

COMMANDO AirONE AP1800AX Wi-Fi 6 Indoor Access Point Configuration Guide

OVERVIEW

COMMANDO AirONE AP1800AX Wi-Fi 6 Indoor Access Point enables communication between wireless users with speed up to 1800Mbps with advanced Wi-Fi 6 Technology. It is standalone device, comes with dual band with 2.4GHz (600Mbps 11ax 2x2) + 5GHz (1200Mbps 2x2), equipped with separate 1G WAN ports & LAN ports. It supports MU-MIMO, Wave 2.0 and DL/UL-OFDMA modulation. It supports data rate up to 1800Mbps for wireless users and supports concurrent 120+ wireless clients with simultaneous upload or download of multiple packets at same time which enhances the sharing of files, photo, audio, video and gaming experience over wireless network. It supports Seamless Roaming, OFDMA, 1024-QAM, narrower sub-carrier spacing and longer symbol time which improves the stability and data processing efficiency. It can provide powerful wireless coverage to enterprise environments such as Small, Medium and Large enterprises, university campus, concert venue, gymnasium, etc.

It is powerful, long range & advance Indoor Wi-Fi 6 Access Point with 2 configuration modes namely Gateway & AP mode (Default Mode is AP mode). It supports range of 91 meters and above depending on surrounding conditions with up to 300mW input Power. It is industrial grade Desktop/Wall/Ceiling IEEE 802.3at 48V PoE+ standard & can install at every place to work as a stable base station for access users. It is equipped with separate Gigabit Ethernet WAN & LAN port.

You can access and manage AirONE AP1800AX using the Web based GUI (Graphical User Interface), also called Web GUI interface.



Fig 1. Physical port on AirONE AP1800AX

Table 1. Physical port on AirONE AP1800AX Description.

Physical Port	Description
Reset	Reset Button, makes AP revert to default settings after pressing for 15sec.
WAN/PoE+	WAN Port, connect with PoE+ Switch or internet gateway.
LAN	LAN Port to end users Switch or PC for Accessing device via Web GUI.
LED	Upper LED for WAN port and Lower LED for LAN port (Green and Blinking to show ACT/Link connection).
DC	DC input power 12V, 2A.



Fig 2. Access information on AirONE AP1800A

INTRODUCTION

COMMANDO AirONE AP1800AX is Wi-Fi 6 technology based, standalone, WEB GUI based, easy to use and manage device. It requires minimal configuration, so setup is simple and hassle-free. Auto-negotiation senses the link speed of a network device in wired 10/100/1000Mbps and also can check free channels available with inbuilt Wi-Fi analysis. It ideal for desktops/wall/ceiling with limited space. Dynamic LED lights provide real-time work status display and basic fault diagnosis. Easy Plug-and-play installation with no configuration required. It operates quietly, making it ideal for use in virtually any room or office. Perfect for noise sensitive environments. It has Dual power options with DC input power and PoE+ power input which protect from power failures and increases life of device. With Inbuilt security features protect your business by losing network sensitive information and data of wireless users/surveillance cameras connected to them.

It supports energy-efficient Ethernet that can save power. It automatically adjusts power consumption according to the link status to limit the carbon footprint of your network. It also complies with RoHS, CE, FC prohibiting the use of certain hazardous materials. Besides that, most of the packaging material can be recycled and reused.

It has State of art quality product that can serve on real time high-speed Performance with dual inputs power, cost effective, highly reliable, conformance to international open standards, durable, serviceable, aesthetics, perceived quality, enhanced performance leads to value to money.

Hardware Highlights

Solid performance with non-blocking architecture

- With Flash: SPI NOR 32MB, and 256MB RAM greatly improved the data processing performance.
- All ports capable of Gigabit Ethernet speed. Full speed of data transferring with (Auto-Negotiation/Auto MDI/MDIX).
- Solid performance with non-blocking architecture.
- Dual input for power either PoE+ via WAN port or DC power inputs 12V, 2A.
- With Build in 3dBi MIMO Antenna with wave 2.0 for high gain antenna, stronger signal strength & supports large wireless coverage (91m and above) in all directions.

Physical Ports and Networking Interfaces

• Up to 2 x 10/100/1000Mbps Mbps RJ 45 Ethernet Ports with combined PoE+ with WAN

and separate LAN port

- LED Indicators: Power/Sys, LAN, WAN.
- Reset Button

Extra Long operational life

- High Quality PCB Circuit Board and PCB Surface Treatment Using Gold Sinking Process.
- Support temperature range 0° C to 50° C.
- Desktop and Wall mount design Which enables horizontal and vertical wall mounting.

Noise-free Operation

• The ports support reduced power modes for silent operation. Perfect for noise sensitive environments.

Software Highlights

- Multiple Operational Modes like Gateway Mode, AP mode (Default mode is AP mode).
- Multi SSID up to 8 with inbuilt WI-FI channel analysis.
- Supports IEEE 802.11ax/ac/b/g/n with backward compatibility for wireless clients, 2.4GHz+5GHz Wireless dual band with radio RF Power up to 300mW.
- Support wireless RF power adjustable as per user movements from AP with data rate up to 1800Mbps.
- Access end users up to 256 max, with concurrent end users up to 120+.
- Supports band steering automatically move to wider 5G band for faster connections, intelligent load balance based on users.
- Support tag VLAN and VLAN management.
- Supports advance security by MAC ACL, Static DHCP, QoS, URL Mapping, IP/MAC/URL filters, Port mapping and DMZ.
- Support Seamless Roaming, OFDMA, 1024-QAM.
- Dual purposes WAN or IEEE 802.3at Port (PoE+) port supporting 1x 10/100/1000Mbps and dedicated LAN ports 1x 10/100/1000Mbps.
- Supports Wi-Fi client distance 91 meters and above depending on surrounding conditions.
- Dual input for power either PoE+ via WAN port or DC power inputs 12V, 2A.
- Support Open or encryption like WPA/WPA2PSK_TKIPAES.
- Comply with IEEE 802.3az standard

How to take access of COMMANDO AirONE AP1800AX ?

1. Wired access Via LAN port connected to PC.

Power ON AirONE AP1800AX.

Connect LAN port of AirONE AP1800AX to PC via RJ-45 cable.

Open Network and sharing center.

Go to Change adapter settings.

Double click on Local Area Connection. Go to Properties. Double click on Internet Protocol Version 4 (TCP/IPv4) option and set any IP address from 192.168.188.1 to 252 and Gateway of PC to be set as 192.168.188.253 to as shown below.

Internet Protocol Version 4 (TCP/IPv4) Properties

General						
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.						
Obtain an IP address automatical	у					
Use the following IP address:						
IP address:	192 . 168 . 188 . 100					
Subnet mask:	255 . 255 . 255 . 0					
Default gateway:	192 . 168 . 188 . 253					
Obtain DNS server address autom	atically					
Use the following DNS server addr	'esses:					
Preferred DNS server:						
Alternate DNS server:						
Validate settings upon exit	Advanced					
	OK Cancel					

Fig 3. IP setting in PC connected to AirONE AP1800AX

2. Wireless access Via SSID connected to PC.

Power ON AirONE AP1800AX.

 \times

Connect Default SSID named "AIR-AP1800AX_2.4G" or "AIR-AP1800AX_5.8G" with the help of default Wi-Fi Password "66666666".

Click on properties of connected SSID "AIR-AP1800AX_2.4G" or "AIR-AP1800AX_5.8G".

Edit IP setting from DHCP to Manual and set any IP address from 192.168.188.1 to 252 and Gateway of PC to be set as 192.168.188.253 to as shown below.

Note: All Default SSID and password can be changed as per user requirement.



	g
命 COMMAN	D Manual ~
IP settings	
0	IPv4
IP assignment:	
Pv4 address:	On On
IPv4 subnet prefix length:	IP address
IPv4 gateway:	192.168.188.1
IPv4 DNS servers:	
	Culture to an fire law oth
Edit	Subnet prefix length
	24
Properties	Gateway
SSID:	192.168.188.253
Protocol:	
Security type:	Preferred DNS
Network band:	8.8.8.8
Network channel:	
Link speed (Receive/Transm	nit) Alternate DNS
Link-local IPv6 address:	Alternate DNS
Pv4 address:	Save Cancel
IPv4 DNS servers:	

Edit IP settings

Fig 4. Edit IP setting from DHCP to Manual as shown for AIR-AP1800AX_2.4G

Open any web browser like Chrome/Firefox/Internet Explorer/Opera etc. and enter default IP address **192.168.188.253** in address field.

Caution: If you have already taken any Other COMMANDO wireless device access. Then before taking access of this device, you are required to clean the browser history to avoid catch pages issue.



Fig 5. Login page for AirONE AP1800AX

Default Password: admin

Note: Password can be changed as per user choice. Default password is written on backside of device.

After giving proper password Home page is displayed giving device information like CPU usage, memory usage, LAN Information like IP Mode Get IP From AC/Gateway/Static, Status with 2G/5G Wi-Fi Clients Status with information like SSID, Channel, Bandwidth, Encrypt, MAC Address, Operation Mode configure like AP/ Fat AP Mode with Uptime, Flow in bps for AP Downstream and AP Upstream

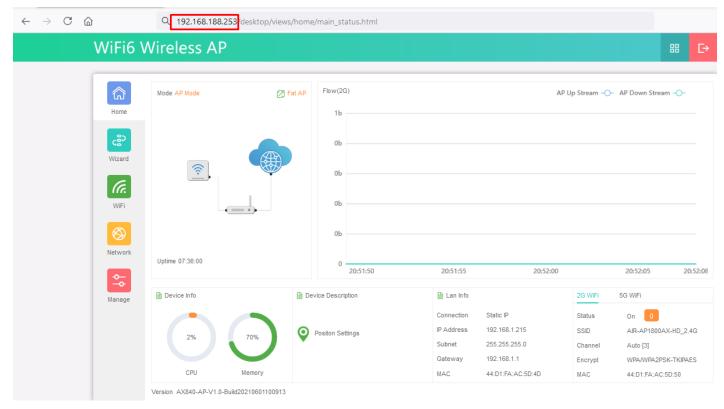


Fig 6. Home page after login AirONE AP1800AX

HOME

After login, home page will be showed. This page will show device Information like CPU Usage, Memory Usage, LAN/WAN Information like IP Mode Get IP From AC/Gateway/Static, Status with 2G/5G Wi-Fi Clients Status with information like SSID, Channel, Bandwidth, Encrypt, MAC Address, Operation Mode configure like AP/ Fat AP Mode with Uptime, Flow in bps for AP Downstream and AP Upstream. All information can help to troubleshoot network issue, if any very easily.

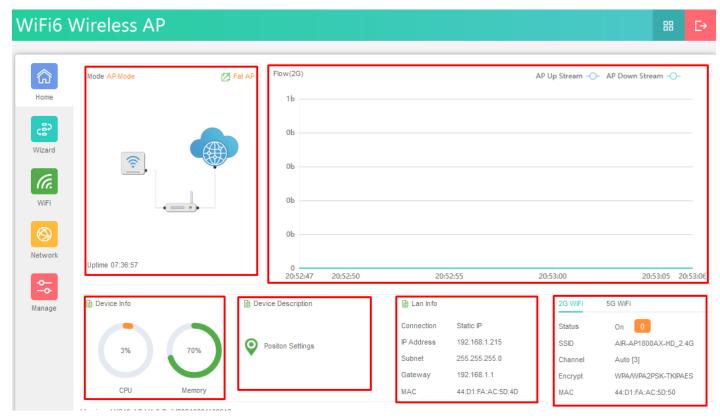


Fig 1.1 Home page Components of AirONE AP1800AX

ŵ	Mode AP Mode	🗁 Fat AP	Flow(5G)			AP Up Stream -O-	AP Down Stream -O-
Home			12Mbps				
్టిం		Pro	ompt Information		×		
Wizard			Are you sure you want to quit?				
WiFi		= • - · · ·	2Mbps	Cancel	ОК		
			ZMDps				
Network	Uptime 08:20:08		0 21:35:58 21:36:00	2	1:36:05	21:36:10	21:36:15 21:36
Network	Uptime 08:20:08	De	0	2 🗎 Lan Info	1:36:05	21:36:10 2G WiFi	21:36:15 21:36
Network		De	0 21:35:58 21:36:00		1:36:05 Static IP		

Fig 1.2 Logout Button of AirONE AP1800AX

/iFi6 \	Wireless AP							#	C
নি Home	Mode AP Mode	🎦 Fat AP	Flow(5G) 10Mbps		A	∿P Up Stream –⊖)- AP Down Stre	(U)	
ి			8Mbps						
Wizard	(?)		6Mbps						
WiFi	-		4Mbps						
\otimes			2Mbps						
Network	Uptime 08:21:47		0 21:37:35	21:37:40	21:37:45		21:37:50	21:3	37
Manage	Device Info	🗎 De	vice Description	🗎 Lan Info		2G WiFi	5G WiFi		
	5%	49%	COMMANDO WIFI 6 AP	Connection IP Address Subnet Gateway	Static IP 192.168.1.215 255.255.255.0 192.168.1.1	Status SSID Channel Encrypt	On 1 AIR-AP1800A Auto [161] WPA/WPA2P5		
	CPU	Метогу		MAC	44:D1:FA:AC:5D:4D	MAC	44:D1:FA:AC:		3

Fig 1.3 Modify password shortcut Button of AirONE AP1800AX

After clicking button following page to modify password will appears.

