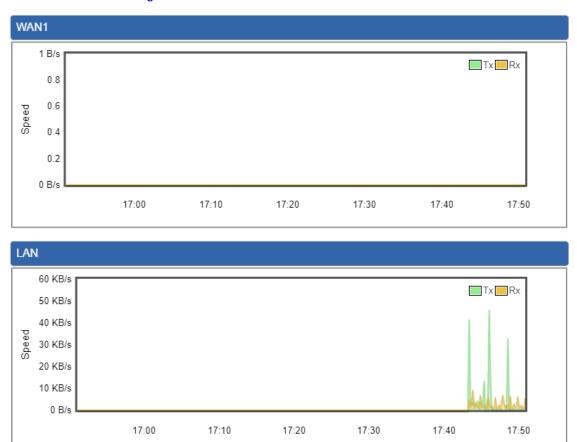


Figure 4-19: Statistics

4.1.7 Connection Status

The page will show the DHCP Table and ARP Table. The status is shown in Figure 4-20.

DHCP Table				
Name	IP Address	MAC Address	Expiration Time	
ARP Table				
IP Address		MAC Address	ARP Type	
192.168.1.1	1	00:30:4f:9e:b7:df	dynamic	
192.168.1.1	88	00:05:1b:c5:51:14	dynamic	
192.168.1.2	39	a8:f7:e0:6a:a3:a4	dynamic	
192.168.1.1		00:e0:53:00:12:01	dynamic	

Figure 4-20: Connection Status



4.1.8 RADIUS

Remote Authentication Dial-In User Service (RADIUS) is a security authentication client/server protocol that supports authentication, authorization and accounting. The RADIUS Server page is shown in Figure 4-21.

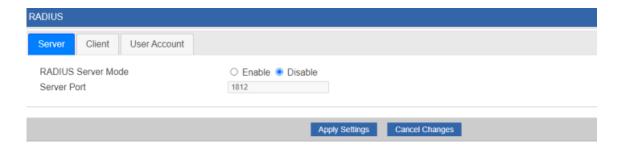


Figure 4-21: RADIUS

Object	Description
RADIUS	Disable or enable the RADIUS function.
KADIUS	The default configuration is disabled.
Server Port	Default: 1812

4.1.9 Captive Portal

Captive portal service gives the ability to organize a public (or guest) Wi-Fi zone with user authorization. A captive portal is the authorization page that forcibly redirects users who connect to the public network before accessing the Internet. The Captive portal page is shown in Figure 4-22.

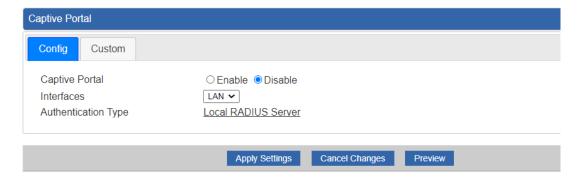


Figure 4-22: Captive Portal

Object	Description
Captive Portal	Disable or enable the Captive Portal function.
	The default configuration is disabled.

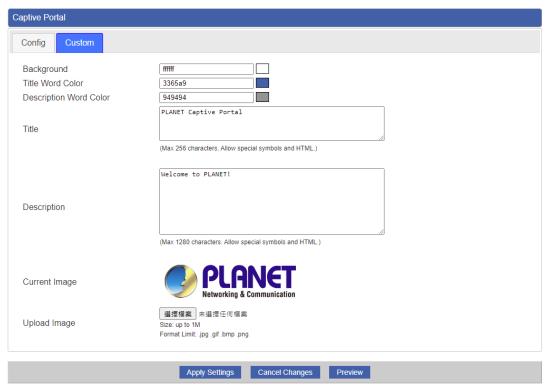




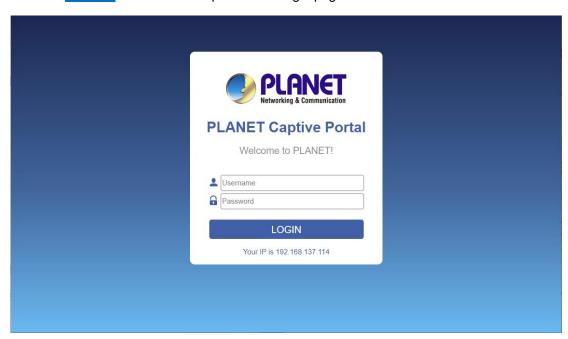
Captive Portal function can be only configured at Gateway Mode

■ Customizing the Custom Captive Portal Web Page

1. Click Custom



- 2. After configure and upload image, click Apply Settings button
- 3. Click Preview to check the Captive Portal login page





4.1.10 SNMP

This page provides SNMP setting of the router as shown in Figure 4-23.

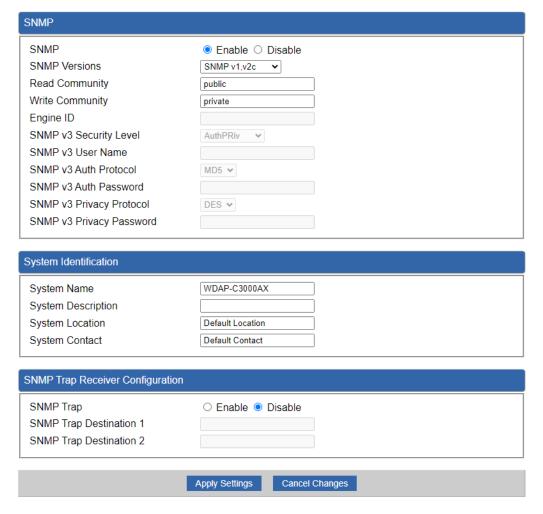


Figure 4-23: SNMP

Object	Description
Enable SNMP	Disable or enable the SNMP function.
	The default configuration is enabled.
Read/Write Community	Allows entering characters for SNMP Read/Write Community of the
	router.
System Name	Allows entering characters for system name of the router.
System Location	Allows entering characters for system location of the router.
System Contact	Allows entering characters for system contact of the router.
Apply Settings	Press this button to save and apply changes.
Cancel Changes	Press this button to undo any changes made locally and revert to
	previously saved values.



4.1.11 NMS

The CloudViewer Server – Internet screens – is shown in Figure 4-24.

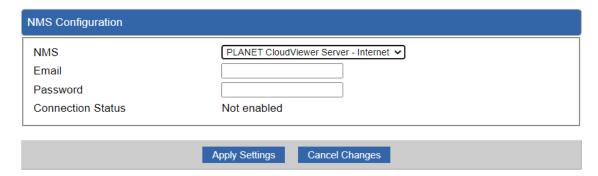


Figure 4-24: CloudViewer Server

Object	Description	
Email	The email is registered on CloudViewer Server	
Password	The password of your CloudViewer account	
Connection Status	Indicates the status of connecting CloudViewer Server	

4.1.12 Remote Syslog



Figure 4-25: Remote Syslog

Object	Description
Enable Remote Syslog	Enable Captive Portal on routers



4.1.13 Event Log

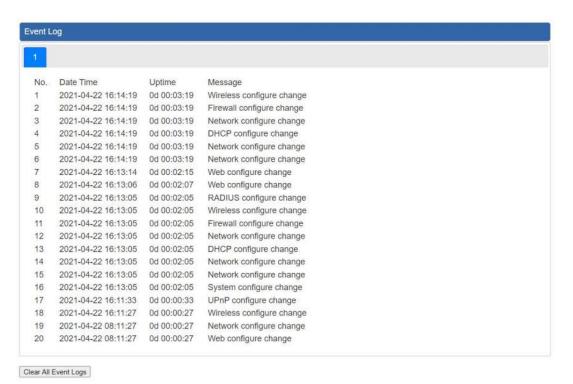


Figure 4-26: Event Log

Object	Description
Event Log	Display Event Log information



4.2 Network

The Network function provides WAN, LAN and network configuration of the router as shown in Figure 4-27.



Figure 4-27: Network Menu

Object	Description	
WAN	Allows setting WAN interface.	
LAN	Allows setting LAN interface.	
UPnP	Disable or enable the UPnP function.	
	The default configuration is disabled.	
Routing	Allows setting Route.	
RIP	Disable or enable the RIP function.	
KIP	The default configuration is disabled.	
OSPF	Disable or enable the OSPF function.	
	The default configuration is disabled.	
IGMP	Disable or enable the IGMP function.	
IGIVIP	The default configuration is disabled.	
IPv6 Allows setting IPv6 WAN interface.		
DHCP Allows setting DHCP Server.		
DDNS Allows setting DDNS and PLANET DDNS.		



4.2.1 WAN

This page is used to configure the parameters for Internet network which connects to the WAN port of the router as shown in Figure 4-28. Here you may select the access method by clicking the item value of WAN access type.

WAN1 Configuration	
Display Name	WAN1
Connection Type	Static 🗸
IP Address	
Netmask	
Default Gateway	
DNS Server 1	
DNS Server 2	
	Apply Settings Cancel Changes
WANG 5 "	
WAN1 Configuration	
Display Name	WAN1
Connection Type	DHCP V
IP Address	
Netmask	
Default Gateway	
DNS Server 1	
DNS Server 2	
	Apply Settings Cancel Changes
WAN1 Configuration	
Display Name	WAN1
Connection Type	PPPoE V
Username	
Password	
	Apply Settings Cancel Changes



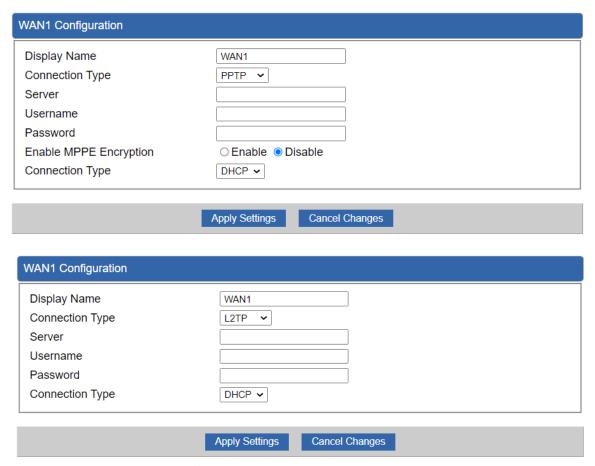


Figure 4-28: WAN

Object	Description		
	Please sele	ct the corresponding WAN Access Type for the Internet,	
	and fill out the correct parameters from your local ISP in the fields		
	which appea	which appear below.	
		Select Static IP Address if all the Internet ports' IP	
		information is provided to you by your ISP (Internet	
	Static	Service Provider). You will need to enter the IP	
WAN Access Type		address, Netmask, Gateway, and DNS Server provided	
		to you by your ISP.	
		Each IP address entered in the fields must be in the	
		appropriate IP form, which are four octets separated by	
		a dot (x.x.x.x). The router will not accept the IP address	
		if it is not in this format.	
		IP Address	
		Enter the IP address assigned by your ISP.	
		Netmask	
		Enter the Subnet Mask assigned by your ISP.	
		Gateway	



Object		Description
		Enter the Gateway assigned by your ISP.
		DNS Server
		The DNS server information will be supplied by your
		ISP.
	DUCD	Select DHCP Client to obtain IP Address information
	DHCP	automatically from your ISP.
		Select PPPOE if your ISP is using a PPPoE connection
	PPPoE	and provide you with PPPoE user name and password
		info.
	DDTD	Enable or disable PPTP to pass through PPTP
	L2TP	communication data.
		Enable or disable L2TP to pass through L2TP
		communication data.



