



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

OVERVIEW

COMMANDO AirONE AP1800AX-HD 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 and DL/UL-OFDMA modulation. It supports data rate up to 1800Mbps for wireless users and supports concurrent 160+ 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-HD using the Web based GUI (Graphical User Interface), also called Web GUI interface.



Fig 1. Physical port on AirONE AP1800AX-HD

Table 1. Physical port on AirONE AP1800AX-HD 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, 1.5 A.

High Performance 11ax 1800Mbps Wireless AP

Model: AIR-AP1800AX-HD

POE IN: 48V $\overline{=}$ 0.5A

IP: 192.168.188.253

DC IN: 12V $\overline{=}$ 1.5A

Password: admin



MAC: 44D1FAAC5D4D

S/N: CLX12607019



Made in China

Fig 2. Access information on AirONE AP1800AX-HD

INTRODUCTION

COMMANDO AirONE AP1800AX-HD 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 8MB (1.8v) + NAND 128MB, and 1GB DDR3 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, 1.5A.
- With best-in-class power amplifier and FEM, 300mW high power, N type antenna connector 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 160+.
- 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, 1.5A.
- Support Open or encryption like WPA/WPA2PSK_TKIPAES.
- With best-in-class power amplifier and FEM, 300mW high power, N type antenna connector for high gain antenna, stronger signal strength & supports large wireless coverage (91m and above) in all directions.
- Comply with IEEE 802.3az standard

How to take access of COMMANDO AirONE AP1800AX-HD?

1. Wired access Via LAN port connected to PC.

- Power ON AirONE AP1800AX-HD.
- Connect LAN port of AirONE AP1800AX-HD 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.



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 automatically

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 automatically

Use the following DNS server addresses:

Preferred DNS server:

. . .

Alternate DNS server:

. . .

Validate settings upon exit

Advanced...

OK

Cancel

Fig 3. IP setting in PC connected to AirONE AP1800AX-HD

2. Wireless access Via SSID connected to PC.

Power ON AirONE AP1800AX-HD.

Connect Default SSID named “AIR-AP1800AX-HD_2.4G” or “AIR-AP1800AX-HD_5.8G” with the help of default Wi-Fi Password “66666666”.

Click on properties of connected SSID “AIR-AP1800AX-HD_2.4G” or “AIR-AP1800AX-HD_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.

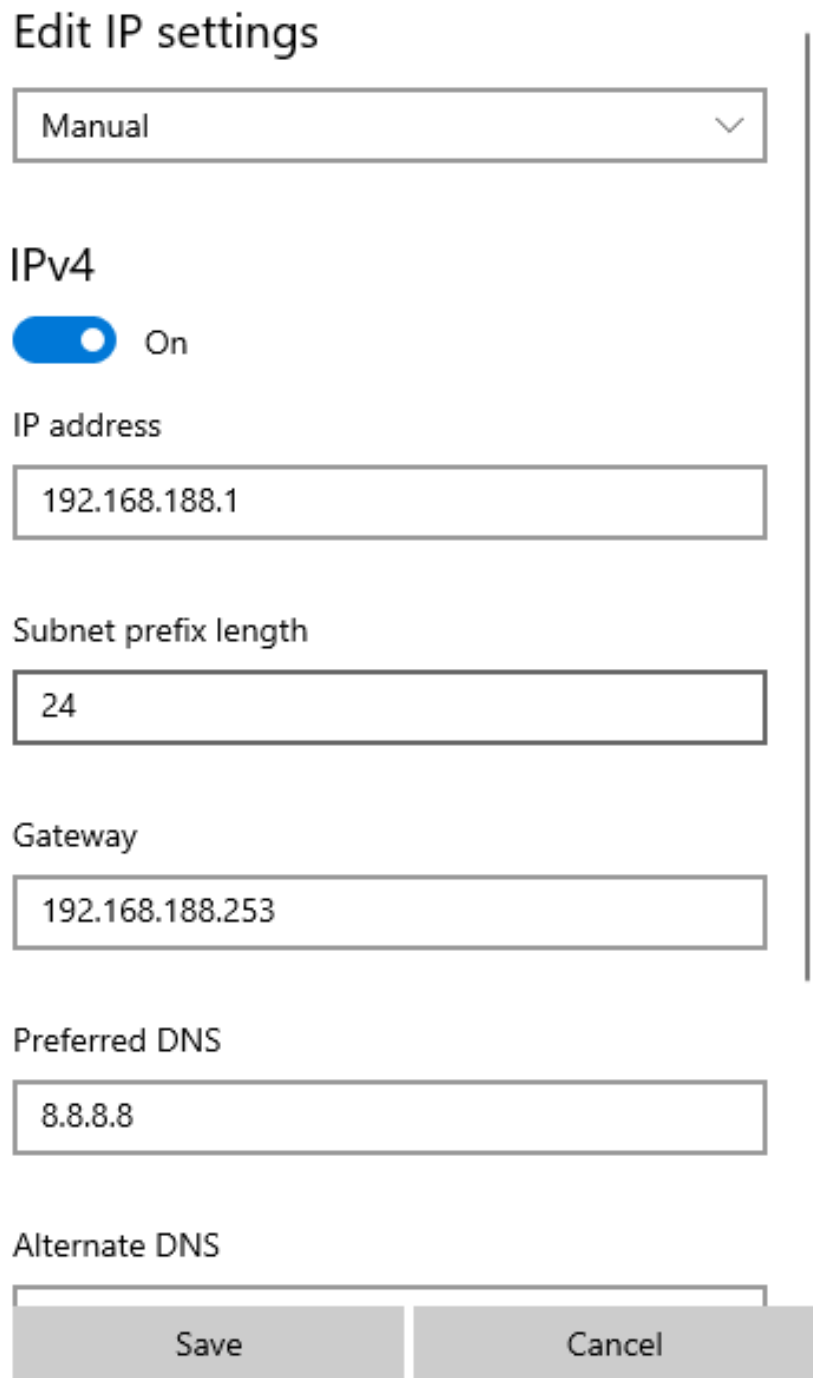
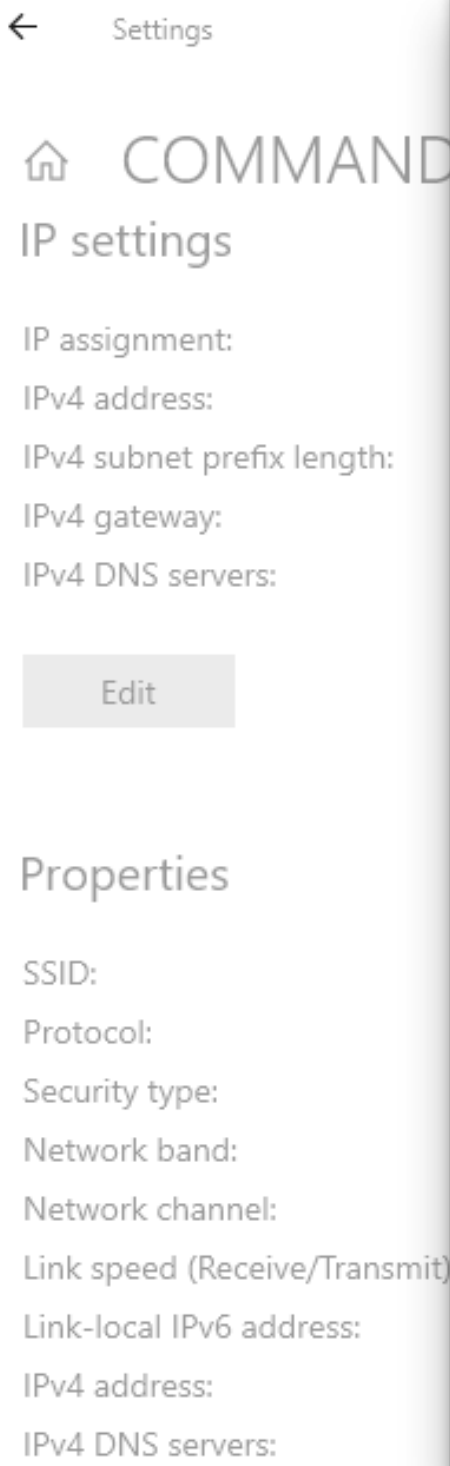


Fig 4. Edit IP setting from DHCP to Manual as shown for AIR-AP1800AX-HD_2.4G

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-HD

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

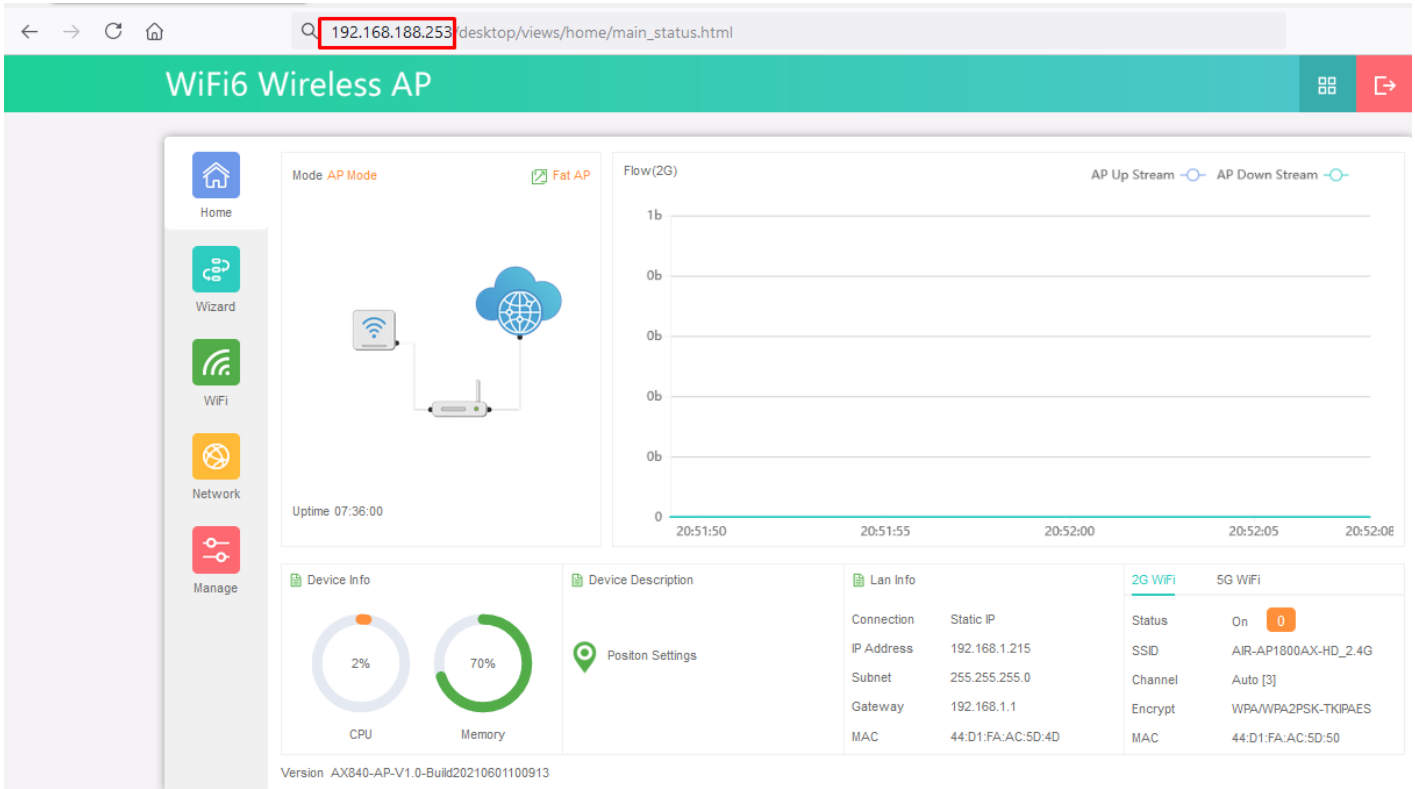


Fig 6. Home page after login AirONE AP1800AX-HD

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.

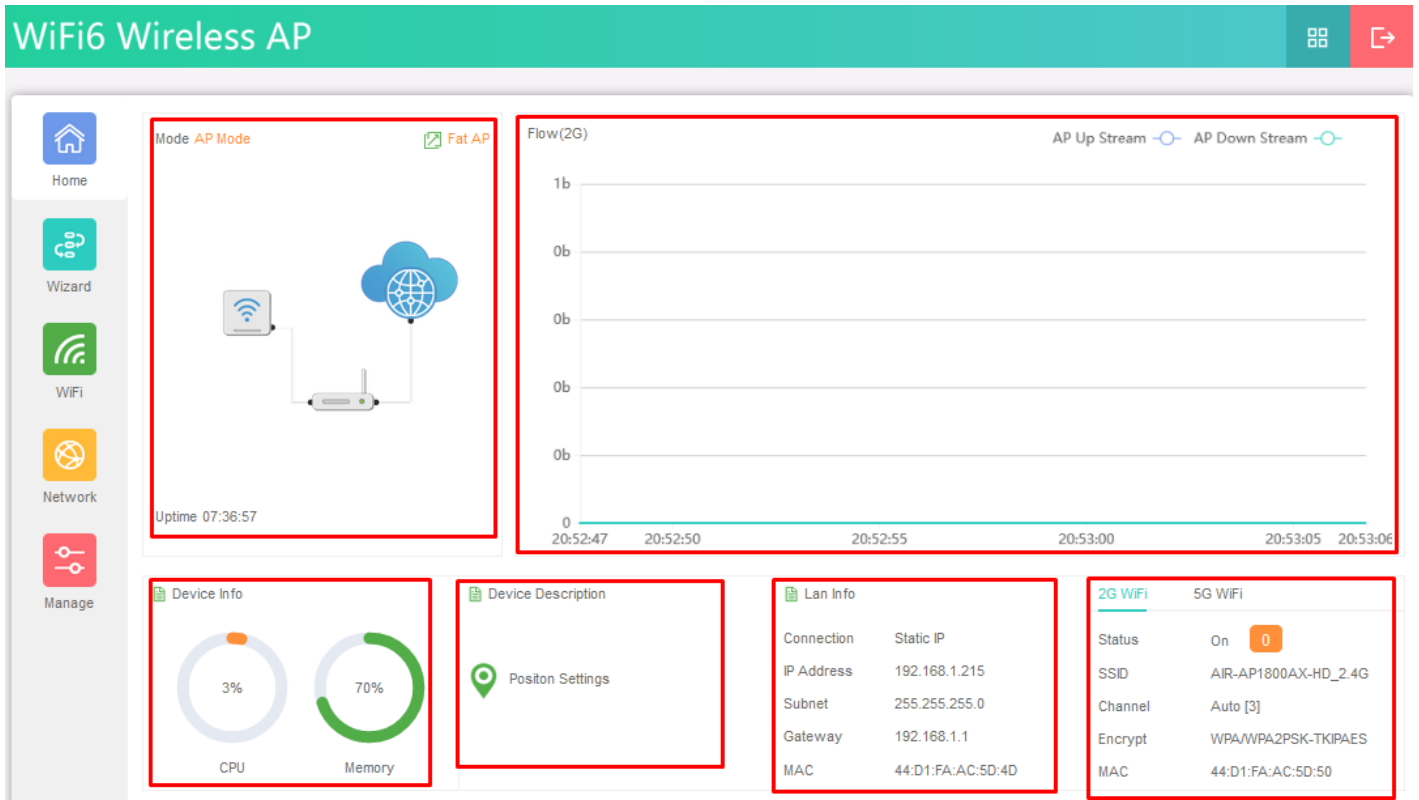


Fig 1.1 Home page Components of AirONE AP1800AX-HD

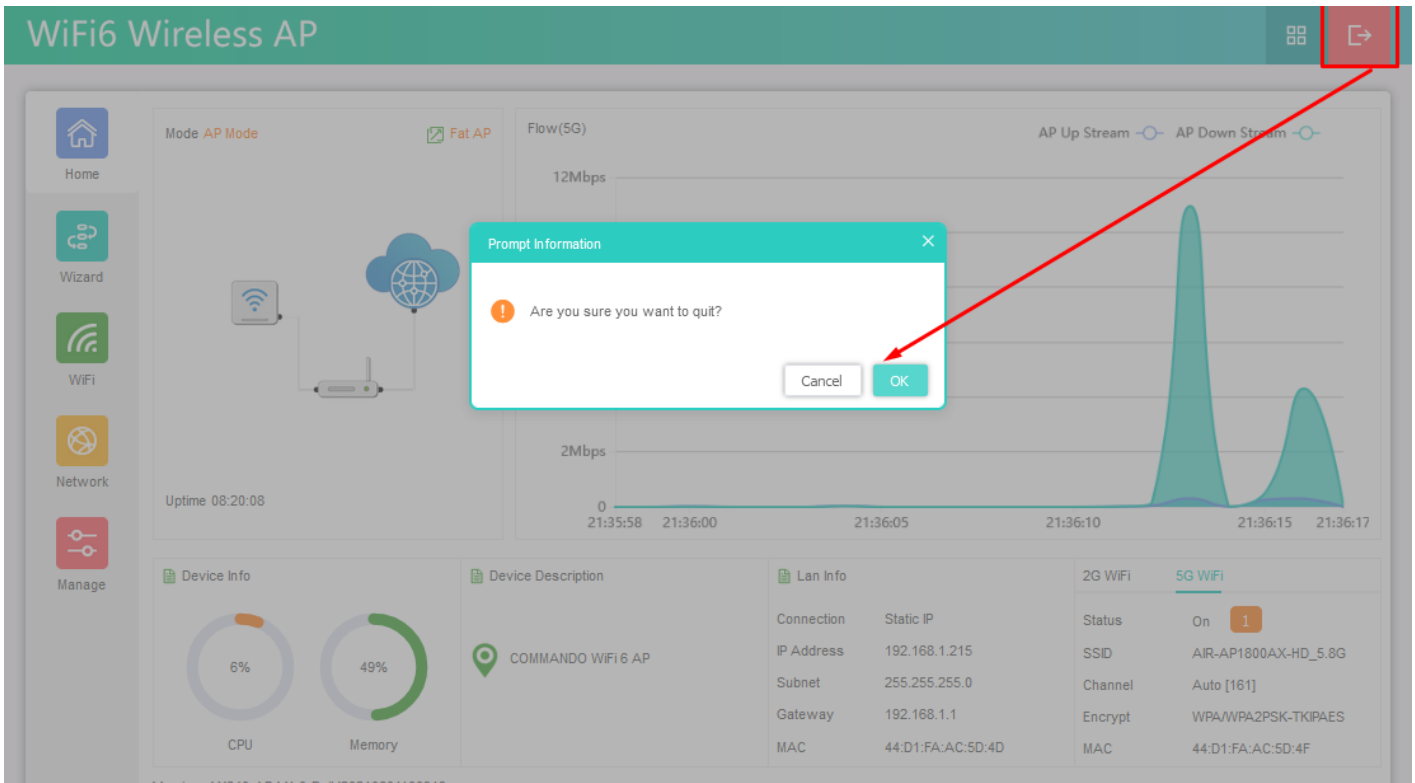


Fig 1.2 Logout Button of AirONE AP1800AX-HD

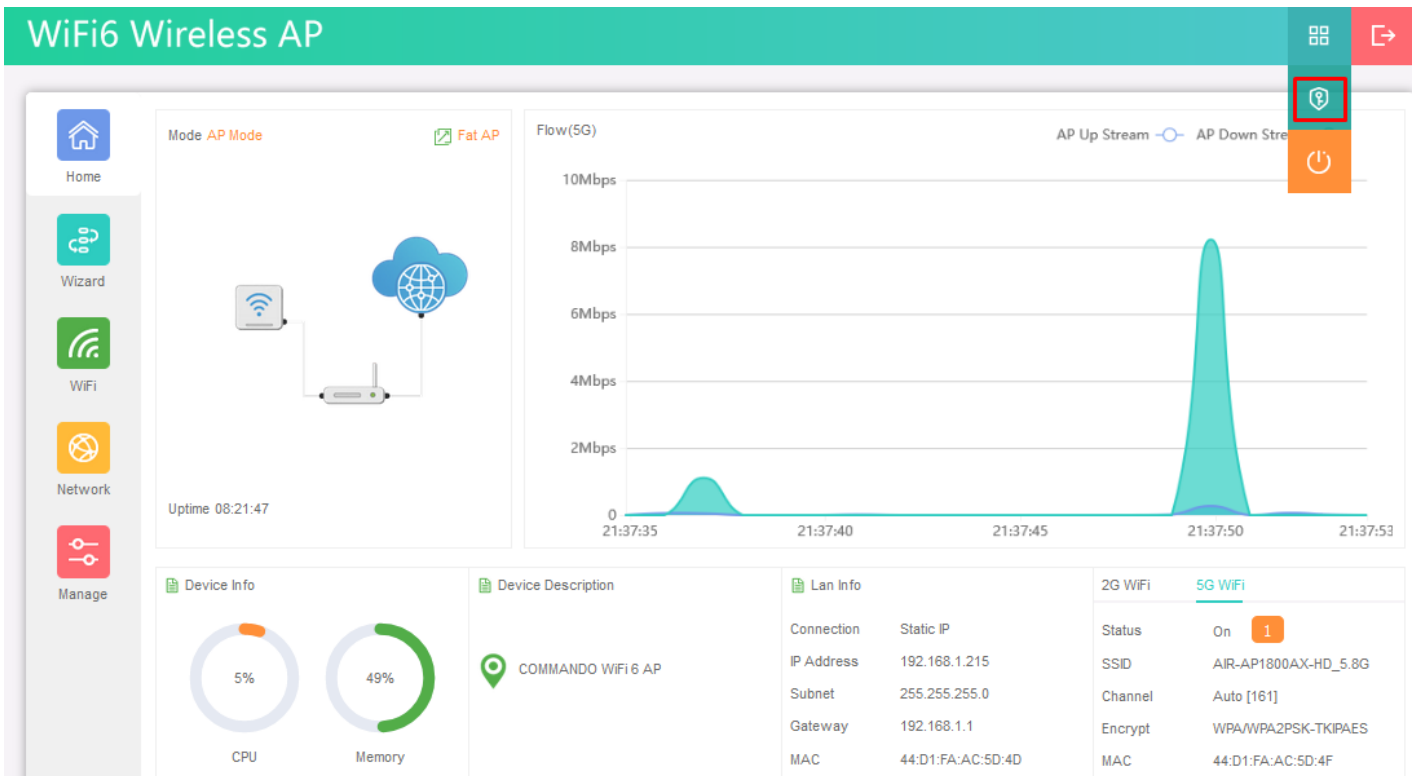


Fig 1.3 Modify password shortcut Button of AirONE AP1800AX-HD

After clicking button following page to modify password will appears.

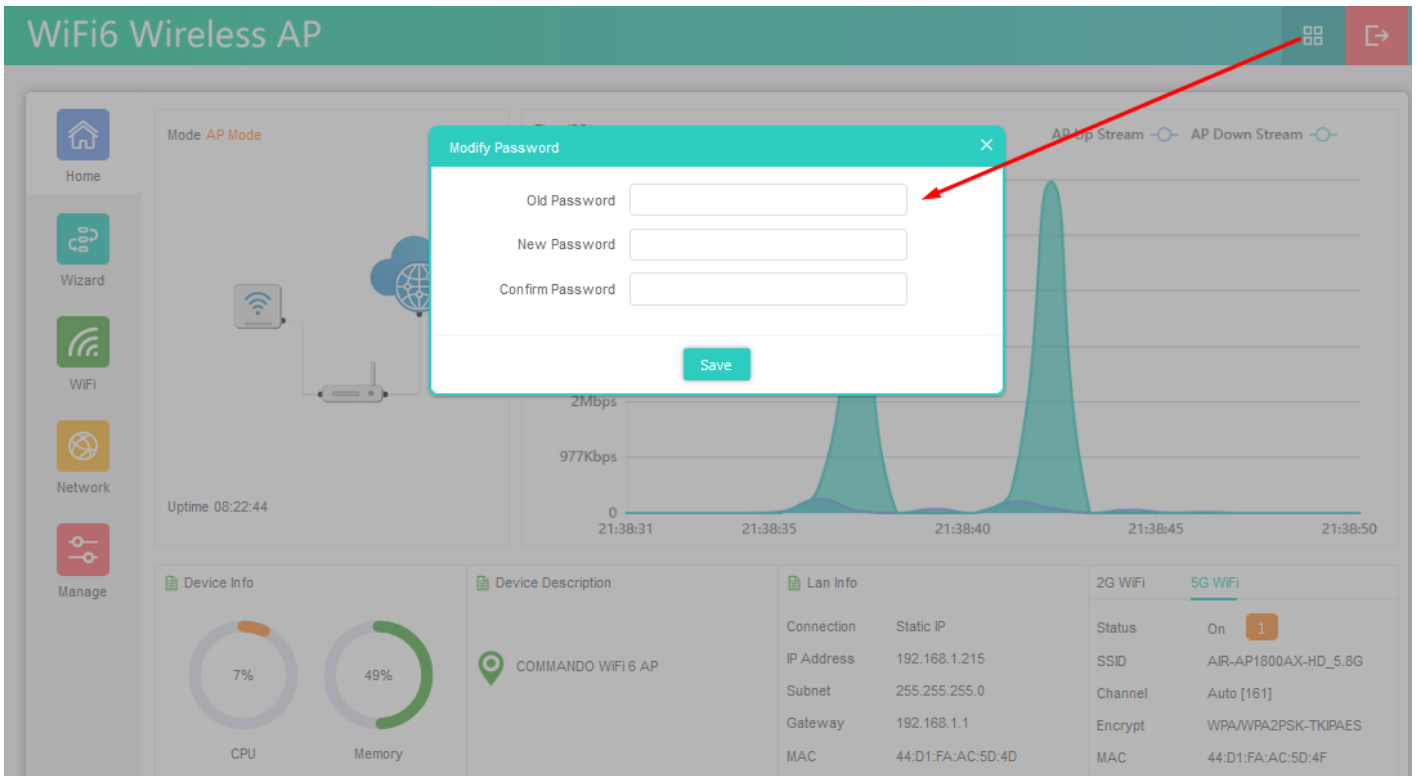


Fig 1.4 Modify password of AirONE AP1800AX-HD

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

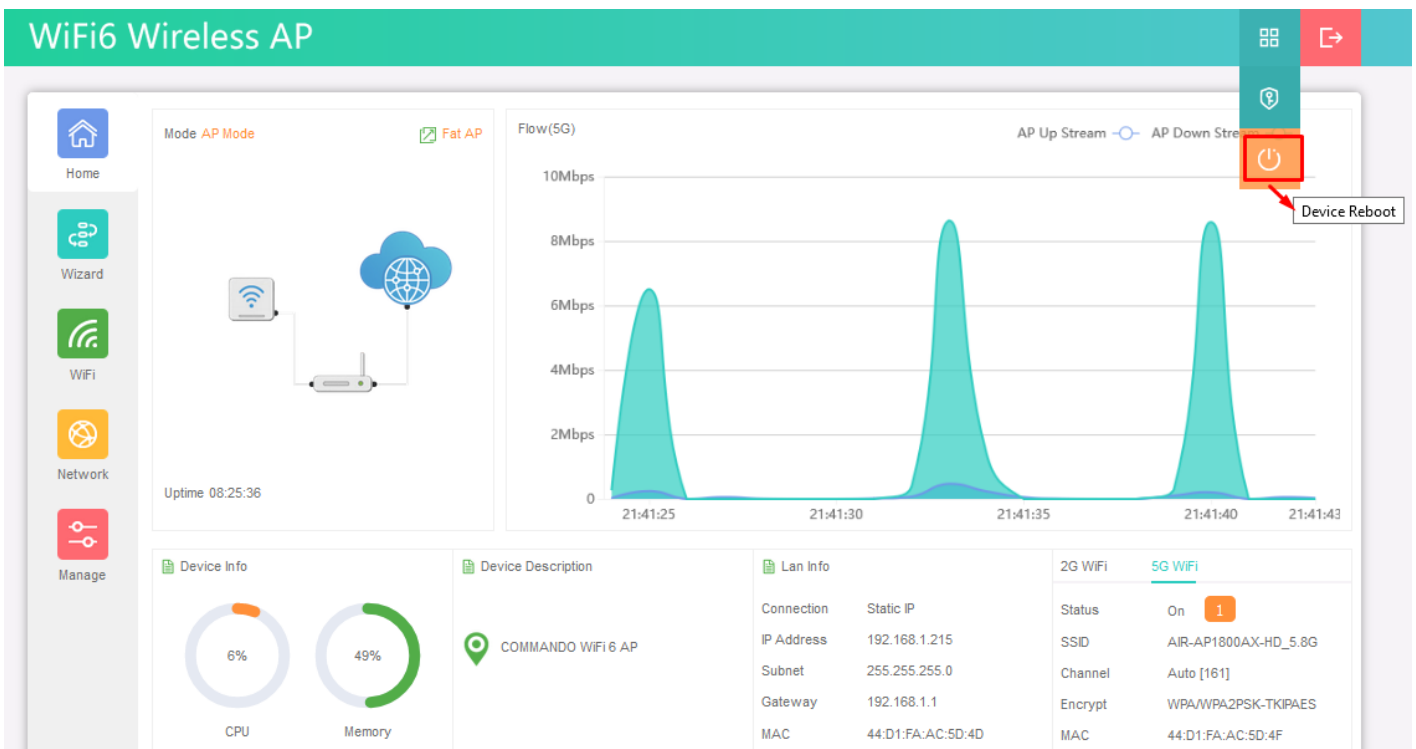


Fig 1.5 Reboot button of AirONE AP1800AX-HD

After clicking button following page to Reboot AP will appears.

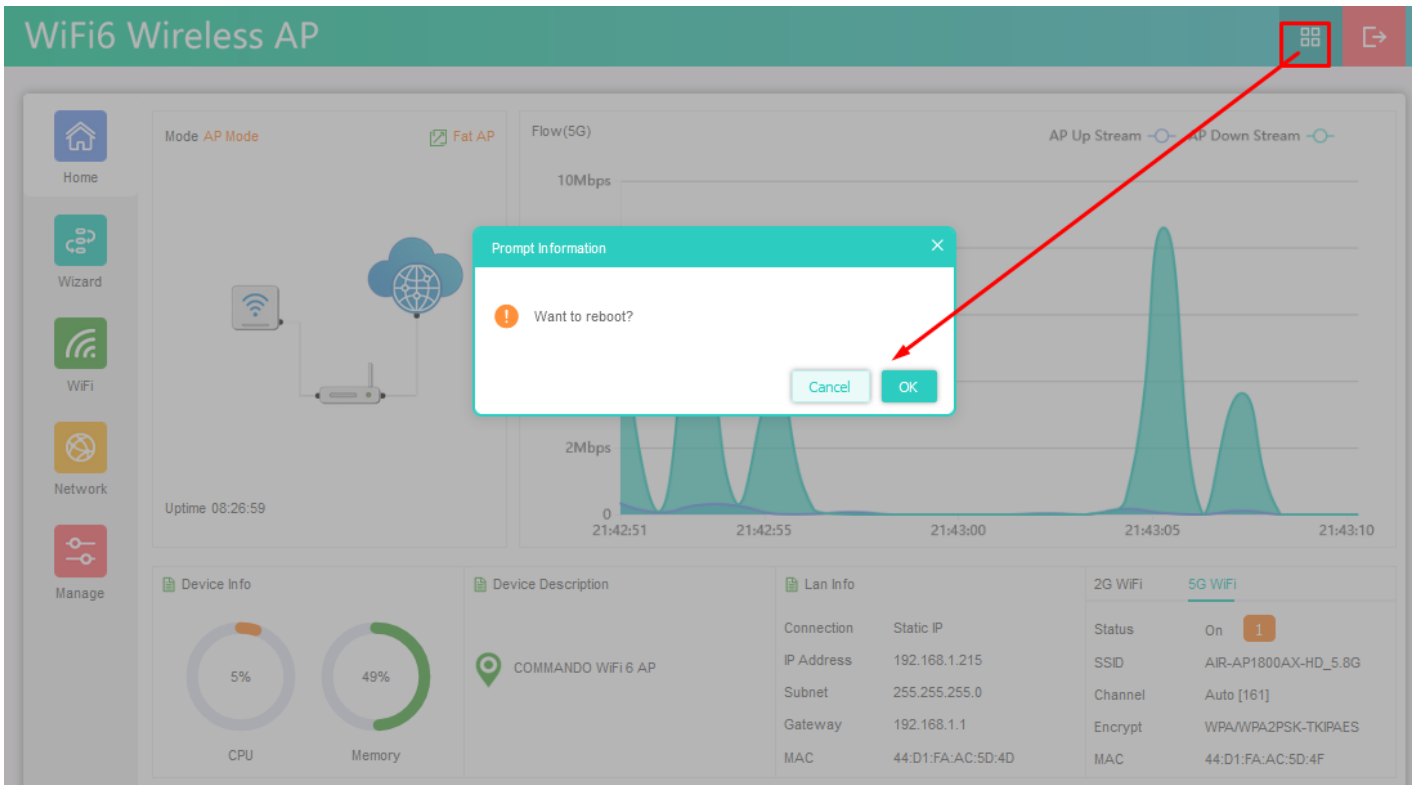


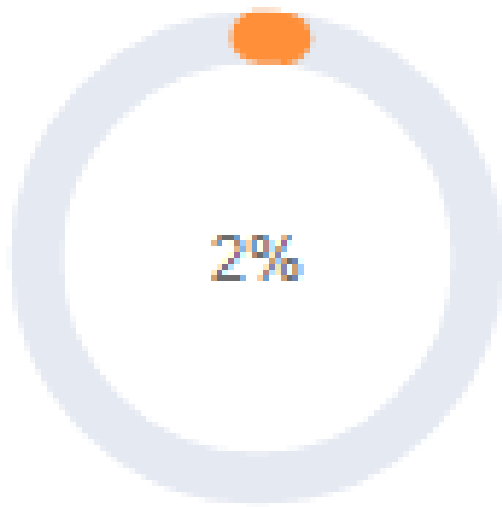
Fig 1.6 Reboot of AirONE AP1800AX-HD

Note: AirONE AP1800AX-HD will reboot after clicking OK.