WiFi6 V	Vireless AP			₩ 🕞
ふ	Mode AP Mode	Modify Password	×	AB-op Stream -O- AP Down Stream -O-
Home		Old Password		
WIFI	<u></u>	Confirm Password	Save	
Network	Uptime 08:22:44	2Mbps 977Kbps		
↔		0	21:38:35 21:38:40	21:38:45 21:38:50
Manage	The Device Info	COMMANDO WIFI 6 AP	Lan Info Connection Static IP IP Address 192.168.1.215 Subnet 255.255.255.0 Gateway 192.168.1.1	2G WIFI 5G WIFI Status On 1 SSID AIR-AP1800AX-HD_5.8G Channel Auto [161] Encrypt WPA/WPA2PSK-TKIPAES
	CPU Mer	nory	MAC 44:D1:FA:AC:5D:4D	MAC 44:D1:FA:AC:5D:4F

Fig 1.4 Modify password of AirONE AP1800AX

Note: AirONE AP1800AX will ask this new password for login after clicking OK. It is strongly recommended to change default password to access device.

∕iFi6 \	Wireless AP									₽
Home	Mode AP Mode	Fat AP	Flow(5G) 10Mbps				AP Up Stream	-O- AP Down Stre	() ()	
ి			8Mbps						D	evice
Wizard	((•		6Mbps							
WiFi			4Mbps							
Network	United 00.05.00		2Mbps							
↔	Uptime 08:25:36		0 21:4	11:25	21:41:	30	21:41:35	21:41:40	21:4	41:43
Manage	Device Info	🗎 De	evice Description		🗎 Lan Info		2G WiFi	5G WiFi		
	6%	49%	COMMANDO WIFI 6 AP		Connection IP Address Subnet	Static IP 192.168.1.215 255.255.255.0	Status SSID Channel			
	CPU	Memory			Gateway MAC	192.168.1.1 44:D1:FA:AC:5D:4D	Encrypt	WPA/WPA2PS 44:D1:FA:AC:		5

Fig 1.5 Reboot button of AirONE AP1800AX

After clicking button following page to Reboot AP will appears.

命	Mode AP Mode	🖉 Fa	at AP Flow(5G)			AP Up Stream -O-	AP Down Stream -O-
Home			10Mbps				
్టి			Prompt Information		×		
Wizard			() Want to reboot?				
11077							
WiFi				Cancel	ок		
			2Mbps	Cancel	ОК		
Network	Uptime 08:26:59		2Mbps 0 21:42:51	21:42:55	21:43:00	21:43:05	21:43:
Network					_		21:43: 5G WIFi
Network	Uptime 08:26:59		0 21:42:51	21:42:55	_		

Fig 1.6 Reboot of AirONE AP1800AX

Note: AirONE AP1800AX will reboot after clicking OK.

1.1 Device Information

In Device Information, Current CPU Usage percentage and Memory Usage percentage of the AP is shown.



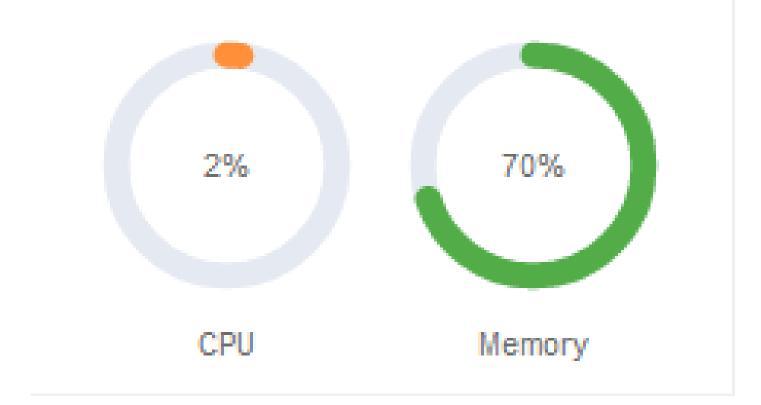


Fig 1.1.1 Home page Components of AirONE AP1800AX

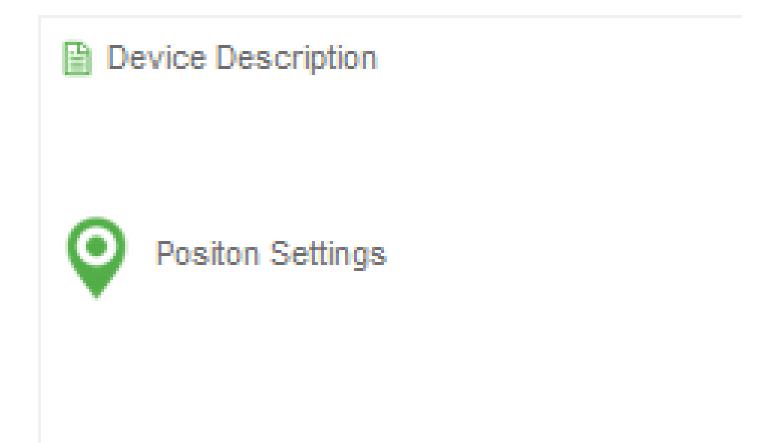


Fig 1.1.2 Device Description of AirONE AP1800AX

In Device Description you can add the APs description by clicking on Click Settings

WiFi6 V	Vireless AP						88 €→
Home C3	Mode AP Mode	Ø Fa	Device Description	ANDO WIFI 6 AP		AP Up Stream -O-	- AP Down Stream -O-
Wizard WiFi			Ob	у			
Network	Uptime 07:39:33		0	20:55:30	20:55:35		20:55:40 20:55:43
Manage	Device Info		Device Description	🗎 Lan Info		2G WiFi	5G WiFi
	3% CPU	70% Memory	COMMANDO WIFI 6 AP	Connection IP Address Subnet Gateway MAC	Static IP 192.168.1.215 255.255.255.0 192.168.1.1 44:D1:FA:AC:5D:4D	Status SSID Channel Encrypt MAC	On 0 AIR-AP1800AX-HD_2.4G Auto [3] WPA/WPA2PSK-TKIPAES 44:D1:FA:AC:5D:50

Fig 1.1.3 Changing Device Description of AirONE AP1800AX

Fi6 \	Wireless AP						88
<u>م</u>	Mode AP Mode	🔀 Fat AP	Flow(2G)			AP Up Stream -O-	- AP Down Stream -O-
ome		-	16				
zard			0Ь				
C.			0Ь				
/iFi		•	0b				
work	U 1 - 07 40 00		0b				
¢ [Uptime 07:40:20		0 20:56:10	20:56:15	20:56:20	20:56:	25 20
nage	Device Info	De	vice Description	🗎 Lan Info		2G WiFi	5G WiFi
				Connection		Status	On 🛛 🚺
	2%	70%	COMMANDO WIFI 6 AP	IP Address Subnet	192.168.1.215 255.255.255.0	SSID	AIR-AP1800AX-HD_2.4 Auto [3]
				Gateway	192.168.1.1	Encrypt	WPA/WPA2PSK-TKIPAE
	CPU I	lemory		MAC	44:D1:FA:AC:5D:4D	MAC	44:D1:FA:AC:5D:50

Fig 1.1.4 New Device Description of AirONE AP1800AX

1.2 LAN/WAN Information

In LAN Information you can find the IP Mode, LAN IP, Subnet, Gateway and MAC Address. In WAN Information like WAN IP address, Gateway, DNS and MAC Address.

🗎 Lan Info	
Connection	Static IP
IP Address	192.168.1.215
Subnet	255.255.255.0
Gateway	192.168.1.1
MAC	44:D1:FA:AC:5D:4D

Fig 1.2.1 LAN information of AirONE AP1800AX



Internet Mode	DHCP 🚫
IP Address	0.0.0.0
Gateway	0.0.0.0
DNS	0.0.0.0
MAC Address	44:D1:FA:AC:5D:4E

Fig 1.2.2 WAN information of AirONE AP1800AX

1.3 Wi-Fi Information

In Wi-Fi Information, Status along with number of clients connected to AP, SSID, Channel used, Encryption and MAC Address of AP is shown.

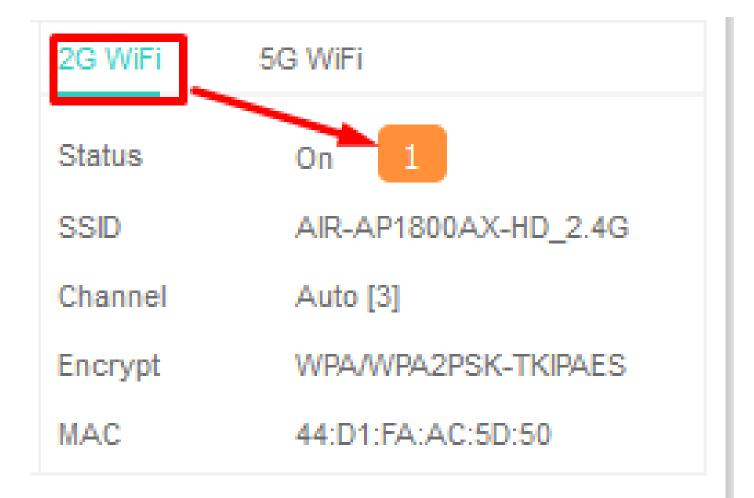


Fig 1.3.1 Wi-Fi Information of 2G Wi-Fi AirONE AP1800AX

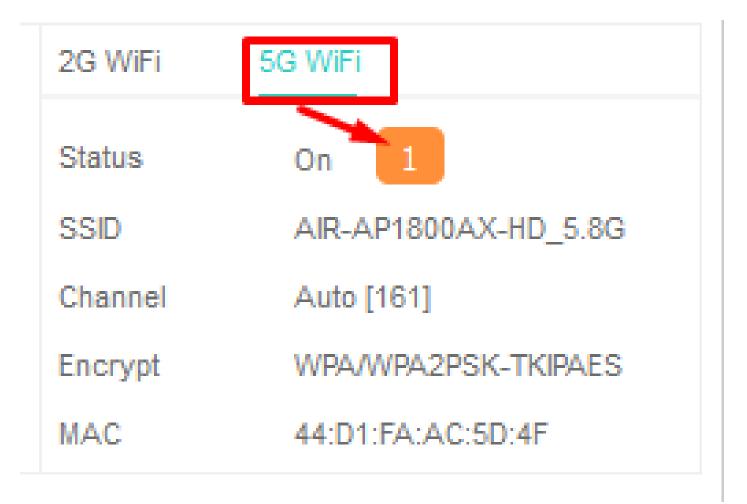


Fig 1.3.2 Wi-Fi Information of 5G Wi-Fi AirONE AP1800AX

1.4 Clients List

Clients list along with number of clients connected to AP, MAC address of clients connected, Signal strength of clients' connection along with connection time is shown. We can learn about users in network with all vital information.

uu	Mode AP Mode	Client List				× Stream -O-	AP Down Stream -O-	
Home		SN	MAC	Signal	Connect Time			
్టి		1	DE:66:72:39:0D:AF	-36dBm	00:00:50			
Wizard				×	<			
					\mathbf{X}			
(G.								
WiFi								
		Total 1			<	>		
Network	Uptime 08:17:32					\mathbf{X}		
~	optine 00.17.32		0 21:33:22	21:33:25	21:33:30	2123:35	21:3	23:43
	Device Info		Device Description	🗎 Lan Info		2G WiFi	G WiFi	
				Connection	Static IP	Status	On 1	
	6%	49%	COMMANDO WIFI 6 AP	IP Address	192.168.1.215	SSID	AIR-AP1800AX-HD_2	2.4G
			•	Subnet	255.255.255.0	Channel	Auto [3]	
	CPU	Memory		Gateway	192.168.1.1 44:D1:FA:AC:5D:4D	Encrypt	WPA/WPA2PSK-TKIP	AES

Fig 1.4.1 Clients list of 2G Wi-Fi AirONE AP1800AX

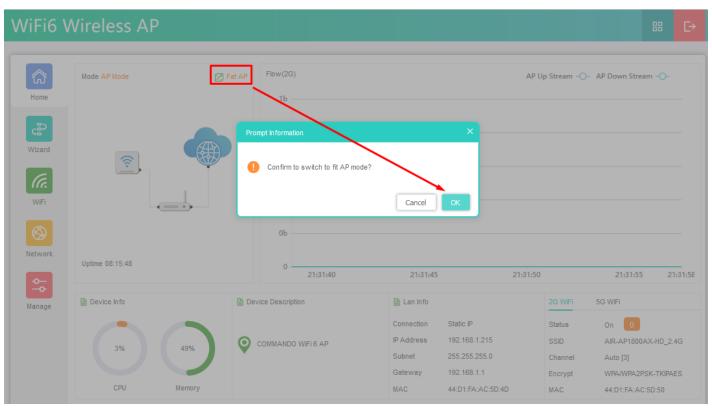
WiFi6 V	Vireless AP						8	₿₽
R	Mode AP Mode	Client List				× Stream -O-	AP Down Stream -	
Home		SN	MAC	Signal	Connect Time			
Wizard WiFi WiFi		1 Total 1	70:BB:E9:4C:CC:D8	-48dBm	00:00:04	>		
<u></u>	Uptime 08:16:40		0 -		1:32:35 21:3	2:40	21:32:45	21:32:47
Manage	Device Info		Device Description	🗎 Lan Inf	io	2G WiFi	5G WiFi	
	4% CPU	49% Memory	COMMANDO WIFI	G AP Connection P Address Subnet Gateway MAC		Status SSID Channel Encrypt MAC	On 1 AIR-AP1800AX-H Auto [161] WPA/WPA2PSK-T 44:D1:FA:AC:5D:	FKIPAES

Fig 1.4.2 Clients list of 5G Wi-Fi AirONE AP1800AX

1.5 Operation Mode configuration

Default operation is Fat AP where it integrates the WLAN physical layer functions, service data encryption, user authentication, QoS, network management, roaming technologies, and application layer functions. It can provide wireless access independently. Each AP is

an independent node. The channels and power on each AP are configured independently. All APs work independently and support advanced and independent security policy.