WAN IP, whether obtained automatically or specified manually, should NOT be on the same IP net segment as the LAN IP; otherwise, the router will not work properly. In case of emergency, press the hardware-based "Reset" button.



4.2.2 LAN

This page is used to configure the parameters for local area network which connects to the LAN port of your router as shown in Figure 4-29. Here you may change the settings for IP address, subnet mask, DHCP, etc.



Figure 4-29: LAN Setup

Object	Description
IP Address	The LAN IP address of the router and default is 192.168.1.1.
Net Mask	Default is 255.255.255.0 .

4.2.3 UpnP



Figure 4-30: UpnP

Object	Description
UpnP	Set the function as enable or disable



4.2.4 Routing

Please refer to the following sections for the details as shown in Figures 5-28 and 29.



Figure 4-31: Routing table

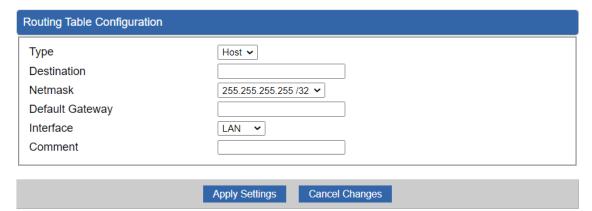


Figure 4-32: Routing setup

Routing tables contain a list of IP addresses. Each IP address identifies a remote router (or other network gateway) that the local router is configured to recognize. For each IP address, the routing table additionally stores a network mask and other data that specifies the destination IP address ranges that remote device will accept.

Object	Description
Туре	There are two types: Host and Net. When the Net type is selected, user does not need to input the Gateway.
Destination	The network or host IP address desired to access.
Net Mask	The subnet mask of destination IP.
Gateway	The gateway is the router or host's IP address to which packet was sent.
	It must be the same network segment with the WAN or LAN port.
Intentone	Select the interface that the IP packet must use to transmit out of the
Interface	router when this route is used.
Comment	Enter any words for recognition.



4.2.5 RIP



Figure 4-33 RIP

Object	Description
Dynamic Route	Disable or enable the RIP function
RIP Versions	Set RIP Versions

4.2.6 OSPF



Figure 4-33: OSPF

Object	Description
OSPF	Enable the OSPF function.
Router ID	Set Router ID
Area ID	Set Area ID



4.2.7 IGMP

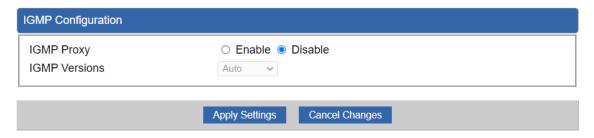
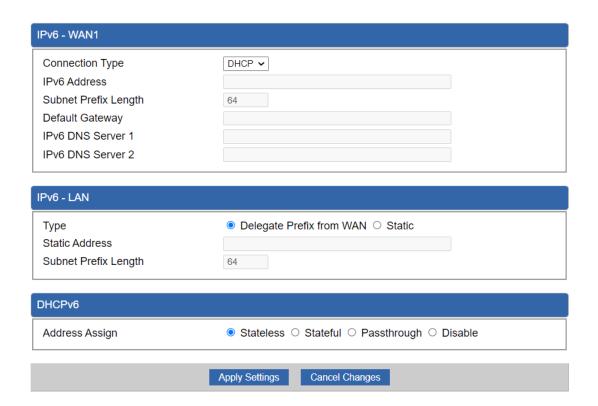


Figure 4-35: IGMP

Object	Description
IGMP	Enable the IGMP function.
IGMP Versions	Select the GMP Versions

4.2.8 IPv6

This page is used to configure parameter for IPv6 internet network which connects to WAN port of the router as shown in Figure 4-36. It allows you to enable IPv6 function and set up the parameters of the router's WAN. In this setting you may change WAN connection type and other settings.





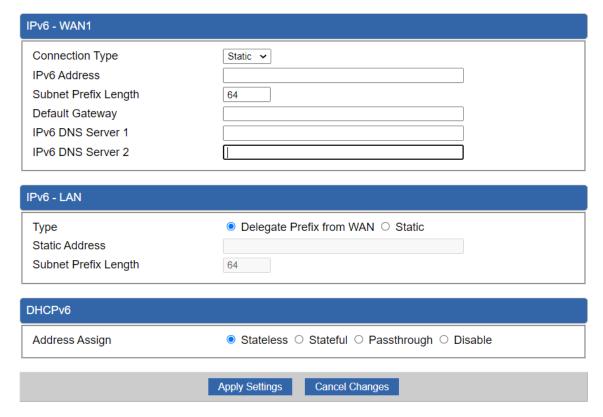


Figure 4-36: IPv6 WAN setup

Object	Description
Connection Type	Select IPv6 WAN type either by using DHCP or Static.
IPv6 Address	Enter the WAN IPv6 address.
Subnet Prefix Length	Enter the subnet prefix length.
Default Gateway	Enter the default gateway of the WAN port.
IPv6 DNS Server 1	Input a specific DNS server
IPv6 DNS Server 2	Input a specific DNS server



4.2.9 DHCP

The DHCP service allows you to control the IP address configuration of all your network devices. When a client (host or other device such as networked printer, etc.) joins your network it will automatically get a valid IP address from a range of addresses and other settings from the DHCP service. The client must be configured to use DHCP; this is something called "automatic network configuration" and is often the default setting. The setup is shown in Figure 4-37.

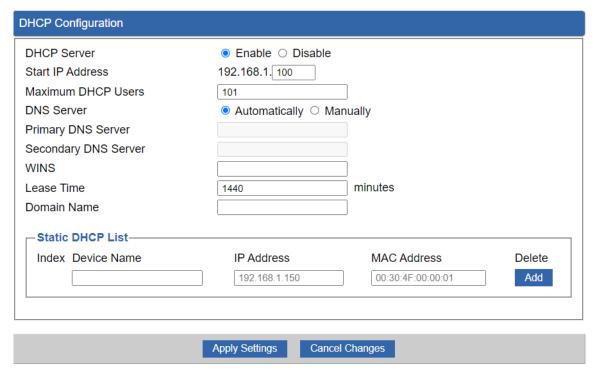


Figure 4-38: DHCP

Object	Description
	By default, the DHCP Server is enabled, meaning the router
DHCP Service	will assign IP addresses to the DHCP clients automatically.
	If user needs to disable the function, please set it as disable.
Start IP Address	By default, the start IP address is 192.168.1.100.
Start in Address	Please do not set it to the same IP address of the router.
	By default, the maximum DHCP users are 101, meaning the
Mayimum DUCD Haara	router will provide DHCP client with IP address from
Maximum DHCP Users	192.168.1.100 to 192.168.1.200 when the start IP address is
	192.168.1.100.
	By default, it is set as Automatically, and the DNS server is
DV0 0	the router's LAN IP address.
DNS Server	If user needs to use specific DNS server, please set it as
	Manually, and then input a specific DNS server.



Object	Description
Primary/Secondary DNS Server	Input a specific DNS server.
WINS	Input a WINS server if needed.
	Set the time for using one assigned IP. After the lease time,
Lagas Tima	the DHCP client will need to get new IP addresses from the
Lease Time	router.
	Default is 1440 minutes.
Domain Name	Input a domain name for the router.

4.2.10 DDNS

The router offers the DDNS (Dynamic Domain Name System) feature, which allows the hosting of a website, FTP server, or e-mail server with a fixed domain name (named by yourself) and a dynamic IP address, and then your friends can connect to your server by entering your domain name no matter what your IP address is. Before using this feature, you need to sign up for DDNS service providers such as **PLANET DDNS** (http://www.planetddns.com) and set up the domain name of your choice.

PLANET DDNS website provides a free DDNS (Dynamic Domain Name Server) service for PLANET devices. Whether the IP address used on your PLANET device supporting DDNS service is fixed or dynamic, you can easily connect the devices anywhere on the Internet with a meaningful or easy-to-remember name you gave. PLANET DDNS provides two types of DDNS services. One is **PLANET DDNS** and the other is **PLANET Easy DDNS** as shown in Figure 5-35.

PLANET DDNS

For example, you've just installed a PLANET IP camera with dynamic IP like 210.66.155.93 in the network. You can name this device as "Mycam1" and register a domain as Mycam1.planetddns.com at PLANET DDNS (http://www.planetddns.com). Thus, you don't need to memorize the exact IP address but just the URL link: Mycam1.planetddns.com.

PLANET Easy DDNS

PLANET Easy DDNS is an easy way to help user to get your Domain Name with just one click. You can just log in to the Web Management Interface of your devices, say, your router, and check the DDNS menu and just enable it. You don't need to go to http://www.planetddns.com to apply for a new account. Once you enabled the Easy DDNS, your PLANET Network Device will use the format PLxxxxxx where xxxxxxx is the last 6 characters of your MAC address that can be found on the Web page or bottom label of the device. (For example, if the router's MAC address is A8-F7-E0-81-96-C9, it will be converted into pt8196c9.planetddns.com)



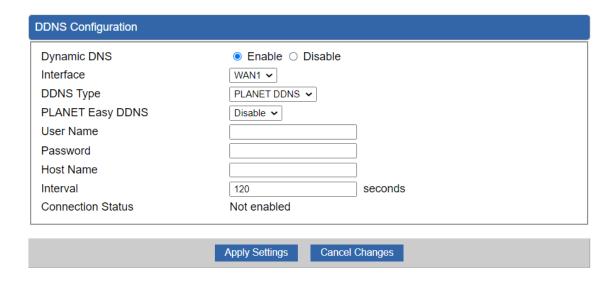


Figure 4-39: PLANET DDNS

Object	Description	
DDNS Service	By default, the DDNS service is disabled.	
	If user needs to enable the function, please set it as enable.	
Interface	User is able to select the interface for DDNS service.	
	By default, the interface is WAN 1.	
	There are three options:	
	PLANET DDNS: Activate PLANET DDNS service.	
DDNS Type	2. DynDNS: Activate DynDNS service.	
ррио туре	3. NOIP: Activate NOIP service.	
	Note that please first register with the DDNS service and set up the	
	domain name of your choice to begin using it.	
	When the PLANET DDNS service is activated, user is able to select	
	to enable or disable Easy DDNS.	
Easy DDNS	When this function is enabled, DDNS hostname will appear	
	automatically. User doesn't go to http://www.planetddns.com to	
	apply for a new account.	
User Name	The user name is used to log into DDNS service.	
Password	The password is used to log into DDNS service.	
Host Name	The host name as registered with your DDNS provider.	
Interval	Set the update interval of the DDNS function.	
Connection Status	Show the connection status of the DDNS function.	



4.3 Security

The Security menu provides Firewall, Access Filtering and other functions as shown in Figure 4-40. Please refer to the following sections for the details.



Figure 4-40: Security menu

Object	Description
Firewall	Allows setting DoS (Denial of Service) protection as enable.
MAC Filtering	Allows setting MAC Filtering.
IP Filtering	Allows setting IP Filtering.
Web Filtering	Allows setting Web Filtering.
Port Forwarding	Allows setting Port Forwarding.
QoS	Allows setting Qos.
DMZ	Allows setting DMZ.



4.3.1 Firewall

A "Denial-of-Service" (DoS) attack is characterized by an explicit attempt by hackers to prevent legitimate users of a service from using that service. The router can prevent specific DoS attacks as shown in Figure 4-41.