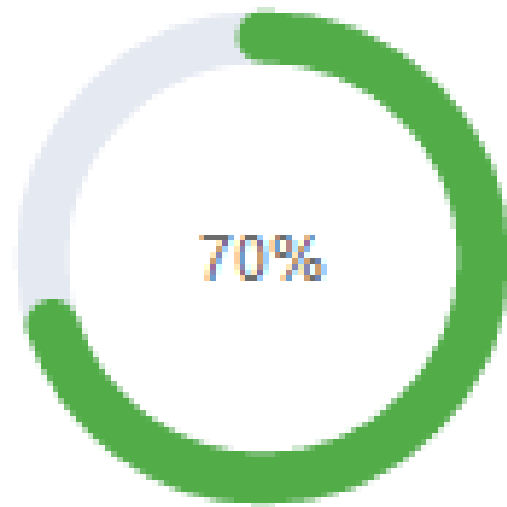
1.1 Device Information

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

Device Info



CPU



Memory

Fig 1.1.1 Home page Components of AirONE AP1800AX-HD

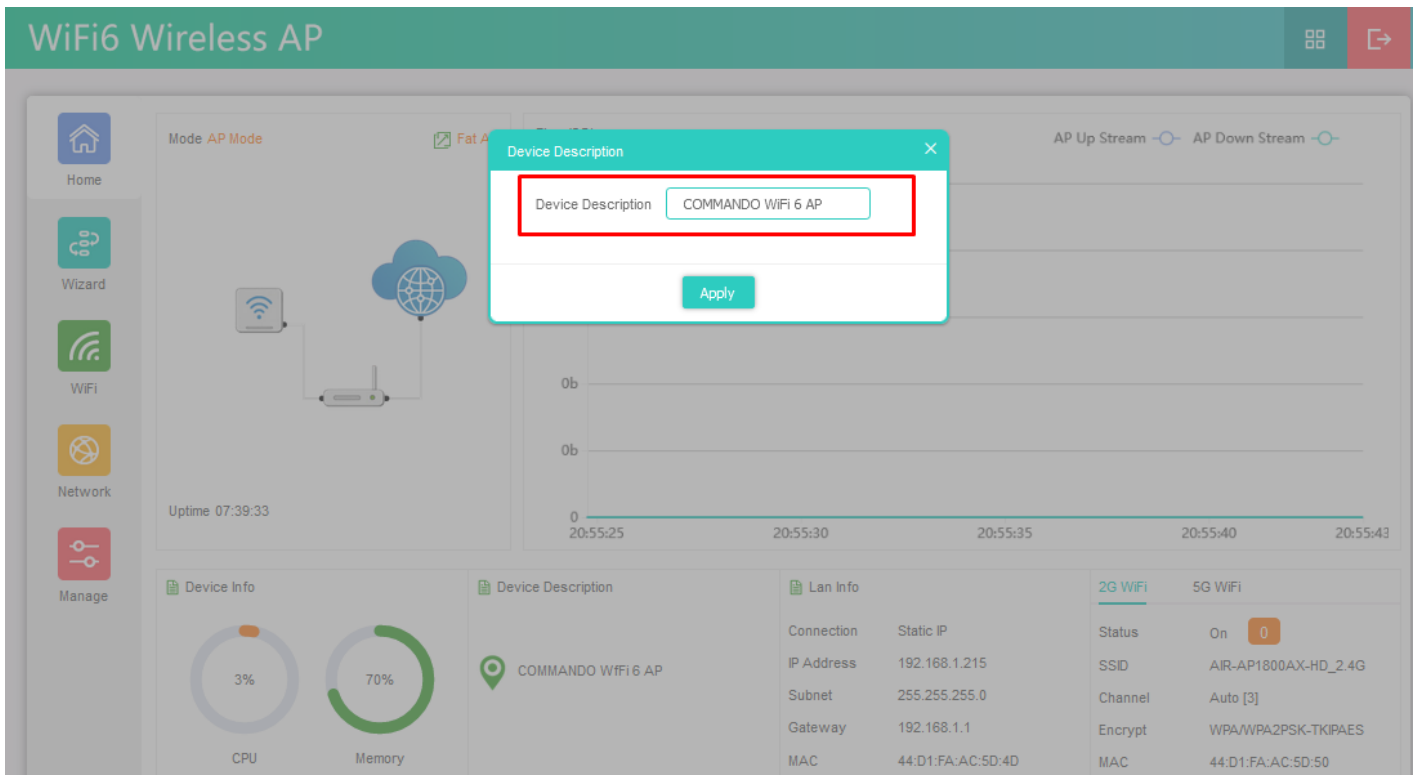
Device Description



Positon Settings

Fig 1.1.2 Device Description of AirONE AP1800AX-HD

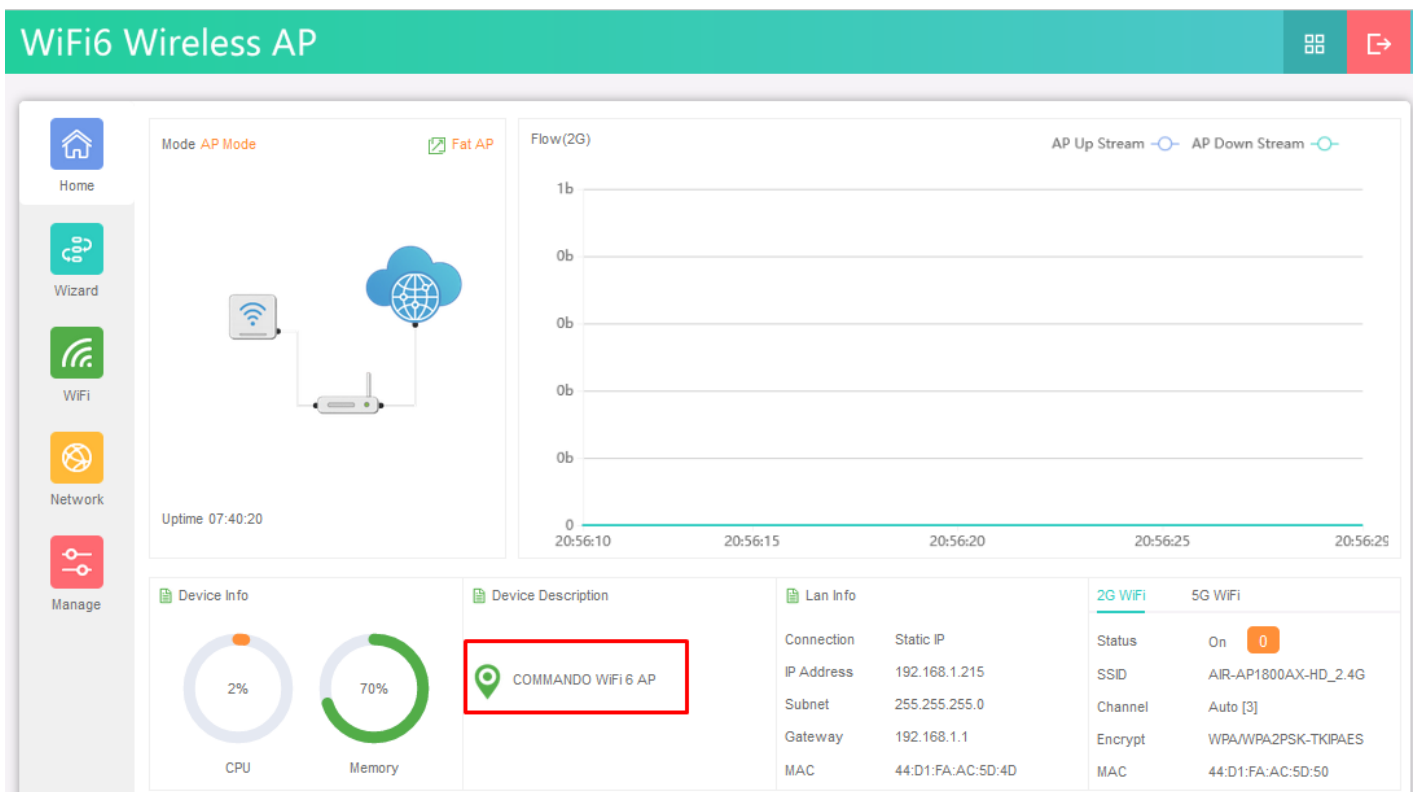
In Device Description you can add the APs description by clicking on Click Settings



The screenshot displays the 'WiFi6 Wireless AP' management interface. A 'Device Description' dialog box is open, showing a text input field containing 'COMMANDO WIFI 6 AP' and an 'Apply' button. The background interface includes a sidebar with navigation options (Home, Wizard, WiFi, Network, Manage), a main dashboard with a network diagram, a flow graph, and a table of device information.

Lan Info		2G WiFi	5G WiFi
Connection	Static IP	Status	On 0
IP Address	192.168.1.215	SSID	AIR-AP1800AX-HD_2.4G
Subnet	255.255.255.0	Channel	Auto [3]
Gateway	192.168.1.1	Encrypt	WPA/WPA2PSK-TKIP/AES
MAC	44:D1:FA:AC:5D:4D	MAC	44:D1:FA:AC:5D:50

Fig 1.1.3 Changing Device Description of AirONE AP1800AX-HD



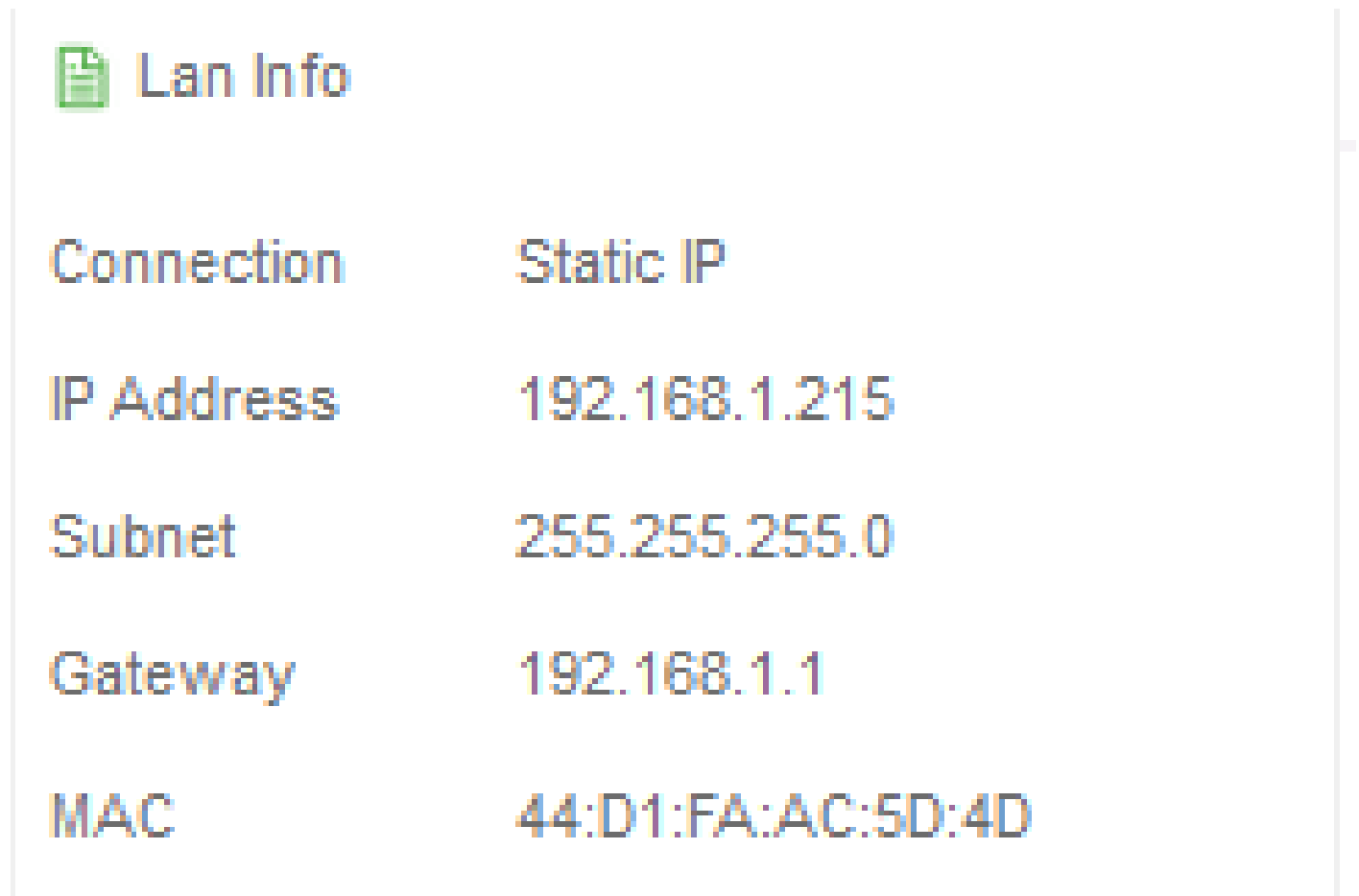
The screenshot displays the 'WiFi6 Wireless AP' management interface. The 'Device Description' field in the 'Device Description' section is highlighted with a red box, showing 'COMMANDO WIFI 6 AP'. The background interface includes a sidebar with navigation options (Home, Wizard, WiFi, Network, Manage), a main dashboard with a network diagram, a flow graph, and a table of device information.

Lan Info		2G WiFi	5G WiFi
Connection	Static IP	Status	On 0
IP Address	192.168.1.215	SSID	AIR-AP1800AX-HD_2.4G
Subnet	255.255.255.0	Channel	Auto [3]
Gateway	192.168.1.1	Encrypt	WPA/WPA2PSK-TKIP/AES
MAC	44:D1:FA:AC:5D:4D	MAC	44:D1:FA:AC:5D:50

Fig 1.1.4 New Device Description of AirONE AP1800AX-HD

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.

A screenshot of a network configuration interface showing LAN information. At the top left, there is a green document icon followed by the text 'Lan Info'. Below this, a table lists various network parameters and their values. The parameters are: Connection (Static IP), IP Address (192.168.1.215), Subnet (255.255.255.0), Gateway (192.168.1.1), and MAC (44:D1:FA:AC:5D:4D).

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-HD

Wan Info


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-H

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.


2G WiFi	5G WiFi
Status	On 
SSID	AIR-AP1800AX-HD_2.4G
Channel	Auto [3]
Encrypt	WPA/WPA2PSK-TKIP/AES
MAC	44:D1:FA:AC:5D:50

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

2G WiFi	5G WiFi
Status	On 
SSID	AIR-AP1800AX-HD_5.8G
Channel	Auto [161]
Encrypt	WPA/WPA2PSK-TKIPAES
MAC	44:D1:FA:AC:5D:4F

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

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.

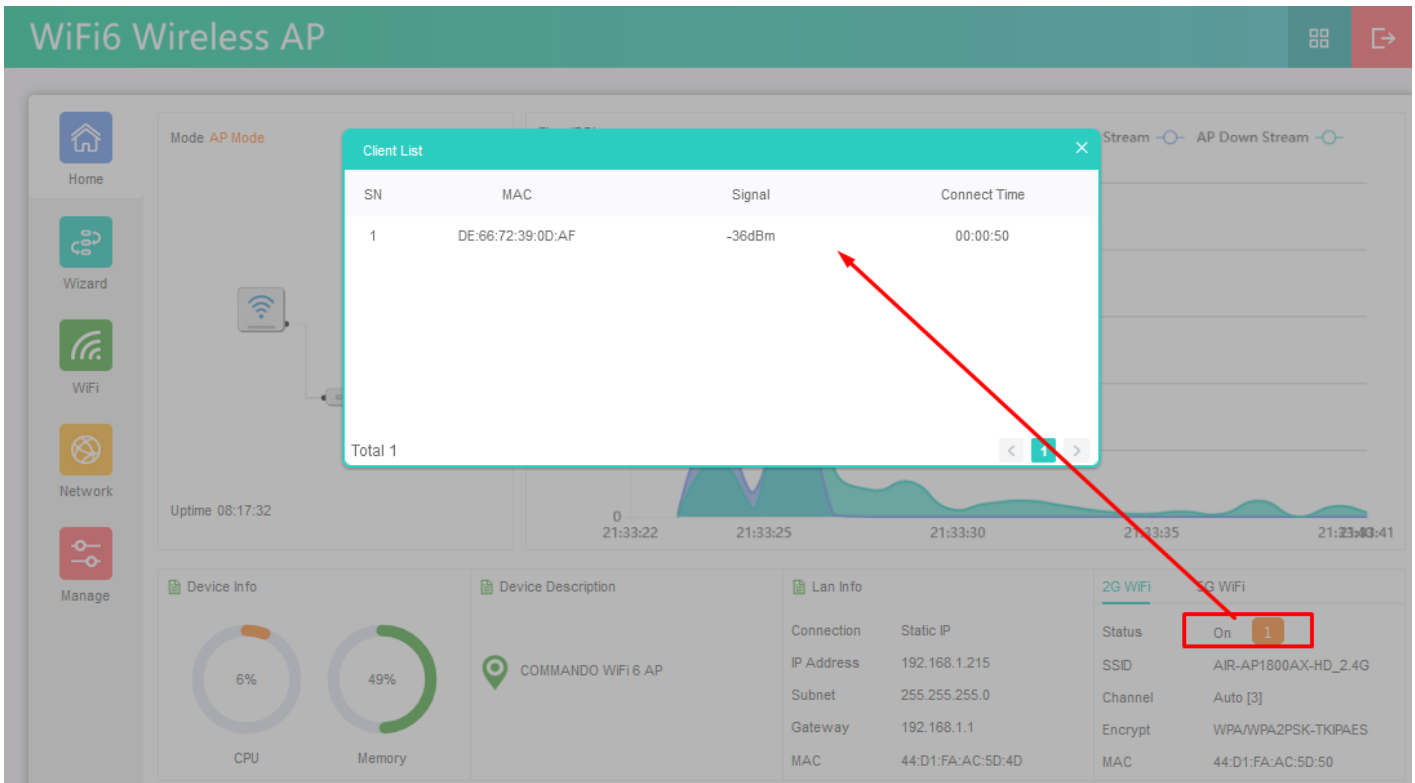


Fig 1.4.1 Clients list of 2G Wi-Fi AirONE AP1800AX-HD

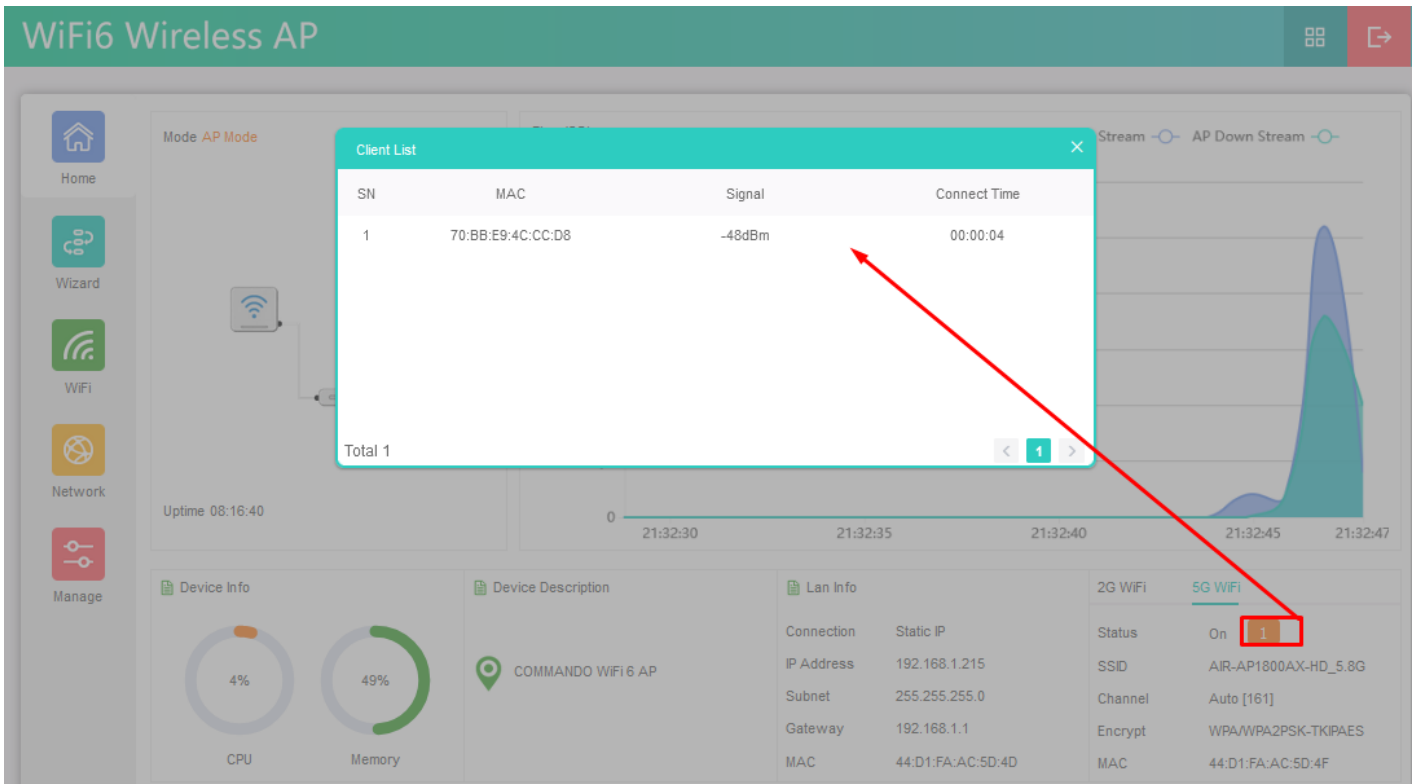


Fig 1.4.2 Clients list of 5G Wi-Fi AirONE AP1800AX-HD

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.

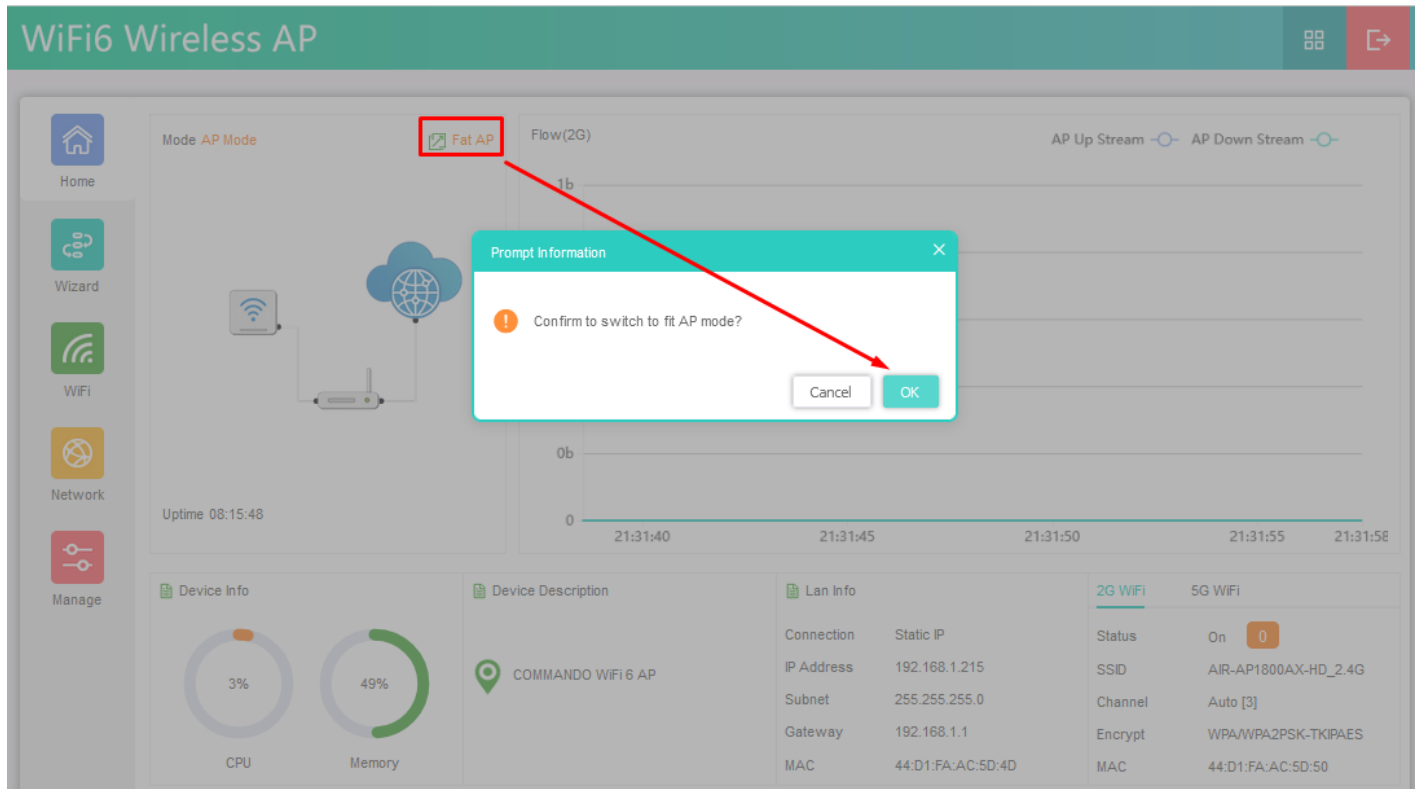


Fig 1.5.1 Fat AP mode of AirONE AP1800AX-HD

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.

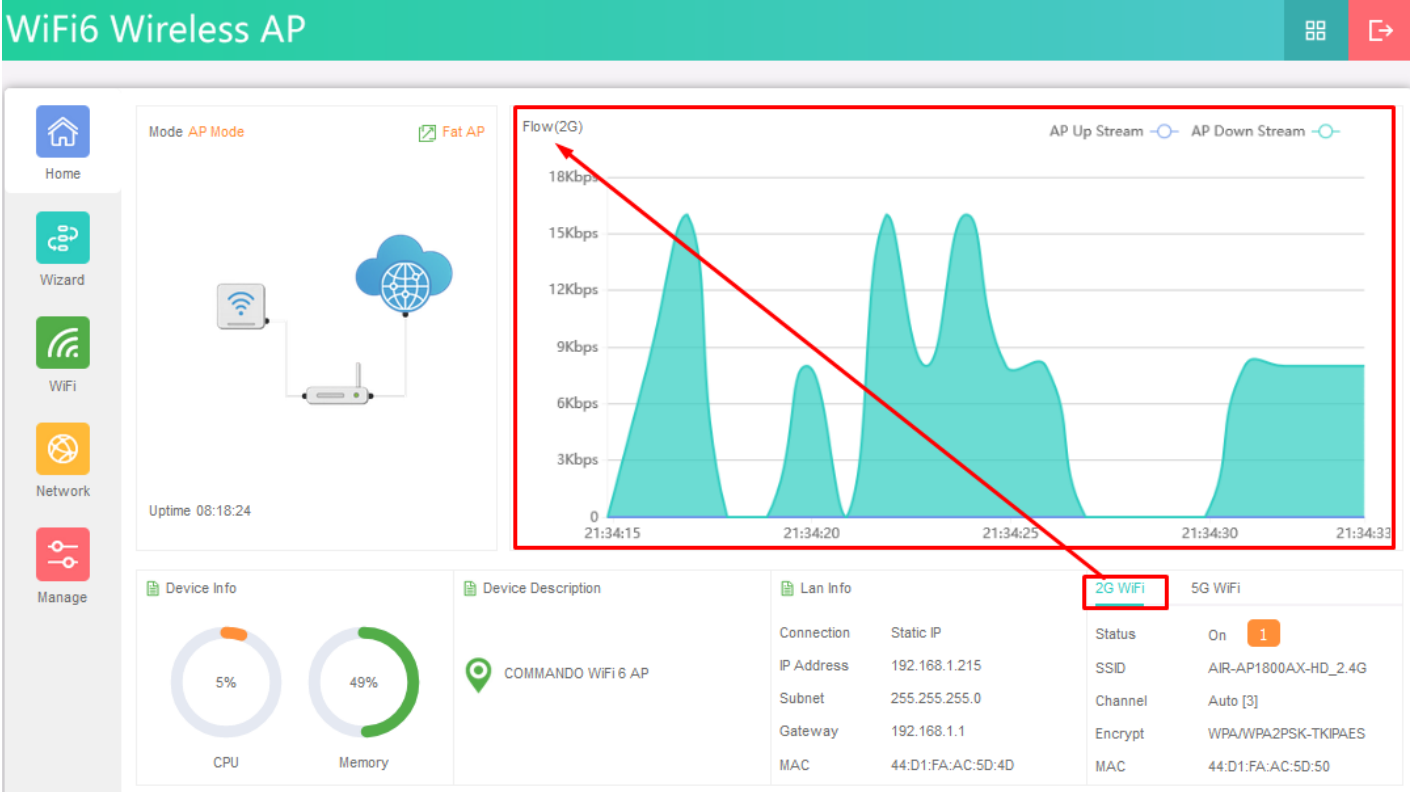


Fig 1.6.1 Flow (2G Wi-Fi) bps of AirONE AP1800AX-HD

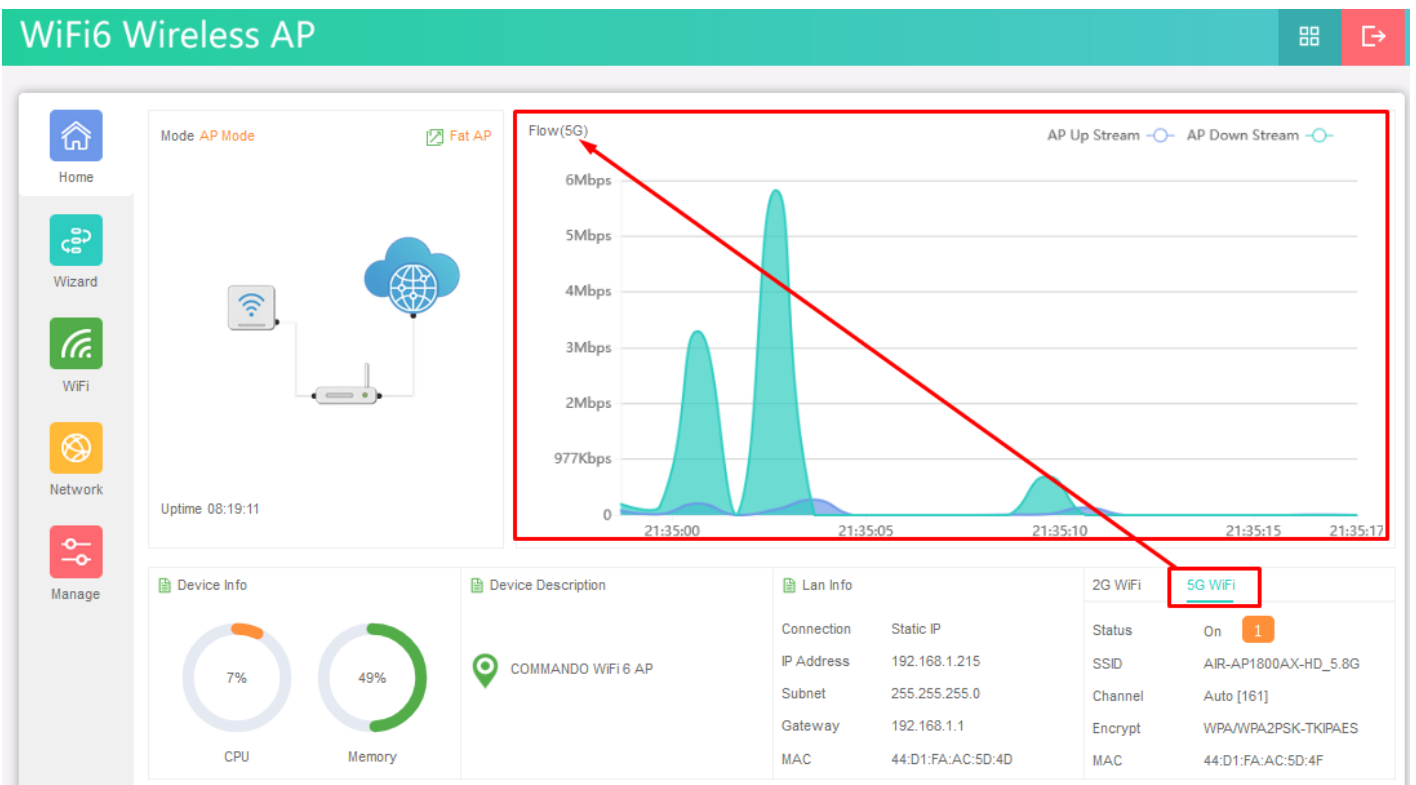


Fig 1.6.2 Flow (5G Wi-Fi) bps of AirONE AP1800AX-HD

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-HD. 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.