A Fit AP has only Select the IP mode along with reset and reboot options.

Fig 1.5.1 Fat AP mode of AirONE AP1800AX

Note: Same Password to be used for login in Fit and Fat mode of operation

1.6 AP UP/Down stream Flow (2G Wi-Fi) bps

In Flow (2G/5G Wi-Fi) bps you can monitor the AP's Upstream and Downstream bandwidth in bps.

WiFi6 Wireless AP



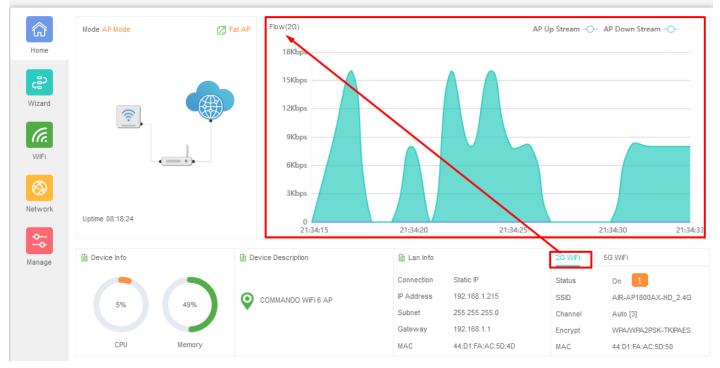


Fig 1.6.1 Flow (2G Wi-Fi) bps of AirONE AP1800AX

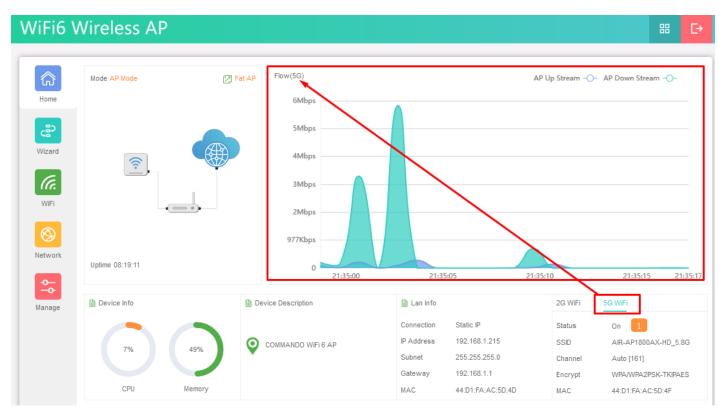


Fig 1.6.2 Flow (5G Wi-Fi) bps of AirONE AP1800AX

WIZARD

After clicking Wizard page, you can set device in Gateway Mode and AP Mode (Default Selection). It provides flexibility to configure wireless AP's operation mode based on network scenario making this AP future proof. You are required to select corresponding operation mode first before starting the configuration. Clicking Wizard will pop up following page to configure the operation mode along with photos with explanation for each operation mode.

Gateway Mode:

In Gateway mode, all Ethernet are bridged together, and wireless clients will connect ISP access point or router connecting directly to the Internet via WAN PORT. NAT is enabled and PCs in Ethernet LAN port share the same IP to ISP through wireless LAN.

AP Mode:

In AP mode, the device works as an access point to transform your existing wired network into a wireless network.

2.1 Gateway Mode

In Gateway mode, your internet provider's RJ-45 is connected to WAN port of AP1800AX. Internet provider WAN setting can have Static IP, PPPoE, or DHCP accordingly select option. Then configure the wireless parameters as per your choice of SSID, Channel width, Encryption and Time reboot if required.

Important note: Before changing mode Gateway make sure that LAN IP is set to static by going to network wizard.

WiFi6 Wireless AP		88	₽
Home Wizard	Gateway Mode		
Network	In this mode,the device is supposed to connect to internet via ADSL/Cable Modern.The NAT is enabled and PCs in LAN ports share the same IP to ISP through WAN port.The connection type can be setup in WAN page by using PPPOE,DHCP client or static IP.		

Fig 2.1.1 Gateway mode of AirONE AP1800AX

Gateway Mode				×
1		2		3
🗮 WAN				
	Internet Mode	DHCP Static IP DHCP PPPoE	^)

Next

Fig 2.1.2 Gateway mode WAN Setting of AirONE AP1800AX

Note: You can set SSID name and encryption and password as per requirement. Please turn ON Wi-Fi Status to make it active.

Recommendation: Turn off all Wi-Fi Timers.

Gateway Mode				>
~		2		3
🚟 2G WiFi				
	WiFi Status			
	SSID	AIR-AP1800AX-HD_2.4G		٦
		Hide WiFi SSID?		
	Wireless Mode	11AXG_GHE40	\sim	
	Channel	Auto	~	
	Encrypt	WPA/WPA2PSK-TKIPAES	~	
	Password	66666666		
		Back Next		

Fig 2.1.3 Gateway mode 2G Wi-Fi Setting of AirONE AP1800AX

Gateway Mode		×
 Image: A start of the start of		3
🚝 5G WiFi		
WiFi Status		
SSID	AIR-AP1800AX-HD_5.8G	
	Hide WiFi SSID?	
Wireless Mode	11AXA_AHE80 ~	
Channel	Auto \checkmark	
Encrypt	WPA/WPA2PSK-TKIPAES ~	
Password	66666666	
Timed Reboot		
Restart Interval	1Day \checkmark	
	Back Next	

Fig 2.1.4 Gateway mode 5G Wi-Fi Setting of AirONE AP1800AX

Note: The device will restart for the changes to take effect for mode changes to Gateway mode.

Home page, will show LAN, WAN, Wi-Fi, Device Information, along with operation mode.

කි	Mode Gateway Mode	Online User	1 Fic	ow			WAN D	own Stream –O-	WAN Up Stream	-0-
Home				1b						
C Wizard	Hardware accelerate			0b						
G.				0b						
WiFi	-			0b						
\otimes				0b						
Network	Uptime 00:02:10	Positon Set	tings	0						
$\overline{\bigcirc}$		•			28:25	21:28:30	21:28:35		21:28:40	21:28:43
Firewall	Device Info		🗎 Lan Info			🗎 Wan Info		2G WiFi	5G WiFi	
			IP Address	192.1	68.188.253	Internet Mode		Status	On 0	
~	3%	47%	Subnet	255.2	55.255.0	IP Address	0.0.0.0	SSID	Wireless 2.4G_	AC5D4D
Manage	570	11/9	STP	On		Gateway	0.0.0.0	Channel	Auto [6]	
			MAC	44:D1	:FA:AC:5D:4D	DNS	0.0.0.0	Encrypt	WPA/WPA2PS	K-TKIPAES
	CPU	Memory	DHCP Serve	er On		MAC Address	44:D1:FA:AC:5D:4E	MAC	44:D1:FA:AC:5	D:50

Fig 2.1.5 Gateway mode of AirONE AP1800AX

2.2 AP Mode

In AP mode, Set LAN setting from static IP, AC or gateway. Then configure the wireless parameters as per your choice of SSID, Channel width, Encryption and Time reboot if required.

Note: This is a default mode of operation for device.

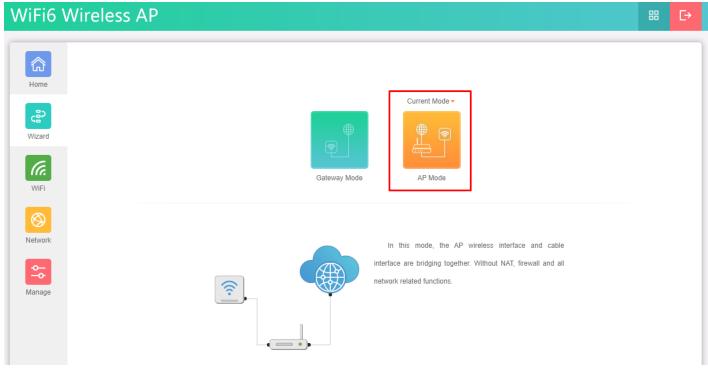


Fig 2.2.1 AP mode of AirONE AP1800AX

AP Mode				×
1		2		3
≒ LAN				
Cor	nnection	Get IP From AC	^	
		Static IP		
		Get IP From AC		
		Get IP From Gateway		
		Next		

Fig 2.2.2 Setting IP mode of AirONE AP1800AX

Note: You can set SSID name and encryption and password as per requirement. Please turn ON Wi-Fi Status to make it active

AP Mode		×
 Image: A start of the start of	2	3
🚔 2G WiFi		
WiFi Status		٦
SSID	Wireless 2.4G_AC5D4D	
	Hide WiFi SSID?	
Vireless Mode	11AXG_GHE40 V	
Channel	Auto ~	
Encrypt	WPA/WPA2PSK-TKIPAES ~	
Password	66666666	
		-
	Back Next	

Fig 2.2.3 Setting 2G Wi-Fi for AP mode of AirONE AP1800AX

~		3
≒ 5G WiFi		
WiFi Status		
SSID	Wireless 5.8G_AC5D4D	
	Hide WiFi SSID?	
Wireless Mode	11AXA_AHE80	~
Channel	Auto	~
Encrypt	WPA/WPA2PSK-TKIPAES	~
Password	66666666	
Timed Reboot		
Restart Interval	1Day	~

Fig 2.2.4 Setting 5G Wi-Fi for AP mode of AirONE AP1800AX

Note: The device will restart for the changes to take effect for mode changes to AP mode.

Home page will show LAN, Repeater, Wi-Fi, Device Information, along with operation mode shown as below.

කි	Mode AP Mode	🔀 Fat AP	Flow(2G)			AP Up Stream -O-	AP Down Stream -O-
Home			1b				
දු ව Wizard							
(a.			0b				
WiFi		•	0b				
\otimes			0b				
	Uptime 00:05:07		0 21:24:42 21:24	45 2	21:24:50	21:24:55	21:25:00
Manage	Device Info	Dev	vice Description	🗎 Lan Info		2G WiFi	5G WiFi
				Connection	Get IP From AC	Status	On 0
	3%	48%	Positon Settings	IP Address Subnet	192.168.188.253 255.255.255.0	SSID Channel	Wireless 2.4G_AC5D4D Auto [6]
	CPU M	emory		AC Address MAC	0.0.0.0 44:D1:FA:AC:5D:4D	Encrypt MAC	WPA/WPA2PSK-TKIPAES 44:D1:FA:AC:5D:50

Fig 2.2.5 Home page after setting AP mode of AirONE AP1800AX

WI-FI

In Wi-Fi setting you can set the 2.4G/5.8G Wi-Fi setting, MAC ACL, Wi-Fi Timer off and Advanced settings.

2G/5G Wi-Fi Settings:

Can set Multi SSID in 2G/5G band along with Basic SSID all other VAP 1, VAP 2, VAP 3 SSID can be set. You can ON/OFF particular SSID with this setting and set VLAN ID as per choice.

MAC ACL Settings:

Can allow and prohibit wireless clients based on MAC address.

Wi-Fi Timer Settings:

Wi-Fi Timer ON/ Off along with setting Time Frame.

Advanced Settings:

Country Region, 2G (1-13) channels, 5G (36-64), (149-165) channels, User Isolation, Short GI, Coverage Threshold (-95dBm ~ -65dBm), Packet Threshold (256~2346), RTS Threshold (50~2347) & DFS.

Note: All *italic config* options are only available in Gateway mode only.

3.1 2G/5G Wi-Fi Setting

We can set 2.4G/5.8G Wi-Fi with Basic Setting along with Virtual AP setting. You can enable or disable Wi-Fi by

Wi-Fi Status: On mean SSID is available for wireless clients.

Wi-Fi Status: Off mean SSID not available.

Note:

By default Basic Wi-Fi SSID "AIR-AP1800AX_2.4G" and "AIR-AP1800AX_5.8G" is turned ON. VAP 1 to 3 can be enable manually. Various options for setting channel bandwidth in 2G band like 11NG_HT20, 11NG_HT40 & 11AXG_GHE20 and also in 5G band like 11NA_HT20, 11NA_HT40, 11AC_VHT20, 11AC_VHT40, 11AC_VHT8, 11AXA_AHE20, 11AXA_AHE40, 11AXA_AHE80, 11AXG_GHE40. It can check free channels available with inbuilt Wi-Fi analysis.