Firewall Protection	
SPI Firewall	● Enable ○ Disable
□DDoS	
Block SYN Flood	● Enable ○ Disable 30 Packets/Second
Block FIN Flood	O Enable
Block UDP Flood	O Enable Disable Packets/Second
Block ICMP Flood	O Enable Disable Packets/Second
Block IP Teardrop Attack	○ Enable ● Disable
Block Ping of Death	○ Enable ● Disable
Block TCP packets with SYN and FIN Bits set	○ Enable ● Disable
Block TCP packets with FIN Bit set but no ACK Bit set	○ Enable ● Disable
Block TCP packets without Bits set	○ Enable ● Disable
Block WAN Ping HTTP Port	O Enable Disable
HTTPs Port	443
Remote Management	○ Enable ● Disable
Temporarily block when login failed more than	0 (0 means no limit)
IP blocking period	minute(s) (0 means permanent blocking)
Blocked IP	0.0.0.0
- NAT ALGs	
FTP ALG	● Enable ○ Disable
TFTP ALG	● Enable ○ Disable
RTSP ALG	○ Enable Disable
H.323 ALG	○ Enable ● Disable
SIPALG	○ Enable Disable
F	Apply Settings Cancel Changes

Figure 4-42: Firewall



Object	Description	
	The SPI Firewall prevents attack and improper access to network	
SPI Firewall	resources.	
	The default configuration is enabled.	
	SYN Flood is a popular attack way. DoS and DDoS are TCP protocols.	
Block SYN Flood	Hackers like using this method to make a fake connection that involves	
BIOCK STN FIOOU	the CPU, memory, and so on.	
	The default configuration is enabled.	
	If the function is enabled, when the number of the current FIN packets is	
Dioak FIN Flood	beyond the set value, the router will start the blocking function	
Block FIN Flood	immediately.	
	The default configuration is disabled.	
	If the function is enabled, when the number of the current UPD-FLOOD	
Plack UDD Flood	packets is beyond the set value, the router will start the blocking function	
Block UDP Flood	immediately.	
	The default configuration is disabled.	
	ICMP is kind of a pack of TCP/IP; its important function is to transfer	
Block ICMP Flood	simple signal on the Internet. There are two normal attack ways which	
BIOCK ICIMP FIOOU	hackers like to use, Ping of Death and Smurf attack.	
	The default configuration is disabled.	
ID ToorDron	If the function is enabled, the router will block Teardrop attack that is	
IP TearDrop	targeting on TCP/IP fragmentation reassembly codes.	
	If the function is enabled, the router will block Ping of Death attack that	
Ping Of Death	aims to disrupt a targeted machine by sending a packet larger than the	
	maximum allowable size causing the target machine to freeze or crash.	
TCP packets with SYN and	Set the function as enable or disable	
FIN Bits set	Oct the function as chable of disable	
TCP packets with FIN Bit	Set the function as enable or disable	
set but no ACK Bit set	Oct the function as chable of disable	
TCP packets without Bits	Set the function as enable or disable	
set	Oet the fullction as enable of disable	
Block WAN Ping	Enable the function to allow the Ping access from the Internet network.	
	The default configuration is disabled.	
HTTP Port	The default is 80.	
HTTPs Port	The default is 443.	
	Enable the function to allow the web server access of the router from the	
Remote Management	Internet network.	
	The default configuration is disabled.	



Temporarily block when login failed	The default is 0. (0 means no limit)
IP blocking period	The default is 0. (0 means permanent blocking)
Blocked IP	0.0.0.0
FTP ALG	Set the function as enable or disable
TFTP ALG	Set the function as enable or disable
RTSP ALG	Set the function as enable or disable
H.323 ALG	Set the function as enable or disable
SIP ALG	Set the function as enable or disable

4.3.2 MAC Filtering

Entries in this table are used to restrict certain types of data packets from your local network or Internet through the router. Use of such filters can be helpful in securing or restricting your local network as shown in Figure 4-43.

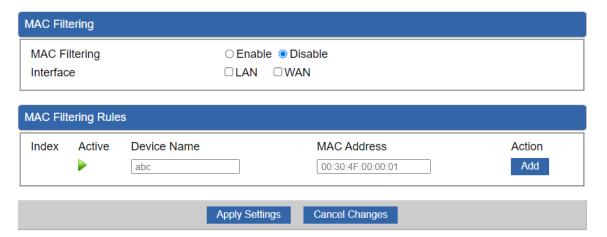


Figure 4-43: MAC Filtering

Object	Description
	Set the function as enable or disable.
Enable MAC Filtering	When the function is enabled, the router will block traffic of the MAC
	address on the list.
Interface	Select the function works on LAN, WAN or both. If you want to block
	a LAN device's MAC address, please select LAN, vice versa.
MAC Address	Input a MAC address you want to control, such as
	A8:F7:E0:00:06:62.
Add	When you input a MAC address, please click the "Add" button to add
	it into the list.

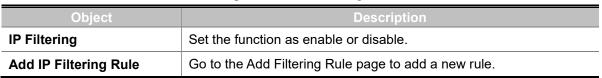


4.3.3 IP Filtering

IP Filtering is used to deny LAN users from accessing the public IP address on internet as shown in Figure 4-44. To begin blocking access to an IP address, enable IP Filtering and enter the IP address of the web site you wish to block.



Figure 4-44: IP Filtering



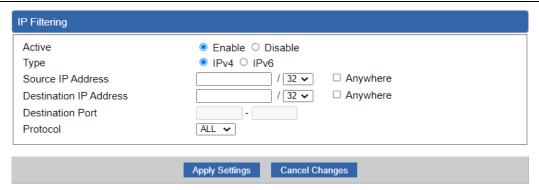


Figure 4-45: IP Filter Rule Setting

Object	Description	
Enable	Set the rule as enable or disable.	
Туре	Set the type as IPv4 or IPv6	
Course ID Address	Input the IP address of LAN user (such as PC or laptop) which you	
Source IP Address	want to control.	
Anywhere (of source IP	Check the box if you want to control all LAN users.	
Address)		
Destination IP Address	Input the IP address of web site which you want to block.	
Anywhere (of destination	Check the box if you want to control all web sites, meaning the LAN	
IP Address)	user can't visit any web site.	
Destination Port	Input the port of destination IP Address which you want to block.	
	Leave it as blank if you want to block all ports of the web site.	
Dretecal	Select the protocol type (TCP, UDP or all).	
Protocol	If you are unsure, please leave it to the default all protocol.	



4.3.4 Web Filtering

Web filtering is used to deny LAN users from accessing the internet as shown in Figure 4-46. Block those URLs which contain keywords listed below.



Figure 4-46: Web Filtering

Object	Description	
Web Filtering	Set the function as enable or disable.	
Add Web Filtering Rule	Go to the Add Web Filtering Rule page to add a new rule.	

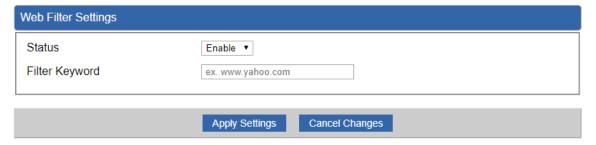


Figure 4-47: Web Filtering Rule Setting

Object	Description
Status	Set the rule as enable or disable.
Filter Keyword	Input the URL address that you want to filter, such as www.yahoo.com.



4.3.5 Port Forwarding

Entries in this table allow you to automatically redirect common network services to a specific machine behind the NAT firewall as shown in Figure 4-48. These settings are only necessary if you wish to host some sort of server like a web server or mail server on the private local network behind your Router's NAT firewall.



Figure 4-48: Port Forwarding

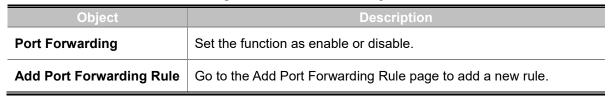




Figure 4-49: Port Forwarding Rule Setting

Object	Description	
Active	Set the function as enable or disable	
Rule Name	Enter any words for recognition.	
Protocol	Select the protocol type (TCP, UDP or both). If you are unsure,	
Protocoi	please leave it to the default both protocols.	
External Service Port	Enter the external ports you want to control. For TCP and UDP	
	services, enter the beginning of the range of port numbers used by	
	the service. If the service uses a single port number, enter it in both	
	the start and finish fields.	
Virtual Server IP Address	Enter the local IP address.	
Internal Service Port	Enter local ports you want to control. For TCP and UDP Services,	
	enter the beginning of the range of port numbers used by the	
	service. If the service uses a single port number, enter it in both the	
	start and finish fields.	



4.3.6 QoS

QoS - WAN1		
Quality of Service Upstream Downstream	O Enable O Disable O Kbps O Kbps	
Upstream Bandwidth		
Priority Premium Express Standard Bulks	Maximum Bandwidth 100 % 100 % 100 % 100 %	Bandwidth Value WAN1 0 Kbps
Downstream Bandwidth		
Priority Premium Express Standard Bulks	Maximum Bandwidth 100 % 100 % 100 % 100 %	Bandwidth Value WAN1 0 Kbps WAN1 0 Kbps WAN1 0 Kbps WAN1 0 Kbps
Service Priority		
Protocol AOL(TCP:5190)	Description AOL Instant Messenger protocol	Priority Action Premium ✓ Add
Network Priority		
Source Network Proto	col Destination Port Range	Priority Action Premium ✓ Add
	Apply Settings Cancel Changes	

Figure 4-50: QoS Setting

Object	Description
QoS - WAN1	Enable/disable QoS function
Upstream Bandwidth	Setting Upstream Bandwidth
Downstream Bandwidth	Setting Downstream Bandwidth
Service Priority	Setting Service Priority
Network Priority	Setting Network Priority



4.3.7 DMZ

A Demilitarized Zone is used to provide Internet services without sacrificing unauthorized access to its local private network as shown in Figure 4-51. Typically, the DMZ host contains devices accessible to Internet traffic, such as Web (HTTP) servers, FTP servers, SMTP (e-mail) servers and DNS servers.



Figure 4-51: DMZ

Object	Description
	Set the function as enable or disable. If the DMZ function is enabled,
	it means that you set up DMZ at a particular computer to be exposed
DMZ	to the Internet so that some applications/software, especially
	Internet/online game can have two way connections.
	Enter the IP address of a particular host in your LAN which will
DMZ IP Address	receive all the packets originally going to the WAN port/Public IP
	address above.



4.4 Wireless

The Wireless menu provides the following features for managing the system

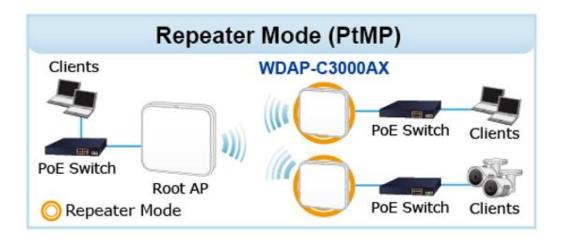


Figure 4-52: Wireless Menu

Object	Description
Repeater	Allow to configure Repeater.
2.4G Wi-Fi	Allow to configure 2.4G Wi-Fi.
5G Wi-Fi	Allow to configure 5G Wi-Fi.
MAC ACL	Allow configure MAC ACL.
Wi-Fi Advanced	Allow to configure advanced setting of Wi-Fi.
Wi-Fi Statistics	Display the statistics of Wi-Fi traffic.
Connection Status	Display the connection status.