The screenshot shows the configuration interface for the AirONE AP1800AX-HD. On the left is a vertical sidebar with icons for Home, Wizard, WiFi, Network, and Manage. The main content area features two mode selection buttons: 'Gateway Mode' (a green square with a router and globe icon) and 'AP Mode' (an orange square with a router and Wi-Fi icon). The 'Gateway Mode' button is highlighted with a red border. Above the 'AP Mode' button is a 'Current Mode' dropdown menu. Below the mode selection is a diagram showing a computer and server connected to a router, which is connected to an internet cloud. To the right of the diagram is a text block explaining the Gateway Mode configuration.

Current Mode ▾

Gateway Mode

AP Mode

In this mode, the device is supposed to connect to internet via ADSL/Cable Modem. 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-HD

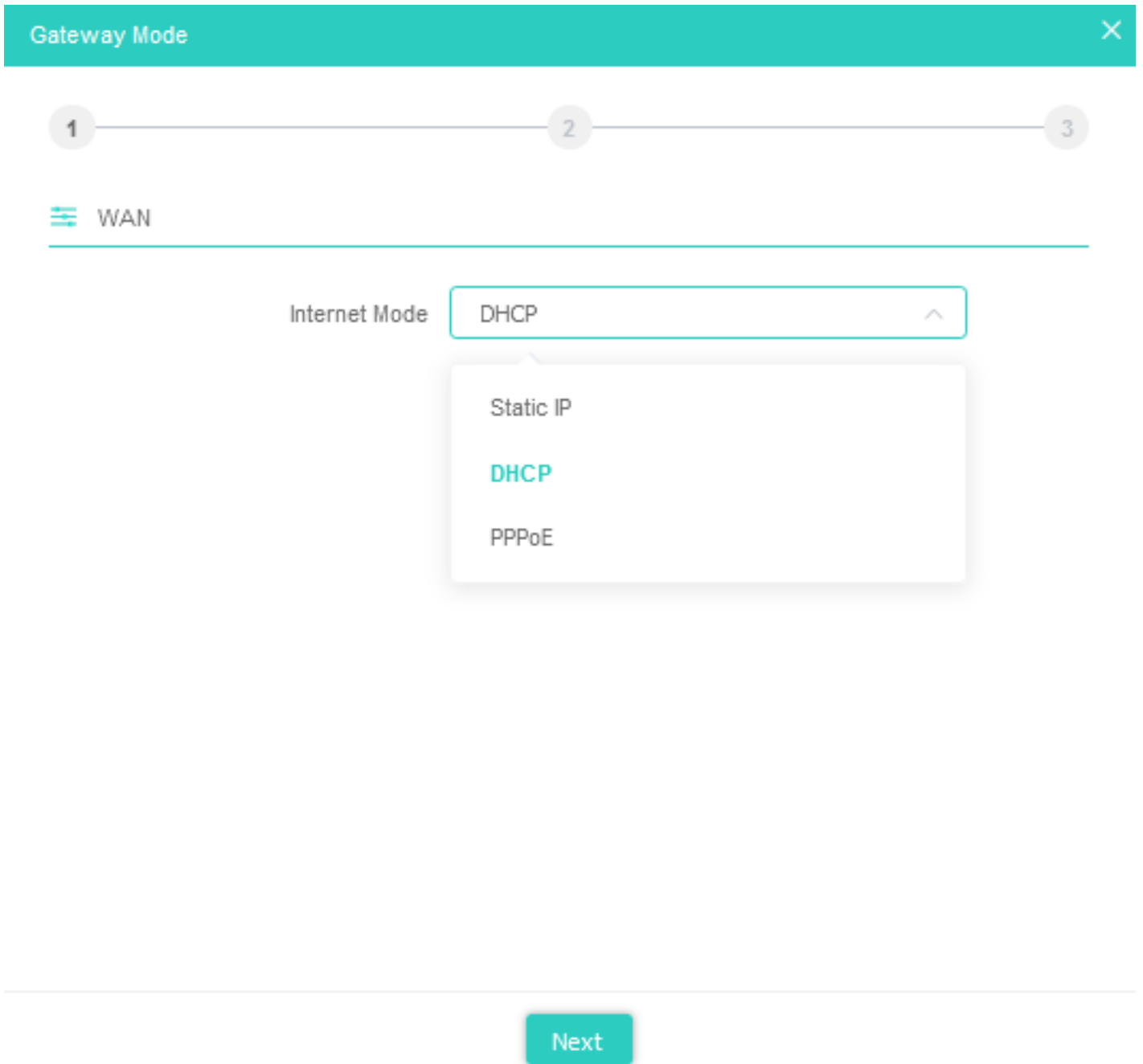


Fig 2.1.2 Gateway mode WAN Setting of AirONE AP1800AX-HD

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 ✕

1 2 3

☰ 2G WiFi

WiFi Status

SSID AIR-AP1800AX-HD_2.4G

Hide WiFi SSID?

Wireless Mode 11AXG_GHE40

Channel Auto

Encrypt WPA/WPA2PSK-TKIPAES

Password 66666666

Back Next

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

Gateway Mode ✕

✓ ———— ✓ ———— 3

☰ 5G WiFi

WiFi Status

SSID

Hide WiFi SSID?

Wireless Mode

Channel

Encrypt

Password

Timed Reboot

Restart Interval

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

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.

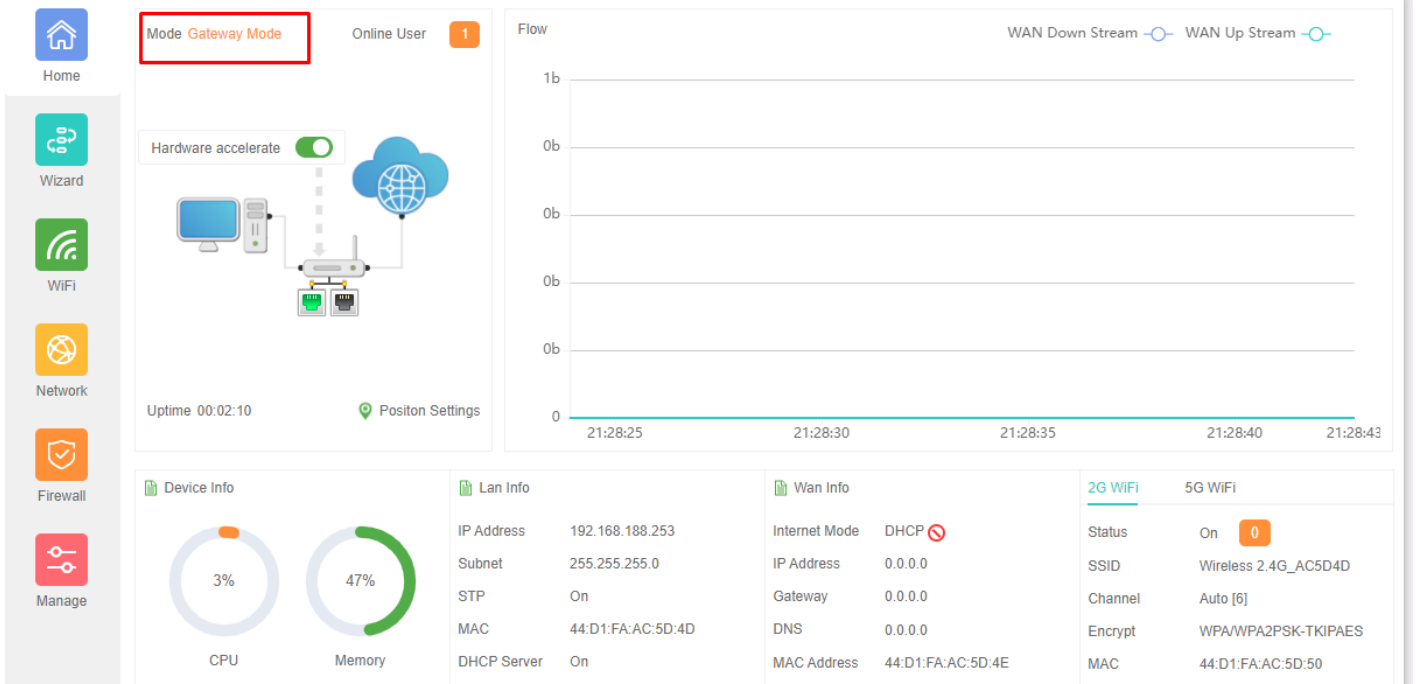


Fig 2.1.5 Gateway mode of AirONE AP1800AX-HD

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.

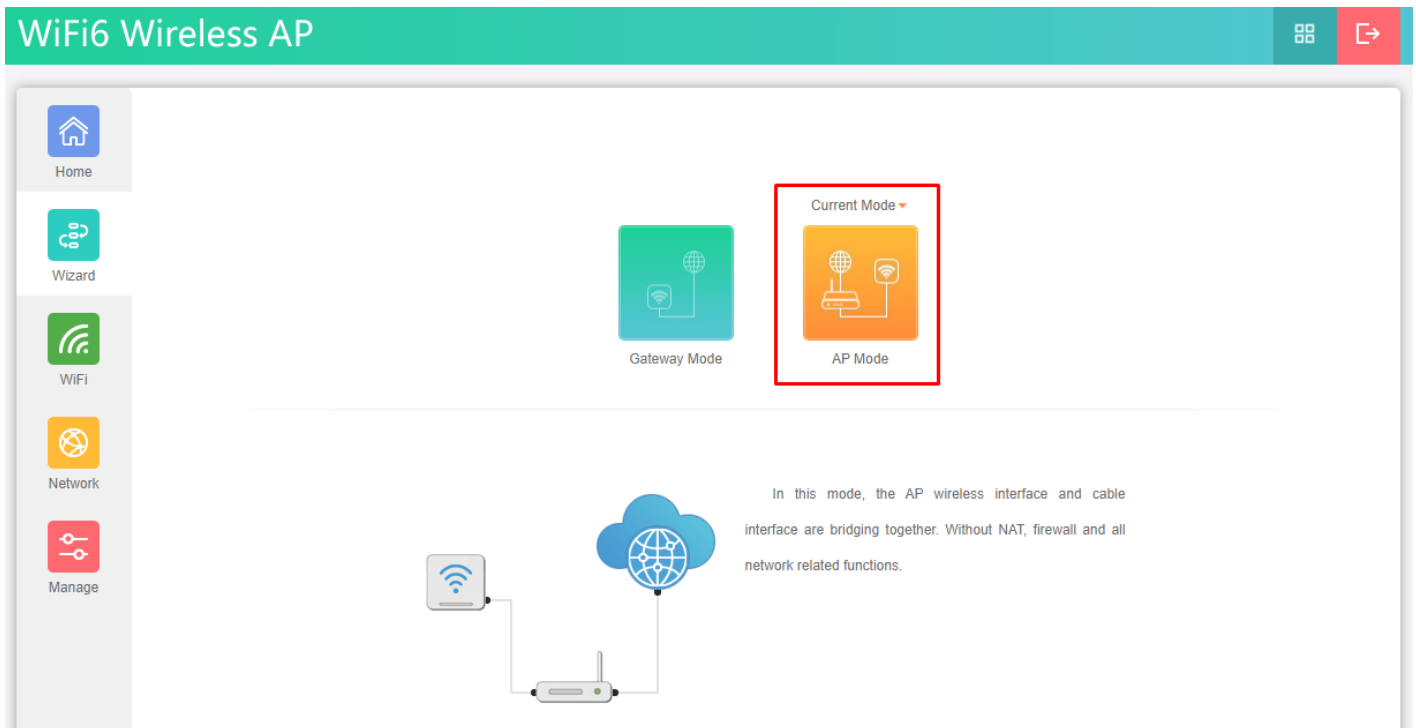


Fig 2.2.1 AP mode of AirONE AP1800AX-HD

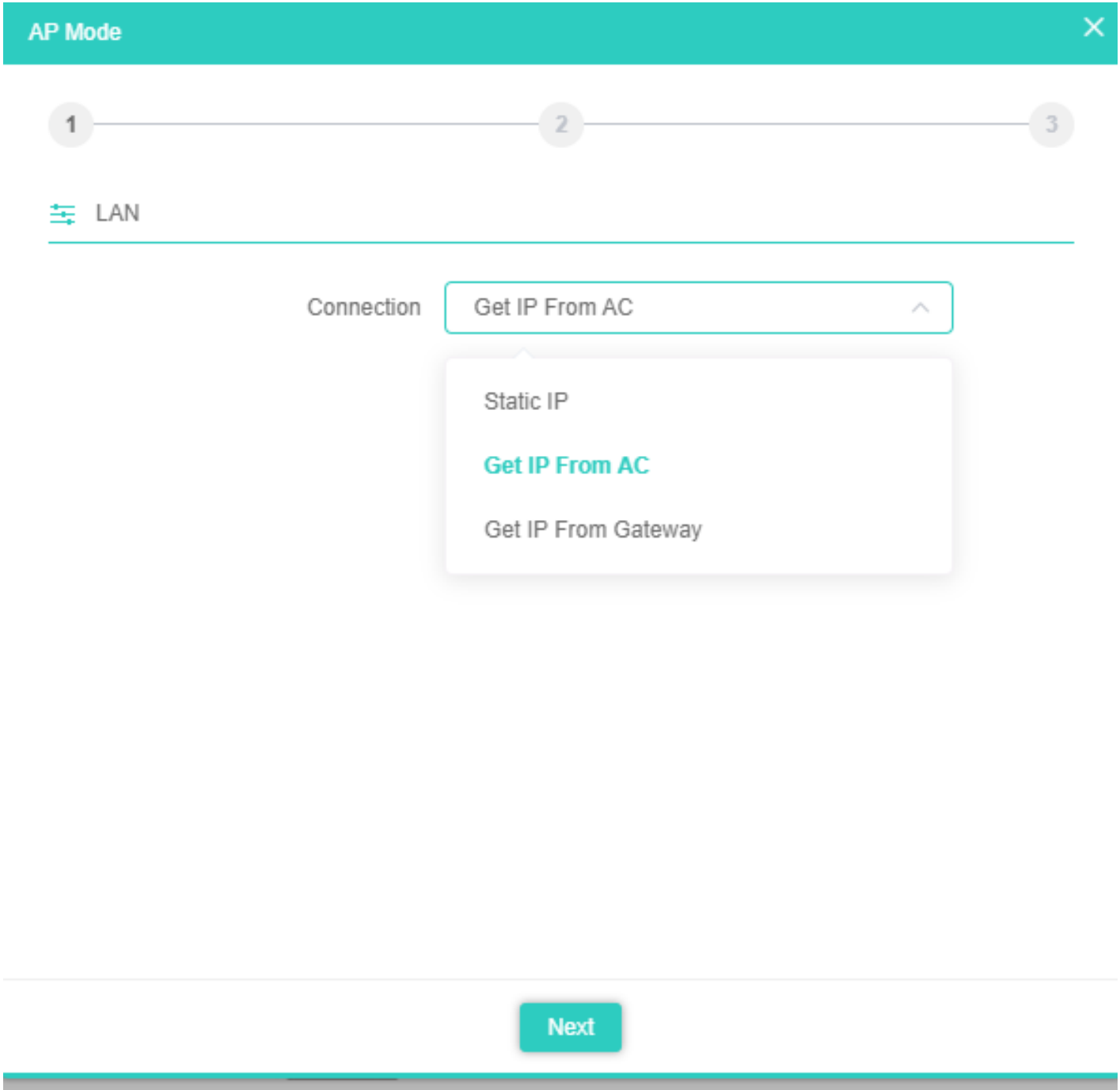


Fig 2.2.2 Setting IP mode of AirONE AP1800AX-HD

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 ×

1 2 3

☰ 2G WiFi

WiFi Status

SSID

Hide WiFi SSID?

Wireless Mode ▼


Channel ▼


Encrypt ▼

Password

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

AP Mode✕



 **5G WiFi**

WiFi Status

SSID

Hide WiFi SSID?

Wireless Mode

Channel

Encrypt

Password

Timed Reboot

Restart Interval

Back Next

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

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.

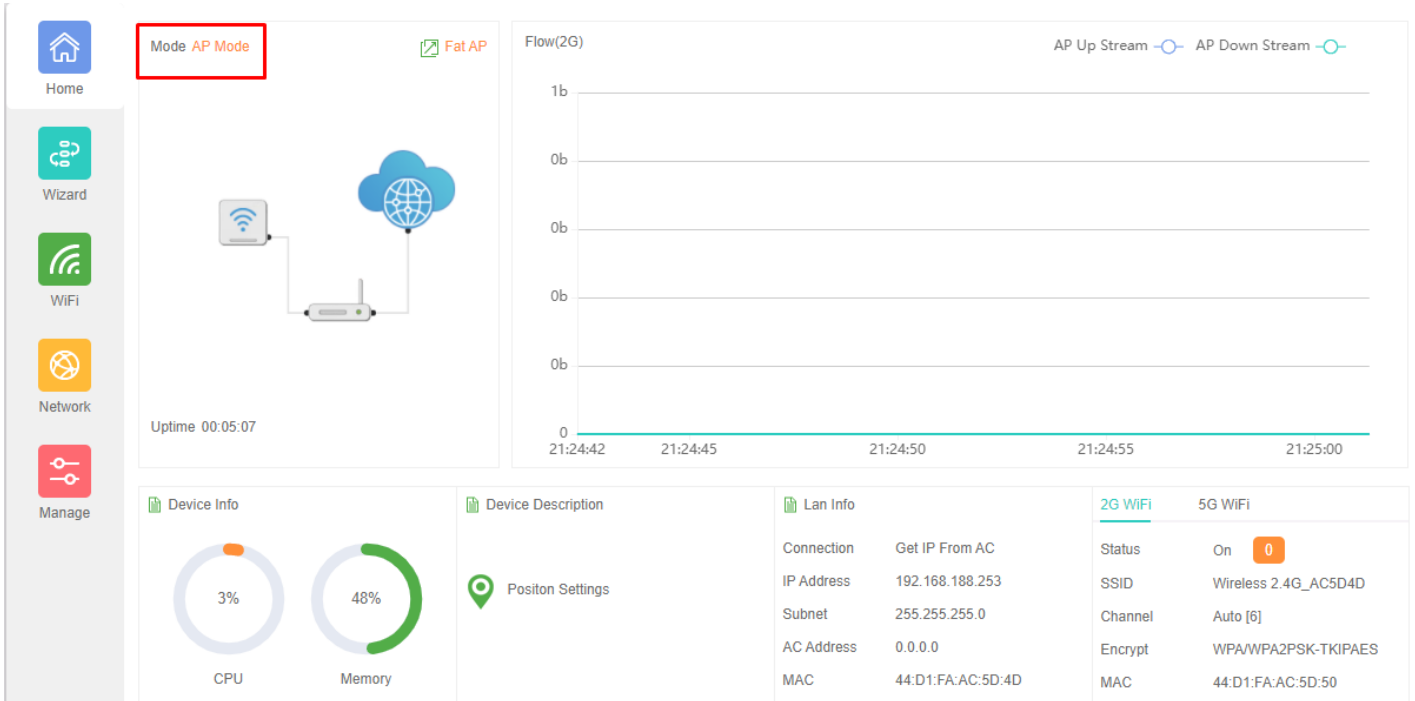


Fig 2.2.5 Home page after setting AP mode of AirONE AP1800AX-HD

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-HD_2.4G" and "AIR-AP1800AX-HD_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.

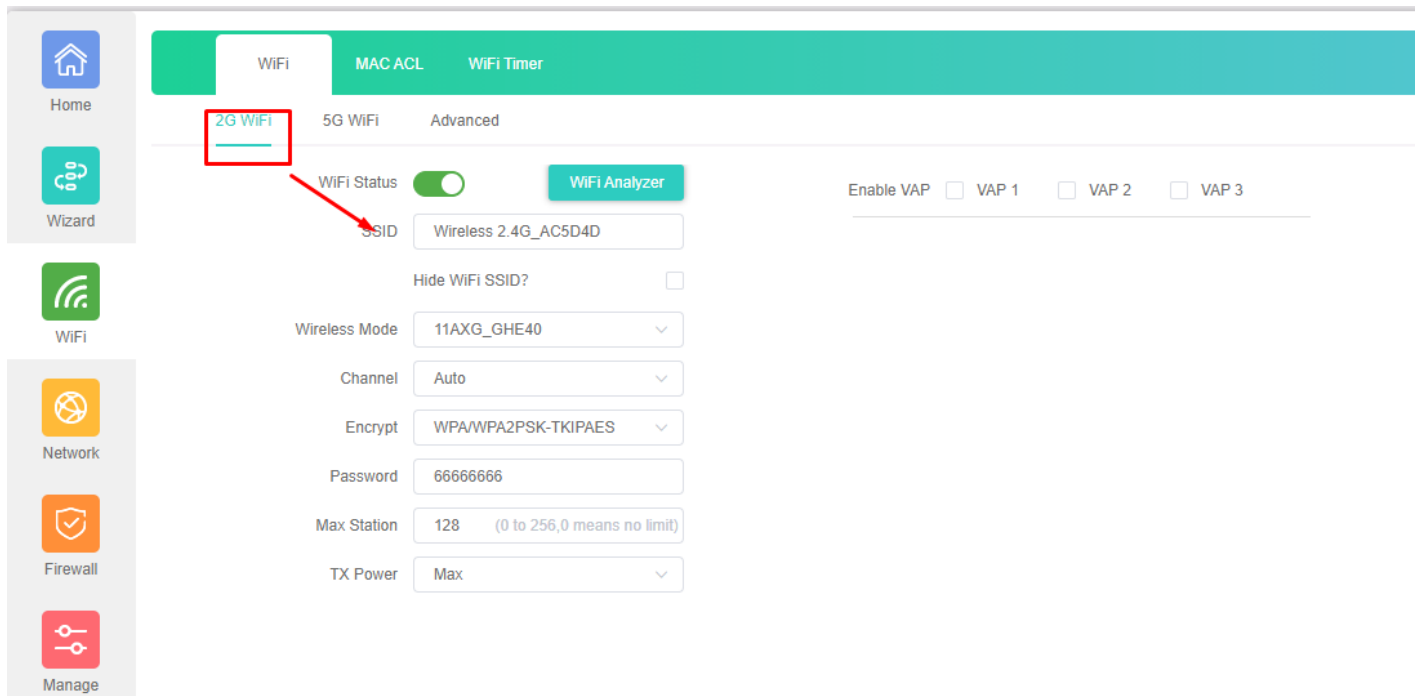


Fig 3.1.1 2G Wi-Fi enable and disable of Basic and VAP 1,2,3 of AirONE AP1800AX-HD

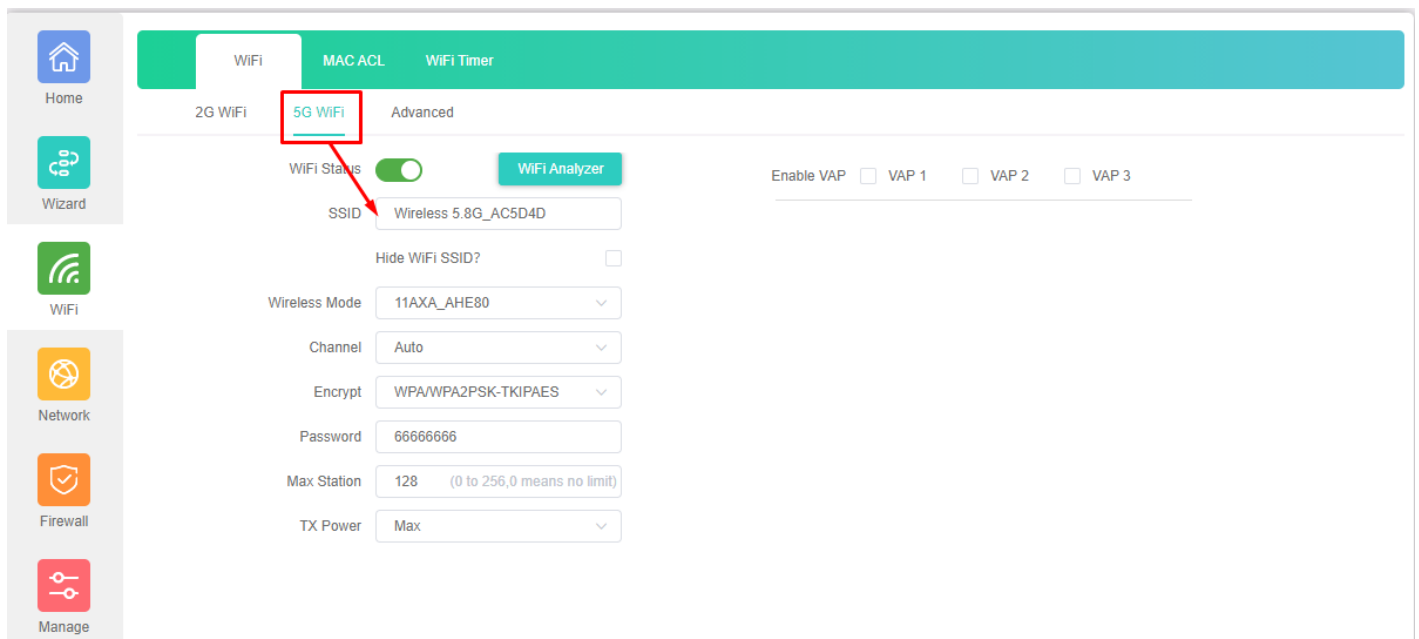


Fig 3.1.2 5G Wi-Fi enable of AirONE AP1800AX-HD

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.