லி	WiFi MAC ACL WiFi Ti	mer	
Home	2G WiFi 5G WiFi Advanced		
¢	WiFi Status	WiFi Analyzer	Enable VAP
ard	SID Wireless 2.4	IG_AC5D4D	
(a.	Hide WiFi SSID	0?	
WiFi	Wireless Mode 11AXG_GH	E40 ~	
\bigotimes	Channel Auto	~	
etwork	Encrypt WPA/WPA2	PSK-TKIPAES V	
	Password 66666666		
$\widehat{\mathscr{O}}$	Max Station 128 (0 t	to 256,0 means no limit)	
Firewall	TX Power Max	~	
⇔			
Manage			

Fig 3.1.1 2G Wi-Fi enable and disable of Basic and VAP 1,2,3 of AirONE AP1800AX

බ	WiFi MAC AC	L WiFi Timer	
Home	2G WiFi 5G WiFi	Advanced	
چې	WiFi Status	WiFi Analyzer	Enable VAP VAP 1 VAP 2 VAP 3
Wizard	SSID	Wireless 5.8G_AC5D4D	
ſ.	I	Hide WiFi SSID?	
WiFi	Wireless Mode	11AXA_AHE80 V	
\otimes	Channel	Auto \checkmark	
Network	Encrypt	WPA/WPA2PSK-TKIPAES V	
	Password	66666666	
$\overline{\bigcirc}$	Max Station	128 (0 to 256,0 means no limit)	
Firewall	TX Power	Max ~	
↔			
Manage			

Fig 3.1.2 5G Wi-Fi enable of AirONE AP1800AX

Wi-Fi Analyzer is a handy tool which helps you to select a better channel and mainly to analyze the AP's signal strength and channel, to make user easier to choose the channel with less Wireless Interference.

		L WiFi Timer	
ne	2G WiFi 5G WiFi	Advanced	
్	WiFi Status	WiFi Analyzer	Enable VAP VAP 1 VAP 2 VAP 3
/izard	SSID	Wireless 2.4G_AC5D4D	
(a.		Hide WiFi SSID?	
WiFi	Wireless Mode	11AXG_GHE40 V	
	Channel	Auto ~	
etwork	Encrypt	WPA/WPA2PSK-TKIPAES V	
etwork	Password	66666666	
$\overline{\bigcirc}$	Max Station	128 (0 to 256,0 means no limit)	
irewall	TX Power	Max 🗸	

Fig 3.1.3 2G Wi-Fi Analyzer button of AirONE AP1800AX

ক্রি	WiFi MAC AC	CL WiFi Timer
Home	2G WiFi 5G WiFi	Advanced
cara la cara l	WiFi Status	WiFi Analyzer Enable VAP VAP 1 VAP 2 VAP 3
Wizard	SSID	Wireless 5.8G_AC5D4D
ſa.		Hide WiFi SSID?
WiFi	Wireless Mode	11AXA_AHE30 V
	Channel	Auto V
Network	Encrypt	WPA/WPA2PSK-TKIPAES V
Network	Password	66666666
$\overline{\bigcirc}$	Max Station	128 (0 to 256,0 means no limit)
Firewall	TX Power	Max V
<u>\$</u>		
Manage		

Fig 3.1.4 5G Wi-Fi Analyzer button of AirONE AP1800AX

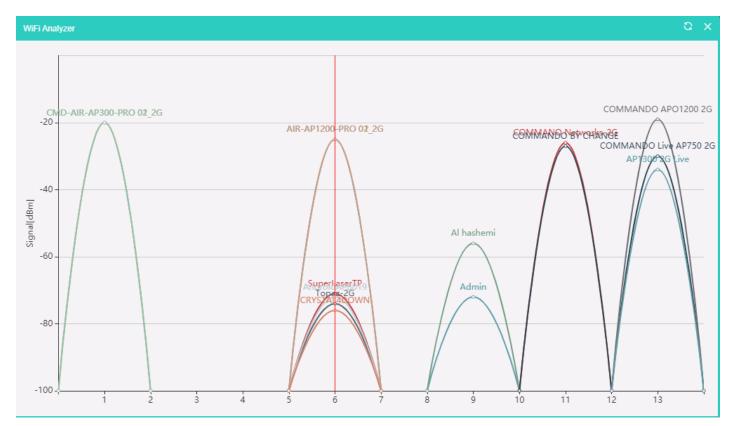


Fig 3.1.5 2G Wi-Fi Analyzer of AirONE AP1800AX

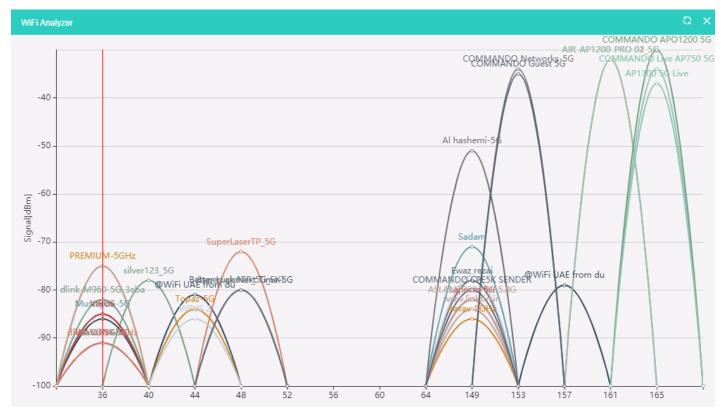


Fig 3.1.6 5G Wi-Fi Analyzer of AirONE AP1800AX

Note: Red line denote channel used and signal strength available. This AP has very strong signal and coverage than all peer top brand AP.

â	WIFI MAC AC	L WiFi Timer		
Home	2G WiFi 5G WiFi	Advanced		
<₽ 2	WiFi Status	WiFi Analyzer	Enable VAP	✓ VAP 1
Wizard	SSID	Wireless 2.4G_AC5D4D	VAP 1	
(a.		Hide WiFi SSID?	SSID	Wireless 2.4G Vap1_AC5D4D
WiFi	Wireless Mode	11AXG_GHE40 V		Hide WiFi SSID?
	Channel	Auto ~	Encrypt	NONE
	Encrypt	WPA/WPA2PSK-TKIPAES <		
etwork	Password	66666666		
$\overline{\bigcirc}$	Max Station	128 (0 to 256,0 means no limit)		
irewall	TX Power	Max ~		
↔				
lanage				

Fig 3.1.7 Enabling 2G VAP 1 of AirONE AP1800AX

කි	WiFi MAC AC	CL WiFi Timer		
Home	2G WiFi 5G WiFi	Advanced		
్టి	WiFi Status	WiFi Analyzer	Enable VAP	□ VAP 1 □ VAP 2 🔽 VAP 3
Wizard	SSID	Wireless 5.8G_AC5D4D	VAP 3	
ſa.		Hide WiFi SSID?	SSID	Wireless 5.8G Vap3_AC5D4D
WiFi	Wireless Mode	11AXA_AHE80 V		Hide WiFi SSID?
	Channel	Auto ~	Encrypt	NONE
	Encrypt	WPA/WPA2PSK-TKIPAES V		
Network	Password	66666666		
$\overline{\bigcirc}$	Max Station	128 (0 to 256,0 means no limit)		
Firewall	TX Power	Max ~		
♦ − ♦				
Manage				

Fig 3.1.8 Enabling 5G VAP 3 of AirONE AP1800AX

Important Note:

You can change All SSID name, Encryption and Wi-Fi password as per your choice to be used by wireless clients.

Note:

You can have Multi SSID up to 8 configured on AirONE AP1800AX. All SSID will use same channel in 2G and 5G band and channel width as set in Basic SSID but each Virtual Access Point (VAP) can set different name, encryption and password. You can do VLAN management in AP mode by setting particular VLAN for wireless users.

<u>م</u>	WiFi MAC A	CL WiFi Timer	
Home	2G WiFi 5G WiFi	Advanced	
چې	SSID	Wireless 2.4G_AC5D4D	
Wizard		Hide WiFi SSID?	
ſa.	Wireless Mode	11AXG_GHE40	·]
WiFi	Channel	Auto	·
\odot	Encrypt	WPA/WPA2PSK-TKIPAES	·]
Network	Password	66666666	
\$	Max Station TX Power	128 (0 to 256,0 means no lim	
Manage	VLAN		
	VLAN Port	LAN1	0
	VLAN ID	(1~409	4)

Fig 3.1.9 2G VLAN Management of of AirONE AP1800AX

Home 2G WIFI 5G WIFI Advanced Vizard SSID Wireless 5.8G_AC5D4D Wizard Hide WIFI SSID? ViFi Channel Auto ViFi Channel Auto Channel Auto Passvord Bébééééé Passvord 66666666 Max Station 128 0 to 256,0 means no limit) TX Pover Max VLAN VLAN Port LAN1 (*) VLAN ID 2 (1~4094)	ඛ	WiFi MAC A	ACL WiFi Timer
Wizard Hide WiFi SSID? Wireless Mode 11AXA_AHE80 WiFi Channel Auto Ercrypt WPA/WPA2PSK-TKIPAES Passvord 666666666 Max Station 128 TX Povier Max VLAN VLAN Port	Home	2G WiFi 5G WiFi	Advanced
Wireless Mode 11AXA_AHE80 WiFi Channel Auto Channel Auto Marssvord 66666666 Max Station 128 TX Pover Max VLAN C VLAN Port LAN1 O		SSID	
Encrypt WPA/WPA2PSK-TKIPAES Network Password Max Station 128 TX Power Max VLAN VLAN VLAN Port LAN1	ſa.	WirelessMode	
Network Password Max Station 128 TX Power Max VLAN VLAN VLAN Port LAN1	WiFi	Channel	Auto ~
Network Password Max Staion 128 TX Pover Max VLAN VLAN VLAN Port LAN1		Encrypt	WPA/WPA2PSK-TKIPAES V
TX Pover Max ~ Manage VLAN VLAN VLAN Port LAN1 ~ ?		Password	66666666
Manage VLAN VLAN Port LAN1 (?)		Max Station	128 (0 to 256,0 means no limit)
VLAN VLAN VLAN VLAN VLAN VLAN VLAN VLAN		TX Power	Max
	Manage	VLAN	
VLAN ID 2 (1~4094)		VLAN Port	LAN1 V 🕜
		VLAN ID	2 (1~4094)

Fig 3.1.10 5G VLAN Management of AirONE AP1800AX

3.2 MAC ACL Settings

MAC ACL Allow or prohibits the wireless users access into this device based on MAC address. Filters using MAC address of wireless client. If you permit or allow few clients then automatically all other non-allowed client cannot associate with AP. When a client is denied access through a MAC-based filter, the client cannot associate with the AP.

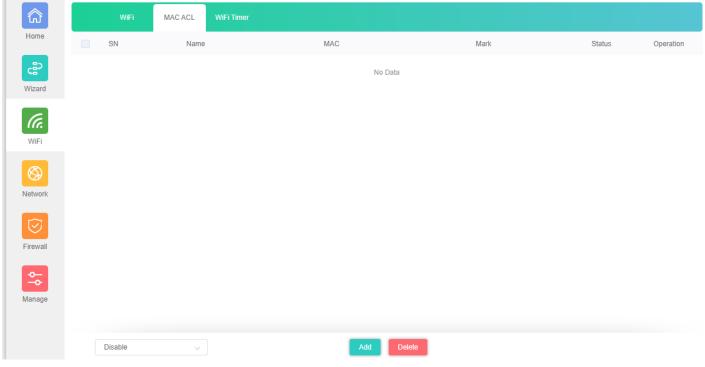


Fig 3.2.1 Default MAC ACL of AirONE AP1800AX

බ	WiFi	MAC ACL	WiFi Timer				
Home	SN	Name	MAC ACL		×	Status	Operation
چې			Status				
Wizard			MAC		Scan		
(a.			Mark				
WiFi				Add a maximum of 32)			
			Station List		X		
Network			SN Name	MAC	Connect Time		
Network			1 android-301	AA:A1:00:60:09:55	00:01:02		
Firewall							
~							
Manage							
			Total 1		< 1 >		
	Disable			Add Delete			

Fig 3.2.2 Add MAC ACL of AirONE AP1800AX

MAC ACL			×
Status			
MAC	AA:A1:00:60:09:55	Scan	
Mark	Disallow MAC		
	(Add a maximum of 32)		
	Save		

Fig 3.2.3 Select MAC address of AirONE AP1800AX

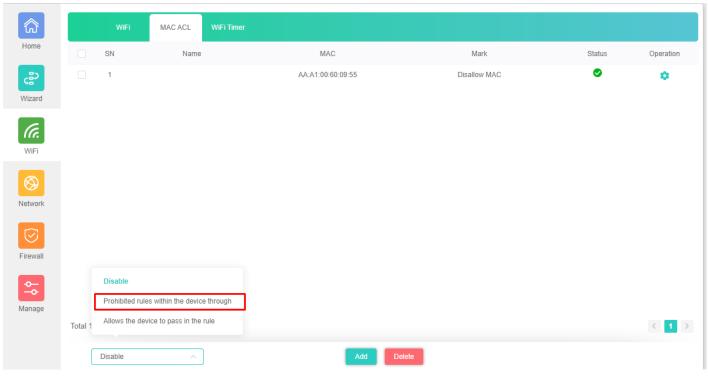


Fig 3.2.4 Apply MAC ACL for AirONE AP1800AX

බ	WiFi	MAC ACL	WiFi Timer				
Home	SN	Name	MAC ACL			Status C	peration
දුදි Wizard	1		Status	_	Scan	•	-0
WiFi			Mark				
Network				Save			
Firewall							
Manage							
	Total 1						1 >
	Disable			Add	Delete		

Fig 3.2.5 Config Button of MAC ACL for AirONE AP1800AX

3.3 Wi-Fi Timer Settings

Enable **Wi-Fi Timer Off** to turn off the SSID in the specified time. It schedules, turning your Wi-Fi OFF at a given time so that wireless client cannot associate with AP.