4.4.1 Repeater



This page allows the user to define Repeater



Figure 4-53: Repeater

Object	Description
Select Radio	Select "2.4GHz" or "5GHz" wireless LAN.
SSID (Wireless Name)	Enter the root AP's SSID or press " Scan " to select.
Lock BSSID	Enable/disable to lock the root AP's MAC address.
BSSID	The root AP's MAC address
Encryption	Select the wireless encryption of root AP. The default is "Open"



4.4.2 2.4G Wi-Fi

This page allows the user to define 2.4G Wi-Fi.

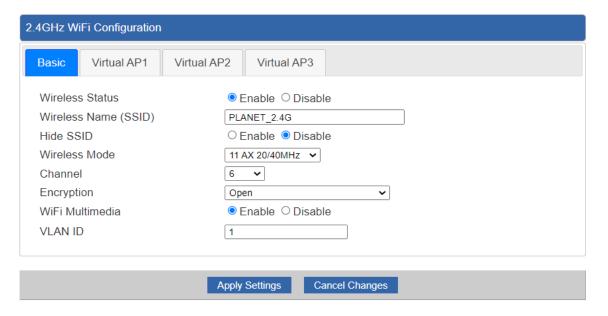


Figure 4-54: 2.4G Wi-Fi

Object	Description
Wireless Status	Allows user to enable or disable 2.4G Wi-Fi
Wireless Name (SSID)	It is the wireless network name. The default 2.4G SSID is
	"PLANET_2.4G"
Hide SSID	Allows user to enable or disable SSID
Wireless Mode	Select the operating wireless mode
Channel	It shows the channel of the CPE. Default 2.4GHz is channel 6.
Encryption	Select the wireless encryption. The default is "Open"
Wi-Fi Multimedia	Enable/Disable WMM (Wi-Fi Multimedia) function
VLAN ID	Setting VLAD ID



4.4.3 5G Wi-Fi

This page allows the user to define 5G Wi-Fi.

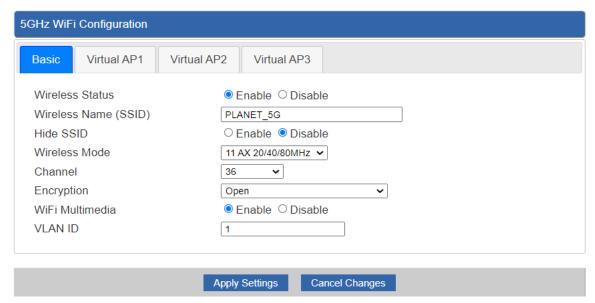
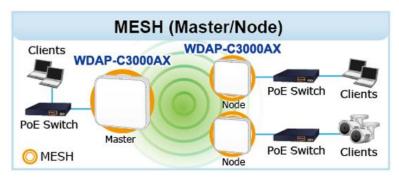


Figure 4-55: 5G Wi-Fi

Object	Description
Wireless Status	Allows user to enable or disable 5G Wi-Fi
Wireless Name (SSID)	It is the wireless network name. The default 5G SSID is
	"PLANET_5G"
Hide SSID	Allows user to enable or disable SSID
Wireless Mode	Select the operating wireless mode
Channel	It shows the channel of the CPE. Default 5GHz is channel 36.
Encryption	Select the wireless encryption. The default is " Open "
Wi-Fi Multimedia	Enable/Disable WMM (Wi-Fi Multimedia) function
VLAN ID	Setting VLAD ID



4.4.4 Mesh Wi-Fi



This page allows the user to configure Mesh Wi-Fi.

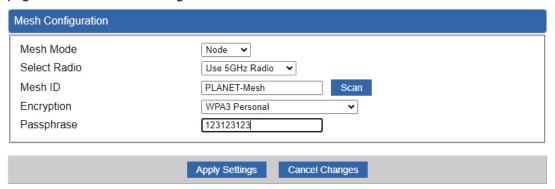


Figure 4-56: Mesh Wi-Fi

Object	Description
Mesh Wifi Mode	Select the Mesh role for Master or Node to enable MESH function.
	The default configuration is disabled.
Select Radio	Select 2.4GHz or 5GHz for MESH ID radio.
Mesh ID	Enter the Mesh ID, just like SSID, or use the discover Mesh ID from the Master/Node Mesh AP.
Encryption	Selector is the encryption for the sake of security. WPA3 Personal WPA3 Personal WPA2/WPA3 Personal WPA2 Personal (AES) WPA2 Personal (TKIP) WPA2 Personal (TKIP) WPA2 Personal (TKIP) WPA/WPA2 Personal (TKIP) WPA/WPA2 Personal (TKIP) WPA/WPA2 Personal (TKIP) WPA/WPA2 Personal (TKIP) WPA Personal (TKIP)
Passphrase	Enter the password for Mesh ID; the default configuration is null.



Please do not connect multiple network cables to the same device simultaneously, as it may cause a network loop and affect network stability.



4.4.5 MAC ACL

This page allows the user to define MAC ACL.



Figure 4-57: MAC ACL

Object	Description
Active	Allows the devices to pass in the rule
Device Name	Set an allowed device name
MAC Address	Set an allowed device MAC address
Add	Press the "Add" button to add end-device that is scanned from
	wireless network and mark them
Scan	Connect to client list



4.4.6 Wi-Fi Advanced

This page allows the user to define advanced setting of Wi-Fi.

WiFi Advanced	
2.4GHz Maximum Associated Clients	75 (Range 1~75)
5GHz Maximum Associated Clients	75 (Range 1~75)
2.4GHz Coverage Threshold	-95 (-95dBm ~ -60dBm)
5GHz Coverage Threshold	-95 (-95dBm ~ -60dBm)
2.4GHz TX Power	Max(100%) ~
5GHz TX Power	Max(100%) •
2.4GHz WLAN Partition	○ Enable ● Disable
5GHz WLAN Partition	○ Enable ● Disable
RTS Threshold	2347 (0-2347)
Apply Settings	Cancel Changes

Figure 4-58: Wi-Fi Advanced

Object	Description
2.4GHz Maximum Associated Clients	The maximum users are 75
5GHz Maximum Associated Clients	The maximum users are 75
2.4G Coverage Threshold	The coverage threshold is to limit the weak signal of clients
	occupying session. The default is -95dBm
5G Coverage Threshold	The coverage threshold is to limit the weak signal of clients
	occupying session. The default is -95dBm
2.4G TX Power	The range of transmit power is Max (100%), Efficient (75%),
	Enhanced (50%), Standard (25%) or Min (15%). In case of
	shortening the distance and the coverage of the wireless network,
	input a smaller value to reduce the radio transmission power
5G TX Power	The range of transmit power is Max (100%), Efficient (75%),
	Enhanced (50%), Standard (25%) or Min (15%). In case of
	shortening the distance and the coverage of the wireless network,
	input a smaller value to reduce the radio transmission power
2.4GHz WLAN Partition	Set the function as enable or disable
5GHz WLAN Partition	Set the function as enable or disable
RTS Threshold	Enable or Disable RTS/CTS protocol. It can be used in the
	following scenarios and used by Stations or Wireless AP.
	1) When medium is too noisy or lots of interferences are present. If
	the AP/Station cannot get a chance to send a packet, the
	RTS/CTS mechanism can be initiated to get the packet sent.
	2) In mixed mode, the hidden node problem can be avoided.
	The default value is 2347



4.4.7 Wi-Fi Statistics

This page shows the statistics of Wi-Fi traffic.

12:30

12:40

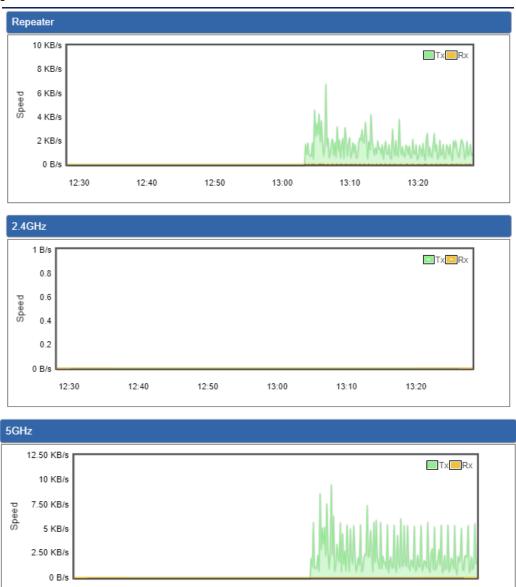


Figure 4-59: Wi-Fi Statistics

13:00

13:10

13:20

12:50



4.4.8 Connection Status

This page shows the host names and MAC address of all the clients in your network



Figure 4-60: Connection Status

Object	Description
Name	Display the host name of connected clients.
MAC Address	Display the MAC address of connected clients.
Signal	Display the connected signal of connected clients.
Connected Time	Display the connected time of connected clients.



4.5 Maintenance

The Maintenance menu provides the following features for managing the system

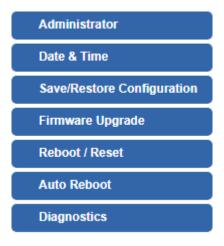


Figure 4-61: Maintenance

Object	Description
Administrator	Allows changing the login username and password.
Date & Time	Allows setting Date & Time function.
Save/Restore	Export the router's configuration to local or USB sticker.
Configuration	Restore the router's configuration from local or USB sticker.
Firmware Upgrade	Upgrade the firmware from local or USB storage.
Reboot / Reset	Reboot or reset the system.
Auto Reboot	Allows setting auto-reboot schedule.
Diagnostics	Allows you to issue ICMP PING packets to troubleshoot IP.



4.5.1 Administrator

To ensure the router's security is secure, you will be asked for your password when you access the router's Web-based utility. The default user name and password are "admin". This page will allow you to modify the user name and passwords as shown in Figure 4-62.

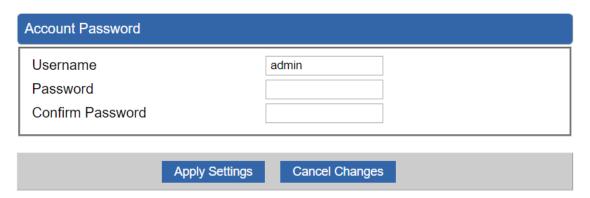


Figure 4-62: Administrator

Object	Description
Username	Input a new username.
Password	Input a new password.
Confirm Password	Input password again.



4.5.2 Date and Time

This section assists you in setting the system time of the router. You are able to either select to set the time and date manually or automatically obtain the GMT time from Internet as shown in Figure 4-63.

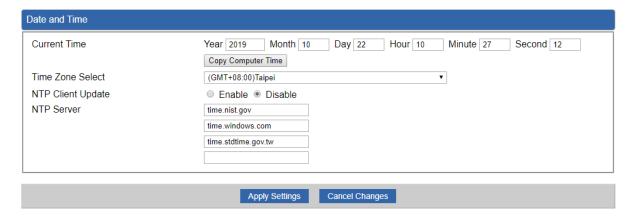


Figure 4-63: Date and Time

Object	Description
Current Time	Show the current time.
	User is able to set time and date manually.
Time Zone Select	Select the time zone of the country you are currently in. The router will
	set its time based on your selection.
NTP Client Update	Once this function is enabled, router will automatically update current
	time from NTP server.
NTP Server	User may use the default NTP sever or input NTP server manually.