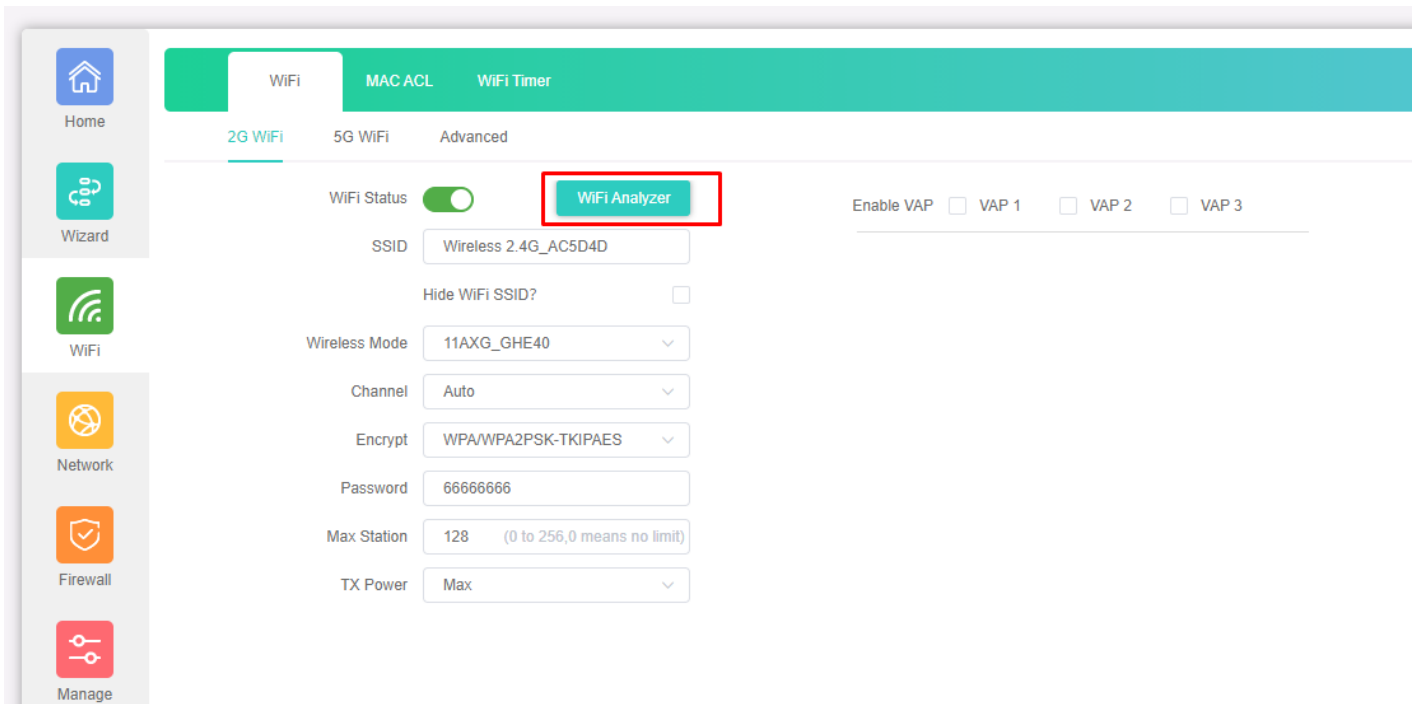


Fig 3.1.3 2G Wi-Fi Analyzer button of AirONE AP1800AX-HD

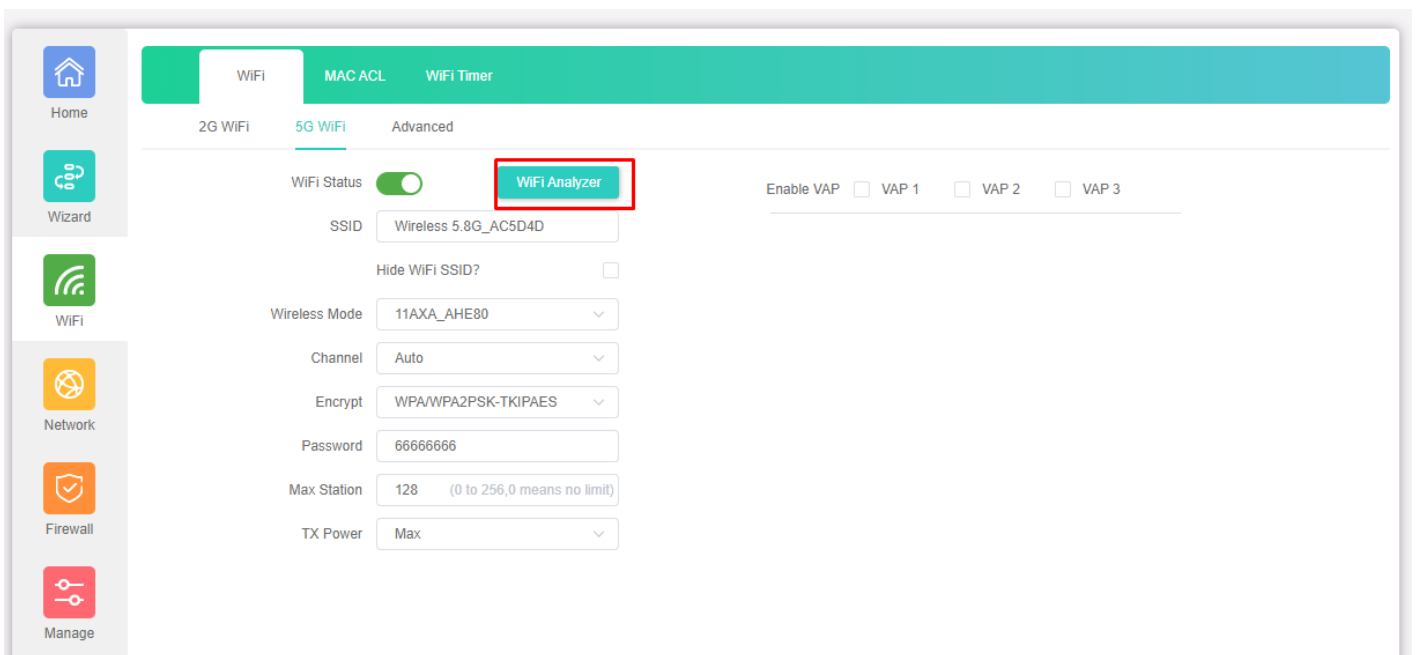


Fig 3.1.4 5G Wi-Fi Analyzer button of AirONE AP1800AX-HD

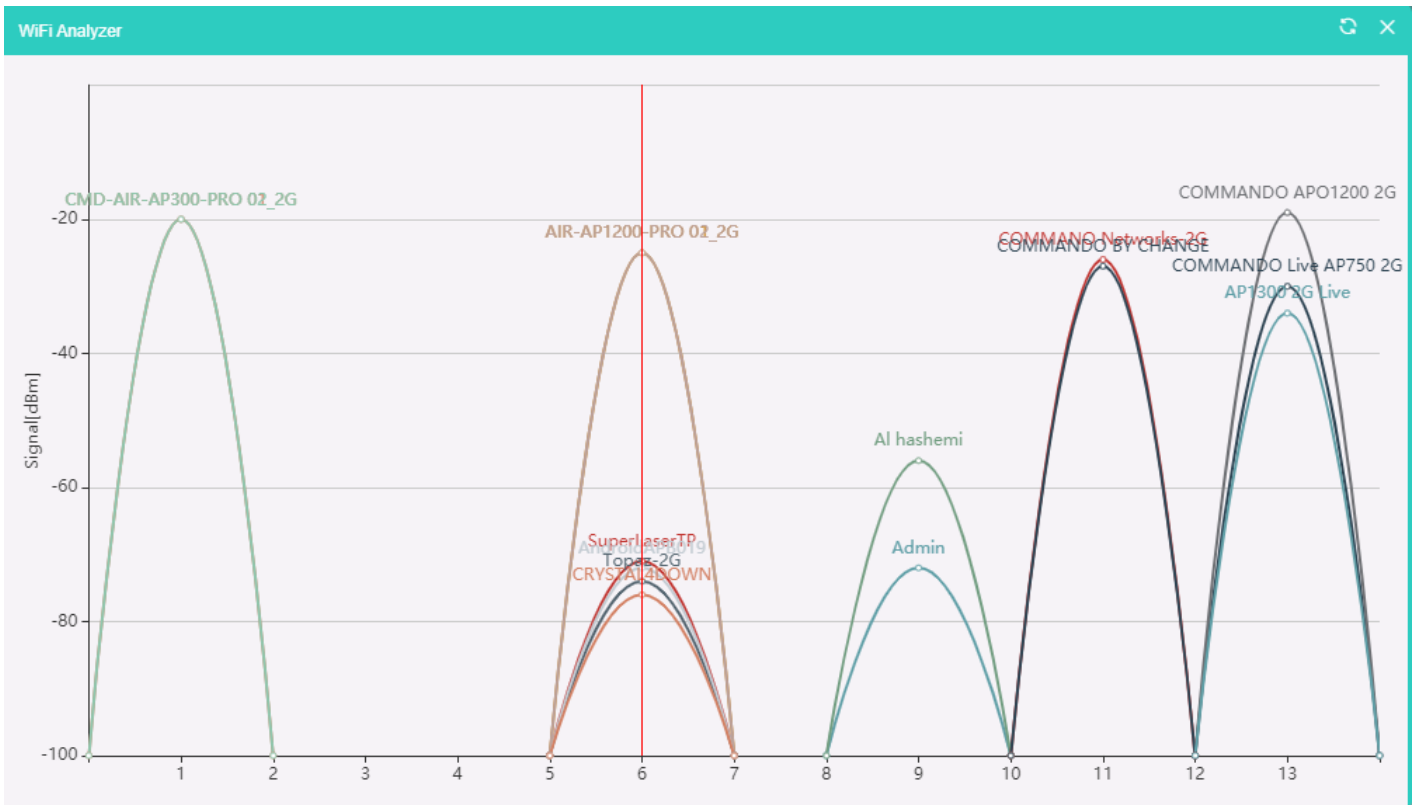


Fig 3.1.5 2G Wi-Fi Analyzer of AirONE AP1800AX-HD

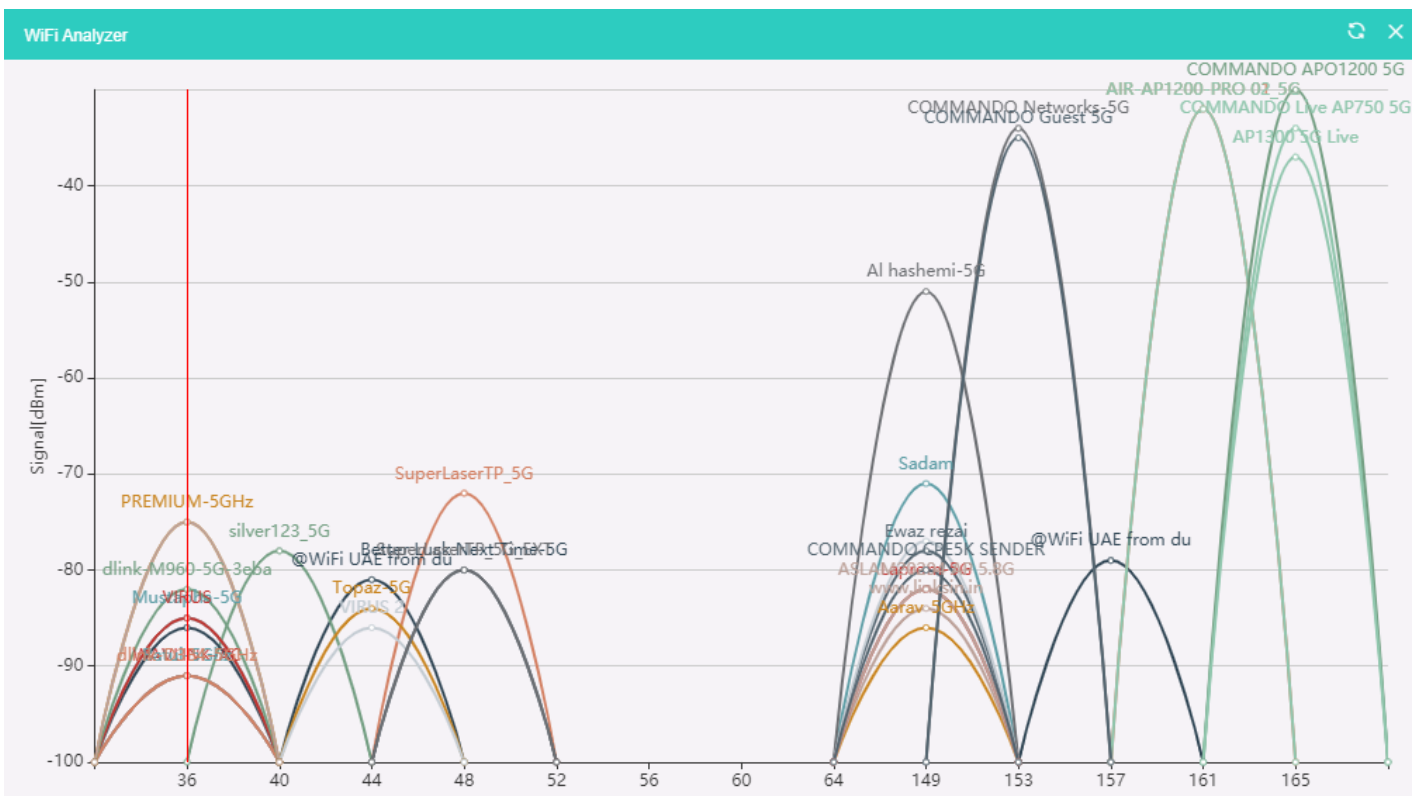


Fig 3.1.6 5G Wi-Fi Analyzer of AirONE AP1800AX-HD

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

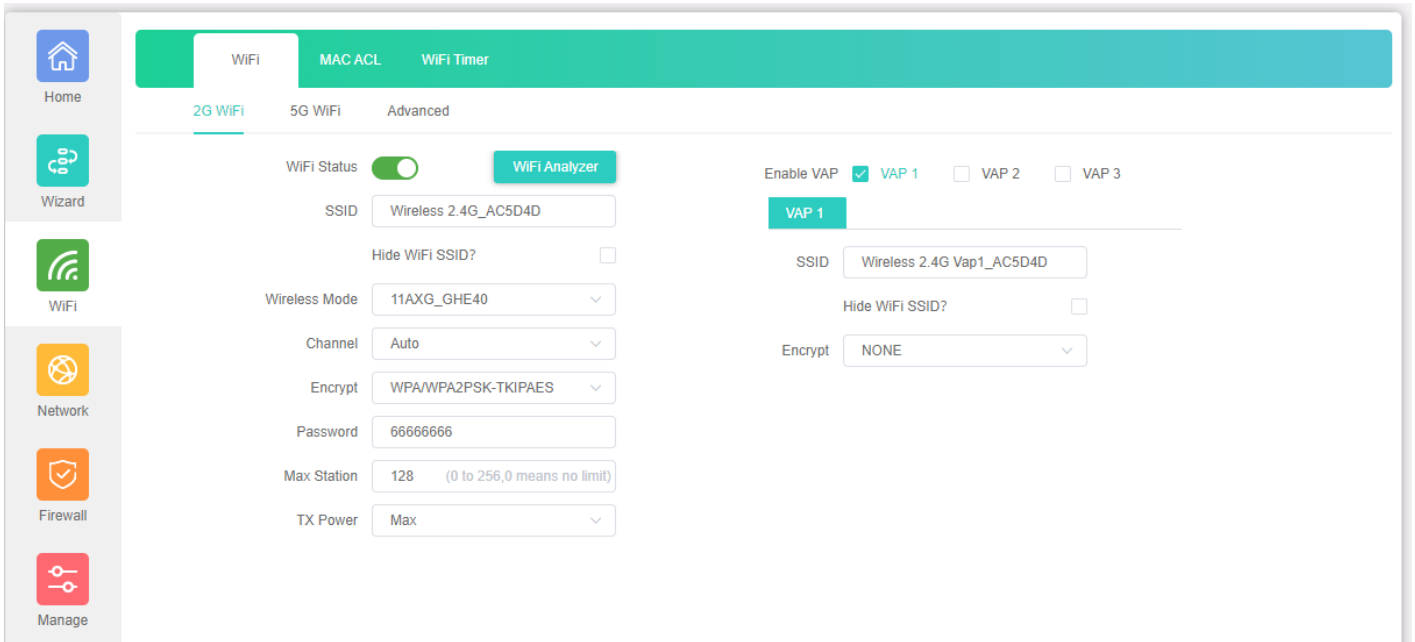


Fig 3.1.7 Enabling 2G VAP 1 of AirONE AP1800AX-HD

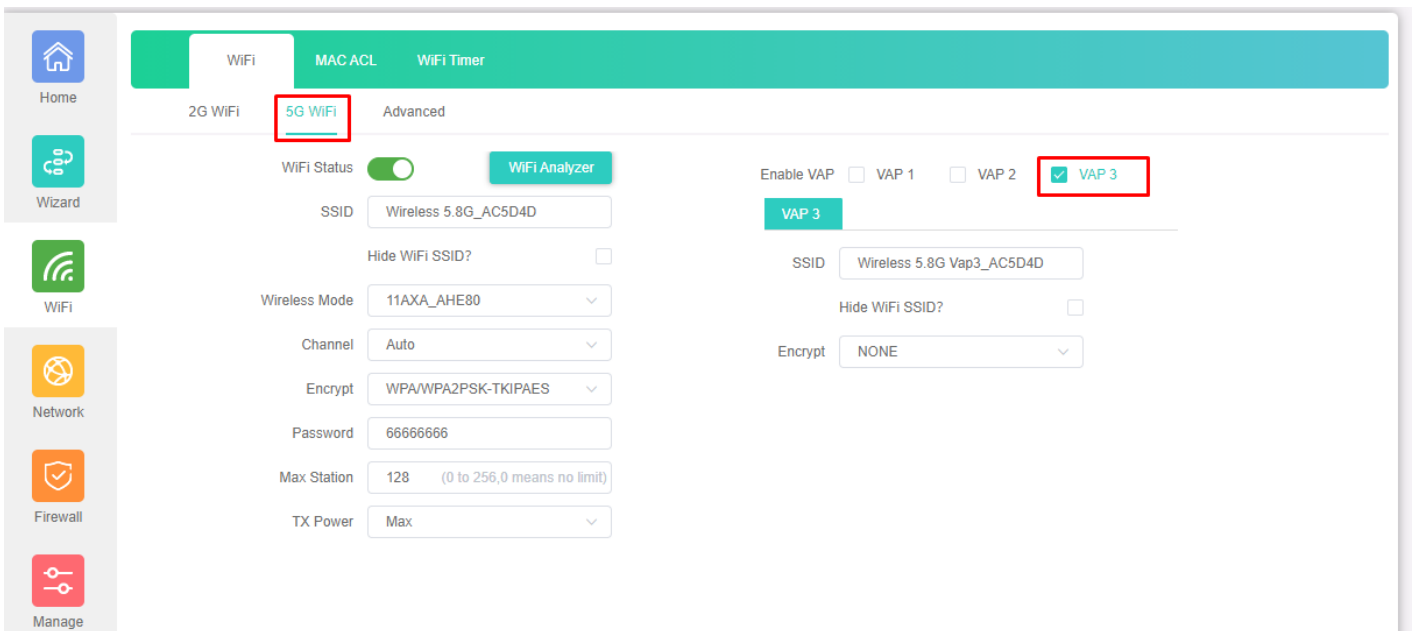


Fig 3.1.8 Enabling 5G VAP 3 of AirONE AP1800AX-HD

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-HD. 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.

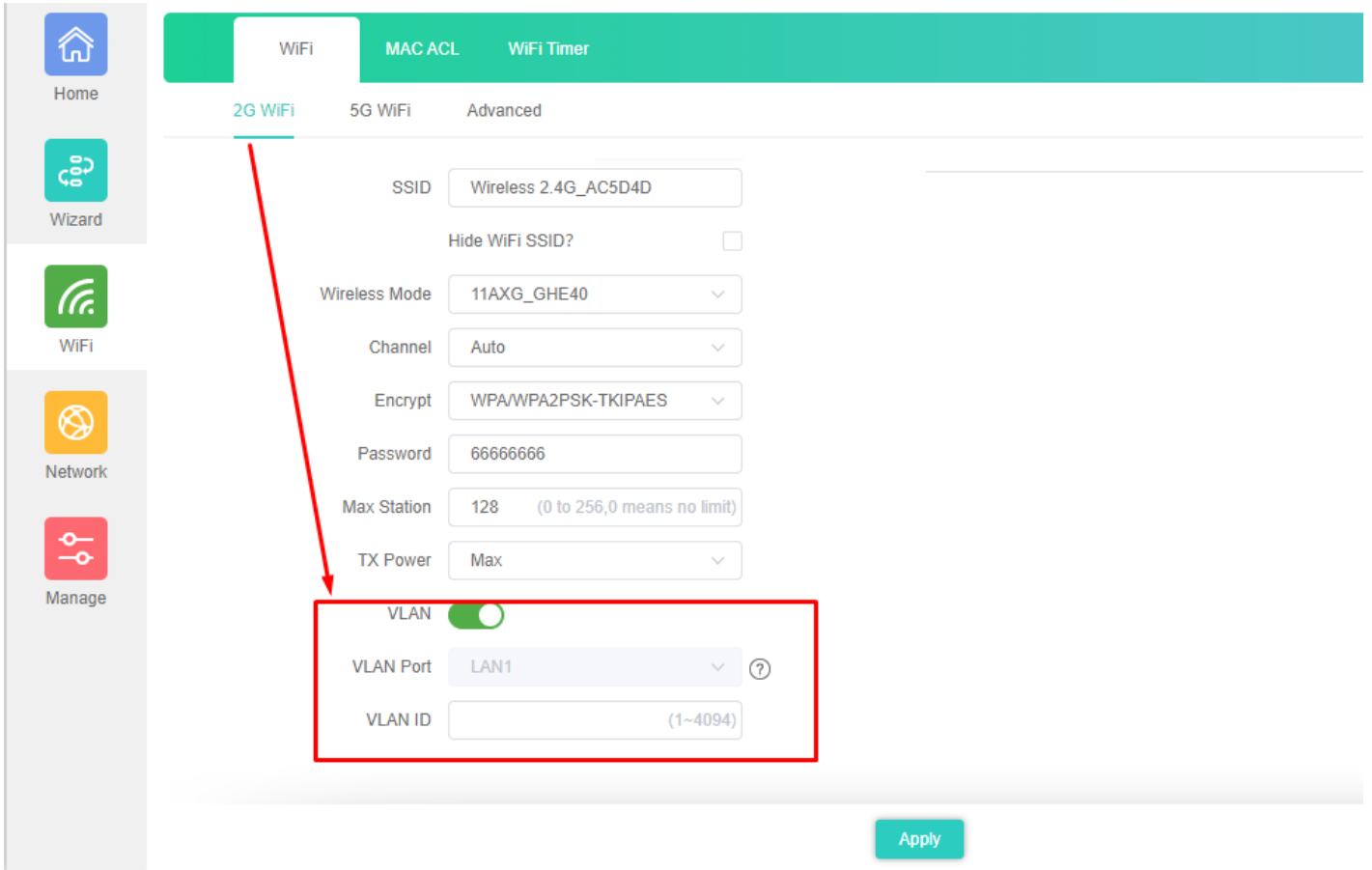


Fig 3.1.9 2G VLAN Management of of AirONE AP1800AX-HD

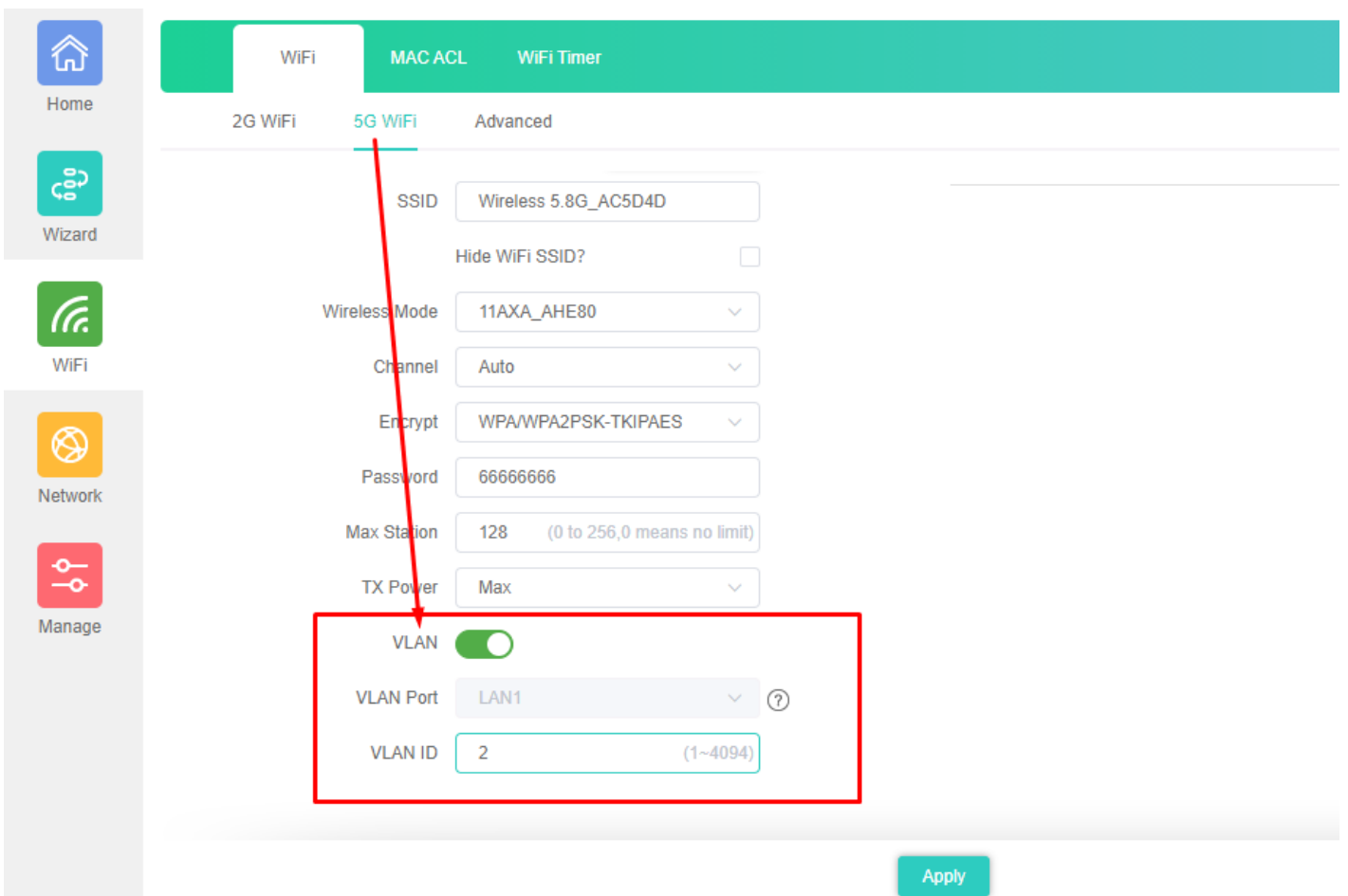


Fig 3.1.10 5G VLAN Management of of AirONE AP1800AX-HD

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.

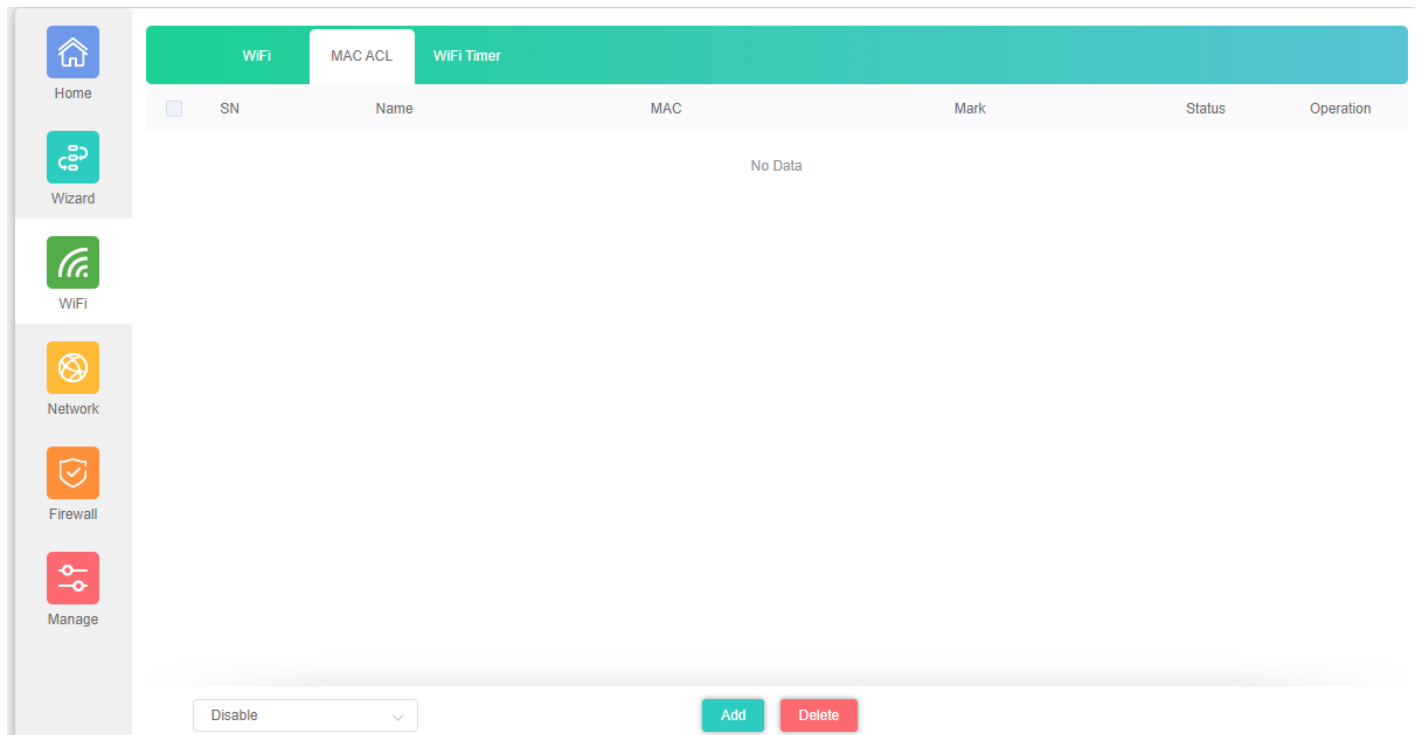


Fig 3.2.1 Default MAC ACL of AirONE AP1800AX-HD

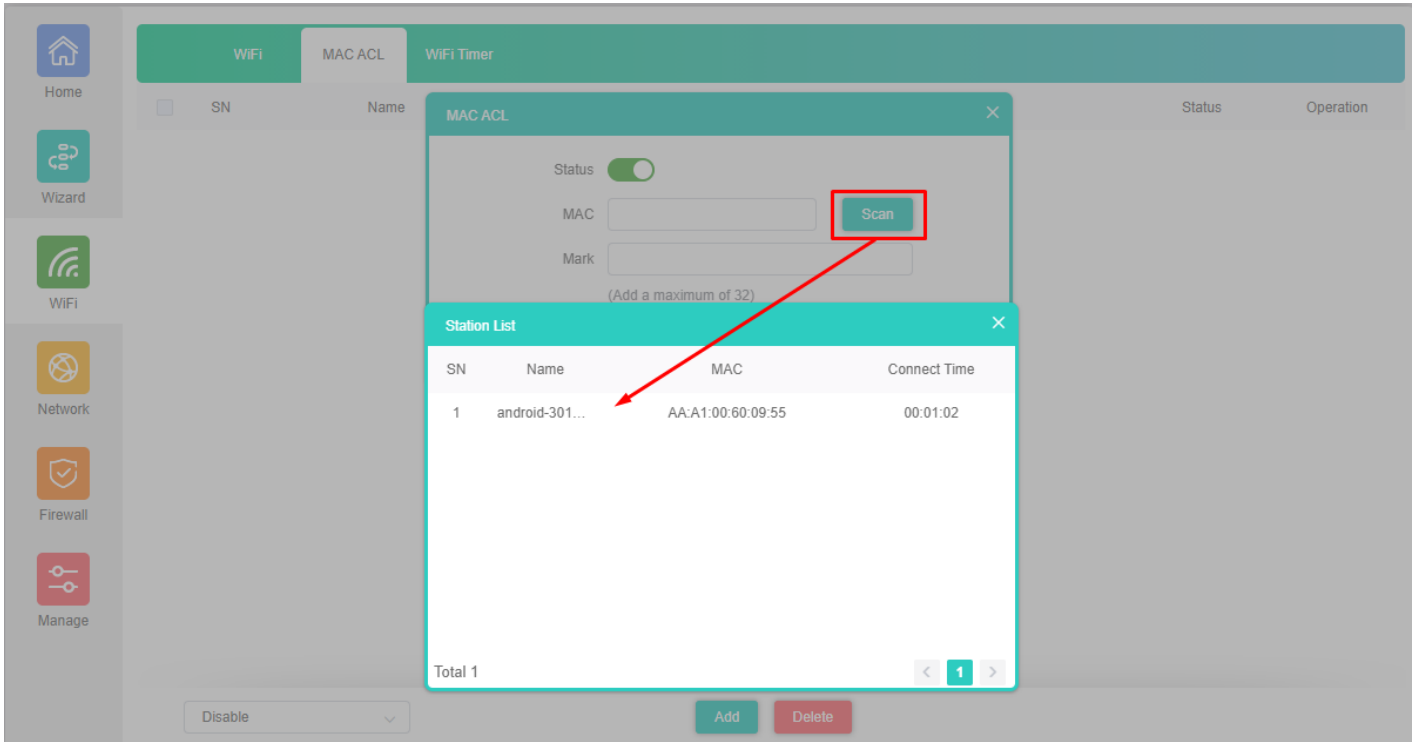


Fig 3.2.2 Add MAC ACL of AirONE AP1800AX-HD

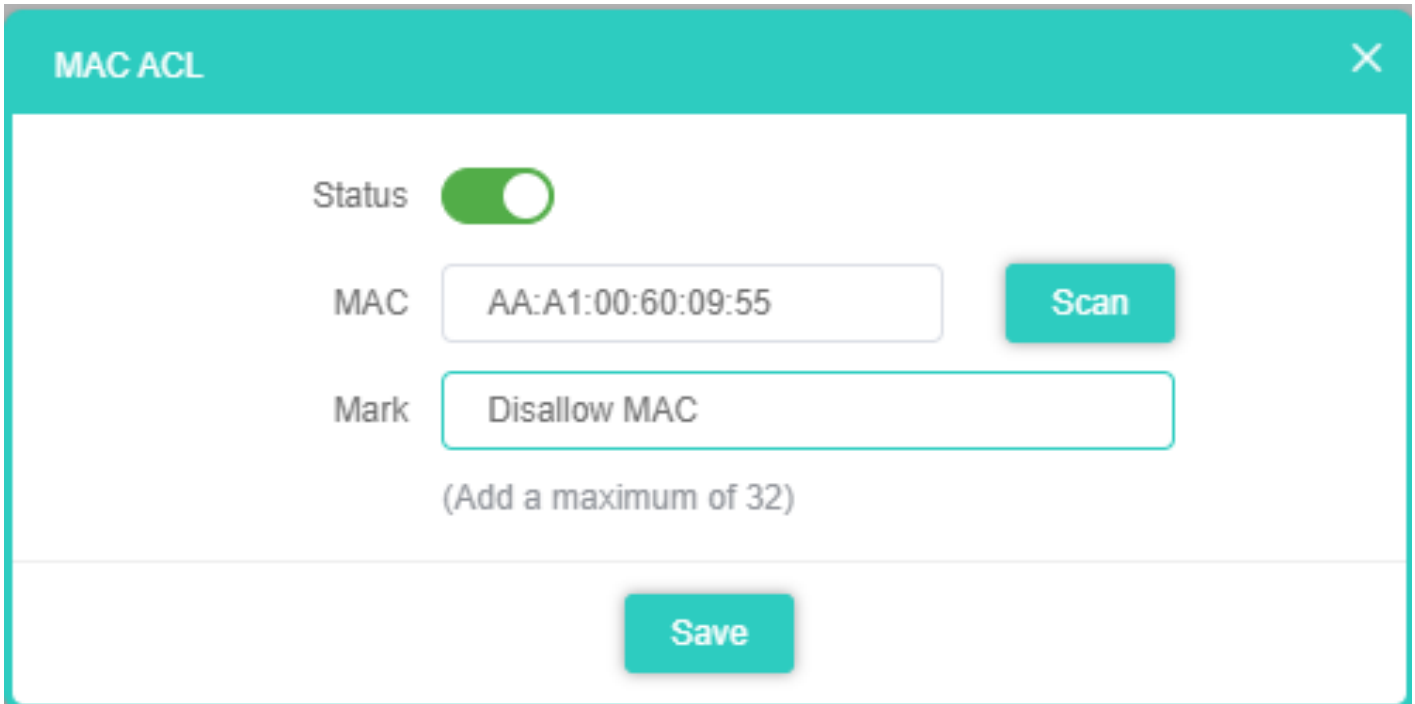


Fig 3.2.3 Select MAC address of AirONE AP1800AX-HD

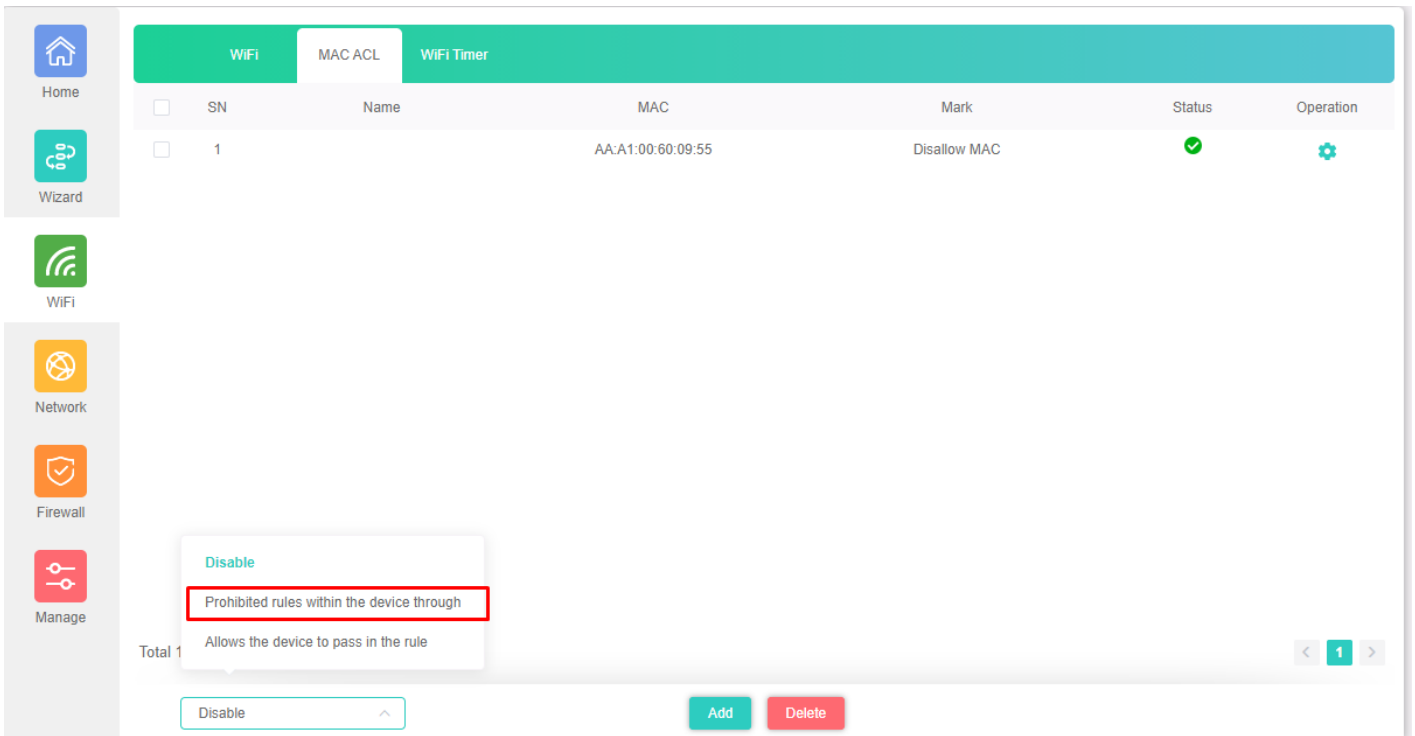


Fig 3.2.4 Apply MAC ACL for AirONE AP1800AX-HD

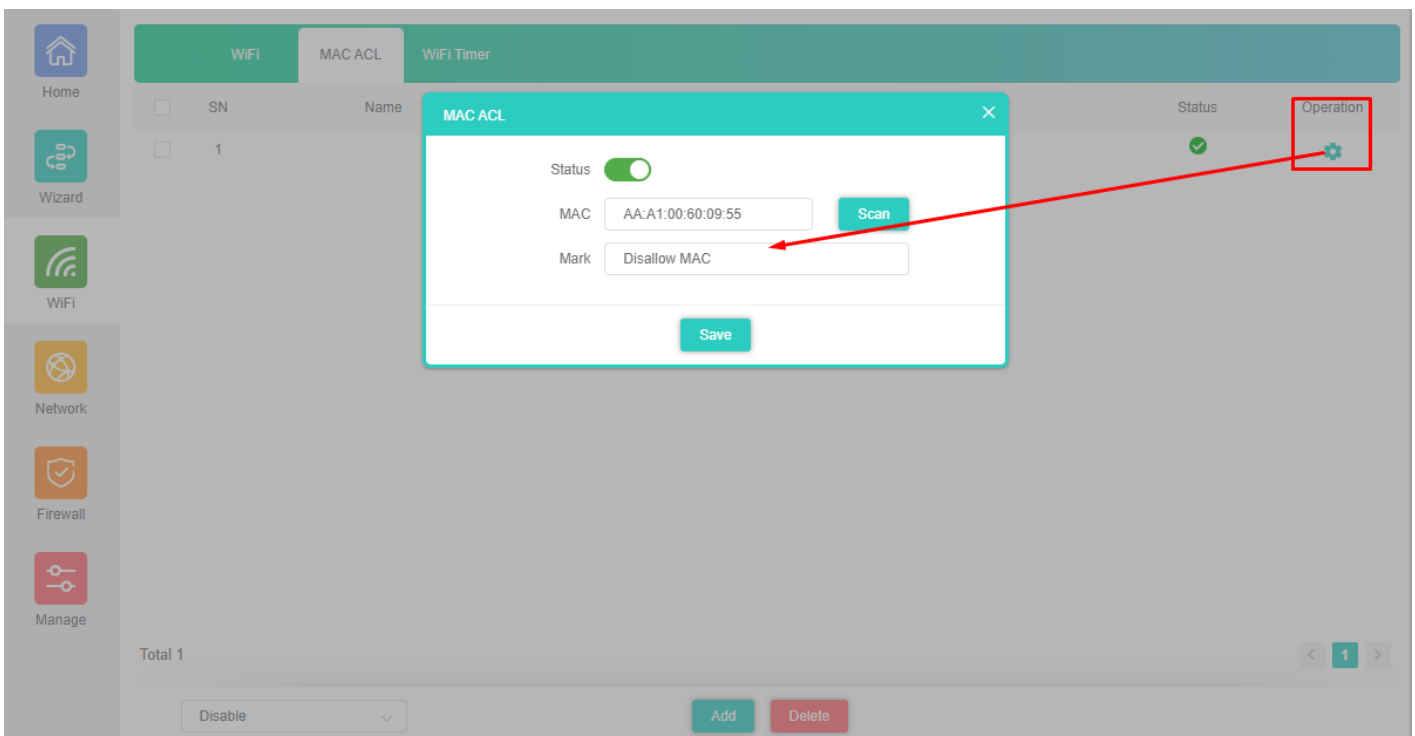


Fig 3.2.5 Config Button of MAC ACL for AirONE AP1800AX-HD

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.