Recommendation: It is not recommended to make Wi-Fi Timer to be OFF in Wizard as well as in this setting to enjoy Wi-Fi all the time.

<u>ش</u>	WiFi	MAC ACL	WiFi Timer	
Home				WiFi Timer
දුම් Wizard				
ſa.				
WiFi				
Network				
Firewall				
◆				
Manage				
				Apply

Fig 3.3.1 Default Wi-Fi Timer Off for AirONE AP1800AX

How to shutdown Wi-Fi after office time?

Assume office time is from 9:00AM to 10:00PM and you wish to turn off Wi-Fi access but want to keep power ON for other use. Then you have to turn OFF Wi-Fi from 22:00 to 09:00 as shown.

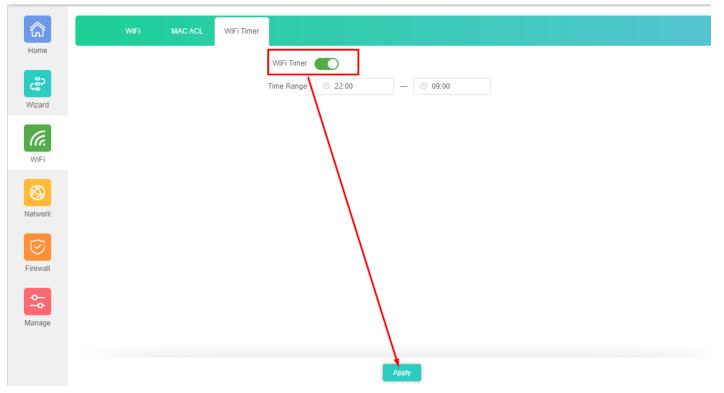


Fig 3.3.2 Wi-Fi Timer Off for AirONE AP1800AX

3.4 Advance Setting

In Advanced setting can set Country Region, 2G (1-13) channels, 5G (36-64), (149-165) channels, User Isolation, Short GI, Coverage Threshold (-95dBm ~ -65dBm), Packet Threshold (256~2346), RTS Threshold (50~2347) & DFS.

ŵ	WIFi MAC ACL WIFI Timer		
Home	2G WiFi 5G WiFi Advanced		
ഭ	Country Region	China ~	2G(1-13);5G(36-64),(149-165)
Wizard	User Isolation	On 🗸	
(a.	Short GI	Off ~	
WiFi	Coverage Threshold	-95 (-95dBm ~ -65dBm	
	Packet Threshold	2346 (256~2346	
S	RTS Threshold	2347 (50~2347	
letwork	DFS	Off ~	
<u>~</u>			
Manage			
		Apply	

Fig 3.4.1 Default Advanced setting for AirONE AP1800AX

Home	WiFi MAC ACL WiFi Timer
(B)	2G WiFi 5G WiFi Advanced Country Region China 2G(1-13);5G(36-64),(149-165)
Wizard	User Isolation China
ſa.	Short GI U.S.A Coverage Threshold UAE
WiFi	Coverage Threshold UAE Packet Threshold ETSI
Network	RTS Threshold India
¢-	DFS
Manage	
	Apply

Fig 3.4.2 Selecting Country Region for AirONE AP1800AX

命	WiFi MAC ACL WiFi Timer		
Home	2G WiFi 5G WiFi Advanced		
ුදු	Country Region	China	2G(1-13);5G(36-64),(149-165)
Wizard	User isolation	On v	
ſa.	Short Gi	Off v	
WiFi	Coverage Threshold	-95 (-95dBm ~ -65dBm)	
	Packet Threshold	2346 (256~2346)	
8	RTS Threshold	2347 (50~2347)	
Network	DFS	Off v	
Firewall			
◆			
Manage			
		Apply	

Fig 3.4.3 Selecting user Isolation for AirONE AP1800AX

â	WiFi MAC ACL WiFi Timer		
Home	2G WIFi 5G WIFi Advanced		
چې	Country Region	China	2G(1-13);5G(36-64),(149-165)
Wizard	User Isolation	On v	
(a.	Short GI	Off ^	
WiFi	Coverage Threshold	Qff	
\otimes	Packet Threshold	On	
Network	RTS Threshold	2347 (50~2347)	
	DFS	Off v	
Firewall			
_			
↔			
Manage			
		Apply	
		Apply	

Fig 3.4.4 Selecting Short GI for AirONE AP1800AX

කි		WiFi	MAC AC	L WiFi	Timer			
Home	2G W	/iFi	5G WiFi	Advanced				
ి					Country Region	China	~	2G(1-13);5G(36-64),(149-165)
Wizard					User Isolation	On	~	
ſa.					Short GI	Off	~	
WiFi					Coverage Threshold	-95	(-95dBm ~ -65dBm)	
\otimes					Packet Threshold	2346	(256~2346)	
Network					RTS Threshold	2347	(50~2347)	
					DFS	Off	~	
\odot								
Firewall								
<u>~</u>								
/lanage								
							Apply	

Fig 3.4.5 Selecting Coverage Threshold for AirONE AP1800AX

	WiFi	MAC AC	CL WiFi Tim	er			
ie	2G WiFi	5G WiFi	Advanced				
				Country Region	China	~	2G(1-13);5G(36-64),(149-165)
ď				User Isolation	On	~	
				Short GI	Off	~	
- Fi				Coverage Threshold	-95	(-95dBm ~ -65dBm)	
				Packet Threshold	2346	(256~2346)	
ork				RTS Threshold	2347	(50~2347)	
TK				DFS	Off	~	
all							
e							
						Apply	

Fig 3.4.6 Setting Packet Threshold for AirONE AP1800AX

	WiFi	MAC A	CL WiFi 1	īmer			
lome	2G WiFi	5G WiFi	Advanced				
-22 -22				Country Region	China	~	2G(1-13);5G(36-64),(149-165)
izard				User Isolation	On	~	
(e)				Short GI	Off	~	
iFi				Coverage Threshold	-95	(-95dBm ~ -65dBm)	
				Packet Threshold	2346	(256~2346)	
				RTS Threshold	2347	(50~2347)	
vork				DFS	Off	~	
0							
wall							
⊳ age							
						Apply	

Fig 3.4.7 Setting RTS Threshold for AirONE AP1800AX

â	WiFi MAC ACL WiFi Timer	
Home	2G WIFI 5G WIFI Advanced	
్టి	Country Region	China · 2G(1-13);5G(36-64),(149-165)
Wizard	User Isolation	On v
(a.	Short GI	I Off ~
WiFi	Coverage Threshold	-95 (-95dBm ~ -65dBm)
	Packet Threshold	1 2346 (256~2346)
(Setwork	RTS Threshold	1 2347 (50~2347)
	DFS	G Off v
$\overline{\bigcirc}$		
irewall		
<u>~</u>		
lanage		
		Apply

Fig 3.4.8 Selecting DFS for AirONE AP1800AX

NETWORK

URL Filter Settings:

URL filtering is a type of web filtering and is used to restrict web content.

IP Filter Settings:

IP Filter bars filter IP to access the AP SSID.

MAC Filter Settings:

MAC Filter bars filter particular MAC to access the AP SSID.

Port Mapping:

It can set Rule for particular TCP or UDP Protocol for selected wireless client IP with port mapping function.

DMZ Settings:

It can set DMZ Host IP to provide an internal network with an additional security layer by restricting access.

Note: All *italic config* options are only available in Gateway mode only.

5.1 URL Filter Settings

Organizations can create policies such as permanently allowing or blocking access to specific sites or groups of websites, such as social networking pages to either redirect, filter or blocked. URL filtering is a type of web filtering and is used to restrict web content in order to restrict what content their employees can access over company networks. URL blocking refers process of allowing or denying the access to a certain websites or certain URL addresses for the web users either temporarily or permanently. If a URL is blocked, then the user will not be able to view the URL address or its web content.

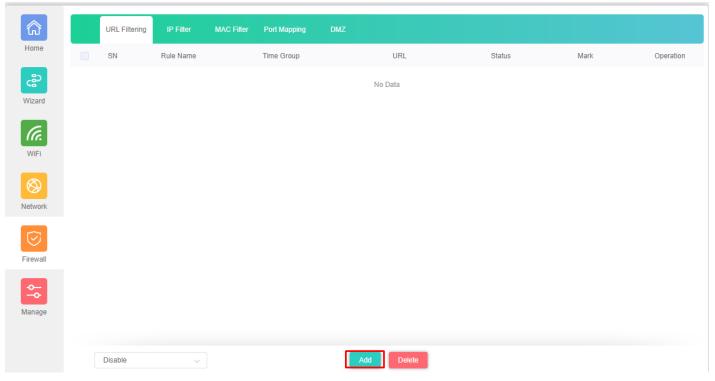


Fig 5.1.1 Default URL filter setting for AirONE AP1800AX

URL Filtering		×
Status		
Rule Name	URL Fliter1	
Time Group	Any ~ Add	
URL	https://www.commandonetworks.com/	
Mark	Filter Website	
	Add a maximum of 32	
	Save	

Fig 5.1.2 Setting URL filter for AirONE AP1800AX

කි		URL Filtering	IP Filter	MAC Filter	Port Mapping	DMZ			
Home		SN	Rule Name		Time Group	URL	Status	Mark	Operation
ి		1	URL Fliter1		Any	https://www.commandonetworks.com/	0	Filter Website	٠
Wizard									
(a									
WiFi									
\otimes									
Network									
$\overline{\bigcirc}$									
Firewall									
¢– −¢									
Manage		Disable							
	Total 1	Enable Url filte	r function						< 1
	ſ	Disable	^	1		Add Delete			

Fig 5.1.3 URL filter setting for AirONE AP1800AX

5.2 IP Filter Settings

IP Filter bars filter IP to access the AP SSID.

බ	URL Filtering	IP Filter	MAC Filter Port Ma	pping DMZ					
Home	SN	Rule Name	Time Group	IP Address	Port Range	Protocol	Status	Mark	Operation
ి					No Data				
Wizard									
(a.									
WiFi									
8 Network									
Firewall									
Anage									
	Disable	\sim		[Add Delete				

Fig 5.2.1 Default IP filter setting for AirONE AP1800AX

Status			
Rule Name	IP filter		
Time Group	Any	~	Add
IP Group	Custom	~	Add
IP Address	192.168.1.116 - 192.168.1.11	6	Scan
Port Range	80 - 65111 No empt	ty,range:1	-65535
Protocol	TCP		~
Mark	IP filter for user		
	Add a maximum of 32		



Fig 5.2.2 Setting IP filter for AirONE AP1800AX

ଲି		URL Filtering	IP Filter	MAC Filter Port Ma	ipping DMZ					
Home		SN	Rule Name	Time Group	IP Address	Port Range	Protocol	Status	Mark	Operation
vizard		1	IP filter	Any	Custom	80 - 65111	ТСР	0	IP filter for user	٠
W iFi										
(Setwork										
Firewall										
↔		Disable	evice to pass in the ru	de .						
/lanage	Total 1		lles within the device							< 1
	ſ	Disable	^			Add Delete				

Fig 5.2.3 IP filter setting for AirONE AP1800AX

5.3 MAC Filter Settings

MAC Filter bars filter MAC to access the AP SSID.

}	URL Filtering	IP Filter	MAC Filter	Port Mapping	DMZ						
ie	SN	Rule Name		Time Group		MAC	:	Status	Mar	k	Operatio
2						No Data					
ard											
ē											
Fi											
work											
2 wall											
o nage											
laye											

Fig 5.3.1 Default MAC filter setting for AirONE AP1800AX

Status			
Rule Name	MAC filter for User		
Time Group	Any	~	Add
MAC	64:5A:04:47:C7:0B		Scan
Mark	MAC filter		
	Add a maximum of 32		

Fig 5.3.2 Setting MAC filter for AirONE AP1800AX

ie		SN	Rule Name	Time Group	MAC	Status	Mark	Ope
Pard		1	MAC filter for User	Any	64:5A:04:47:C7:0B	0	MAC filter	
Fi								
ork								
vall								
age			evice to pass in the rule					
	Total 1	Prohibited rul	les within the device thro	bugh				<

Fig 5.3.3 MAC filter setting for AirONE AP1800AX

5.4 Port Mapping

A port mapping monitors incoming and outgoing network traffic and permits, or blocks

data packets based on a set of security rules. It can help protect your network by filtering traffic and blocking outsiders from gaining unauthorized access.

බ	URL Filtering	IP Filter	MAC Filter Port Mapping	DMZ					
ne	SN	Rule Name	IP Address	Protocol	External Port	Internal Port	Status	Mark	Operation
2				No	Data				
zard									
a.									
/iFi									
W ork									
2 ewall									
anage									
					_				
	Disable	~		Add	Delete				

Fig 5.4.1 Default Security setting for AirONE AP1800AX

Status		
Rule Class	User Defined V	
Rule Name	Map Ports	
Protocol	TCP+UDP v	
IP Address	192.168.1.116 Scan	
External Port	64850 - 65000 No empty,range:1-65535	
Internal Port	10 - 5000 No empty,range:1-65535	
Mark	Mapping ports	
	Add a maximum of 32	
	Save	

×



කි		URL Filtering	IP Fitter	MAC Filter	Port Mapping	DMZ					
lome		SN	Rule Name		IP Address	Protocol	External Port	Internal Port	Status	Mark	Operatio
(izard		1	Map Ports	19	92.168.1.116	TCP+UDP	64850 - 65000	10 - 5000	0	Mapping ports	٥
MIFI											
8 etwork											
rewall											
anage		Disable									
	Total 1	Enable Port M	apping Function								< 1

Fig 5.4.3 Security setting for AirONE AP1800AX

5.5 DMZ Settings

DMZ or demilitarized zone is a physical or logical subnetwork that contains portion of your network carved off and isolated from the rest of your network of an organization 's external-facing services to an untrusted, usually larger, network such as the Internet.