4.5.3 Saving/Restoring Configuration

This page shows the status of the configuration. You may save the setting file to either USB storage or PC and load the setting file from USB storage or PC as Figure 4-64 is shown below:

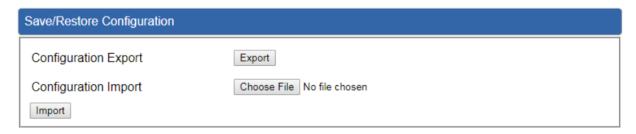


Figure 4-64: Save/Restore Configuration

Save Setting to PC

Object	Description
Configuration Export	Press the Export button to save setting file to PC.
Configuration Import	Press the Choose File button to select the setting file, and then
	press the Import button to upload setting file from PC.

4.5.4 Firmware Upgrading

This page provides the firmware upgrade of the router as shown in Figure 4-65.

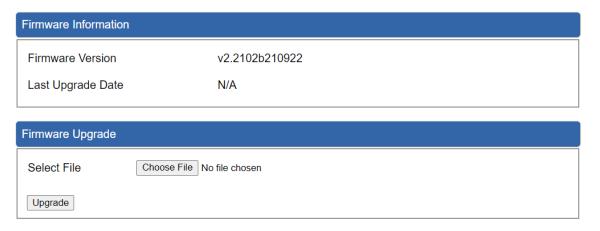


Figure 4-65: Firmware upgrade

Object	Description
Choose File	Press the button to select the firmware.
Upgrade	Press the button to upgrade firmware to system.



4.5.5 Reboot / Reset

This page enables the device to be rebooted from a remote location. Once the Reboot button is pressed, users have to re-log in the Web interface as Figure 4-66 is shown below:



Figure 4-66: Reboot/Reset

Object	Description
Reboot	Press the button to reboot system.
Reset	Press the button to restore all settings to factory default settings.
I'd like to keep the	Check the box and then press the Reset to Default button to keep
network profiles.	the current network profiles and reset all other configurations to
	factory defaults.

4.5.6 Auto Reboot

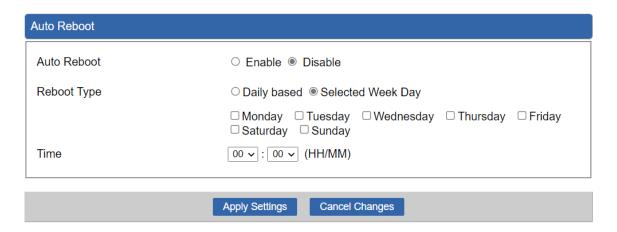


Figure 4-67: Auto Reboot

Object	Description
Auto Reboot	Disable or enable the Auto Reboot function.
Reboot Type	Set the function type.
Time	Select reboot time for clock



4.5.7 Diagnostics

The page allows you to issue ICMP PING packets to troubleshoot IP connectivity issues. After you press "Ping", ICMP packets are transmitted, and the sequence number and roundtrip time are displayed upon reception of a reply. The Page refreshes automatically until responses to all packets are received, or until a timeout occurs. The ICMP Ping is shown in Figure 4-68.

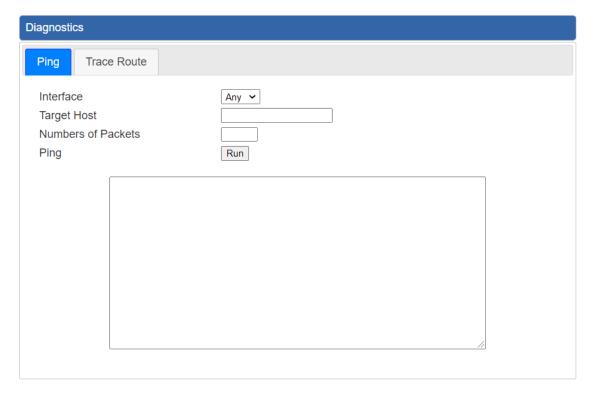


Figure 4-68: Ping

Object	Description
Interface	Select an interface of the router.
Target Host	The destination IP Address or domain.
Number of Packets	Set the number of packets that will be transmitted; the maximum is 100.
Ping	The time of ping.



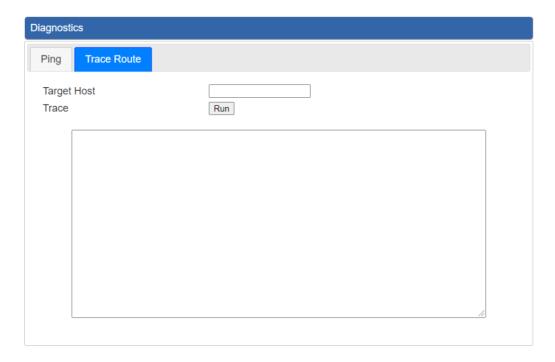


Figure 4-69: Trace Route

Object	Description
Target Host	The destination IP Address or domain.
Trace	The time of ping.



Be sure the target IP address is within the same network subnet of the router, or you have to set up the correct gateway IP address.



Chapter 5. Quick Connection to a Wireless Network

In the following sections, the default SSID of the WDAP-C3000AX is configured to "default".

5.1 Windows XP (Wireless Zero Configuration)

Step 1: Right-click on the wireless network icon displayed in the system tray



Figure 5-1 System Tray – Wireless Network Icon

Step 2: Select [View Available Wireless Networks]

Step 3: Highlight and select the wireless network (SSID) to connect

- (1) Select SSID [default]
- (2) Click the [Connect] button

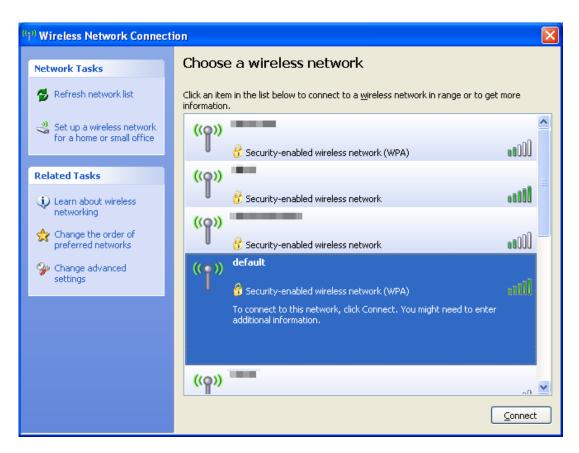


Figure 5-1 Choosing a Wireless Network



Step 4: Enter the encryption key of the wireless AP

- (1) The Wireless Network Connection box will appear
- (2) Enter the encryption key that is configured in section 5.7.2.1
- (3) Click the [Connect] button

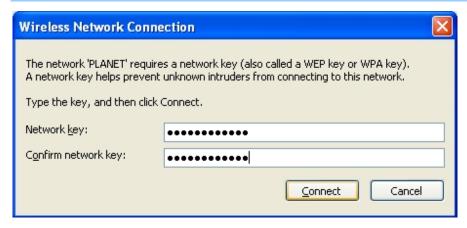


Figure 5-2 Entering the Network Key

Step 5: Check if "Connected" is displayed

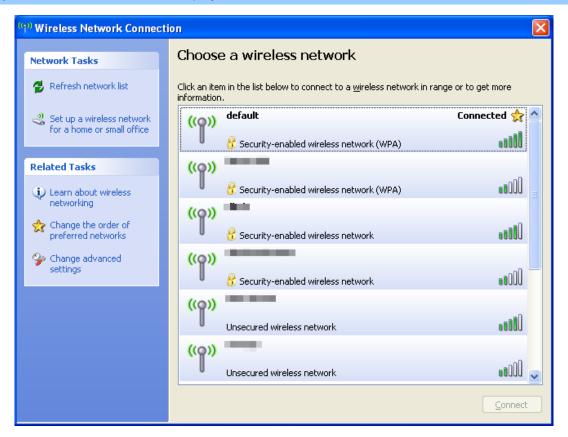


Figure 5-3 Choosing a Wireless Network -- Connected



Some laptops are equipped with a "Wireless ON/OFF" switch for the internal wireless LAN. Make sure the hardware wireless switch is switched to "ON" position.



5.2 Windows 7/8/10/11 (WLAN AutoConfig)

WLAN AutoConfig service is built-in in Windows 7 that can be used to detect and connect to wireless network. This built-in wireless network connection tool is similar to wireless zero configuration tool in Windows XP.

Step 1: Right-click on the network icon displayed in the system tray



Figure 5-4 Network Icon

Step 2: Highlight and select the wireless network (SSID) to connect

- (1) Select SSID [default]
- (2) Click the [Connect] button



Figure 5-5 WLAN AutoConfig



If you will be connecting to this Wireless AP in the future, check [Connect automatically].



Step 3: Enter the encryption key of the wireless AP

- (1) The Connect to a Network box will appear.
- (2) Enter the encryption key that is configured in section 5.7.2.1
- (3) Click the [OK] button.



Figure 5-6 Typing the Network Key

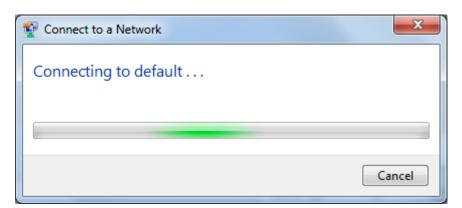


Figure 5-7 Connecting to a Network



Step 4: Check if "Connected" is displayed.



Figure 5-8 Connected to a Network



5.3 Mac OS X 10.x

In the following sections, the default SSID of the WDAP series is configured to "default".

Step 1: Right-click on the network icon displayed in the system tray

The AirPort Network Connection menu will appear.



Figure 5-9 Mac OS – Network Icon

Step 2: Highlight and select the wireless network (SSID) to connect

- (1) Select and SSID [default].
- (2) Double-click on the selected SSID.



Figure 5-10 Highlighting and Selecting the Wireless Network



Step 3: Enter the encryption key of the wireless AP

- (1) Enter the encryption key that is configured in section 5.7.2.1
- (2) Click the [OK] button.

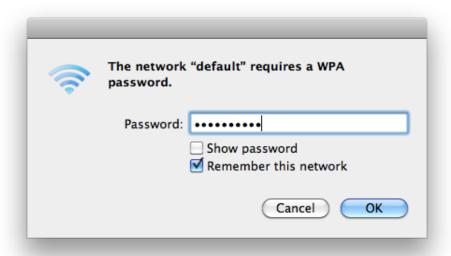


Figure 5-11 Enter the Password



If you will be connecting to this Wireless AP in the future, check [Remember this network].

Step 4: Check if the AirPort is connected to the selected wireless network.

If "Yes", then there will be a "check" symbol in front of the SSID.