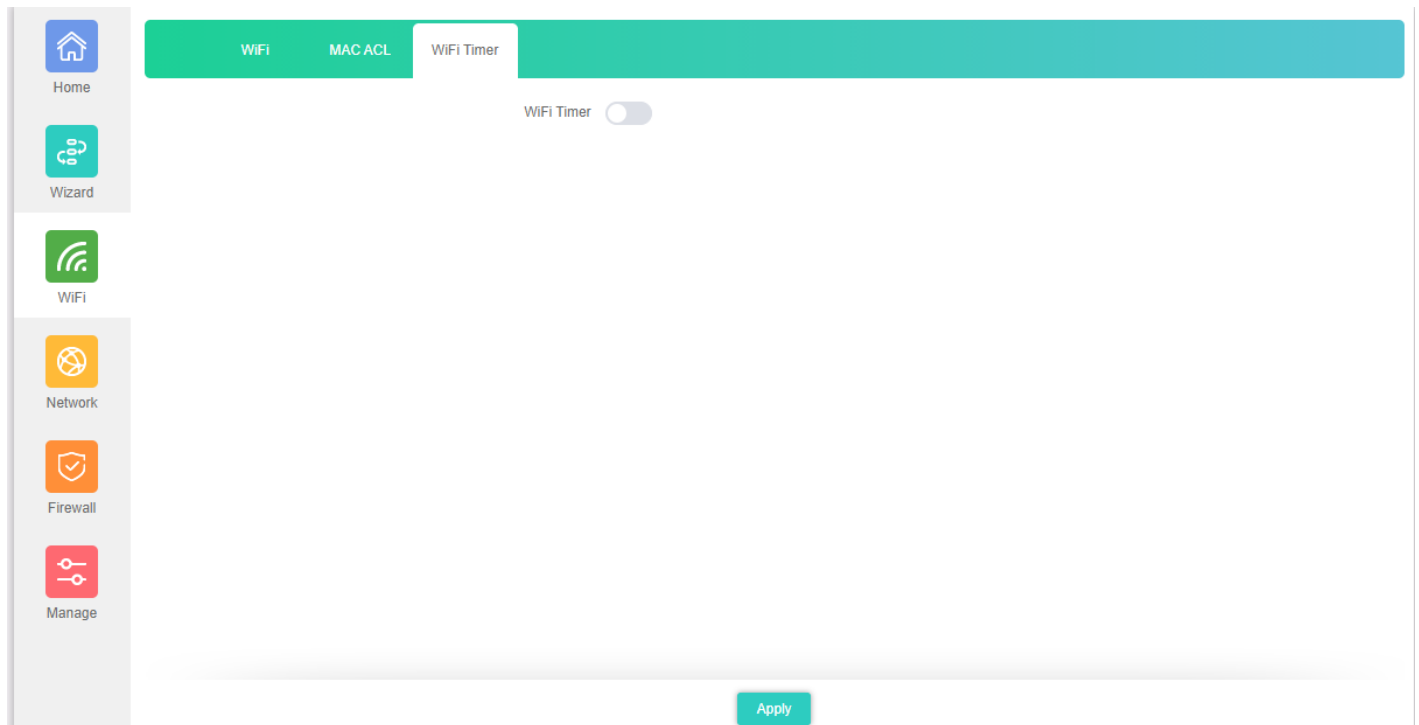


Fig 3.3.1 Default Wi-Fi Timer Off for AirONE AP1800AX-HD

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.

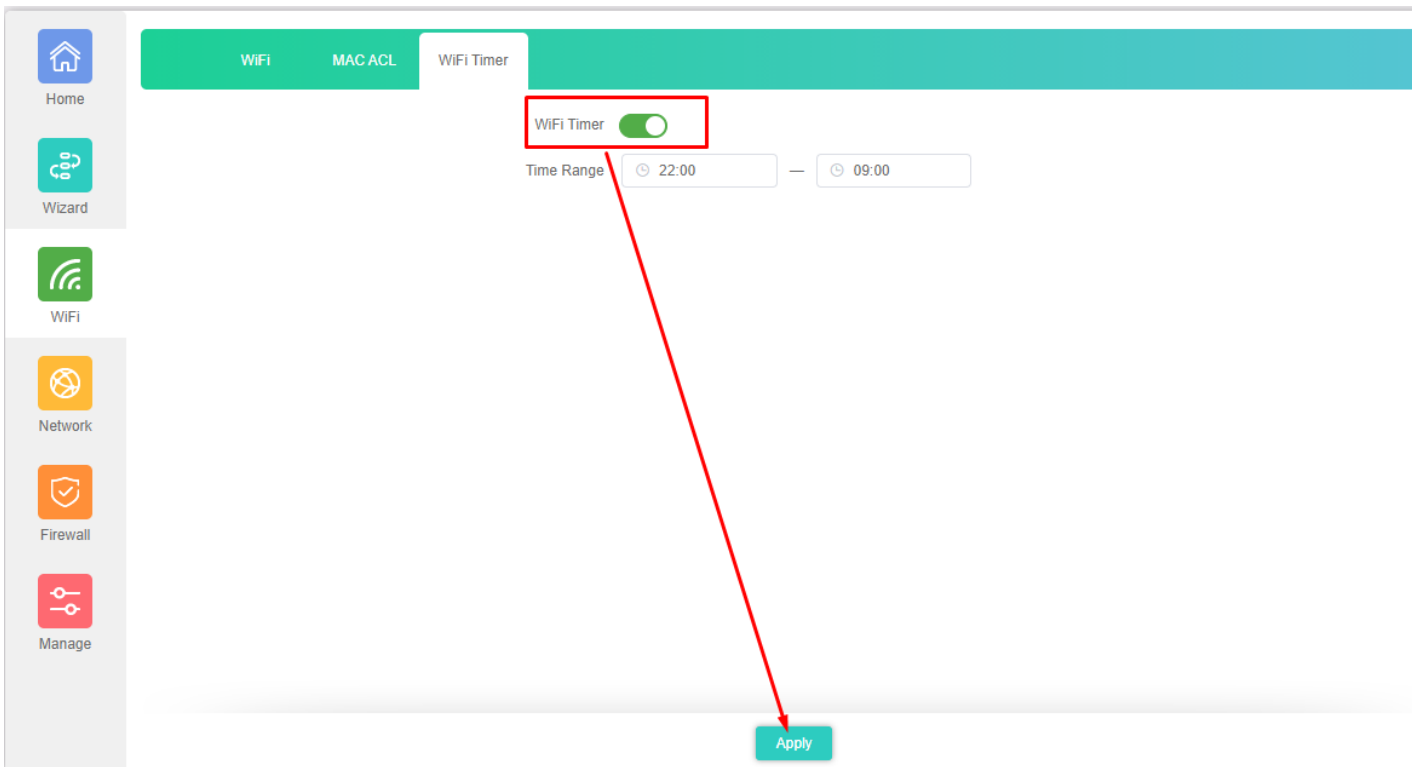


Fig 3.3.2 Wi-Fi Timer Off for AirONE AP1800AX-HD

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.