The main benefit of a DMZ is to provide an internal network with an additional security layer by restricting access to sensitive data and servers. A DMZ enables website visitors to obtain certain services while providing a buffer between them and the organization 's private network. The goal of a DMZ is to add an extra layer of security to an organization 's local area network. A protected and monitored network node that faces outside the internal network can access what is exposed in the DMZ, while the rest of the organization 's network is safe from attackers.

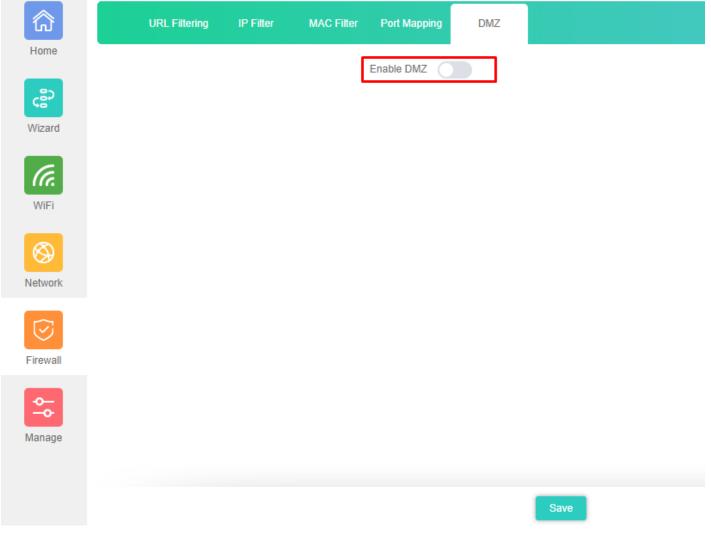


Fig 5.5.1 Default DMZ setting for AirONE AP1800AX

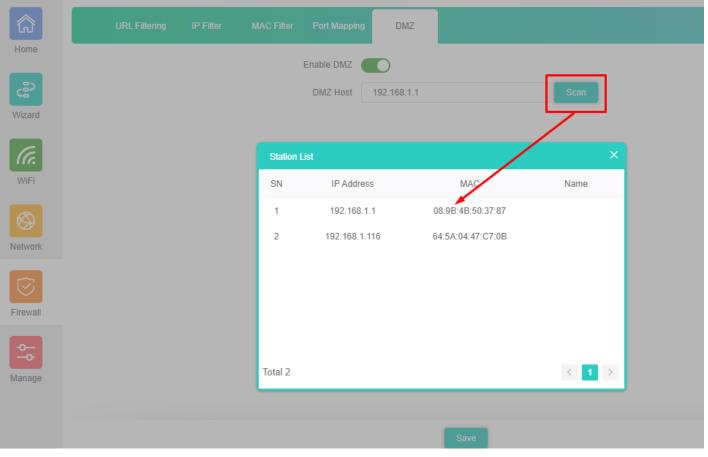


Fig 5.5.2 DMZ setting for AirONE AP1800AX

FIREWALL

URL Filter Settings:

URL filtering is a type of web filtering and is used to restrict web content.

IP Filter Settings:

IP Filter bars filter *IP* to access the *AP* SSID.

MAC Filter Settings:

MAC Filter bars filter particular MAC to access the AP SSID.

Port Mapping:

It can set Rule for particular TCP or UDP Protocol for selected wireless client IP with port mapping function.

DMZ Settings:

It can set DMZ Host IP to provide an internal network with an additional security layer by restricting access.

Note: All *italic config* options are only available in Gateway mode only.

5.1 URL Filter Settings

Organizations can create policies such as permanently allowing or blocking access to specific sites or groups of websites, such as social networking pages to either redirect, filter or blocked. URL filtering is a type of web filtering and is used to restrict web content in order to restrict what content their employees can access over company networks. URL blocking refers process of allowing or denying the access to a certain websites or certain URL addresses for the web users either temporarily or permanently. If a URL is blocked, then the user will not be able to view the URL address or its web content.

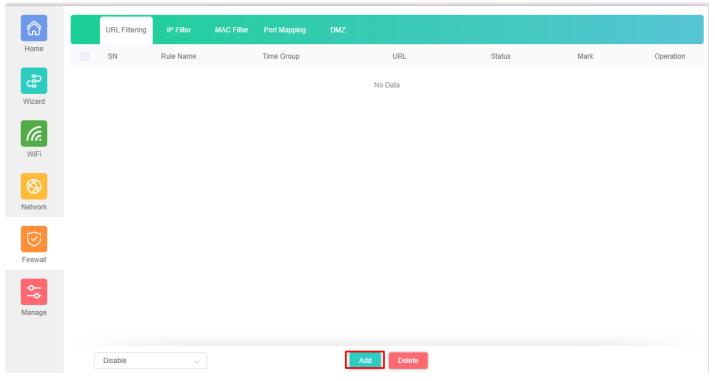


Fig 5.1.1 Default URL filter setting for AirONE AP1800AX

URL Filtering		×
Status		
Rule Name	URL Fliter1	
Time Group	Any v Add	
URL	https://www.commandonetworks.com/	
Mark	Filter Website	
	Add a maximum of 32	
	Save	

Fig 5.1.2 Setting URL filter for AirONE AP1800AX

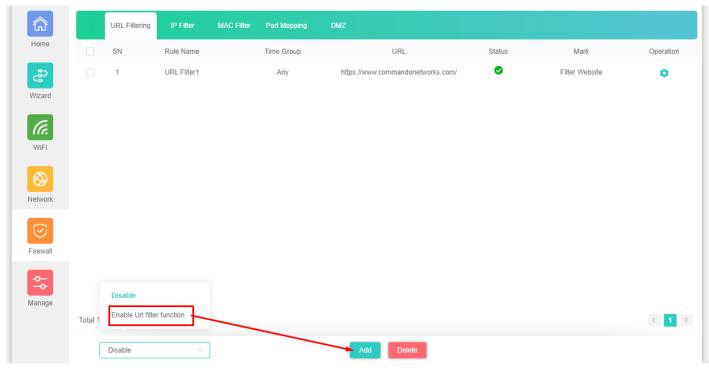


Fig 5.1.3 URL filter setting for AirONE AP1800AX

5.2 IP Filter Settings

IP Filter bars filter IP to access the AP SSID.

කි	URL Filtering	IP Filter	MAC Filter Port Ma	pping DMZ					
Home	SN	Rule Name	Time Group	IP Address	Port Range	Protocol	Status	Mark	Operation
cසි? Wizard					No Data				
WIFI									
Setwork									
Firewall									
Manage									
	Disable	~		[Add Delete				

Fig 5.2.1 Default IP filter setting for AirONE AP1800AX

Status			
Rule Name	IP filter		
Time Group	Any	~	Add
IP Group	Custom	~	Add
IP Address	192.168.1.116 - 192.168.1.1	116	Scan
Port Range	80 - 65111 No em	pty,range:1-	-65535
Protocol	TCP		~
Mark	IP filter for user		
	Add a maximum of 32		



Fig 5.2.2 Setting IP filter for AirONE AP1800AX

ඛ		URL Filtering	IP Filter	MAC Filter Port M	Mapping DMZ					
Home		SN	Rule Name	Time Group	IP Address	Port Range	Protocol	Status	Mark	Operatio
c මීට Vizard		1	IP filter	Any	Custom	80 - 65111	ТСР	0	IP filter for user	٥
WiFi										
Setwork										
irewall										
∽		Disable								
lanage	Total 1		ice to pass in the russ within the device							< 1

Fig 5.2.3 IP filter setting for AirONE AP1800AX

5.3 MAC Filter Settings

MAC Filter bars filter MAC to access the AP SSID.

J	URL Filtering	IP Filter	MAC Filter	Port Mapping	DMZ				
ne	SN	Rule Name		Time Group		MAC	Status	Mar	k Opera
2					No	Data			
ard									
e.									
/iFi									
\Im									
work									
3									
ewall									
L									
nage									
	Disable	~			Add	Delete			

Fig 5.3.1 Default MAC filter setting for AirONE AP1800AX

Status		
Rule Name	MAC filter for User	
Time Group	Any \checkmark	Add
MAC	64:5A:04:47:C7:0B	Scan
Mark	MAC filter	
	Add a maximum of 32	

Fig 5.3.2 Setting MAC filter for AirONE AP1800AX

ome										
		SN	Rule Name	Ti	me Group	MAC		Status	Mark	Operation
(izard		1	MAC filter for User		Any	64:5A:04:47:	:C7:0B	•	MAC filter	٥
VIFI										
Solution twork										
rewall										
anage			vice to pass in the rul							
	Total 1	Prohibited rule	es within the device t	hrough						< 1

Fig 5.3.3 MAC filter setting for AirONE AP1800AX

5.4 Port Mapping

A port mapping monitors incoming and outgoing network traffic and permits, or blocks data packets based on a set of security rules. It can help protect your network by filtering traffic and blocking outsiders from gaining unauthorized access.

â	URL Filtering	IP Fitter	MAC Filter Port Mapping		DMZ								
Home	SN	Rule Name		IP Address	Pr	otocol	External Port	Intern	al Port	Status		Mark	Operation
ి						No	Data						
Wizard													
ſa.													
WiFi													
\otimes													
Network													
$\overline{\bigcirc}$													
Firewall													
0 −													
Manage													
	Disable	~				Add	Delete						

Fig 5.4.1 Default Security setting for AirONE AP1800AX

Status	
Rule Class	User Defined V
Rule Name	Map Ports
Protocol	TCP+UDP V
IP Address	192.168.1.116 Scan
External Port	64850 - 65000 No empty,range:1-65535
Internal Port	10 - 5000 No empty,range:1-65535
Mark	Mapping ports
	Add a maximum of 32
	Save

Fig 5.4.2 Security Rules setting for AirONE AP1800AX

<u>م</u>		URL Filtering	IP Filter	MAC Filter	Port Mapping	DMZ					
ome		SN	Rule Name		IP Address	Protocol	External Port	Internal Port	Status	Mark	Operatio
izard		1	Map Ports	15	92.168.1.116	TCP+UDP	64850 - 65000	10 - 5000	0	Mapping ports	۰
WiFi											
rewall											
anage	Total 1	Disable Enable Port M	apping Function								< 1

×

Fig 5.4.3 Security setting for AirONE AP1800AX

5.5 DMZ Settings

DMZ or demilitarized zone is a physical or logical subnetwork that contains portion of your network carved off and isolated from the rest of your network of an organization's external-facing services to an untrusted, usually larger, network such as the Internet.

The main benefit of a DMZ is to provide an internal network with an additional security layer by restricting access to sensitive data and servers. A DMZ enables website visitors to obtain certain services while providing a buffer between them and the organization's private network. The goal of a DMZ is to add an extra layer of security to an organization's local area network. A protected and monitored network node that faces outside the internal network can access what is exposed in the DMZ, while the rest of the organization's network is safe from attackers.

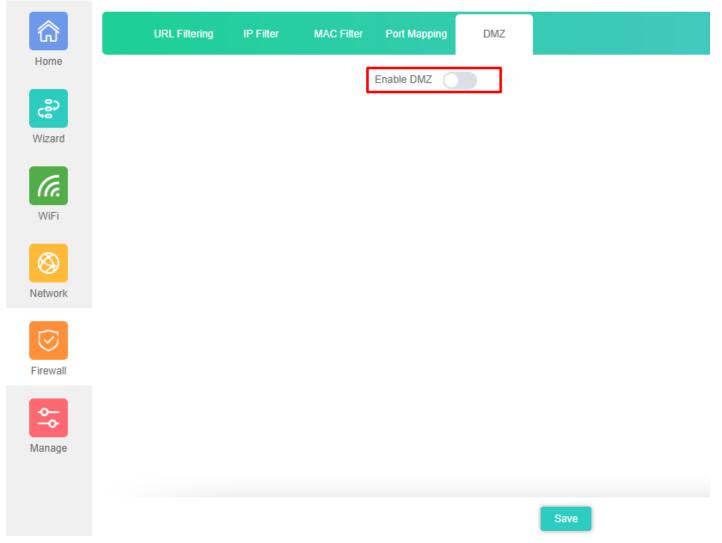


Fig 5.5.1 Default DMZ setting for AirONE AP1800AX

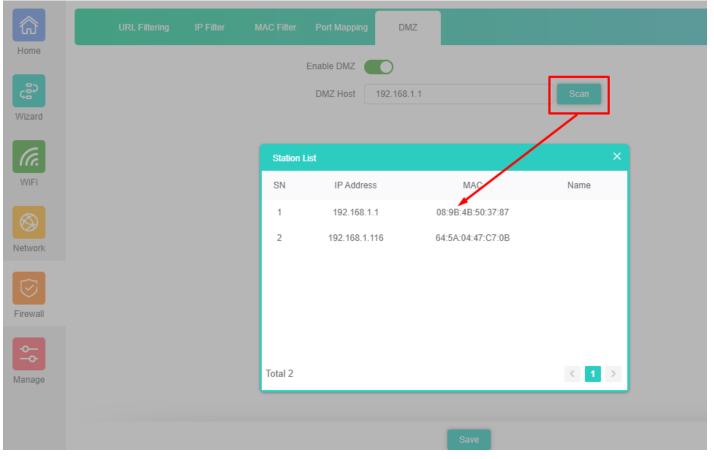


Fig 5.5.2 DMZ setting for AirONE AP1800AX

MANAGE

Configure:

Back up to save the configuration file to PC connected. Restore AP to known configuration. Reset the factory default settings. Telnet can be Enabled or disabled.