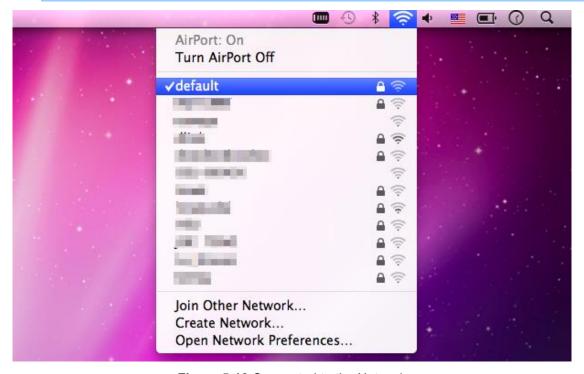


Figure 5-12 Connected to the Network



There is another way to configure the MAC OS X wireless settings:

Step 1: Click and open the [System Preferences] by going to Apple > System Preference or Applications

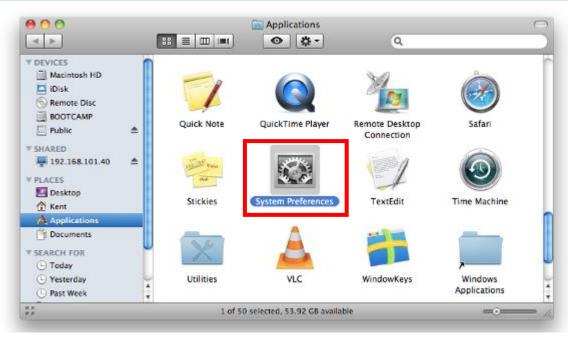


Figure 5-13 System Preferences

Step 2: Open Network Preference by clicking on the [Network] icon



Figure 5-14 System Preferences -- Network



Step 3: Check Wi-Fi setting and select the available wireless network

- (1) Choose the AirPort on the left menu (make sure it is ON)
- (2) Select Network Name [default] here

If this is the first time to connect to the Wireless AP, it should show "No network selected".

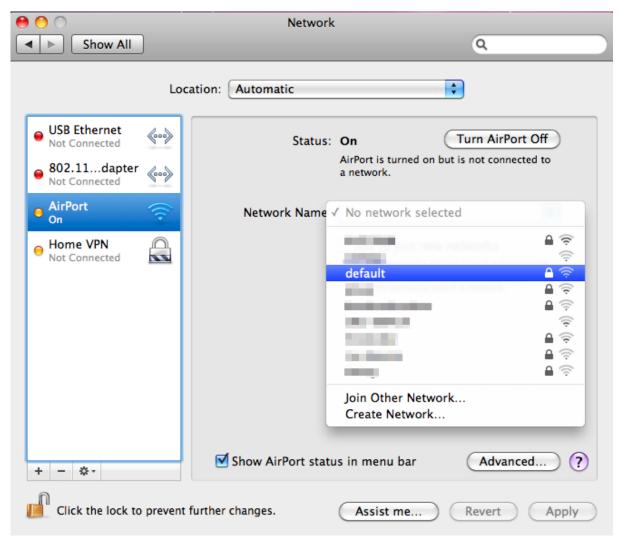


Figure 5-15 Selecting the Wireless Network



5.4 iPhone/iPod Touch/iPad

In the following sections, the default SSID of the WDAP series is configured to "default".

Step 1: Tap the [Settings] icon displayed in the home screen



Figure 5-16 iPhone – Settings icon

Step 2: Check Wi-Fi setting and select the available wireless network

- (1) Tap [General] \ [Network]
- (2) Tap [Wi-Fi]

If this is the first time to connect to the Wireless AP, it should show "Not Connected".

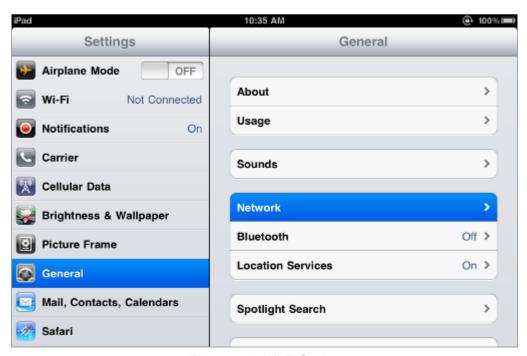


Figure 5-17 Wi-Fi Setting





Figure 5-18 Wi-Fi Setting – Not Connected

Step 3: Tap the target wireless network (SSID) in "Choose a Network..."

- (1) Turn on Wi-Fi by tapping "Wi-Fi"
- (2) Select SSID [default]



Figure 5-19 Turning on Wi-Fi



Step 4: Enter the encryption key of the Wireless AP

- (1) The password input screen will be displayed.
- (2) Enter the encryption key that is configured in section 5.7.2.1
- (3) Tap the [Join] button.



Figure 5-20 iPhone -- Entering the Password



Step 5: Check if the device is connected to the selected wireless network.

If "Yes", then there will be a "check" symbol in front of the SSID.



Figure 5-21 iPhone -- Connected to the Network

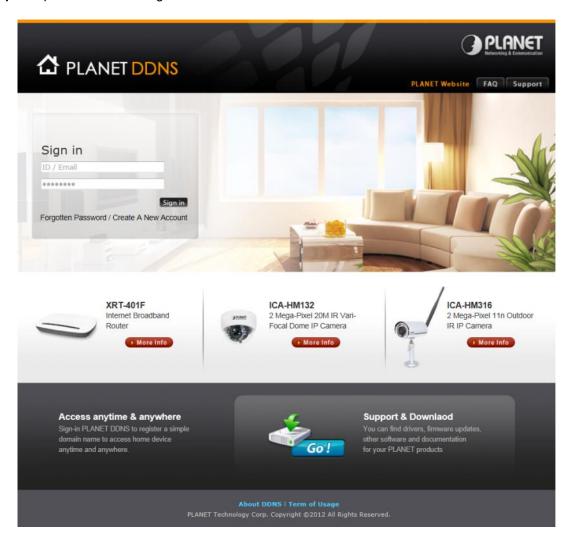


Appendix A: DDNS Application

Configuring PLANET DDNS steps:

- **Step 1:**Visit DDNS provider's web site and register an account if you do not have one yet. For example, register an account at http://planetddns.com
- Step 2: Enable DDNS option through accessing web page of the device.

Step 3: Input all DDNS settings.

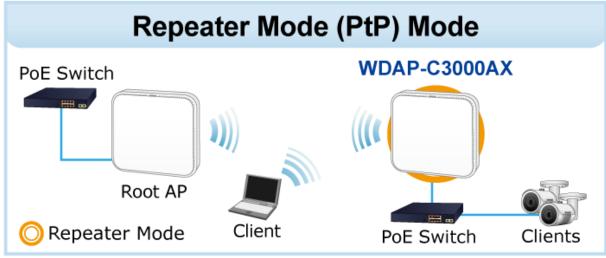




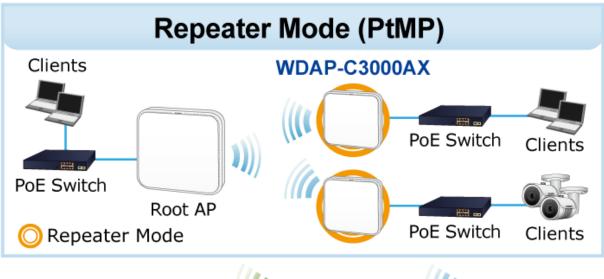
Appendix B: FAQs

How to Set Up the AP Client Connection

Topology (The topology below uses the WDAP-C3000AX as an example):

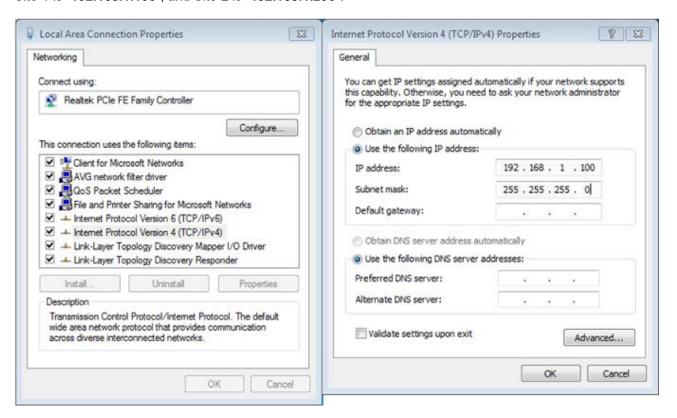




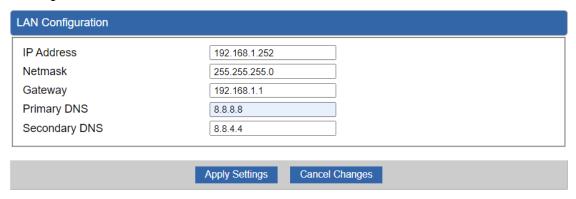




Step 1. Use static IP in the PCs that are connected with AP-1(Site-1) and AP-2(Site-2). In this case, Site-1 is "192.168.1.100", and Site-2 is "192.168.1.200".



Step 2. In AP-2, change the default IP to the same IP range but different from AP-1. In this case, the IP is changed to **192.168.1.252**.

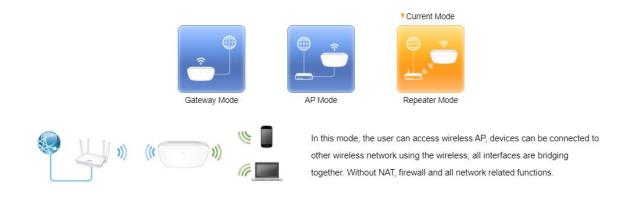




Step 3. In AP-1, go to "Wizard" to configure it to **AP Mode**. In AP-2, configure it to **Repeater Mode**. AP-1



AP-2

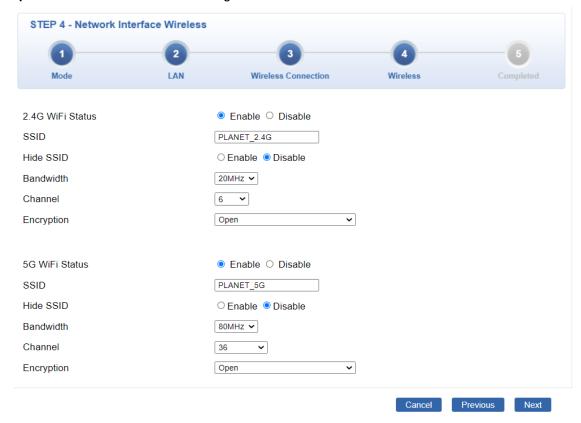


Step 4. In AP-2, press "**Scan** " to search the AP-1. You can also enter the MAC address, SSID, encryption and bandwidth if you know what they are.





Step 5. Click "Next" to finish the setting.



Step 6. Setup Completed





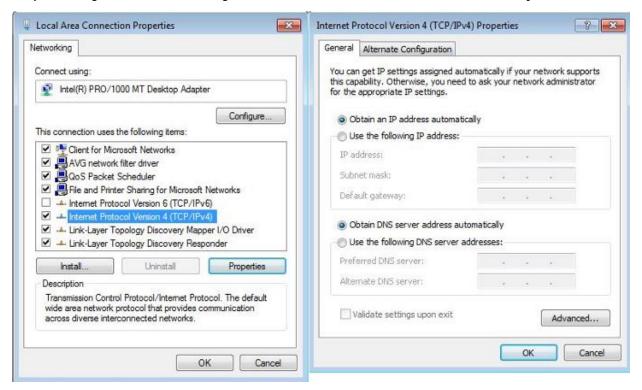
Step 7. Use command line tool to ping each other to ensure the link is successfully established. From Site-1, ping 192.168.1.200; and in Site-2, ping 192.168.1.100.

```
Destination host unreachable.

Ping statistics for 192.168.0.100:
    Packets: Sent = 25, Received = 0, Lost = 25 (190% loss),
Control-C
    **C**
C: Documents and Settings Administrator ping 192.168.1.100 -t

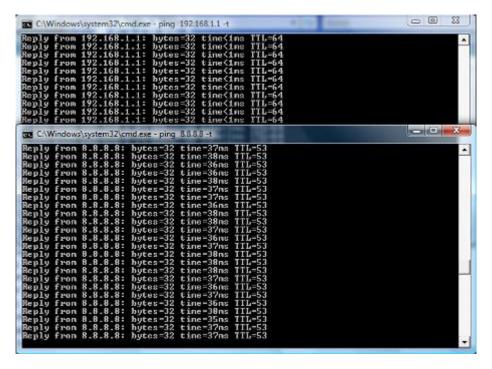
Pinging 192.168.1.100 with 32 bytes of data:
Request timed out.
Reply from 192.168.1.100: bytes=32 time=7ms ITL=128
Reply from 192.168.1.100: bytes=32 time=ins ITL=128
Reply from 192.168.1.100: bytes=32 time=2ms ITL=128
Reply from 192.168.1.100: bytes=32 time=1ms ITL=128
Reply from 192.168.1.100: bytes=32 time=1ms ITL=128
Reply from 192.168.1.100: bytes=32 time=ins ITL=128
Reply from 192.168.1.100: bytes=32 time=ins ITL=128
Reply from 192.168.1.100: bytes=32 time=1ms ITL=128
```

Step 8. Configure the TCP/IP settings of Site-2 to "Obtain an IP address automatically".