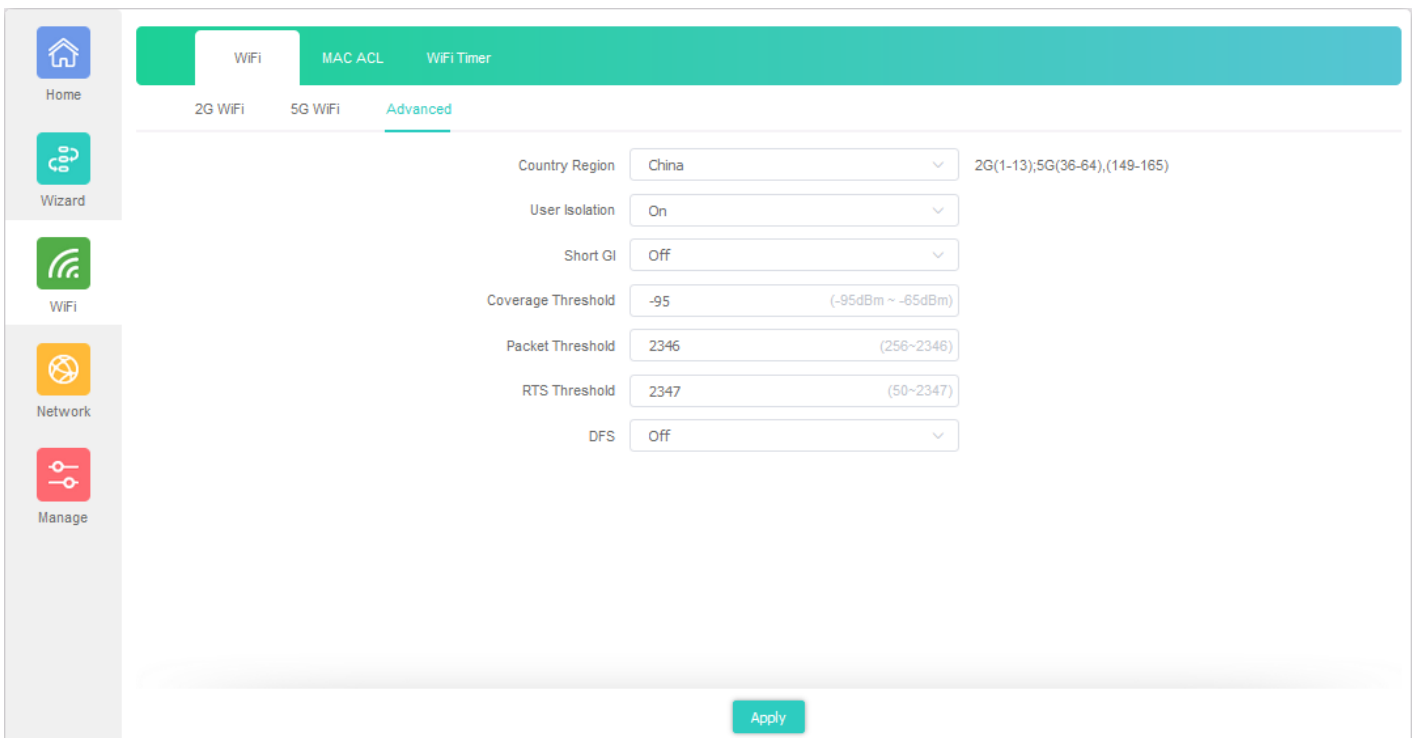


Fig 3.4.1 Default Advanced setting for AirONE AP1800AX-HD

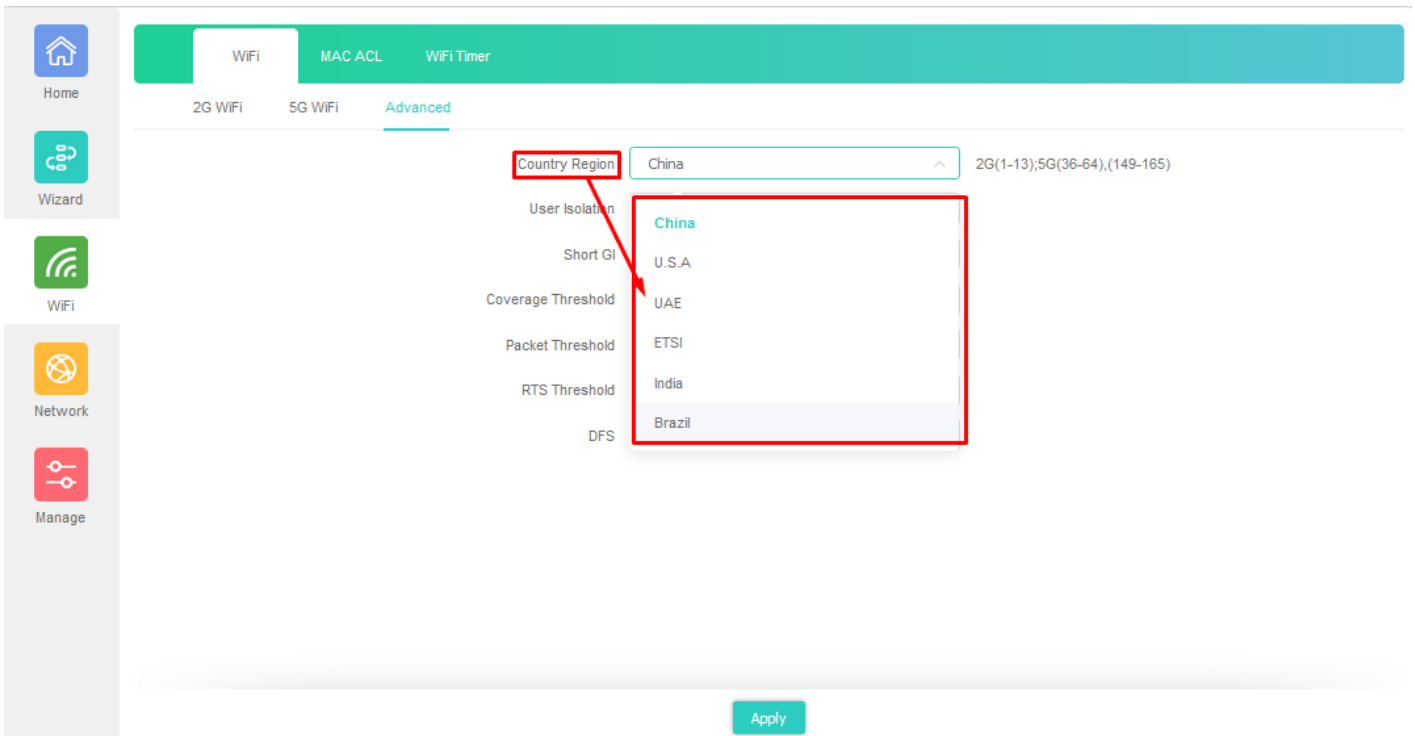


Fig 3.4.2 Selecting Country Region for AirONE AP1800AX-HD

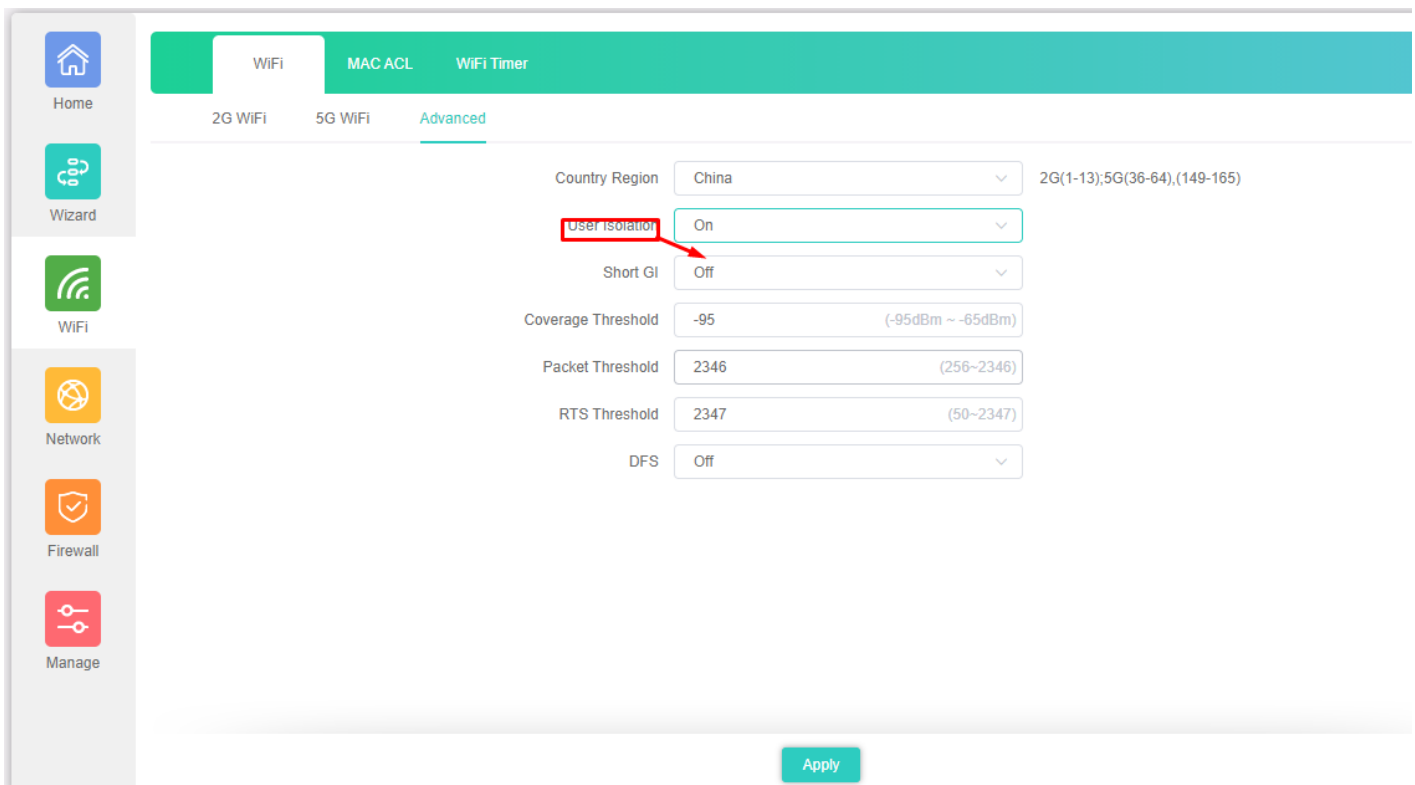


Fig 3.4.3 Selecting user Isolation for AirONE AP1800AX-HD

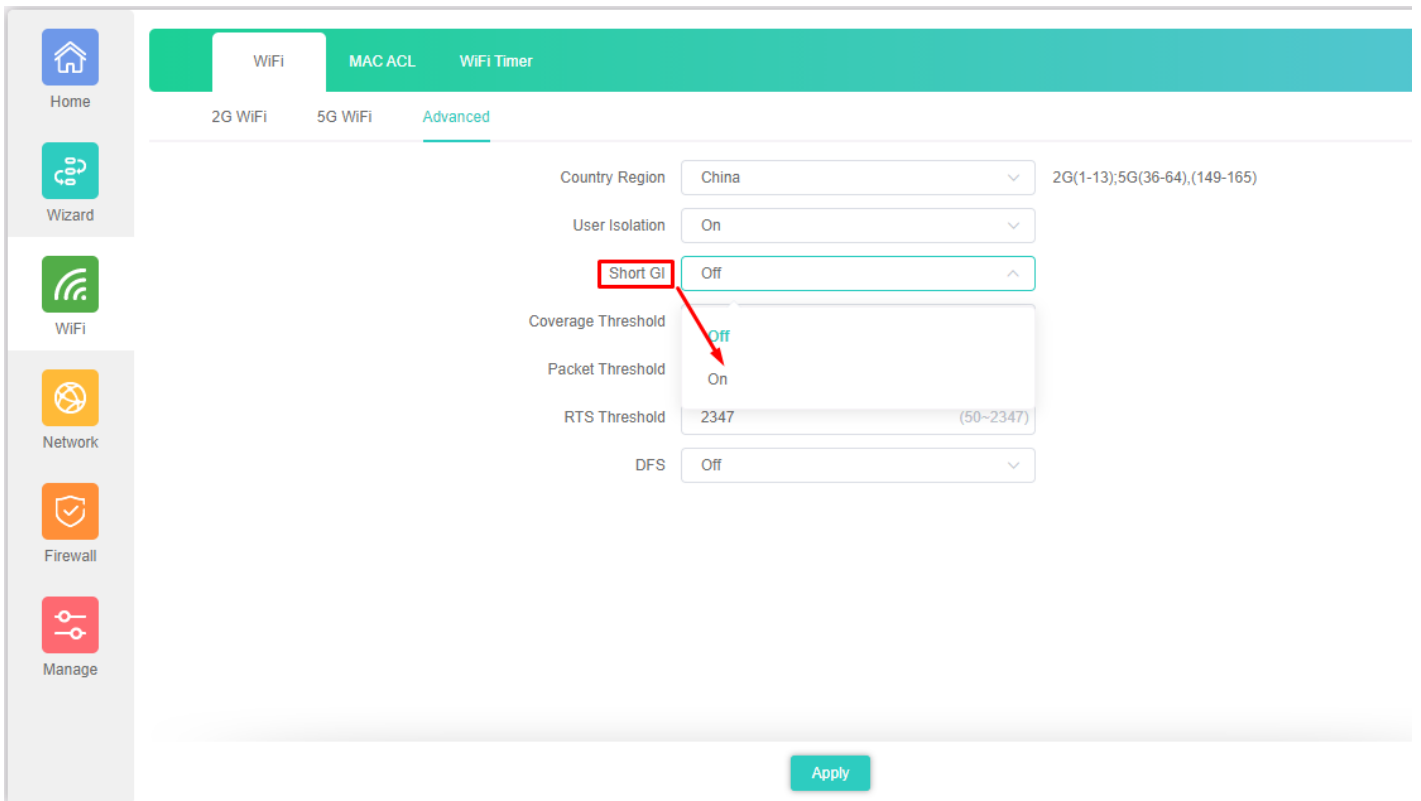


Fig 3.4.4 Selecting Short GI for AirONE AP1800AX-HD

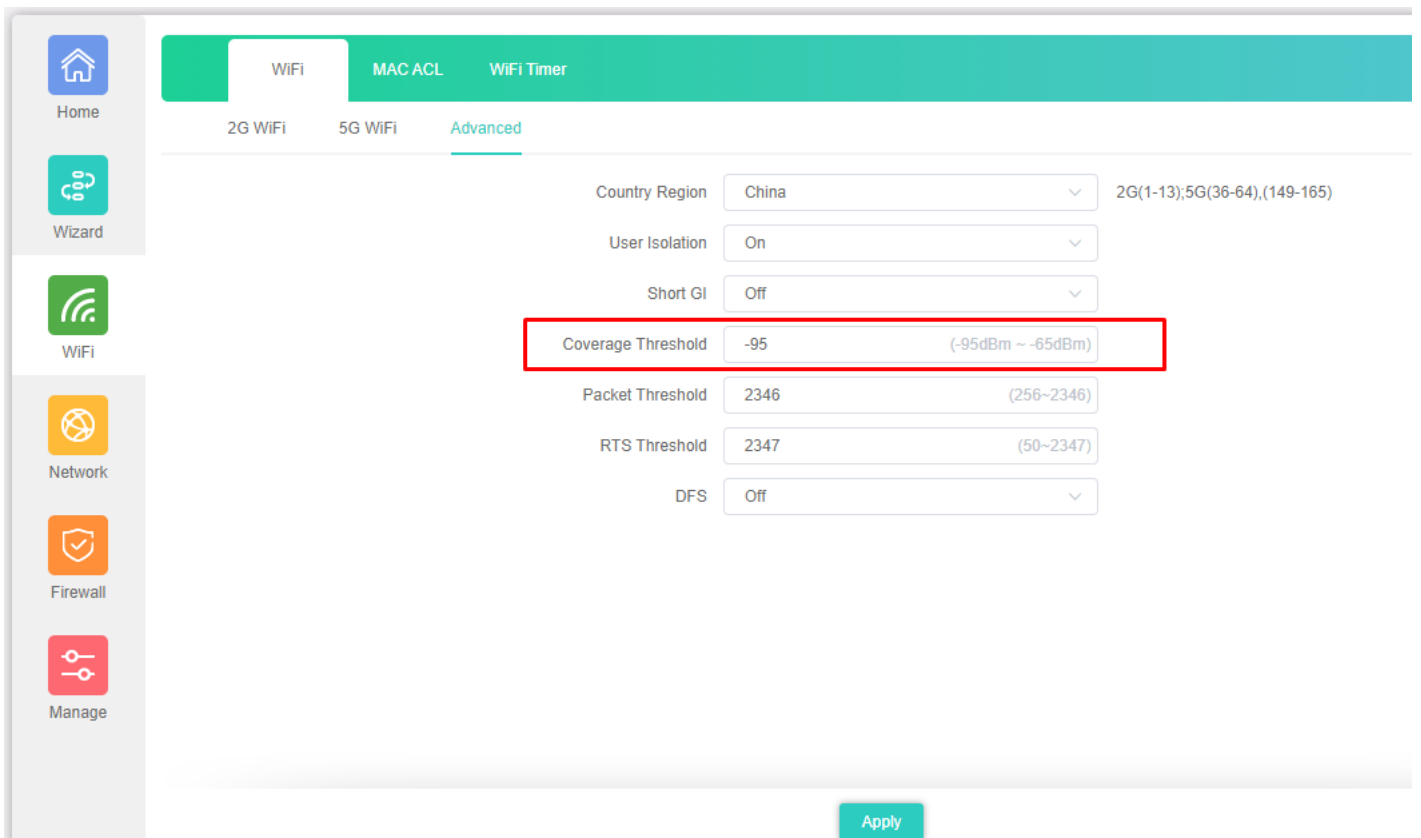


Fig 3.4.5 Selecting Coverage Threshold for AirONE AP1800AX-HD

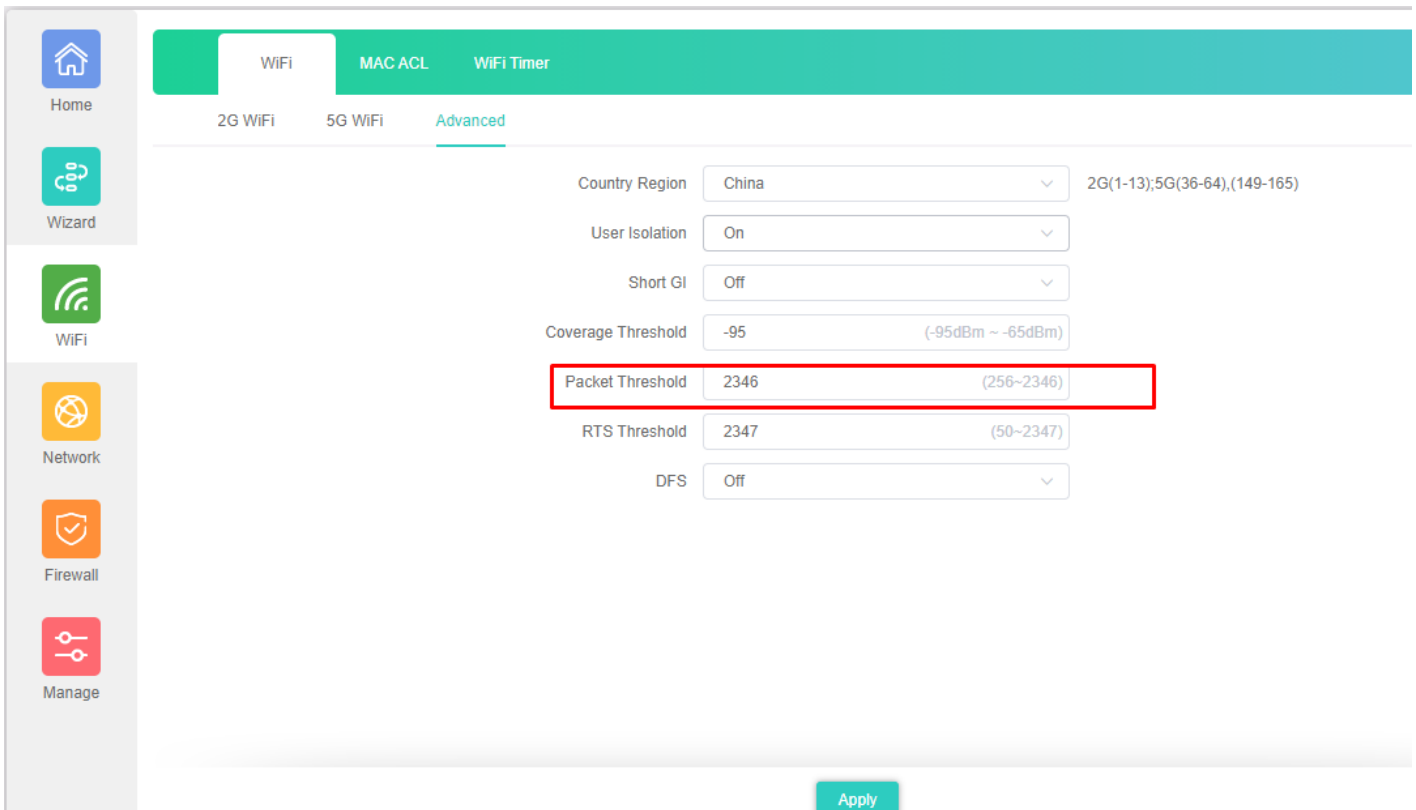


Fig 3.4.6 Setting Packet Threshold for AirONE AP1800AX-HD

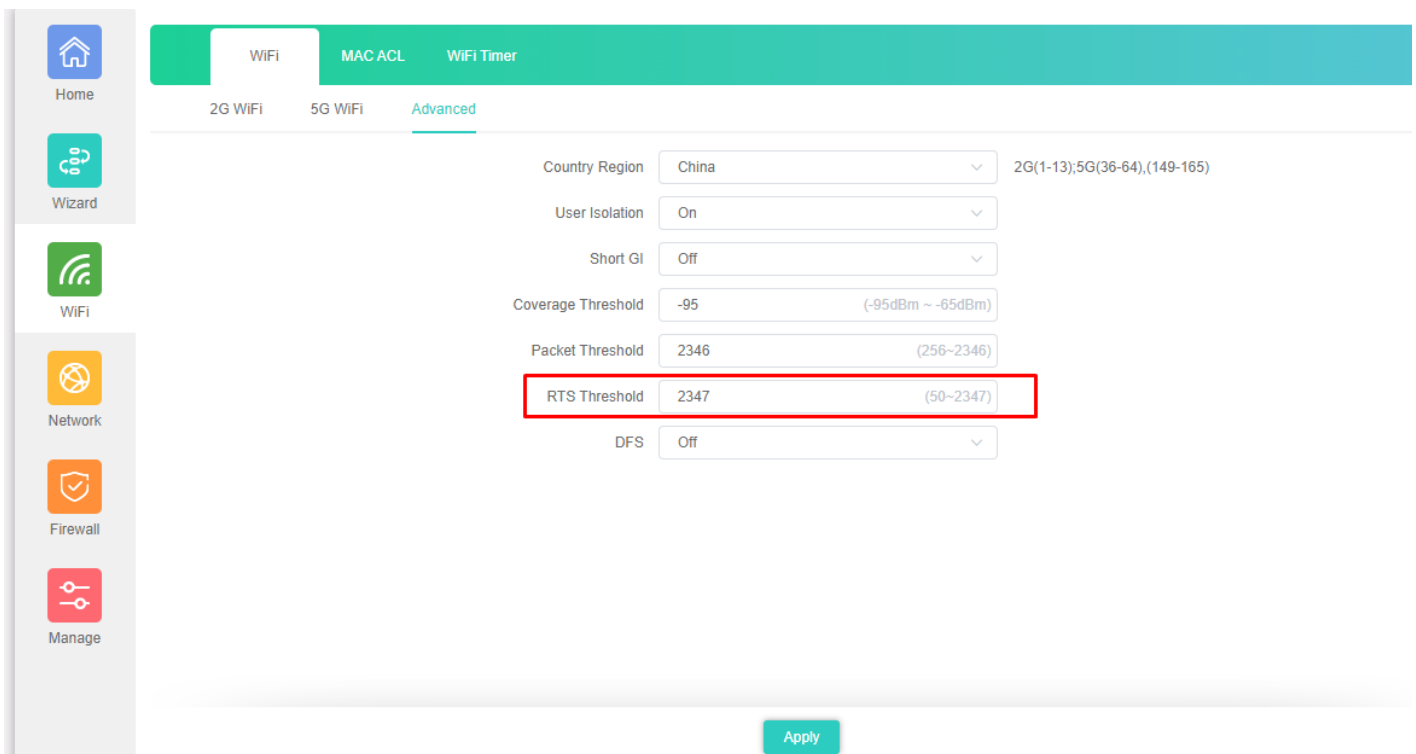


Fig 3.4.7 Setting RTS Threshold for AirONE AP1800AX-HD

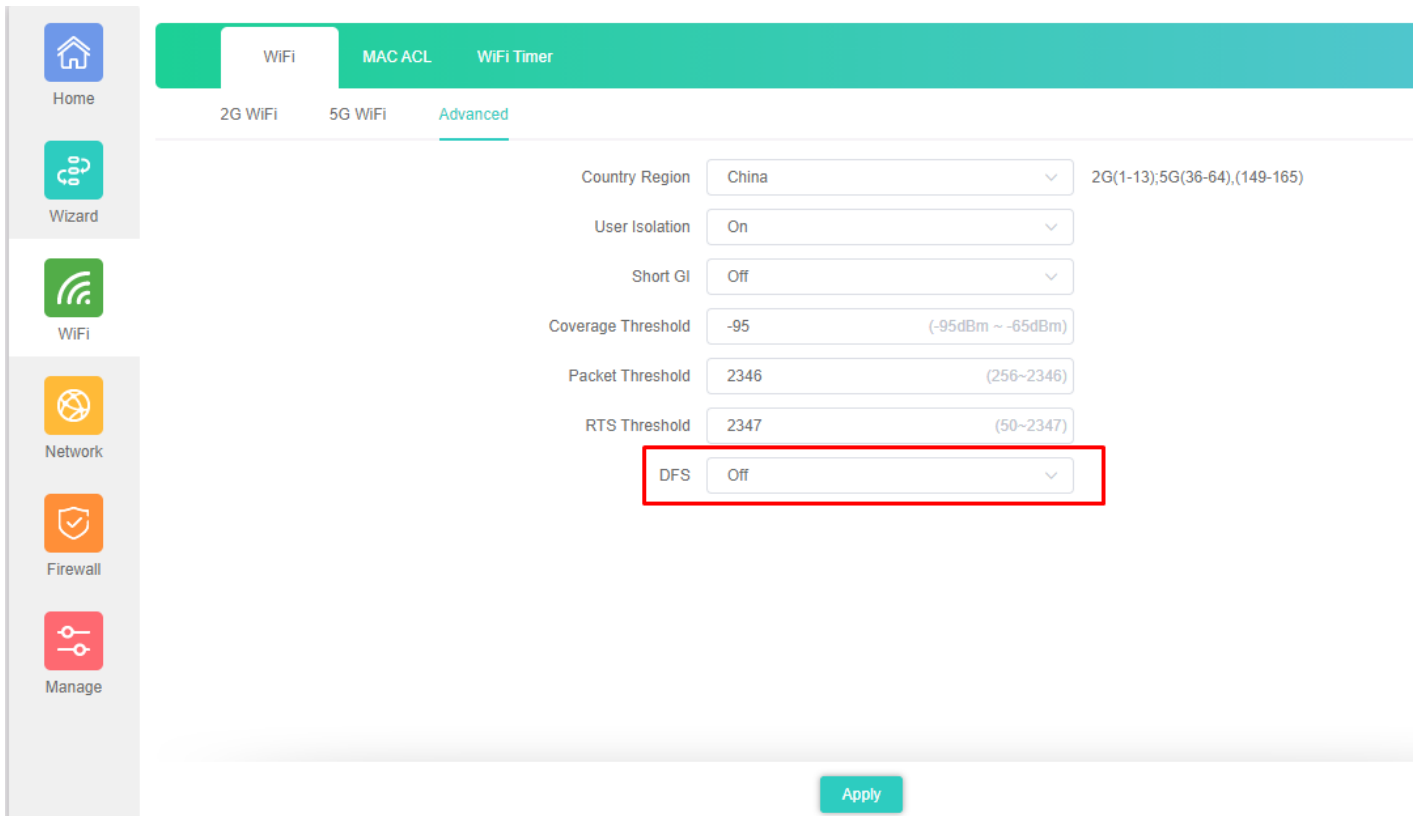


Fig 3.4.8 Selecting DFS for AirONE AP1800AX-HD

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-HD_2.4G” and “AIR-AP1800AX-HD_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.

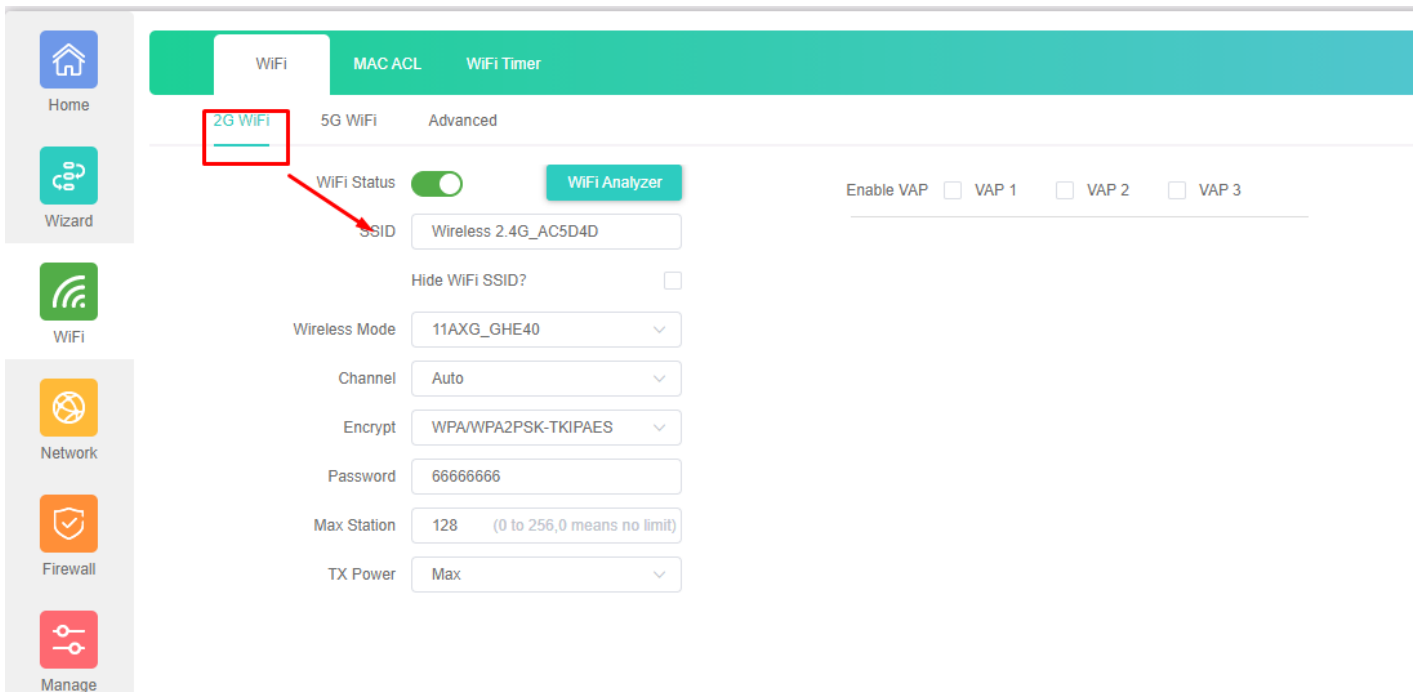


Fig 3.1.1 2G Wi-Fi enable and disable of Basic and VAP 1,2,3 of AirONE AP1800AX-HD

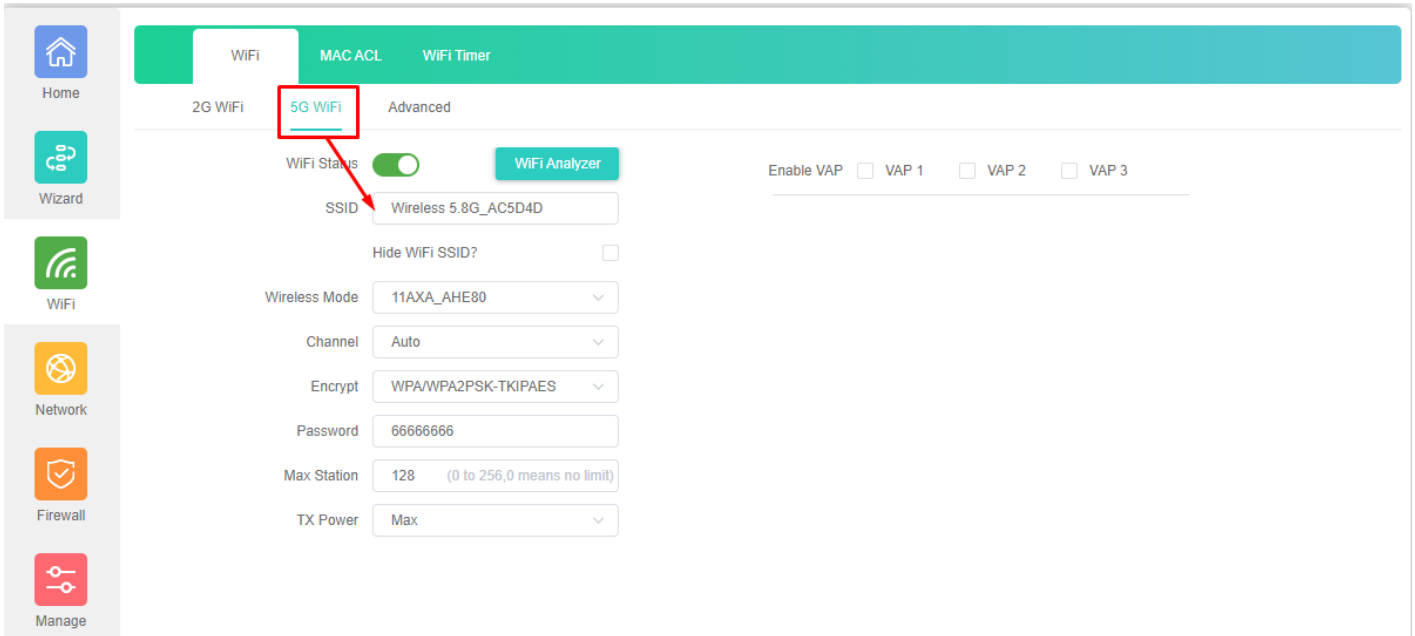


Fig 3.1.2 5G Wi-Fi enable of AirONE AP1800AX-HD

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.

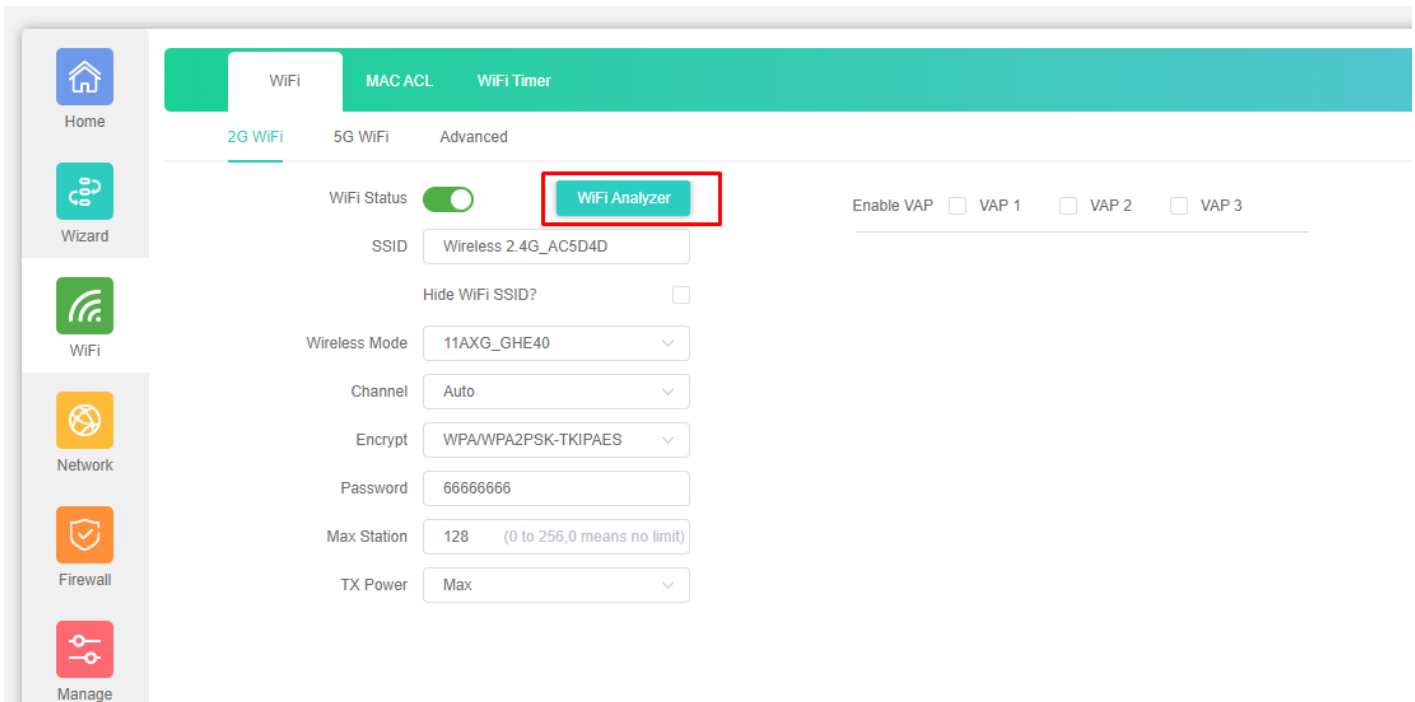


Fig 3.1.3 2G Wi-Fi Analyzer button of AirONE AP1800AX-HD

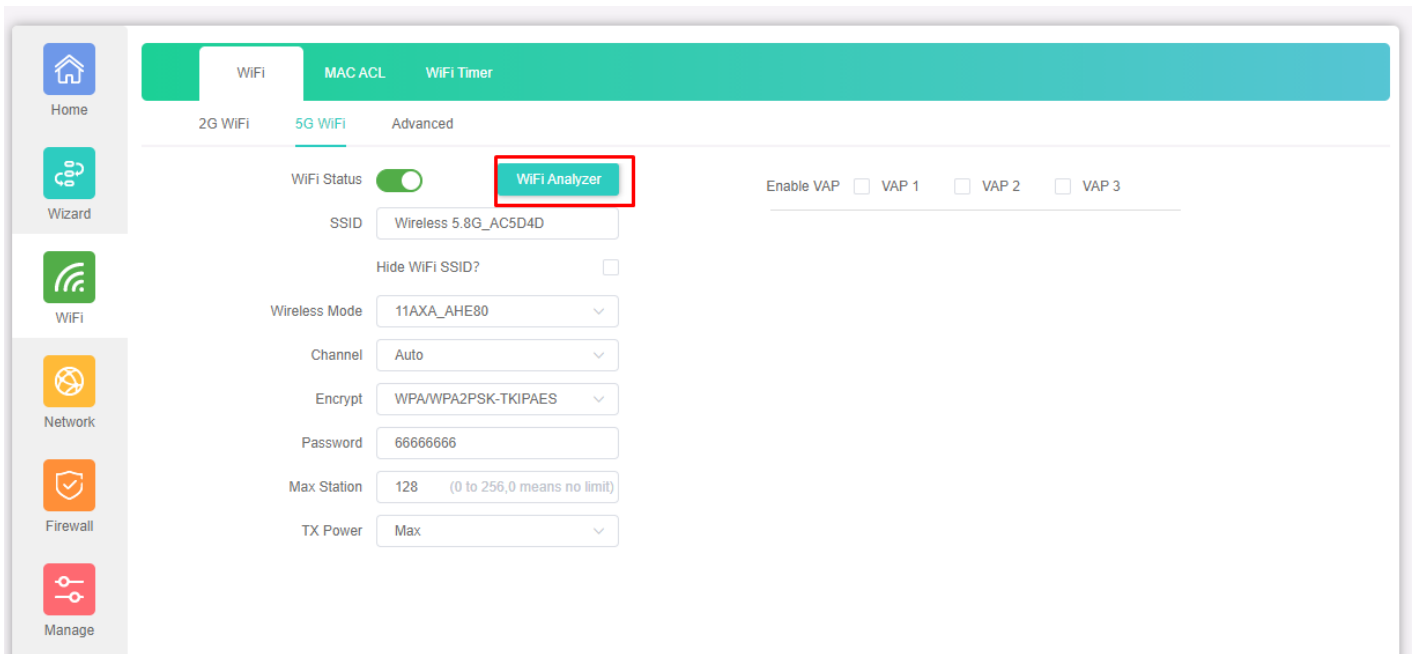


Fig 3.1.4 5G Wi-Fi Analyzer button of AirONE AP1800AX-HD

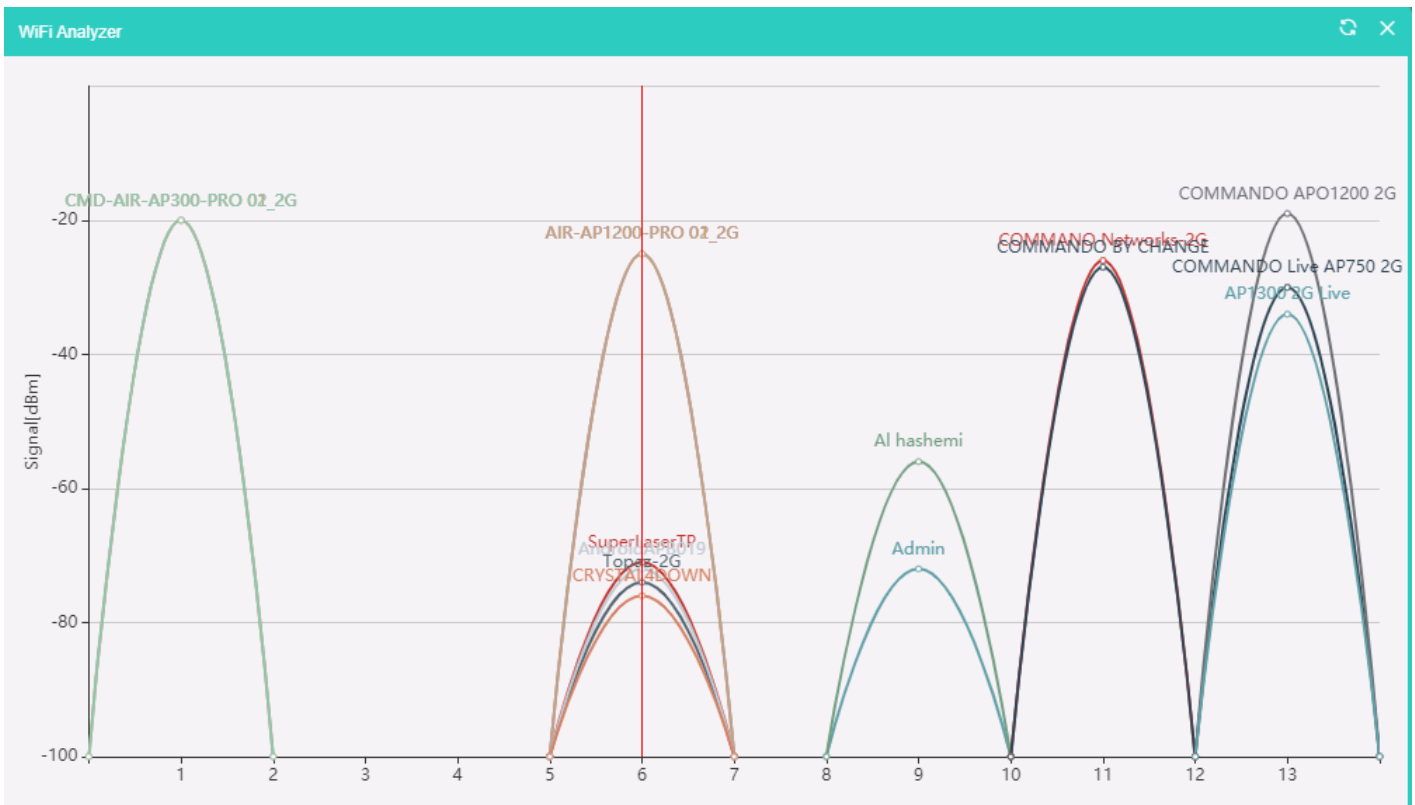


Fig 3.1.5 2G Wi-Fi Analyzer of AirONE AP1800AX-HD

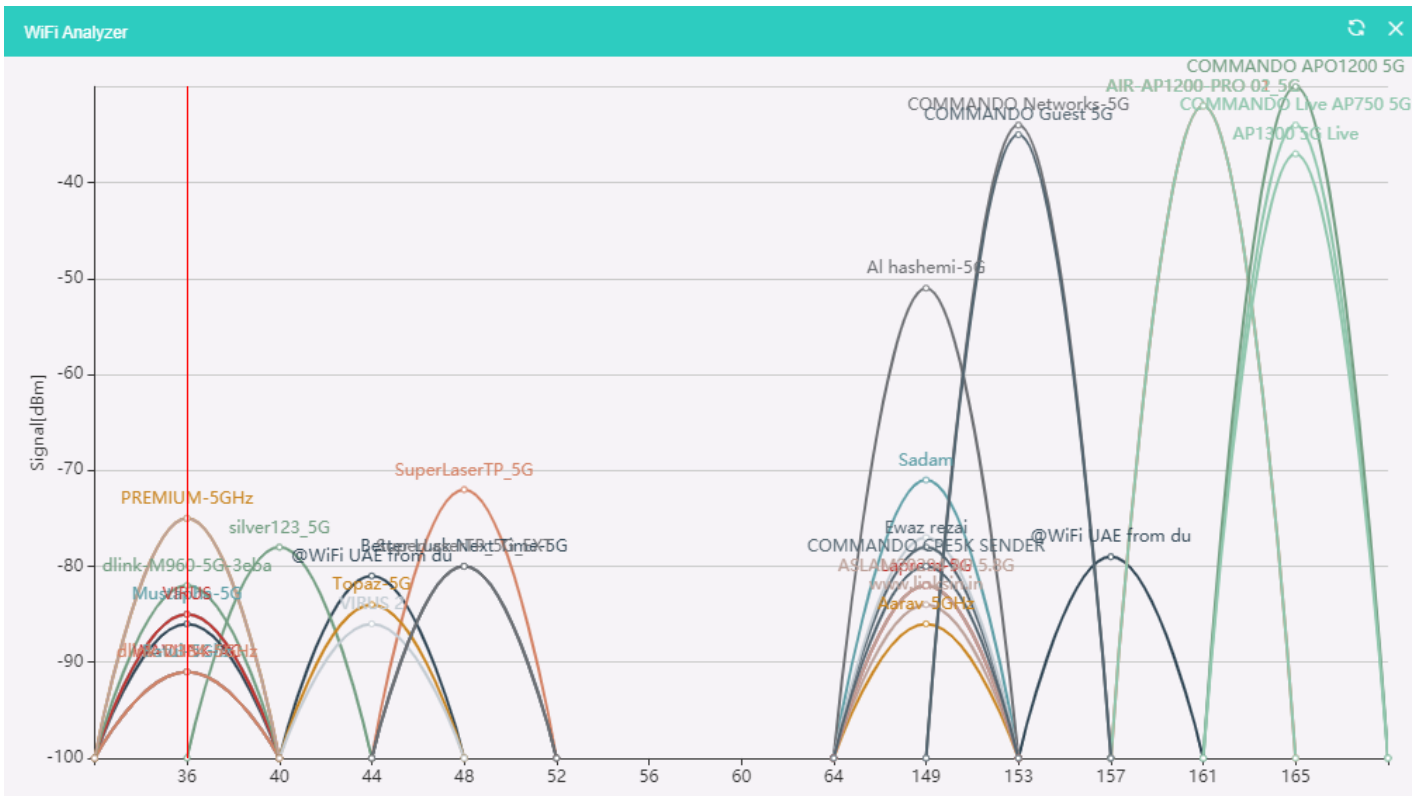


Fig 3.1.6 5G Wi-Fi Analyzer of AirONE AP1800AX-HD

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

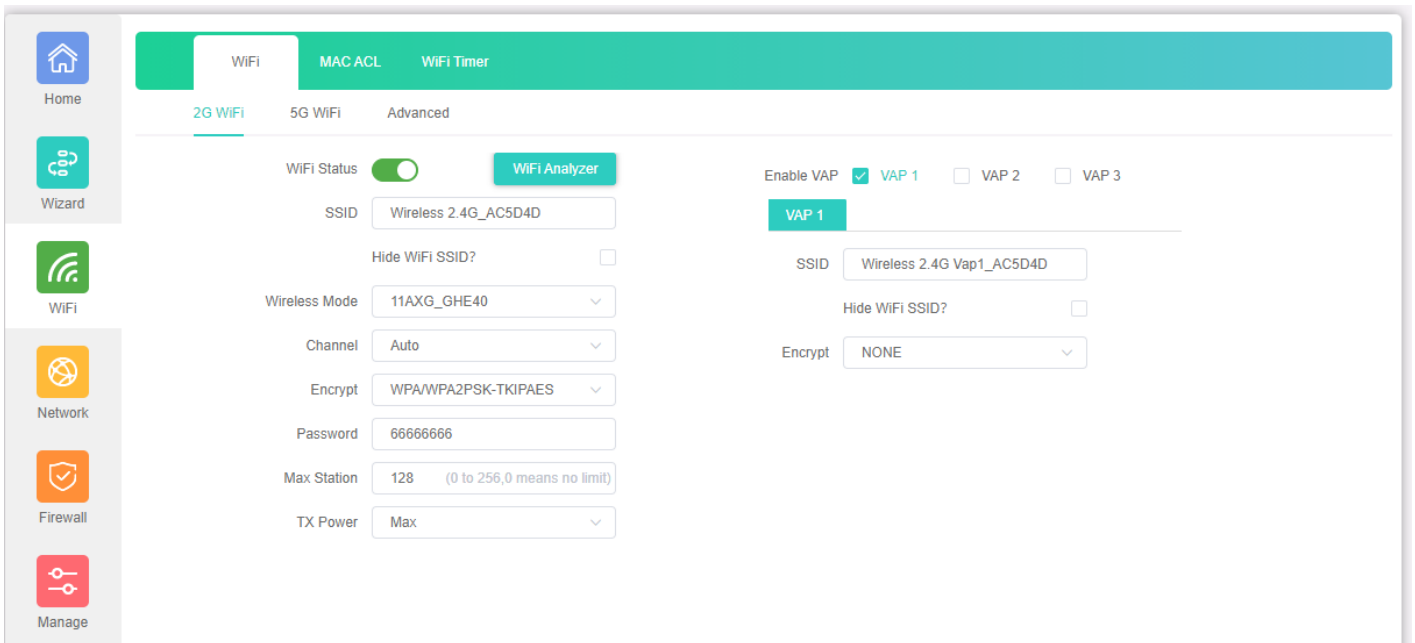


Fig 3.1.7 Enabling 2G VAP 1 of AirONE AP1800AX-HD

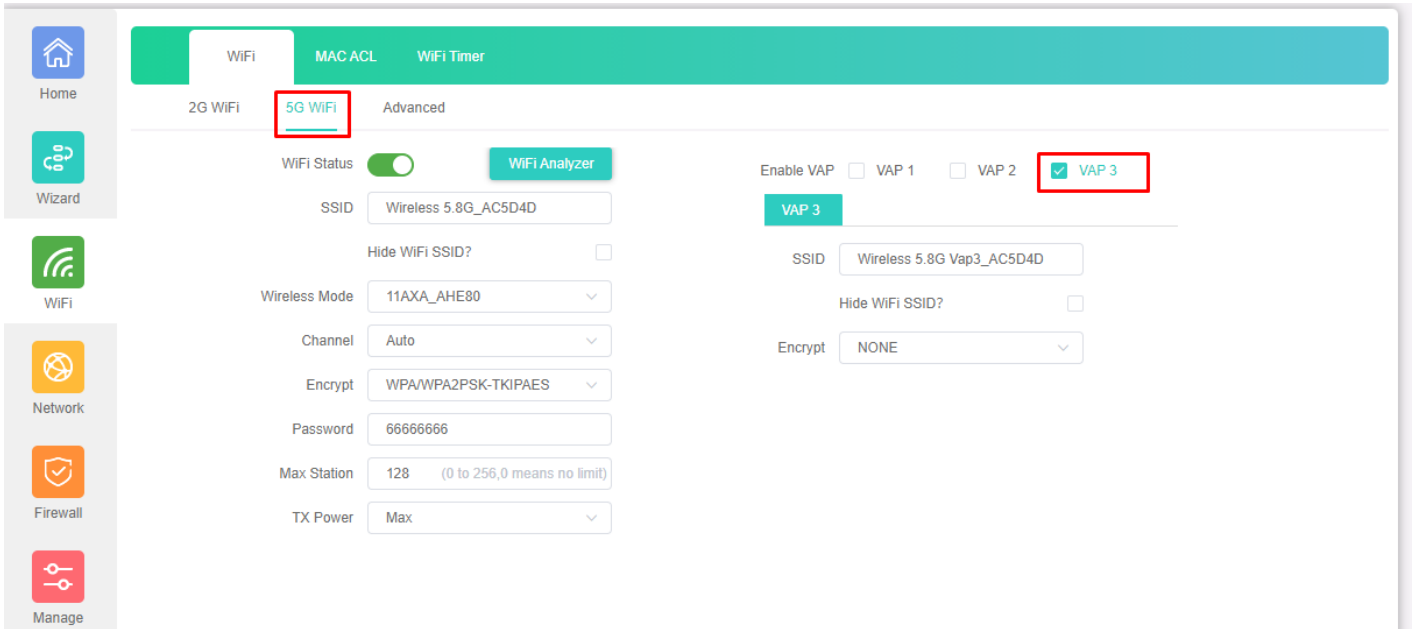


Fig 3.1.8 Enabling 5G VAP 3 of AirONE AP1800AX-HD

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-HD. 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.