Reboot:

It possible to schedule an automatic reboot of AP.

Upgrade:

This setting to upgrade the AP is to get more functions and better performance.

Time:

System Time is the time displayed while the AP is running. On this page you can configure the system time.

Log:

The Logs can record AP information effectively. You can enable and disable log and also can set Log server.

QoS:

It can optimize the bandwidth requirement and improve the network experience for important applications

IP Group:

It can define IP group which tells AP what groups the users are defined.

Time Group:

It can create Time Group with time range and set frequency to operate time group.

DDNS Settings:

It provides a fixed domain name for DDNS client and maps its latest IP address to this domain name.

Note: All *italic config* options are only available in Gateway mode only.

6.1 Configure Setting

The Backup and Restore configuration feature allows end users to backup all configurations made in AP. In cases when you need to reset the AP to factory default settings, you will be able to restore your previous configuration using the backup configuration file. This will save you time by not going through the process of reconfigure the AP manually.

You can restore the AP to its factory default settings by the Reset button or by Reset Default option in this page. It must be noted that once the AP is reset, all the current configuration settings will be lost. If you want old configure files which is backup already then can use option upload backup. Use the page to restore the AP to the factory defaults or use the button to restore the AP to old configuration.

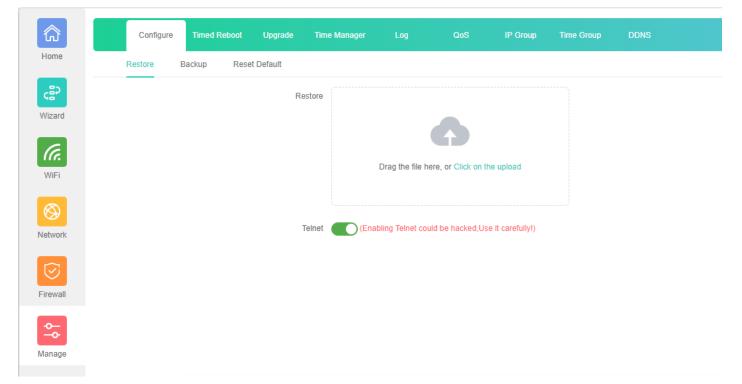


Fig 6.1.1 Default Configure setting for AirONE AP1800AX

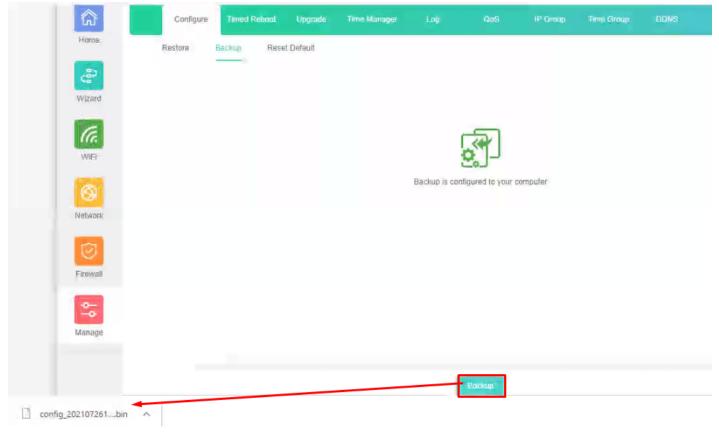


Fig 6.1.2 Taking backup of AirONE AP1800AX

	Configure	e Timed F	Reboot Upg	grade Time M	Manager Log	QoS	IP Group	Time Group	DDNS
ome	Restore	Backup	Reset Defau	ılt					
22				Restore					
izard						•			
G . Vifi					Drag the file	here, or Click on t	the upload		
Solution to the second				Telnet	(Enabling Telnet d	could be hacked,U	se it carefully!)		
ewall									
nage									
						Restore			

Fig 6.1.3 Restore to known Configure for AirONE AP1800AX

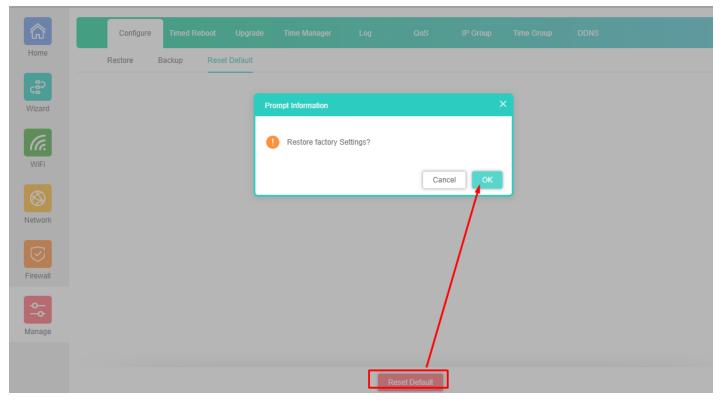


Fig 6.1.4 Reset to factory default for AirONE AP1800AX

6.2 Reboot Setting

It possible to schedule an automatic reboot of AP. The configuration will not be lost after rebooting. The Internet connection will be temporarily interrupted while rebooting.

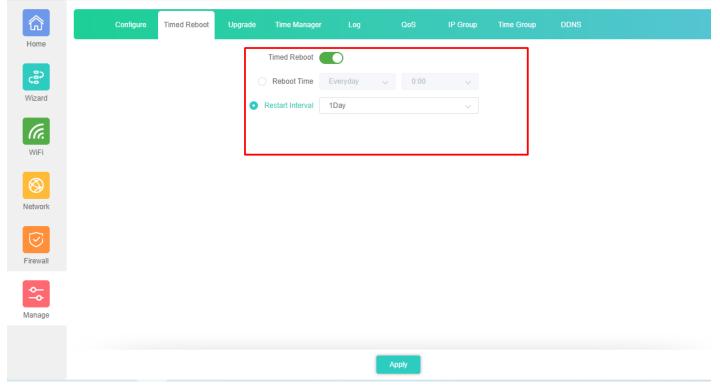


Fig 6.2.1 Default reboot setting for AirONE AP1800AX

Recommendation:

It is strongly recommended to disable Timed reboot to avoid network disruption and outage.

6.3 Upgrade Setting

Version displays the current Configuration version of the AP. To upgrade the AP is to get more functions and better performance.

Note:

1. After upgrading, the AP will reboot automatically.

2.To avoid damage to device, please don't turn off the AP while upgrading.

කි	Configure	Timed Reboot	Upgrade	Time Manager	Log	QoS	IP Group	Time Group	DDNS
Home			Ve	rsion AX840-AP-V	1.0-Build20210	601100913			
چې			Reset De	efault (Who	ether to resume	e the factory cont	iguration)		
Wizard			Upgrad	le file					
WiFi									
					Drag the file h	ere, or Click on t	he upload		
\otimes						1			
Network									
Manage									
						Upgrade			

Fig 6.3.1 Default Upgrade page for AirONE AP1800AX

Note: It is advised to take backup of the configuration before upgrading.

6.4 Time Setting

System Time is the time displayed while the AP is running. On this page you can configure the system time and the settings here will be used for other time-based functions like Logs.

In time setting you can set System Time, Time Zone, Set Time Automatically and with help

of NTP service. System Time displays the current date and time of the AP. Time Zone displays the current time zone of the AP. You can configure the time zone and NTP Server. The AP will get GMT automatically if it has connected to a NTP Server. Manual time can also be set by feeding date and time manually.

කි	Configure	Timed Reboot	Upgrade	Time Manager	r Log	QoS	IP Group	Time Group	DDNS
Home			s	ystem Time 20	21-07-26 11:20:40				
్లి			1	NTP Enable	0				
Wizard			Time 2	Zone Select	(GMT+08:00)Beijing	g, Chongqing, H	long Kong, Urur	~	
ſa.				Manual IP			0		
WiFi				NTP Server	time.windows.com		· · · · · · · · · · · · · · · · · · ·	/	
\otimes									
Network									
Firewall									
∞_									
Manage									

Fig 6.4.1 System Time for AirONE AP1800AX

Synchronize with Host to set system time is best and recommended option. It uses administrator PC's clock for setting time.

Note: It is recommended to use sync with host.

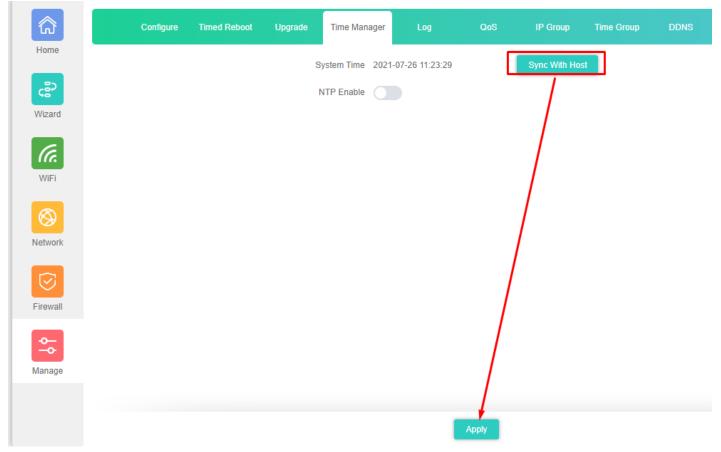


Fig 6.4.2 Disable NTP and Sync with host for AirONE AP1800AX

6.5 Log Setting

The Logs can record AP information effectively. The logs allow thorough tracking, alerting, and analysis when something does go wrong. It also determines the root cause of any issue.

<u>ଲି</u>	Configure Timed Reboot Upgrade Time Manager Log QoS	6 IP Group	Time Group	
lome	2021/07/26 09:52:51 AX840 syslog.info syslogd started: BusyBox v1.28.3			
	2021/07/26 09:52:51 AX840 kern.notice kernel: klogd started: BusyBox v1.28.3 ()			
	2021/07/26 09:52:51 AX840 kern.info kernel: [0.000000] Booting Linux on physical			
20	2021/07/26 09:52:51 AX840 kern.info kernel: [0.000000] Initializing cgroup subsy			
82 I	2021/07/26 09:52:51 AX840 kern.info kernel: [0.000000] Initializing cgroup subs;			
	2021/07/26 09:52:51 AX840 kern.info kernel: [0.000000] Initializing cgroup subs;			
lizard			00CN) (gcc versi	on 5.2.0 (OpenWrt GCC 5.2.0 unknown)) #2
	2021/07/26 09:52:51 AX840 kern.info kernel: [0.000000] Boot CPU: AArch64 Process		(8	
	2021/07/26 09:52:51 AX840 kern.warn kernel: 0.000000] Ignoring memory range 0x4		000	
6	2021/07/26 09:52:51 AX840 kern.info kernel: [0.000000] efi: Getting EFI parameter	ers from FDT:		
Ca.	2021/07/26 09:52:51 AX840 kern.info kernel: [0.000000] efi: UEFI not found.			
	2021/07/26 09:52:51 AX840 kern.debug kernel: [0.000000] cma: dma_contiguous_rese		0)	
NiFi	2021/07/26 09:52:51 AX840 kern.debug kernel: [0.000000] On node 0 totalpages: 10			
	2021/07/26 09:52:51 AX840 kern.debug kernel: [0.000000] DMA zone: 1576 pages u			
	2021/07/26 09:52:51 AX840 kern.debug kernel: [0.000000] DMA zone: 0 pages rese			
	2021/07/26 09:52:51 AX840 kern.debug kernel: [0.000000] DMA zone: 100864 pages			
8	2021/07/26 09:52:51 AX840 kern.info kernel: [0.000000] psci: probing for conduit			
	2021/07/26 09:52:51 AX840 kern.info kernel: [0.000000] psci: PSCIv1.0 detected			
twork	2021/07/26 09:52:51 AX840 kern.info kernel: [0.000000] psci: Using standard PSC)5	
	2021/07/26 09:52:51 AX840 kern.info kernel: [0.000000] psci: MIGRATE_INFO_TYPE r 2021/07/26 09:52:51 AX840 kern.info kernel: [0.000000] PERCPU: Embedded 15 pages			02 422256
	2021/07/26 09:52:51 AX840 kern.debug kernel: [0.000000] pcpu-alloc: s20992 r819/			.92 U32230 U01440
\sim	2021/07/26 09:52:51 AX840 kern.debug kernel: [0.000000] pcpu-alloc: [0] 0 [0] 1		100-13.4030	
$\overline{\mathcal{S}}$	2021/07/26 09:52:51 AX840 kern.info kernel: [0.000000] Detected VIPT I-cache on			
<u> </u>	2021/07/26 09:52:51 AX840 kern.info kernel: [0.000000] Built 1 zonelists in Zone		grouping on. To	tal pages: 99288
rewall				otfs root=mtd:ubi_rootfs rootfstype=squas
	2021/07/26 09:52:51 AX840 kern.info kernel: [0.000000] PID hash table entries: 2			
	2021/07/26 09:52:51 AX840 kern.info kernel: [0.000000] Dentry cache hash table (vtes)
<u>~</u>	2021/07/26 09:52:51 AX840 kern.info kernel: [0.000000] Inode-cache hash table en	ntries: 32768 (ord	ler: 6, 262144 by	tes)
<u>~</u>				t [ffffffc01ee63000-ffffffc01eea2fff]
			ernel code, 644K	rwdata, 2340K rodata, 236K init, 328K bs
anage	2021/07/26 09:52:51 AX840 kern.notice kernel: [0.000000] Virtual kernel memory 3			
anago	2021/07/26 09:52:51 AX840 kern.notice kernel: [0.000000] vmalloc : 0xffffff			(246 GB)
	2021/07/26 09:52:51 AX840 kern.notice kernel: [0.000000] vmemmap : 0xfffffl			(8 GB maximum)
		dc0040000 - 0xfff		(7 MB actual)
	_2021/07/26 09:52:51 AX840 kern.notice kernel: [0.000000] fixed : 0xffffff	otta/td000 - 0xfff	+++D++ac00000	(4108 KB)