Step 9. Use command line tool to ping the DNS (e.g., Google) to ensure Site-2 can access internet through the wireless connection.





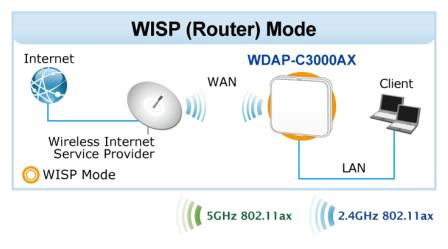
The following hints should be noted:

- 1) The encryption method must be the same as that of both sites if configured.
- 2) Both sites should be Line-of-Sight.
- 3) For the short distance connection less than 1km, please reduce the "RF Output Power" of both sites.
- 4) For the long distance connection over 1km, please adjust the "Distance" to the actual distance or double the actual distance.

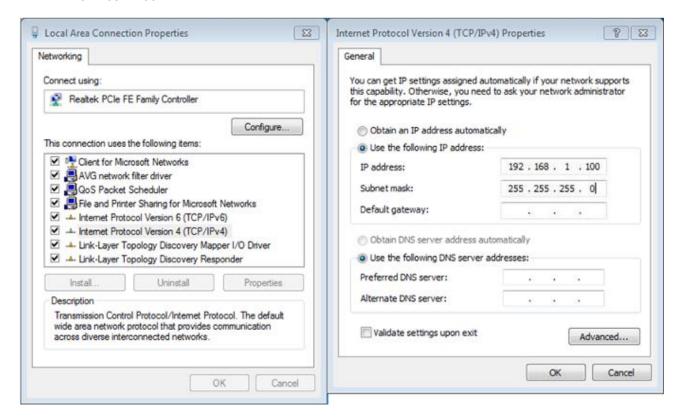


How to Set Up WISP Connection

Topology (The topology below uses the WDAP-C3000AX as an example):

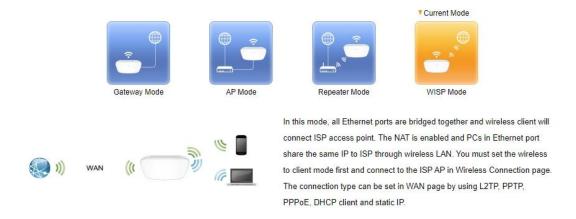


Step 1. Use static IP in the PC (Client) that is connected with the AP. In this case, the IP address of client is "192.168.1.100".





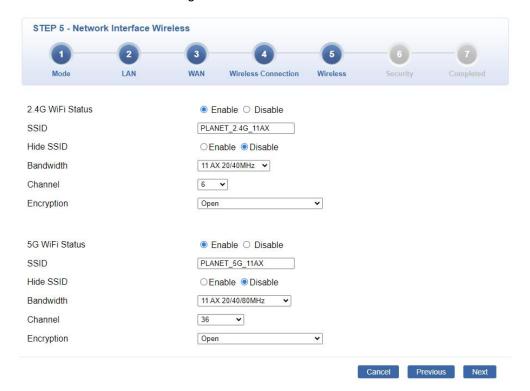
Step 2. In AP, go to "Wizard" to configure it in WISP Mode.



Step 3. Press "**Scan**" to search **the Wi-Fi of WAN devices**. You can also enter the MAC address, SSID, encryption and bandwidth if you know what they are.

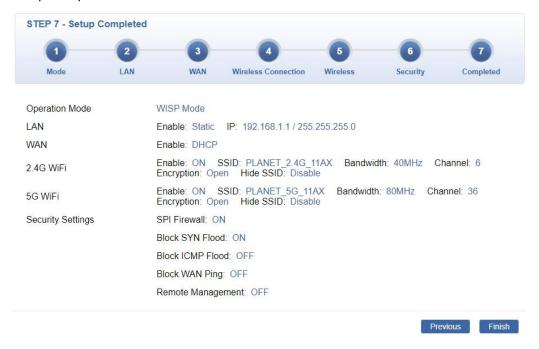


Step 4. Click "Next" to finish the setting.





Step 5. Setup Completed

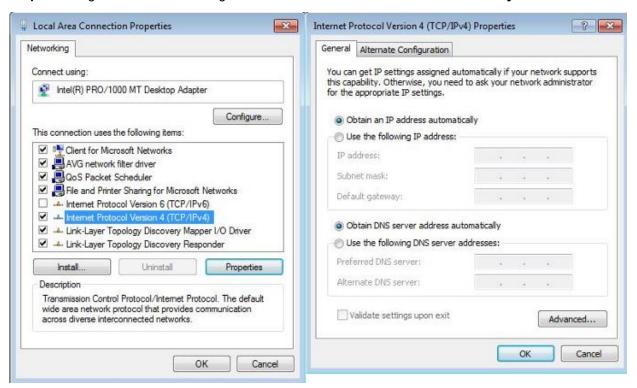


Step 6. Use command line tool to ping each other to ensure the link is successfully established. From client, ping 192.168.1.253 (the AP's IP)

```
C:\>ping 192.168.1.253 -t
Pinging 192.168.1.253 with 32 bytes of data:
Reply from 192.168.1.253: bytes=32 time<1ms TTL=64
```



Step 7. Configure the TCP/IP settings of PC to "Obtain an IP address automatically".



Step 8. Use command line tool to ping the DNS (e.g., Google) to ensure client can access internet through the wireless connection.

```
C:\>ping 8.8.8.8 -t
Pinging 8.8.8.8 with 32 bytes of data:
Reply from 8.8.8.8: bytes=32 time=26ms TTL=54
Reply from 8.8.8.8: bytes=32 time=21ms TTL=54
Reply from 8.8.8.8: bytes=32 time=19ms TTL=54
Reply from 8.8.8.8: bytes=32 time=20ms TTL=54
Reply from 8.8.8.8: bytes=32 time=19ms TTL=54
Reply from 8.8.8.8: bytes=32 time=22ms TTL=54
Reply from 8.8.8.8: bytes=32 time=23ms TTL=54
Reply from 8.8.8.8: bytes=32 time=27ms TTL=54
Reply from 8.8.8.8: bytes=32 time=21ms TTL=54
Reply from 8.8.8.8: bytes=32 time=20ms TTL=54
Reply from 8.8.8.8: bytes=32 time=21ms TTL=54
Reply from 8.8.8.8: bytes=32 time=20ms TTL=54
Reply from 8.8.8.8: bytes=32 time=20ms TTL=54
Reply from 8.8.8.8: bytes=32 time=21ms TTL=54
```



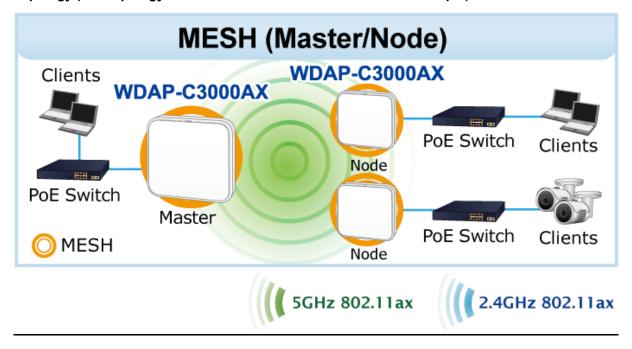
The following hints should be noted:

- 1) The encryption method must be the same as that of both sites if configured.
- 2) Both sites should be Line-of-Sight.
- 3) For the short distance connection less than 1km, please reduce the "RF Output Power" of both sites.
- 4) For the long distance connection over 1km, please adjust the "Distance" to the actual distance or double the actual distance.

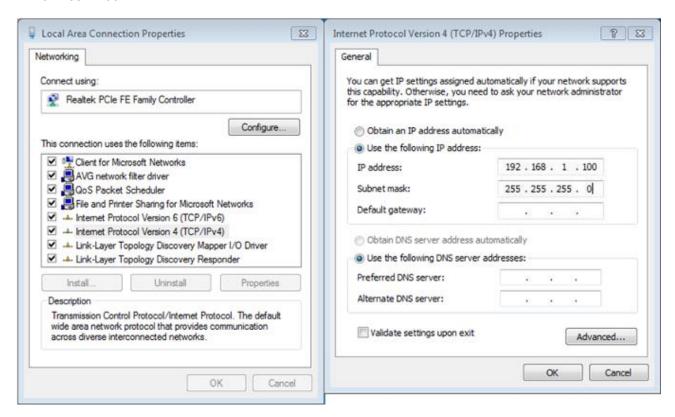


How to Set Up Mesh Network

Topology (The topology below uses the WDAP-C3000AX as an example):



Step 1. Use static IP in the PC (Client) that is connected with APs. In this case, the IP address of client is "192.168.1.100".



Setting a Master for Mesh network



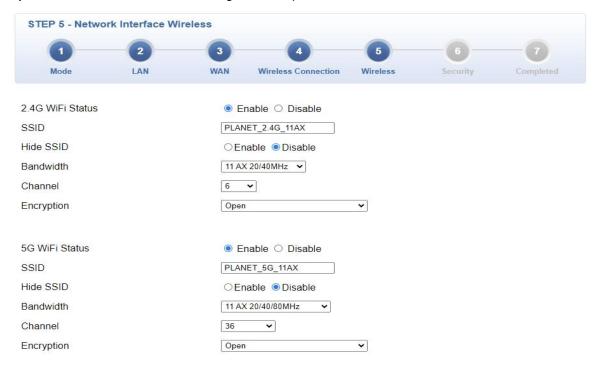
Step 2. In one of APs, go to "Wizard" to configure it to Gateway Mode



Step 3. In the AP, select Master for the AP and set your own setting of Mesh network



Step 4. Click "Next" when all the settings are completed.





Step 5. Setup Completed



Setting other node for Mesh network

Step 6.Connect with other AP and go to "Wizard" to configure it in AP Mode





Step 7. In this AP, select **node** for the AP and press "**Scan**" to search **Mesh Master**. You can also enter the Mesh ID and encryption if you know what they are.



Step 8. Click "Next" when all the settings are completed.



Step 9.Use command line tool to ping each other to ensure the link is successfully established. If you would like to add another Mesh network, please repeat Steps 2 to 5; to add other nodes please follow up Steps 6 to 8.