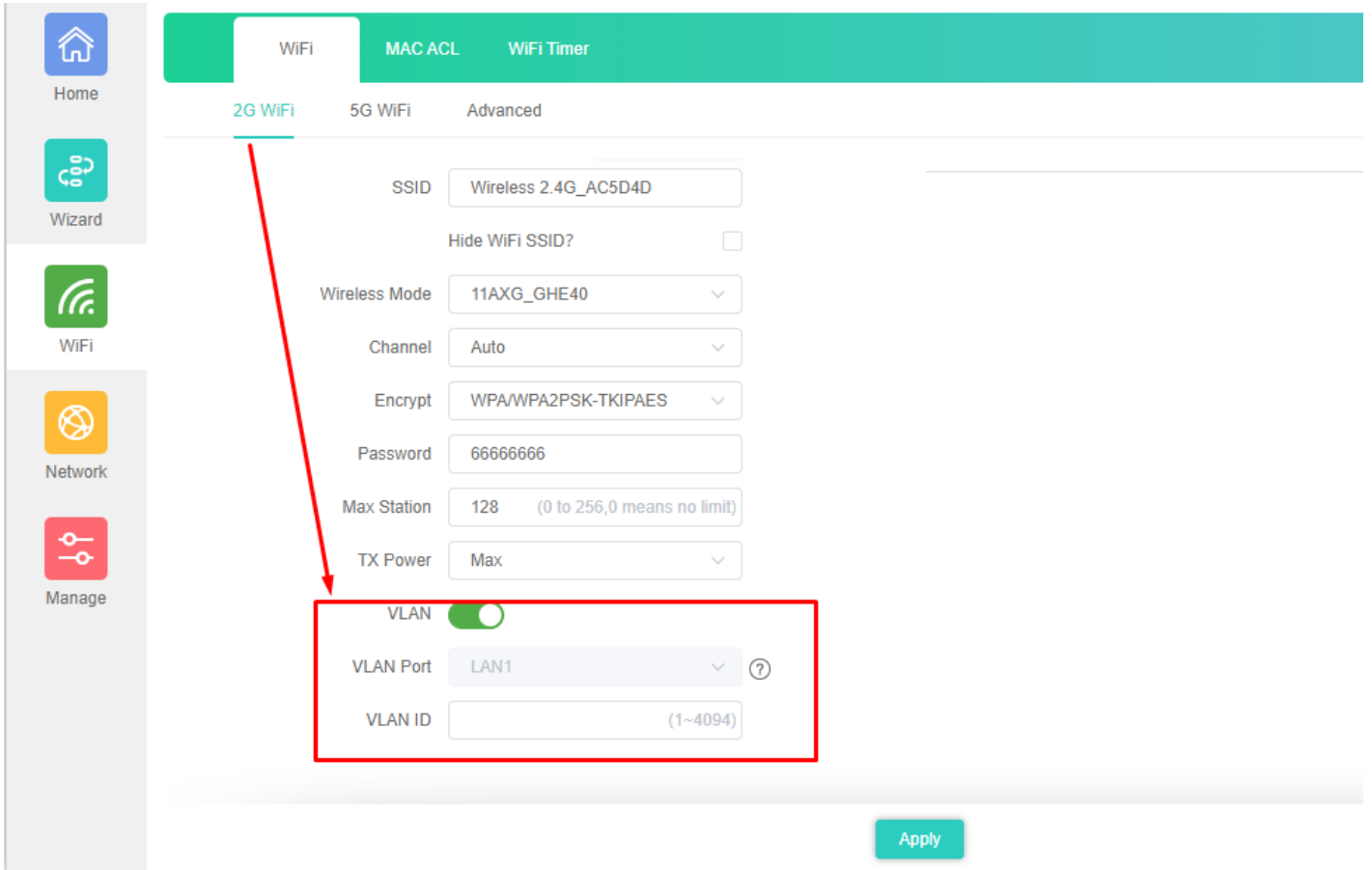


Fig 3.1.9 2G VLAN Management of of AirONE AP1800AX-HD

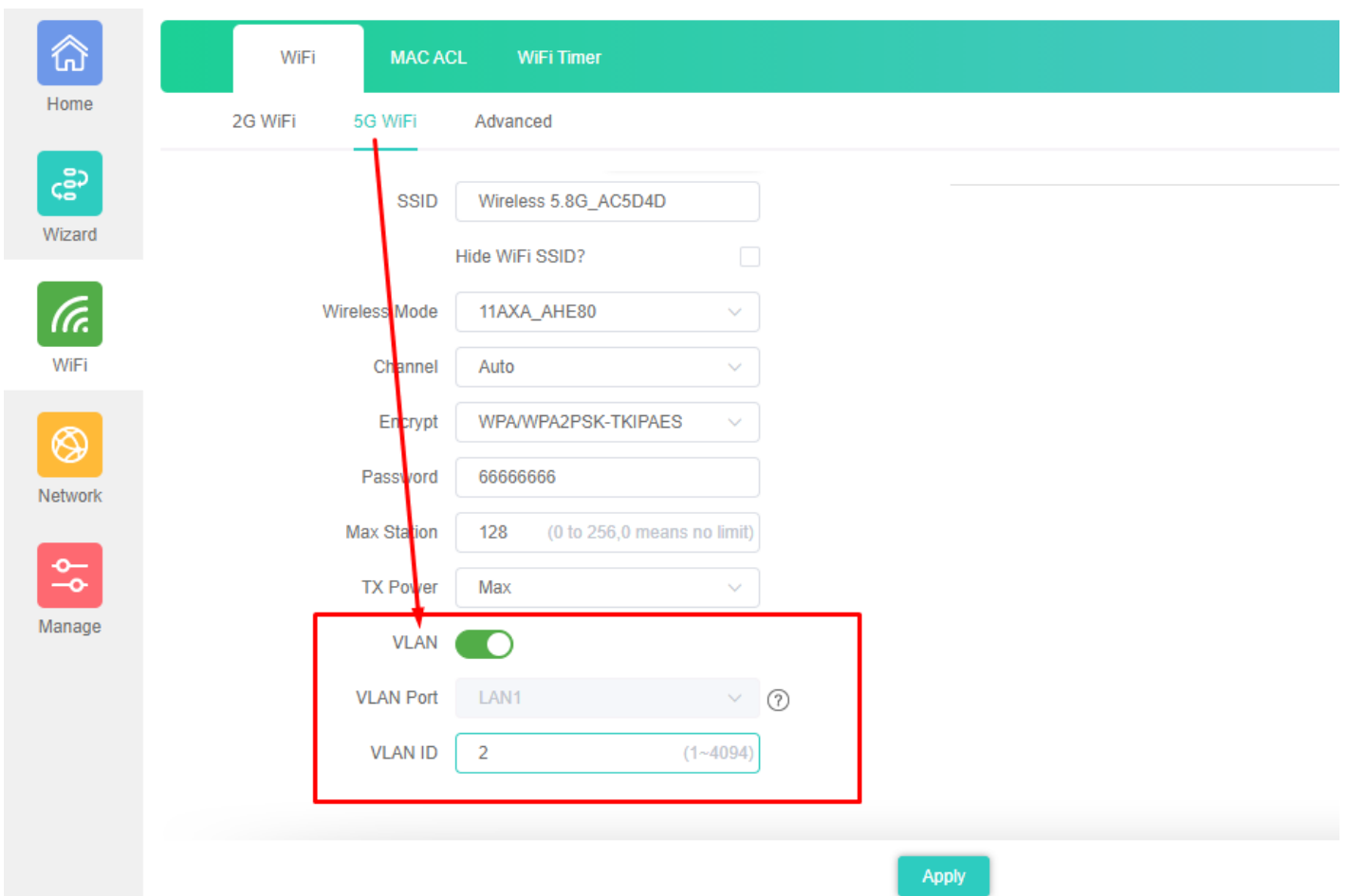


Fig 3.1.10 5G VLAN Management of of AirONE AP1800AX-HD

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.

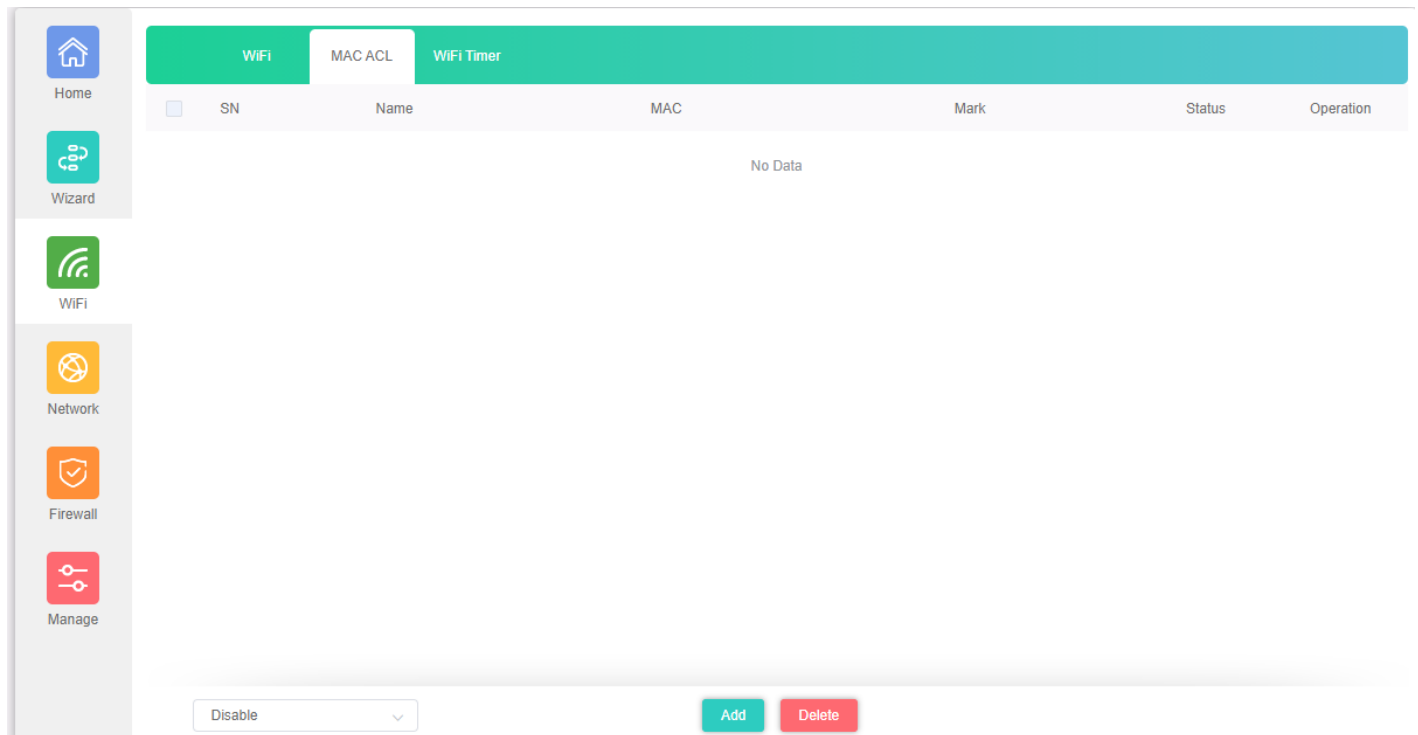


Fig 3.2.1 Default MAC ACL of AirONE AP1800AX-HD

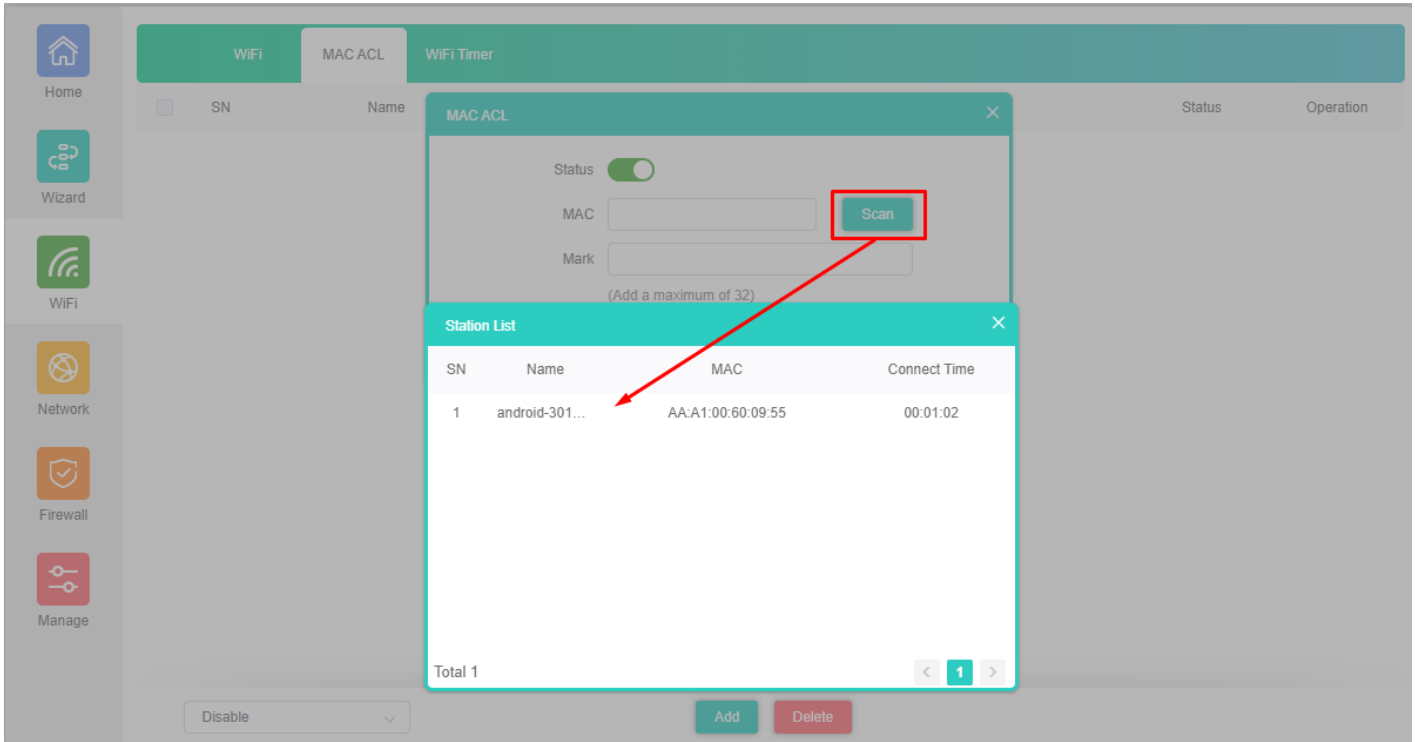


Fig 3.2.2 Add MAC ACL of AirONE AP1800AX-HD

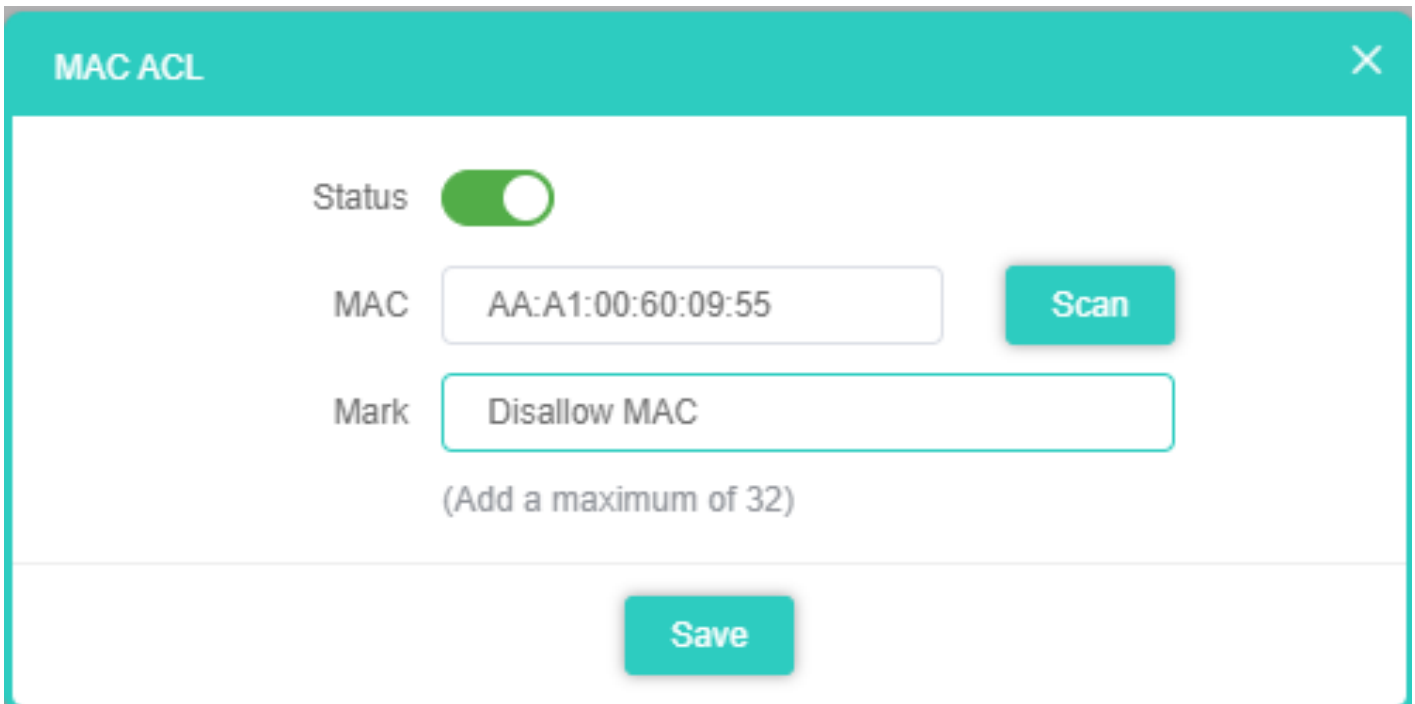


Fig 3.2.3 Select MAC address of AirONE AP1800AX-HD

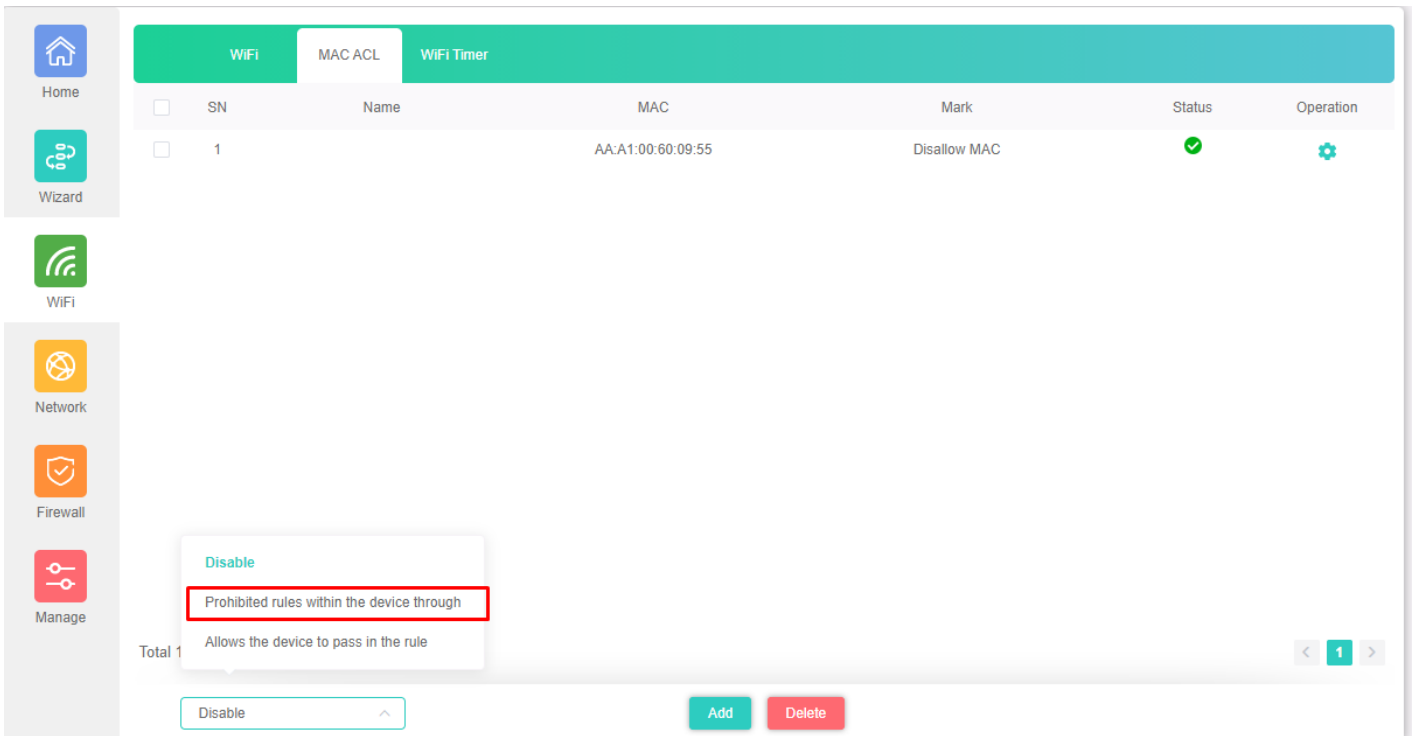


Fig 3.2.4 Apply MAC ACL for AirONE AP1800AX-HD

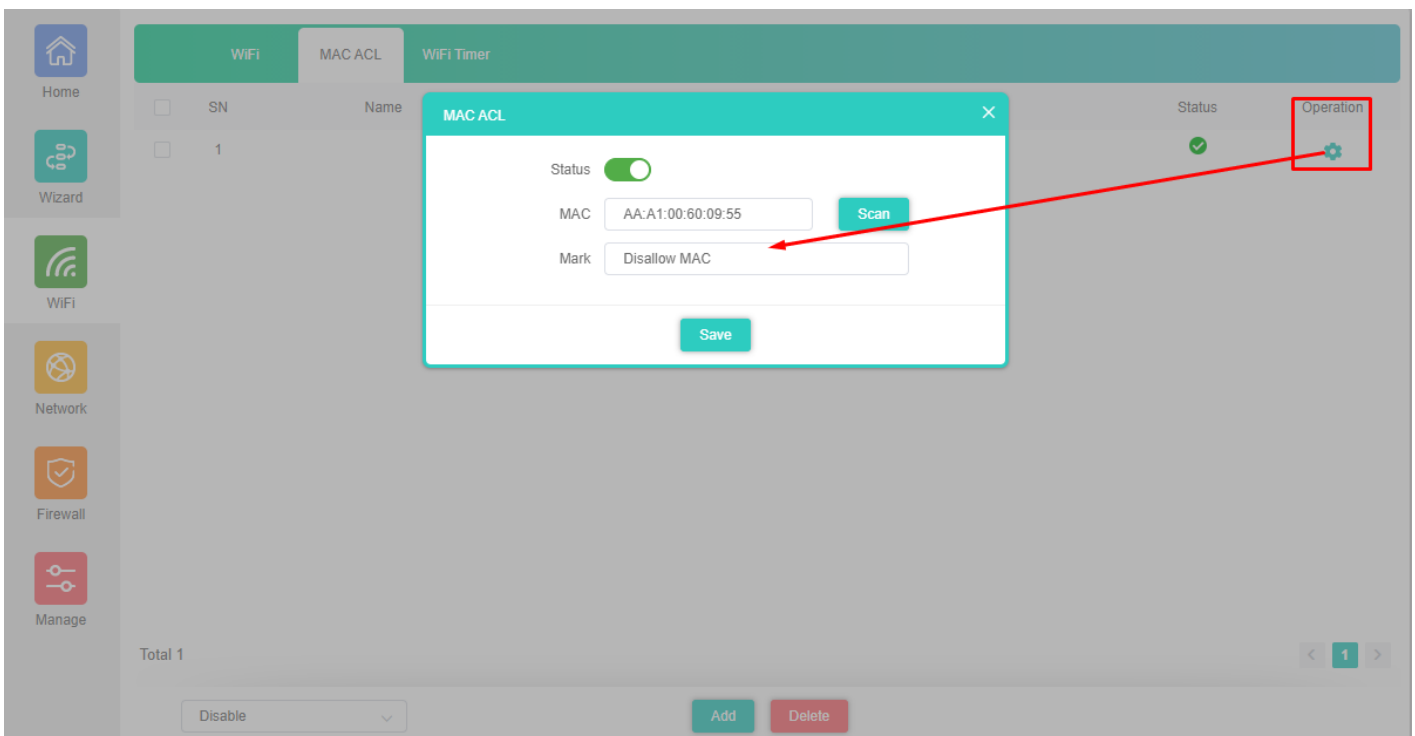


Fig 3.2.5 Config Button of MAC ACL for AirONE AP1800AX-HD

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.

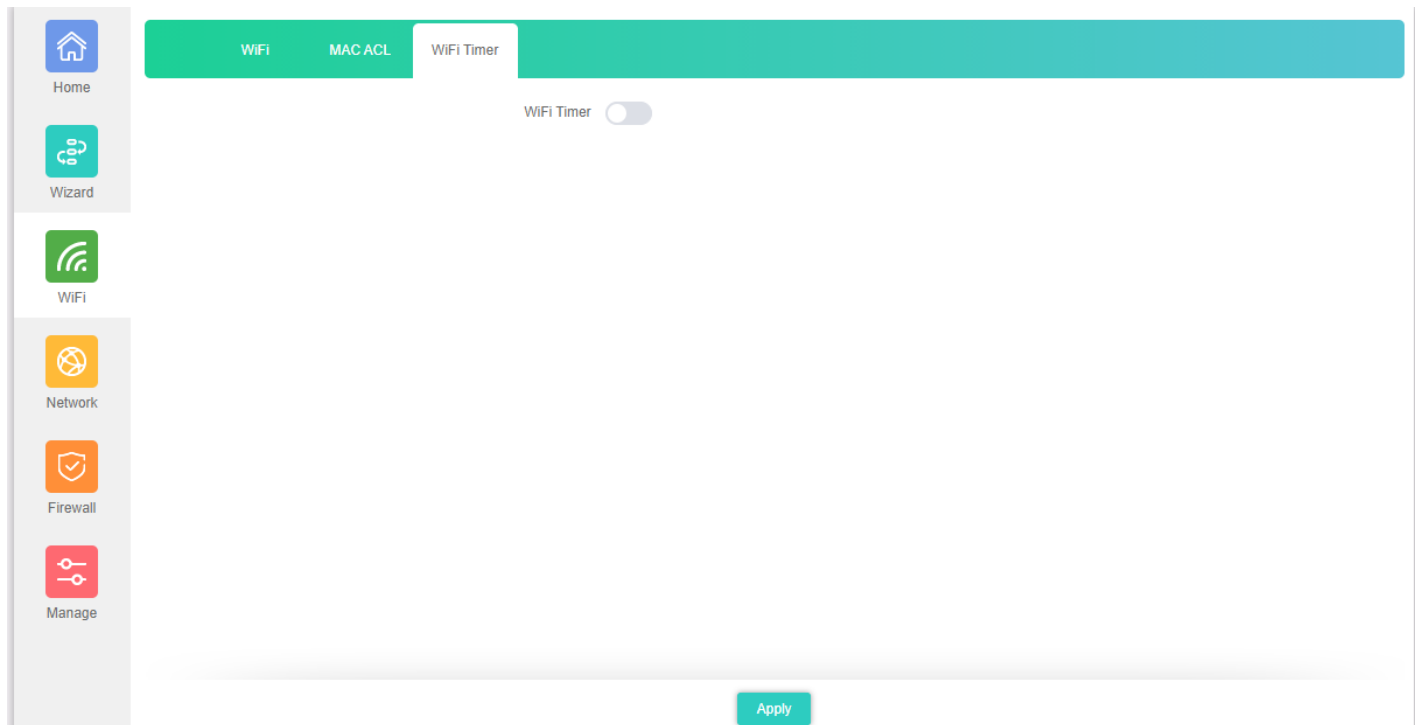


Fig 3.3.1 Default Wi-Fi Timer Off for AirONE AP1800AX-HD

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.

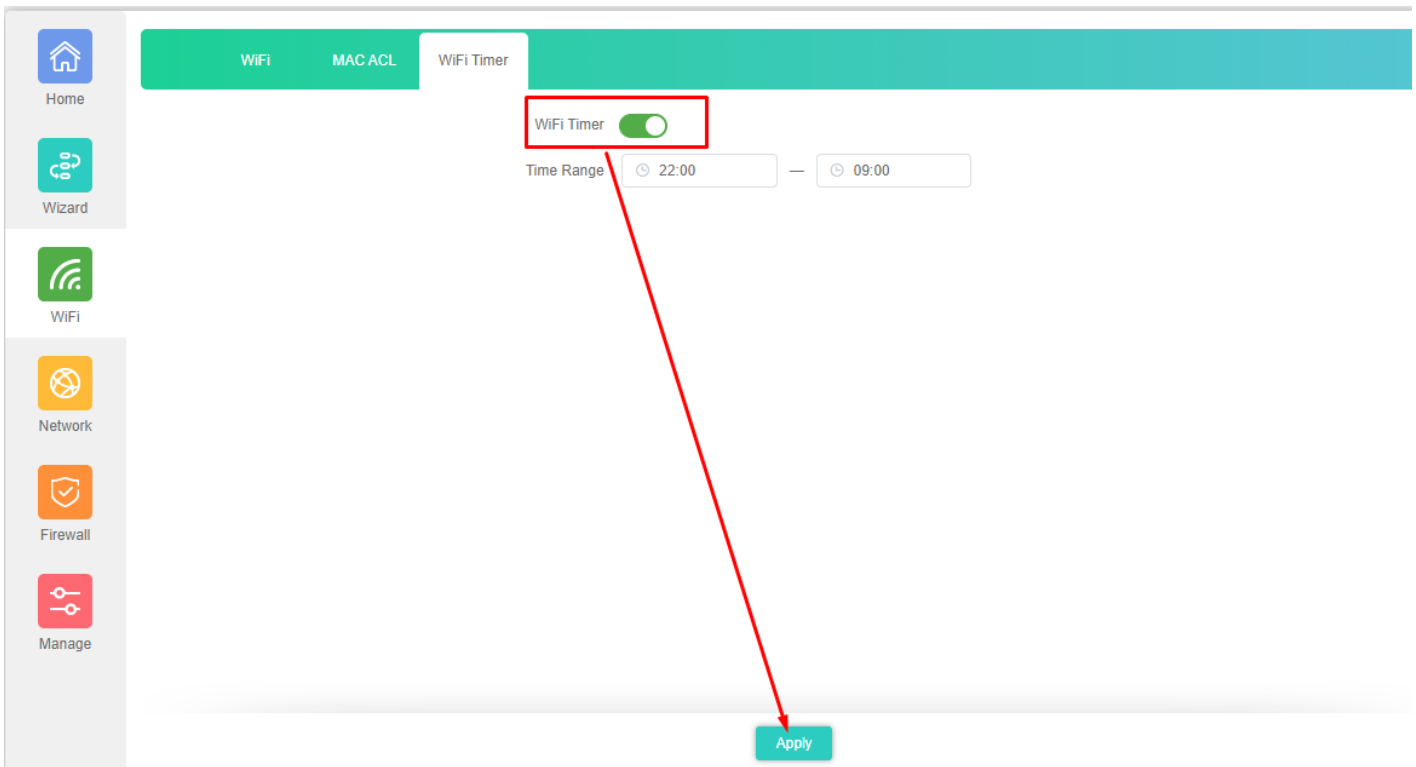


Fig 3.3.2 Wi-Fi Timer Off for AirONE AP1800AX-HD

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.