Fig 6.5.1 Default Log setting for AirONE AP1800AX

â	Conf	īgure T	imed Reboot	Upgrade	Time Manager	Log	QoS	IP Group	Time Group	DDNS
Home										
Wizard										
(a										
WiFi							\bigcirc			
Network							G			
Firewall										
Manage										
	Log	Apply								

Fig 6.5.2 Turning OFF Log setting for AirONE AP1800AX

പ്	Configure	Timed Reboot	Upgrade	Time Manager	Log	QoS	IP Group	Time Group	DDNS	
me	2021/07/26 09:52:51	AX840 kern.info	kernel: [0.000000] In	ode-cache hash	table entries:	32768 (orde	r: 6, 262144 by	tes)	
	2021/07/26 09:52:51	AX840 kern.info	kernel: [0.000000] so	oftware IO TLB	[mem 0x5fe63000	-0x5fea3000]	(OMB) mapped a	t [ffffffc01ee6300	0-ffffffc01eea2fff]
_	2021/07/26 09:52:51	AX840 kern.info	kernel: [0.000000] Me	emory: 376132K/	403456K availab	le (5520K ke	rnel code, 644K	rwdata, 2340K rod	ata, 236K init, 328K b
0	2021/07/26 09:52:51				Virtual kernel	memory layout:				
52 I	2021/07/26 09:52:51			0.000000]	vmalloc :	0xffffff8000000	0000 - 0xffff	ffbdbfff0000	(246 GB)	
	2021/07/26 09:52:51			0.000000]		0xffffffbdc0000			(8 GB maximum)
zard	2021/07/26 09:52:51			0.000000]		0xffffffbdc0040	0000 - 0xffff	ffbdc0800000	<pre>(7 MB actual)</pre>	
	2021/07/26 09:52:51			0.000000]		0xffffffbffa7fc			(4108 KB)	
	2021/07/26 09:52:51			0.000000]	PCI I/O :	0xffffffbffae00	0000 - 0xffff	ffbffbe00000	(16 MB)	
	2021/07/26 09:52:51			0.000000]		0xffffffbffc000			(64 MB)	
C.	2021/07/26 09:52:51			0.000000]		0xffffffc000000			(496 MB)	
16	2021/07/26 09:52:51			0.000000]	.init :	0xffffffc00082f	-000 - 0xffff	ffc00086a000	(236 KB)	
	2021/07/26 09:52:51			0.000000]		0xffffffc000080			(7868 KB)	
/iFi	2021/07/26 09:52:51			0.000000]		0xffffffc00087b			(644 KB)	
	2021/07/26 09:52:51					, Order=0-3, Mi				
	2021/07/26 09:52:51			0.000000] Pr		archical RCU in				
8	2021/07/26 09:52:51			0.000000]		adjustment of]	leaf fanout t	o 64.		
<u>ک</u>	2021/07/26 09:52:51				R_IRQS:64 nr_ir					
	2021/07/26 09:52:51					timer(s) runni				
work	2021/07/26 09:52:51									0, max_idle_ns: 440795
	2021/07/26 09:52:51								y 4398046511097ns	
	2021/07/26 09:52:51							culated using t	imer frequency 4	8.00 BogoMIPS (lpj=240
~	2021/07/26 09:52:51					: 32768 minimum				
~) —	2021/07/26 09:52:51					table entries:				
~	2021/07/26 09:52:51					hash table ent	ries: 1024 (order: 1, 8192	bytes)	
ewall	2021/07/26 09:52:51				nitializing cgr					
swall	2021/07/26 09:52:51					oup subsys memo				
	2021/07/26 09:52:51					oup subsys devi				
	2021/07/26 09:52:51					oup subsys free				
<u> </u>	2021/07/26 09:52:51					oup subsys net_				
<u>е</u>	2021/07/26 09:52:51					oup subsys pids				
	2021/07/26 09:52:51					l not be availa				
nage	2021/07/26 09:52:51					nitialised with		es		
	2021/07/26 09:52:51					base table set				
	2021/07/26 09:52:51					apps data table	e set up			
	2021/07/26 09:52:51				etected VIPT I-					
	2021/07/26 09-52-51	AY840 kern info	kernel [0 0901961 0	PIII · Rooted ser	ondary processo	r [51af80141			
) 192,168							

Fig 6.5.3 Remote Log service setting IP for AirONE AP1800AX

Recommendation: It is strongly recommended to turn OFF logs to avoid excessive CPU cycles, Memory usage and hanging of AP in long term.

6.6 QoS

Enabling QoS can optimize the bandwidth requirement and improve the network experience for important applications, especially in the bandwidth hungry wireless clients' environment.

බ	Configure	Timed Reboot	Upgrade	Time Manager	Log	QoS	IP Group		DDNS		
lome	SN	IP Address	Time Group	Limite	d Mode	l	qL	Down	Status	Mark	Operation
-22						No Data					
/izard											
(a.											
WiFi											
A											
twork											
I											
rewall											
~~											
anage											
					_						
	Disable QoS	~			Add	Dele	te				

Fig 6.6.1 Default QoS page for AirONE AP1800AX

IP Filter				×
Status				
IP Group	Custom	~	Add	
IP Address	192.168.1.116 - 192.168.1.116		Scan	
Time Group	Any	~	Add	
Limited Mode	Shared Limited Bandwidth		~	
Up	100		Kbps	
Down	100		Kbps	
Mark				
	Add a maximum of 32			
	Save			

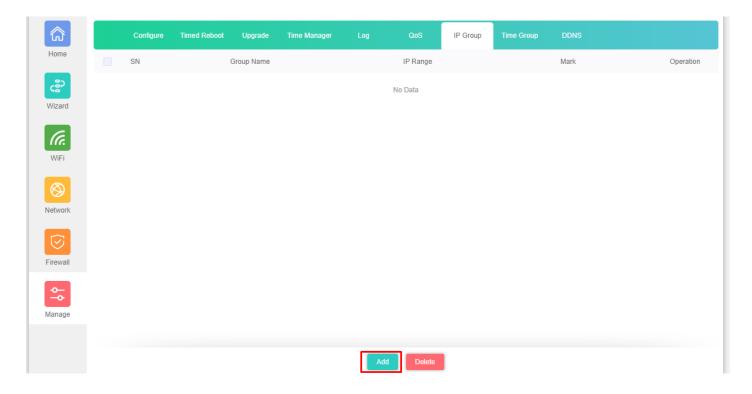
3		Configure	Timed Reboot	Upgrade	Time Manager Log	QoS	IP Group Time Group			
ie		SN	IP Address	Time Group	Limited Mode	Up	Down	Status	Mark	Operation
Pard		1	Custom	Any	Shared Limited Bandwid	th 100	100	0		۰
IFI										
work										
2 wall										
↔ nage		Disable QoS								
	Total 1	Enable Q05								< 1
	ſ	Disable QoS	^			dd Delete				

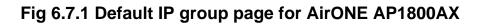
Fig 6.6.2 Enabling Speed limit for AirONE AP1800AX

Fig 6.6.3 QoS page for AirONE AP1800AX

6.7 IP Group

A single IP address divides into two sections: Network ID and Host ID. The Network ID defines the logical group where devices belong. Similarly, we can define IP group which tells AP what IP group name and associated IP address are available for wireless users.





IP Group		×
Group Name	IP group	
IP Range	192.16.1.100 - 192.168.1.200 Scan	
Mark	Sales Group	
	Add a maximum of 16	
	Save	

Fig 6.7.2 IP group name and associated IP address for AirONE AP1800AX

		Configure	Timed Reboot	Upgrade	Time Manager		QoS	IP Group		DDNS	
		SN		Group Name			IP Range			Mark	Operation
		1		IP group		192.16.	1.100 - 192.168	.1.200	:	Sales Group	٥
ork											
vall											
•											
age -	Fotal 1										< 1
	o tar i										

Fig 6.7.3 IP group page for AirONE AP1800AX

6.8 Time Group

It can create Time Group with time range and set frequency of operation for particular activity to operate in specified time. It can give automated effect to the network.

බ	Configure	Timed Reboot	Upgrade	Time Manager	Log	QoS	IP Group	Time Group		
Home	SN	Time Group)	Time Range		Work D	ate		Mark	Operation
ഭ						No Data				
Vizard										
ſa.										
WiFi										
\bigotimes										
etwork										
$\overline{\bigcirc}$										
irewall										
↔										
lanage										
					Add	Delete				

Fig 6.8.1 Default time group for AirONE AP1800AX

Time Group		×
Time Group	Time restrictions	
Time Range	© 09:00 - © 22:00	
Work Date	Custom ~	
	Mon. Tue. Wed.	
	🗹 Thu. 🗹 Fri. 🗌 Sat. 🗌 Sun.	
Mark	Time restriction for WiFi access	
	Add a maximum of 16	
	Save	

Fig 6.8.2 Setting Time group for AirONE AP1800AX

â		Configure	Timed Reboot	Upgrade	Time Manager	Log	QoS	IP Group	Time Group	DDNS	
Home		SN	Time Group		Time Range		Work Date			Mark	Operation
දුමුව Wizard		1	Time restrictions		09:00 - 22:00	09:00 - 22:00 Mon. Tue. Th		'hu. Fri.	Time	restriction for WiFi access	٥
WiFi											
Network											
Firewall											
Manage											
	Total 1										< 1
						Add	Delete				

Fig 6.8.3 Time group for AirONE AP1800AX

6.9 DDNS Settings

DDNS (Dynamic DNS) server provides a fixed domain name for DDNS client and maps its latest IP address to this domain name. Dynamic DNS (DDNS) is an Internet service that allows controller with varying public IP addresses to be located using Internet domain names. To use DDNS, you must setup an account with a DDNS provider and set up an account with a DDNS service, the host & domain name, username, password detail will be provided by the account provider. It allows address, which enables the Internet hosts to access the router or the hosts in LAN using the domain names. As many ISPs use DHCP to assign public IP addresses in WAN, the public IP address assigned to the client is unfixed. In this way, it's very difficult for other clients to get the latest IP address of this client for access.

DDNS (Dynamic DNS) server provides a fixed domain name for DDNS client and maps its latest IP address to this domain name. When DDNS server works, DDNS client informs the DDNS server of the latest IP address, the server will update the mappings between the domain name and IP address in DNS database. Therefore, the wireless users can use the same domain name to access the DDNS client even if the IP address of the DDNS client has changed. DDNS is usually used for the Internet users to access the private website and FTP server, both of which are established based on Web server.

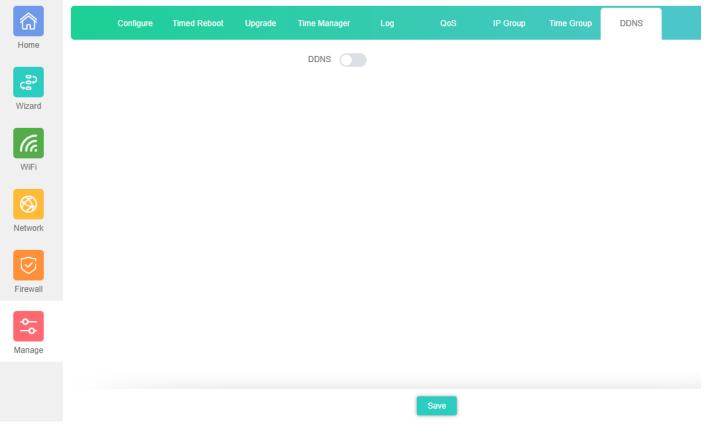


Fig 6.9.1 Default DDNS page for AirONE AP1800AX

â	Configure	Timed Reboot	Upgrade	Time Mana	iger	Log	QoS	IP Group	Time Group	DDNS	
Home				DDNS							
ഭീ				User Name							
Wizard				Password							
<i>Ca</i>				Public IP	N/A						
WiFi				Domain	N/A						
				User Type	N/A						
Network				Link Status			_				
					Νο Αςςοι	unt? Registra	tion ^F orget Pass	word			
$\overline{\bigcirc}$											
Firewall											
~ →											
Manage											
	Save										

Fig 6.9.2 Enable DDNS page for AirONE AP1800AX