The following hints should be noted:

- 1) The encryption method must be the same as that of both sites if configured.
- 2) Both sites should be Line-of-Sight.
- 3) For the short distance connection less than 1km, please reduce the "RF Output Power" of both sites.
- 4) For the long distance connection over 1km, please adjust the "Distance" to the actual distance or double the actual distance.



After configuring the AP for a MESH network, a connection topology will be formed. To avoid creating loops, do not connect each AP to the same switch via wired connections, or connect the switches that each AP is connected to with wired connections.



Appendix C: Troubleshooting

If you find the AP is working improperly or stop responding to you, please read this troubleshooting first before contacting the dealer for help. Some problems can be solved by yourself within a very short time.

Scenario	Solution		
The AP is not responding to	a. Please check the connection of the power cord and the		
me when I want to access it	Ethernet cable of this AP. All cords and cables should be		
by Web browser.	correctly and firmly inserted into the AP.		
	b. If all LEDs on this AP are off, please check the status of		
	power adapter, and make sure it is correctly powered.		
	c. You must use the same IP address section which AP		
	uses.		
	d. Are you using MAC or IP address filter? Try to connect		
	the AP by another computer and see if it works; if not,		
	please reset the AP to the factory default settings by		
	pressing the 'reset' button for over 7 seconds.		
	e. Use the Smart Discovery Tool to see if you can find the		
	AP or not.		
	f. If you did a firmware upgrade and this happens, contact		
	your dealer of purchase for help.		
	g. If all the solutions above don't work, contact the dealer for		
	help.		
I can't get connected to the	a. Go to 'Status' -> 'Internet Connection' menu on the router		
Internet.	connected to the AP, and check Internet connection		
	status.		
	b. Please be patient. Sometimes Internet is just that slow.		
	c. If you've connected a computer to Internet directly		
	before, try to do that again, and check if you can get		
	connected to Internet with your computer directly		
	attached to the device provided by your Internet service		
	provider.		
	d. Check PPPoE / L2TP / PPTP user ID and password		
	entered in the router's settings again.		
	e. Call your Internet service provider and check if there's		
	something wrong with their service.		
	f. If you just can't connect to one or more website, but you		



Scenario	Solution		
	can still use other internet services, please check		
	URL/Keyword filter.		
	g. Try to reset the AP and try again later.		
	h. Reset the device provided by your Internet service		
	provider too.		
	i. Try to use IP address instead of host name. If you can		
	use IP address to communicate with a remote server,		
	but can't use host name, please check DNS setting.		
I can't locate my AP by my	'Broadcast ESSID' set to off?		
wireless device.	b. Both two antennas are properly secured.		
	c. Are you too far from your AP? Try to get closer.		
	. Please remember that you have to input ESSID on your		
	wireless client manually, if ESSID broadcast is disabled.		
File downloading is very slow	a. Internet is slow sometimes. Please be patient.		
or breaks frequently.	b. Try to reset the AP and see if it's better after that.		
	c. Try to know what computers do on your local network. If		
	someone's transferring big files, other people will think		
	Internet is really slow.		
	If this never happens before, call you Internet service		
	provider to know if there is something wrong with their		
	network.		
I can't log into the web	Make sure you're connecting to the correct IP address of		
management interface; the	the AP.		
password is wrong.	Password is case-sensitive. Make sure the 'Caps Lock'		
	light is not illuminated.		
	c. If you really forget the password, do a hard reset.		
The AP becomes hot	. This is not a malfunction, if you can keep your hand on		
	the AP's case.		
	b. If you smell something wrong or see the smoke coming		
	out from AP or A/C power adapter, please disconnect		
	the AP and power source from utility power (make sure		
	it's safe before you're doing this), and call your dealer of		
	purchase for help.		



Appendix D: Glossary

802.11ax - 802.11ax is a wireless networking standard in the 802.11 family by adding OFDMA, MU-MIMO (which is marketed under the brand name Wi-Fi 6), developed in the IEEE Standards Association process, providing high-throughput wireless local area networks (WLANs) on the 5GHz band 20 \(\cdot 40 \cdot 80 \cdot 160MHz.

802.11ac - 802.11ac is a wireless networking standard in the 802.11 family by adding MU-MIMO (which is marketed under the brand name Wi-Fi 5), developed in the IEEE Standards Association process, providing high-throughput wireless local area networks (WLANs) on the 5GHz band.

802.11n - 802.11n builds upon previous 802.11 standards by adding MIMO (multiple-input multiple-output). MIMO uses multiple transmitter and receiver antennas to allow for increased data throughput via spatial multiplexing and increased range by exploiting the spatial diversity, perhaps through coding schemes like Alamouti coding. The Enhanced Wireless Consortium (EWC) [3] was formed to help accelerate the IEEE 802.11n development process and promote a technology specification for interoperability of next-generation wireless local area networking (WLAN) products.

802.11a - 802.11a was an amendment to the IEEE 802.11 wireless local network specifications that defined requirements for an orthogonal frequency division multiplexing (OFDM) communication system. It was originally designed to support wireless communication in the unlicensed national information infrastructure (U-NII) bands (in the 5–6 GHz frequency range) as regulated in the United States by the Code of Federal Regulations, Title 47, Section 15.407.

802.11b - The 802.11b standard specifies a wireless networking at 11 Mbps using direct-sequence spread-spectrum (DSSS) technology and operating in the unlicensed radio spectrum at 2.4GHzHz, and WEP encryption for security. 802.11b networks are also referred to as Wi-Fi networks.

802.11g - specification for wireless networking at 54 Mbps using direct-sequence spread-spectrum (DSSS) technology, using OFDM modulation and operating in the unlicensed radio spectrum at 2.4GHzHz, and backward compatibility with IEEE 802.11b devices, and WEP encryption for security. **DDNS** (**D**ynamic **D**omain **N**ame **S**ystem) - The capability of assigning a fixed host and domain name to a dynamic Internet IP Address.

DHCP (**D**ynamic **H**ost **C**onfiguration **P**rotocol) - A protocol that automatically configure the TCP/IP parameters for the all the PC(s) that are connected to a DHCP server.

DMZ (**Demilitarized Zone**) - A Demilitarized Zone allows one local host to be exposed to the Internet for a special-purpose service such as Internet gaming or videoconferencing.

DNS (**D**omain **N**ame **S**ystem) - An Internet Service that translates the names of websites into IP addresses.

Domain Name - A descriptive name for an address or group of addresses on the Internet.

DSL (**D**igital **S**ubscriber **L**ine) - A technology that allows data to be sent or received over existing traditional phone lines.

MTU (Maximum Transmission Unit) - The size in bytes of the largest packet that can be transmitted.



NAT (Network Address Translation) - NAT technology translates IP addresses of a local area network to a different IP address for the Internet.

PPPoE (Point to Point Protocol over Ethernet) - PPPoE is a protocol for connecting remote hosts to the Internet over an always-on connection by simulating a dial-up connection.

SSID - A **S**ervice **S**et **Id**entification is a thirty-two character (maximum) alphanumeric key identifying a wireless local area network. For the wireless devices in a network to communicate with each other, all devices must be configured with the same SSID. This is typically the configuration parameter for a wireless PC card. It corresponds to the ESSID in the wireless Access Point and to the wireless network name.

WEP (Wired Equivalent Privacy) - A data privacy mechanism based on a 64-bit or 128-bit or 152-bit shared key algorithm, as described in the IEEE 802.11 standard.

Wi-Fi - A trade name for the 802.11b wireless networking standard, given by the Wireless Ethernet Compatibility Alliance (WECA, see http://www.wi-fi.net), an industry standards group promoting interoperability among 802.11b devices.

WLAN (Wireless Local Area Network) - A group of computers and associated devices communicate with each other wirelessly, which network serving users are limited in a local area.



EC Declaration of Conformity

English	Hereby, PLANET Technology Corporation, declares that this 11ax Wireless AP is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.	Lietuviškai	Šiuo PLANET Technology Corporation,, skelbia, kad 11ax Wireless AP tenkina visus svarbiausius 2014/53/EU direktyvos reikalavimus ir kitas svarbias nuostatas.
Česky	Společnost PLANET Technology Corporation, tímto prohlašuje, že tato 11ax Wireless AP splňuje základní požadavky a další příslušná ustanovení směrnice 2014/53/EU.	Magyar	A gyártó PLANET Technology Corporation, kijelenti, hogy ez a 11ax Wireless AP megfelel az 2014/53/EU irányelv alapkövetelményeinek és a kapcsolódó rendelkezéseknek.
Dansk	PLANET Technology Corporation, erklærer herved, at følgende udstyr 11ax Wireless AP overholder de væsentlige krav og øvrige relevante krav i direktiv 2014/53/EU	Malti	Hawnhekk, PLANET Technology Corporation, jiddikjara li dan 11ax Wireless AP jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 2014/53/EU
Deutsch	Hiermit erklärt PLANET Technology Corporation, dass sich dieses Gerät 11ax Wireless AP in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 2014/53/EU befindet". (BMWi)	Nederlands	Hierbij verklaart , PLANET Technology orporation, dat 11ax Wireless AP in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 2014/53/EU
Eestikeeles	Käesolevaga kinnitab PLANET Technology Corporation, et see 11ax Wireless AP vastab Euroopa Nõukogu direktiivi 2014/53/EU põhinõuetele ja muudele olulistele tingimustele.	Polski	Niniejszym firma PLANET Technology Corporation, oświadcza, że 11ax Wireless AP spełnia wszystkie istotne wymogi i klauzule zawarte w dokumencie "Directive 2014/53/EU.
Ελληνικά	ME THN ΠΑΡΟΥΣΑ , PLANET Technology Corporation, ΔΗΛΩΝΕΙ ΟΤΙ ΑΥΤΌ 11ax Wireless $ AP ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ \\ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ \\ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 2014/53/EU$	Português	PLANET Technology Corporation, declara que este 11ax Wireless AP está conforme com os requisitos essenciais e outras disposições da Directiva 2014/53/EU.
Español	Por medio de la presente, PLANET Technology Corporation, declara que 11ax Wireless AP cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 2014/53/EU	Slovensky	Výrobca PLANET Technology Corporation, týmto deklaruje, že táto 11ax Wireless AP je v súlade so základnými požiadavkami a ďalšími relevantnými predpismi smernice 2014/53/EU.
Français	Par la présente, PLANET Technology Corporation, déclare que les appareils du 11ax Wireless AP sont conformes aux exigences essentielles et aux autres dispositions pertinentes de la directive 2014/53/EU	Slovensko	PLANET Technology Corporation, s tem potrjuje, da je ta 11ax Wireless AP skladen/a z osnovnimi zahtevami in ustreznimi določili Direktive 2014/53/EU



${\it User Manual of WDAP-C3000AX, WDAP-3000AX, WDAP-W3000AX}$

Italiano	Con la presente , PLANET Technology Corporation, dichiara che questo 11ax Wireless AP è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 2014/53/EU.	Suomi	PLANET Technology Corporation, vakuuttaa täten että 11ax Wireless AP tyyppinen laite on direktiivin 2014/53/EU oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Latviski	Ar šo PLANET Technology Corporation, apliecina, ka šī 11ax Wireless AP atbilst Direktīvas 2014/53/EU pamatprasībām un citiem atbilstošiem noteikumiem.	Svenska	Härmed intygar, PLANET Technology Corporation, att denna 11ax Wireless AP står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 2014/53/EU.