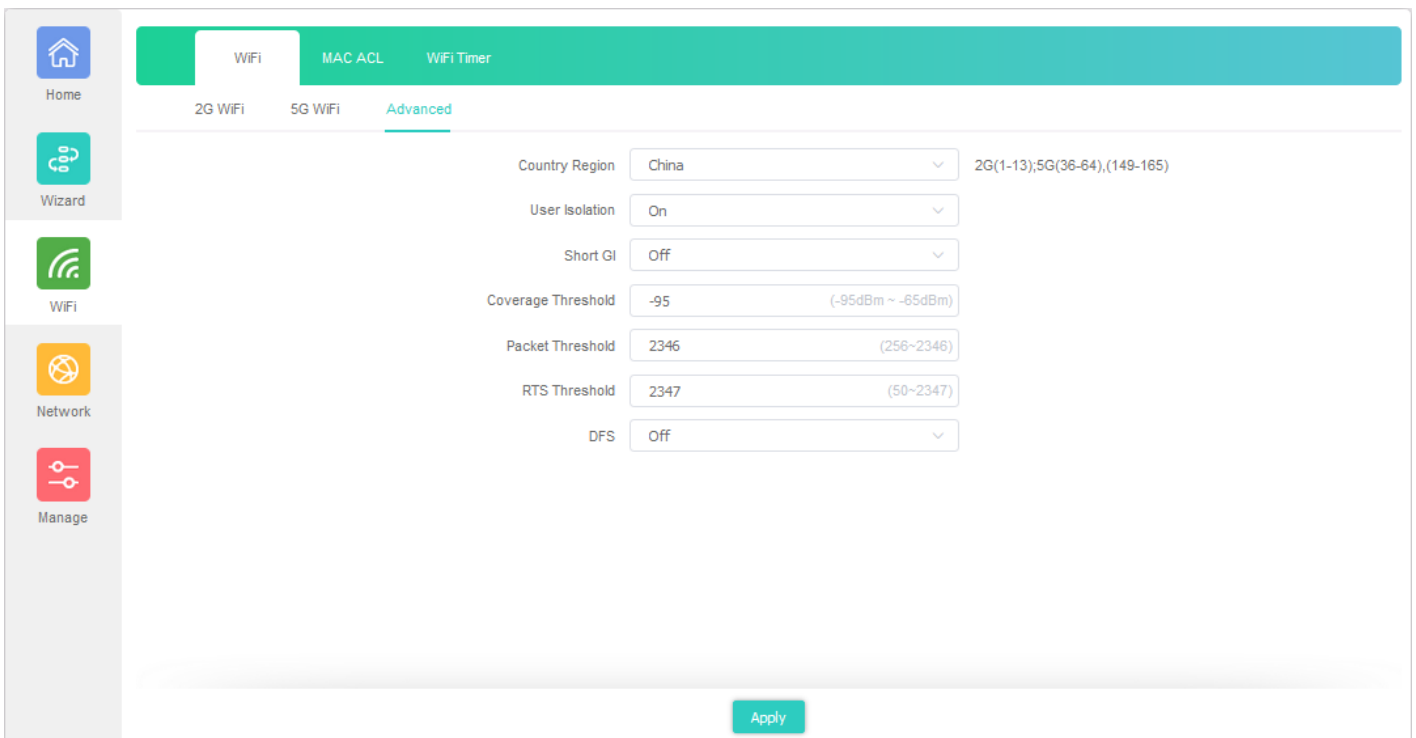


Fig 3.4.1 Default Advanced setting for AirONE AP1800AX-HD

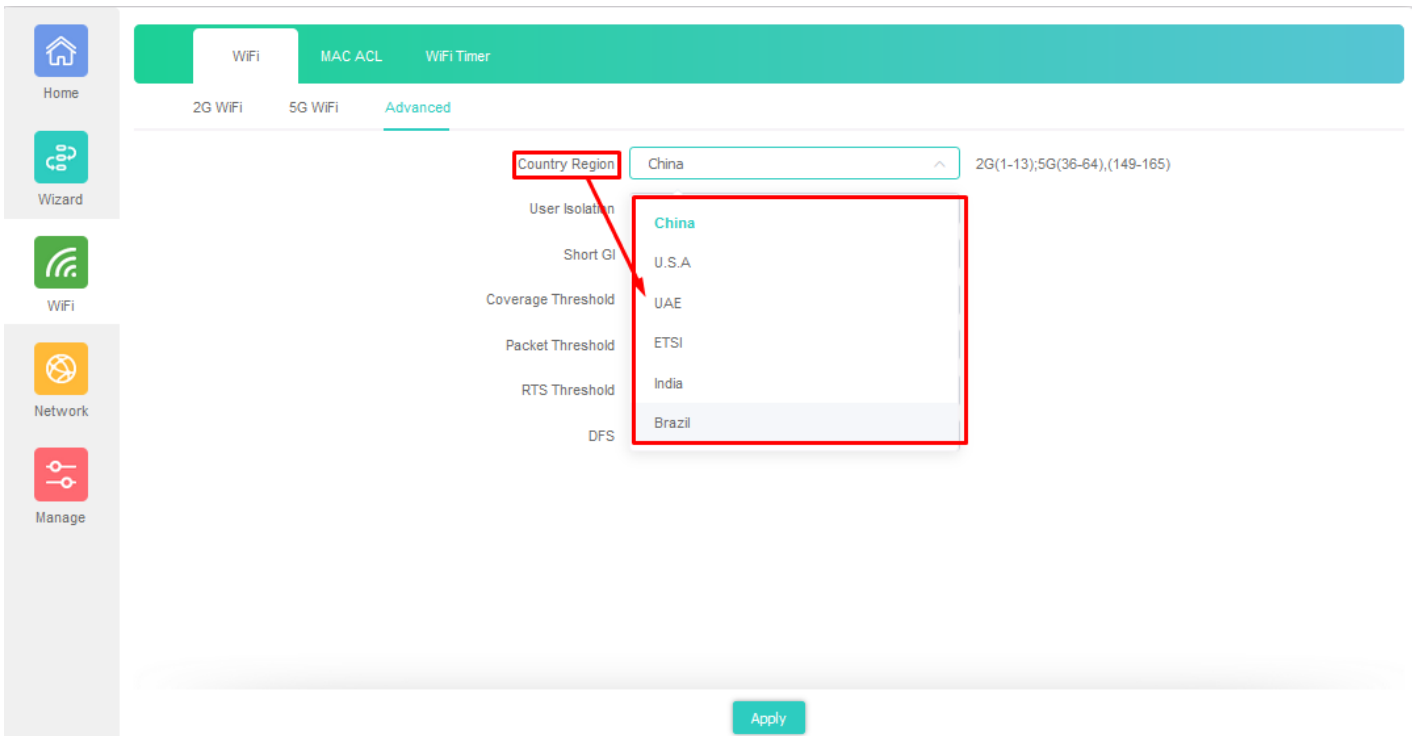


Fig 3.4.2 Selecting Country Region for AirONE AP1800AX-HD

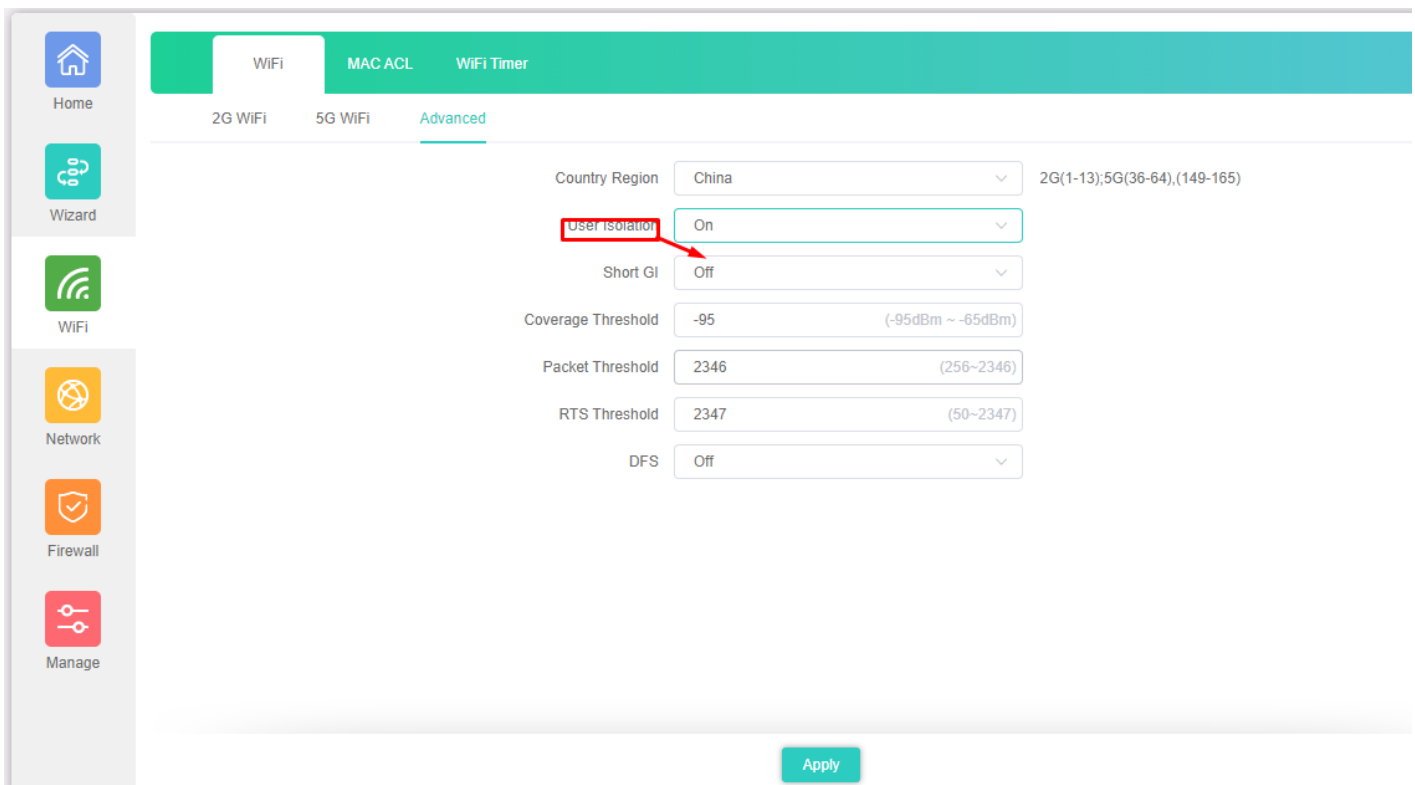


Fig 3.4.3 Selecting user Isolation for AirONE AP1800AX-HD

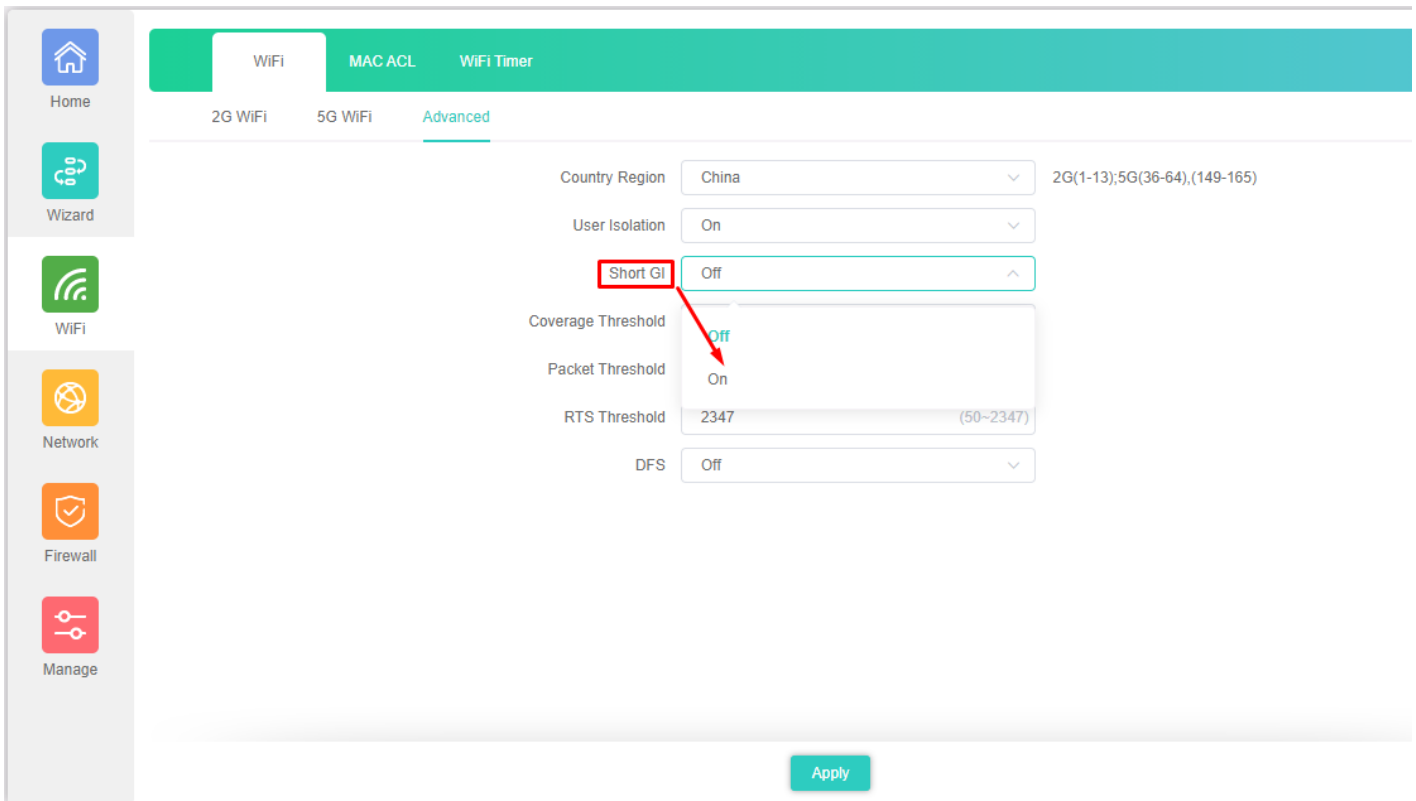


Fig 3.4.4 Selecting Short GI for AirONE AP1800AX-HD

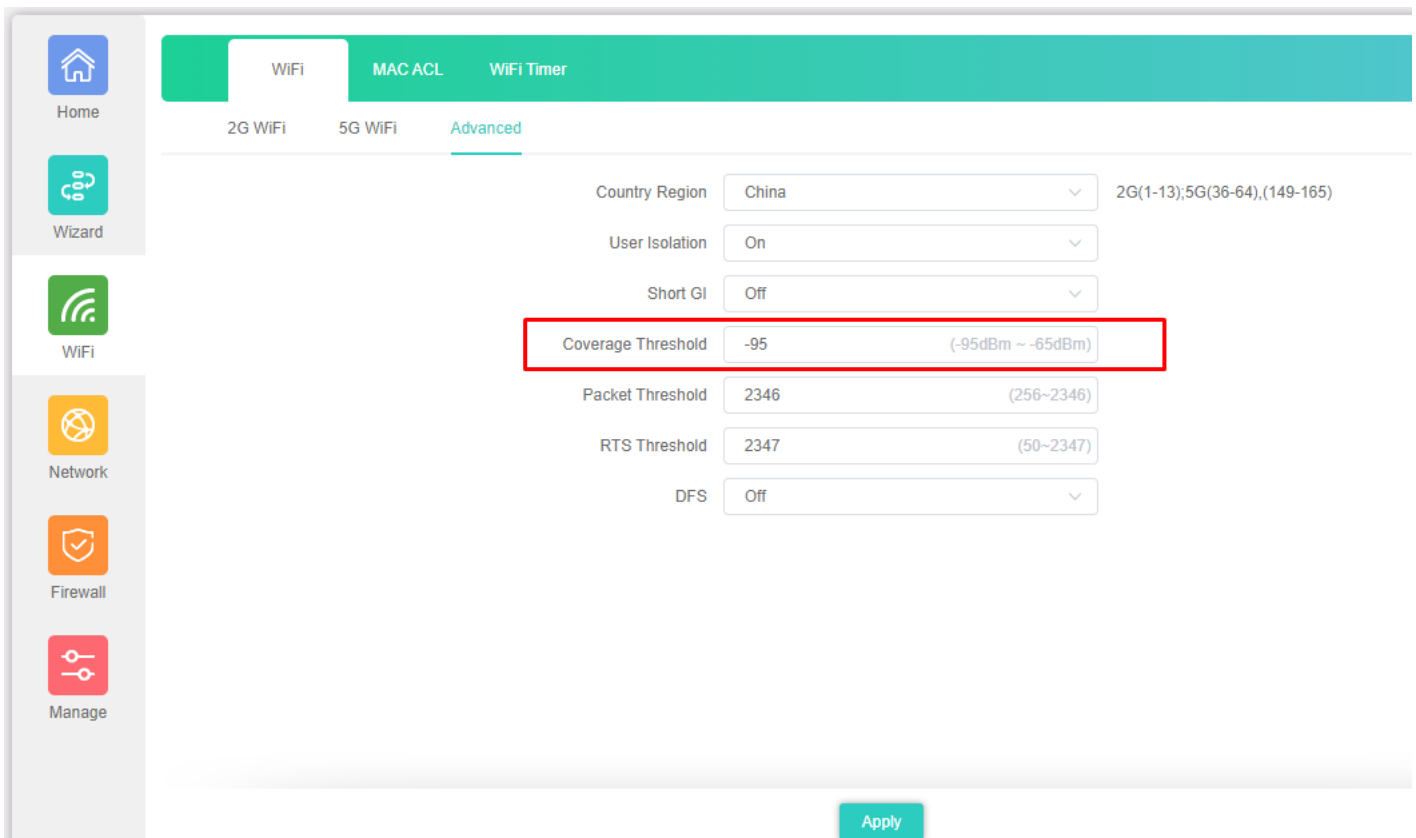


Fig 3.4.5 Selecting Coverage Threshold for AirONE AP1800AX-HD

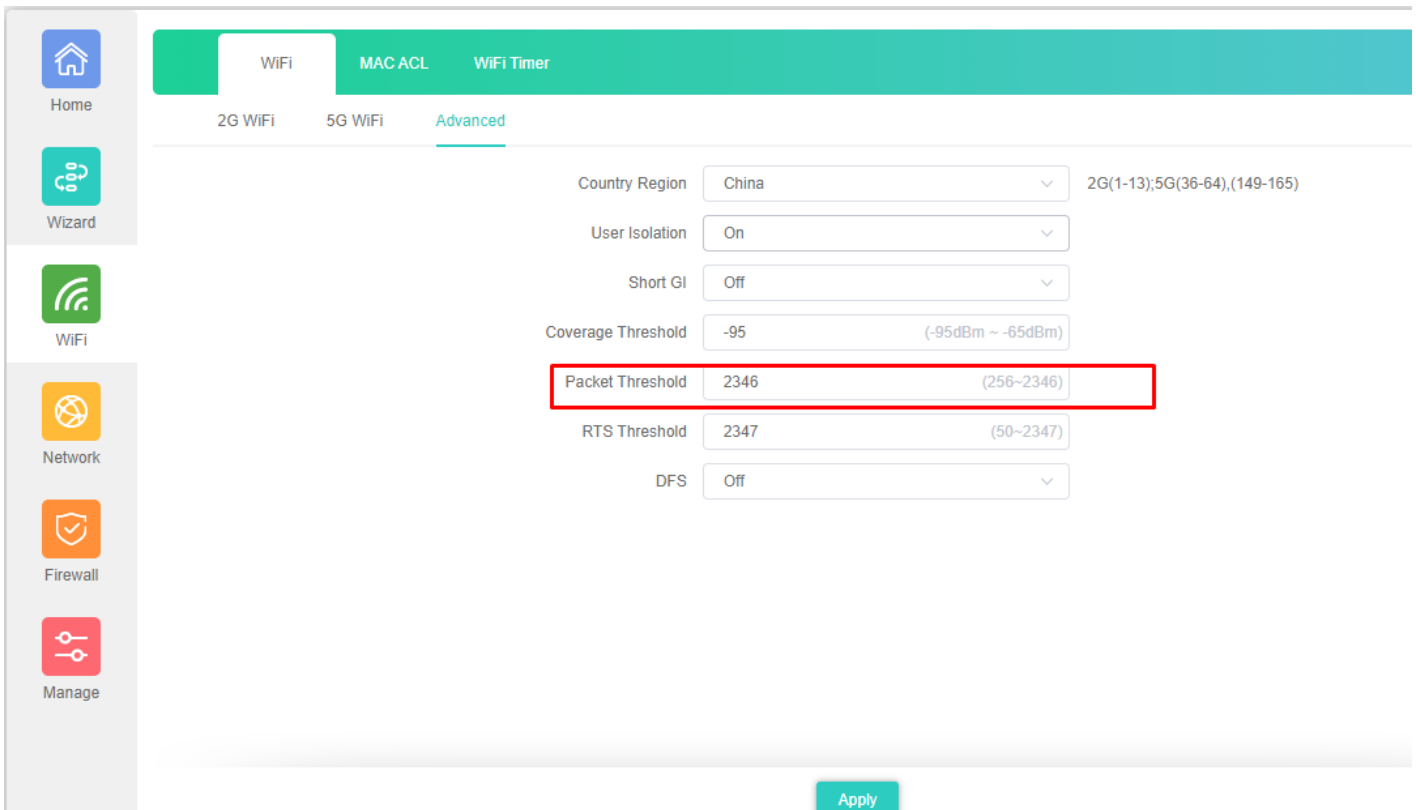


Fig 3.4.6 Setting Packet Threshold for AirONE AP1800AX-HD

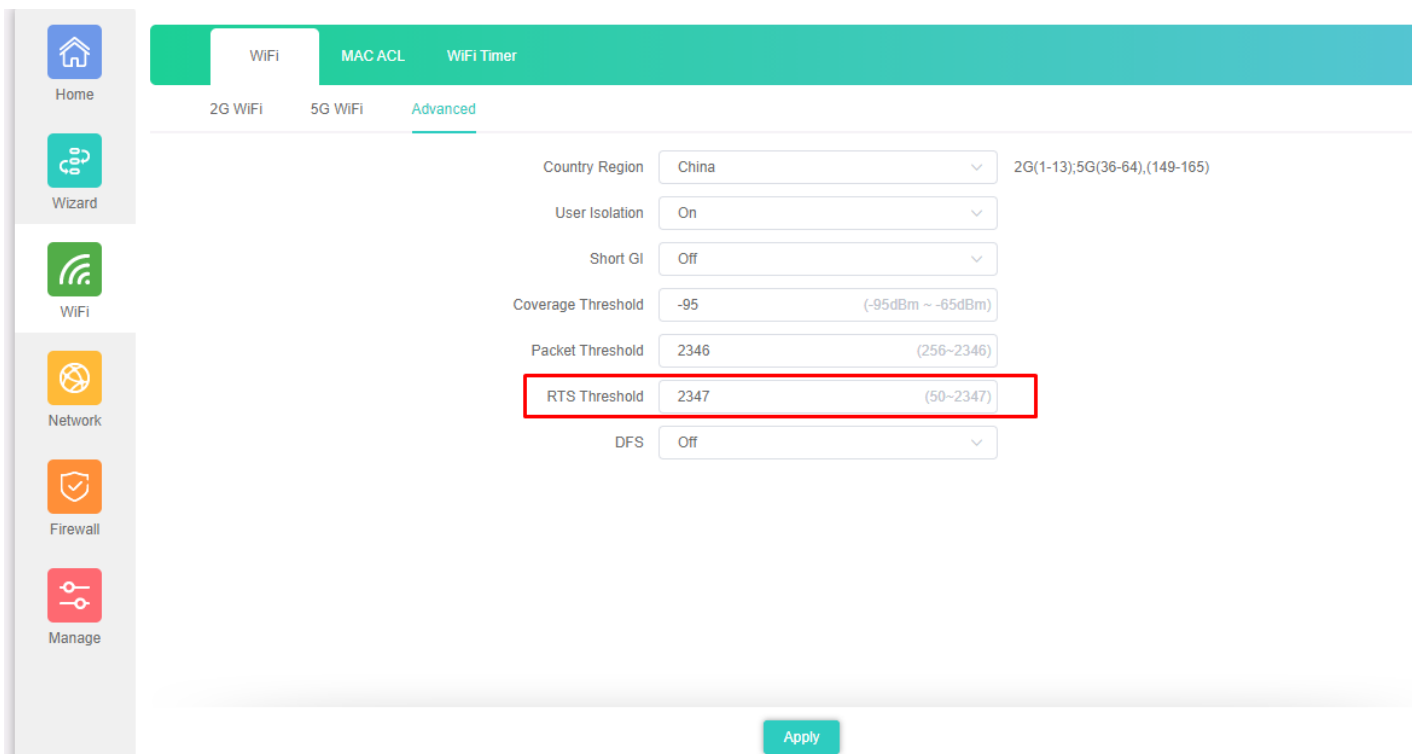


Fig 3.4.7 Setting RTS Threshold for AirONE AP1800AX-HD

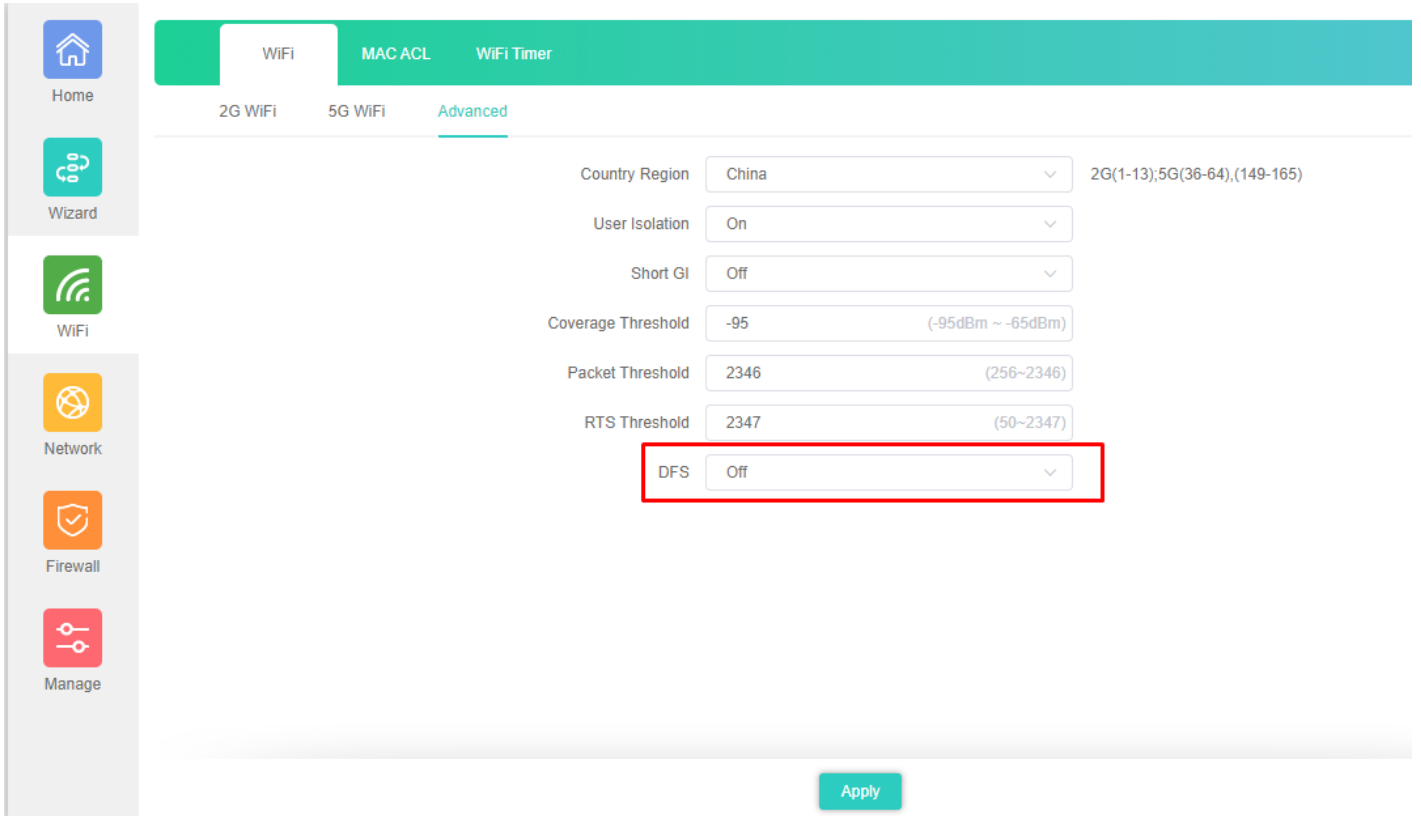


Fig 3.4.8 Selecting DFS for AirONE AP1800AX-HD

NETWORK

LAN Settings:

It can set Lan IP (Access IP), Subnet and STP along with DHCP Server, Start and maximum DHCP address, DHCP Lease Time and client list along with utilized IP count.

Static DHCP:

The DHCP Static IP Mapping feature enables assignment of static IP addresses with MAC address without taking IP addresses from DHCP pool with manual bindings.

WAN Settings:

You can set WAN Connect Method, MTU and DNS Manually along with Primary, Secondary DNS.

Cloud Server Settings: You can set Cloud server URL along with binding code.

URL Mapping:

URL mappings work for the new Portal installation. URL mapping redirection to particular website.

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

4.1 LAN Settings

IN LAN Setting you can set access IP for AP along with subnet. You can enable STP to avoid loops in network and preventing broadcast storms. You can set DHCP Server which acts as a network server that automatically provides and assigns IP addresses, default gateways and other network parameters to client devices. It relies on the standard protocol known as Dynamic Host Configuration Protocol or DHCP to respond to broadcast queries by clients.

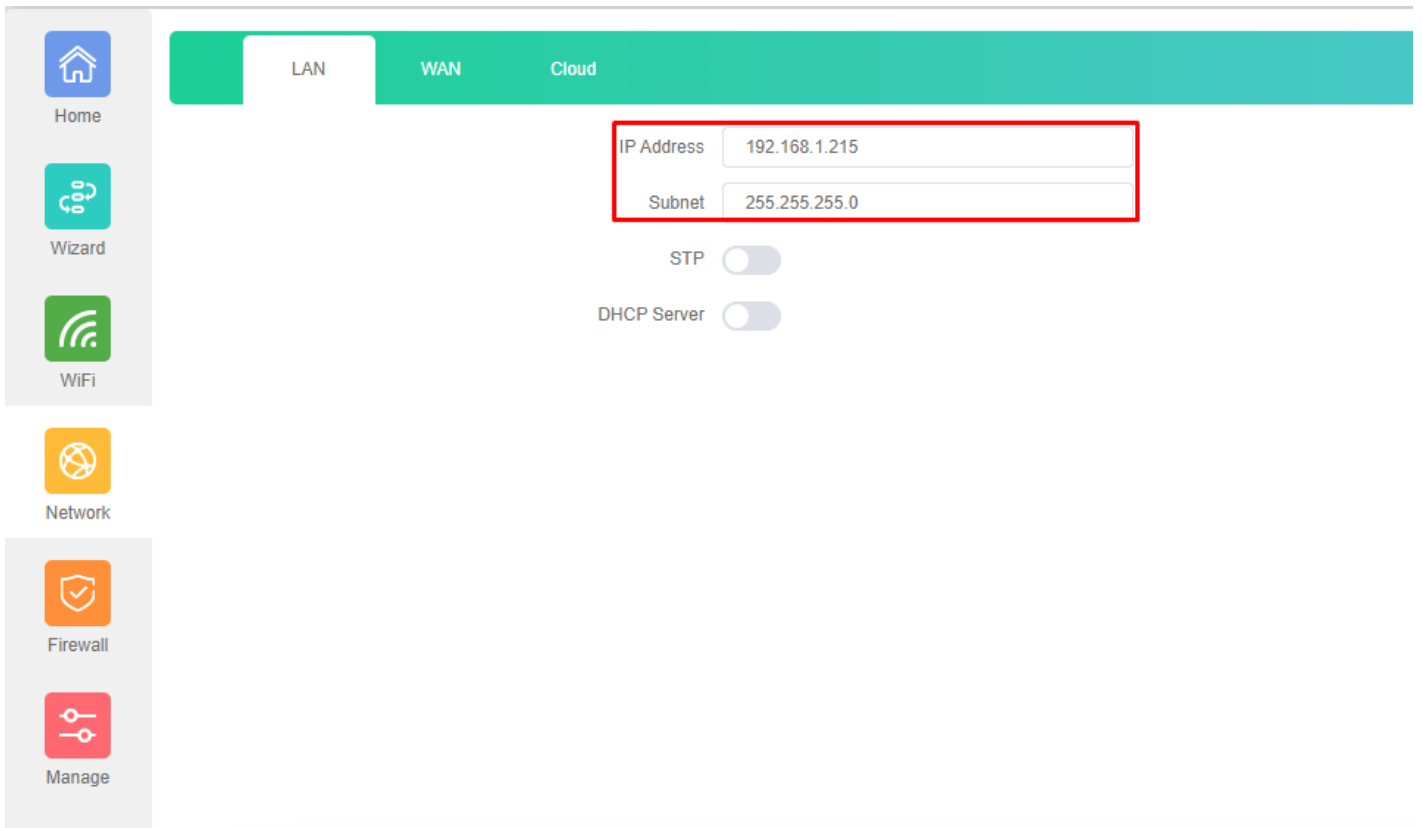


Fig 4.1.1 Setting LAN IP which used as access IP for AirONE AP1800AX-HD

STP:

The Spanning Tree Protocol (STP) is a network protocol that builds a loop-free logical topology for Ethernet networks. The Spanning Tree Protocol (STP) is responsible for identifying links in the network and shutting down the redundant ones, preventing possible network loops. The purpose of STP is to allow redundant connection between devices while ensuring a loop-free topology for a LAN. It can also automatically re-enable redundant paths as backup paths in case the active path fails.

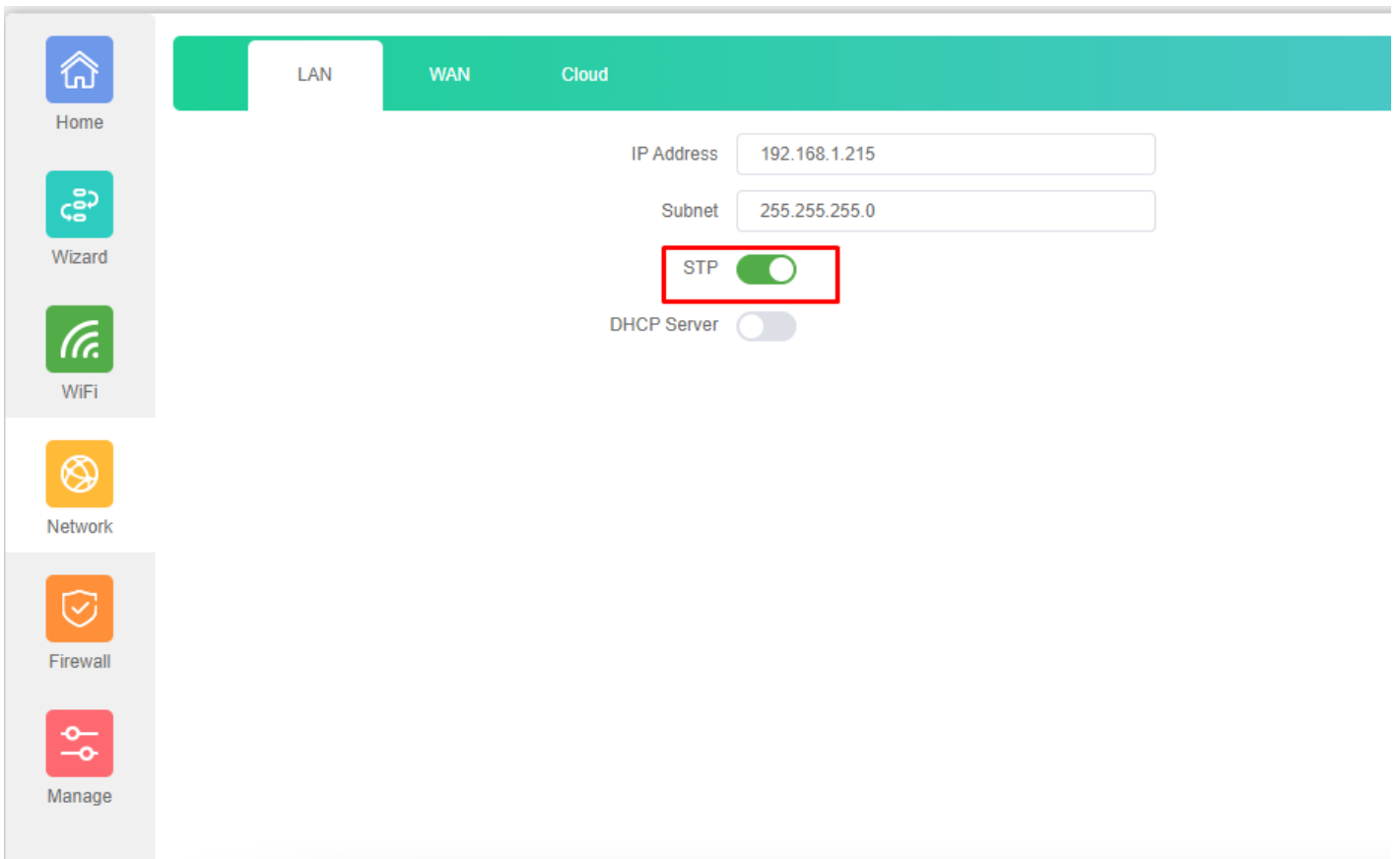


Fig 4.1.2 Enabling STP for AirONE AP1800AX-HD

DHCP Server:

A DHCP Server is a network server that automatically provides and assigns IP addresses to wireless client devices. It relies on the standard protocol known as Dynamic Host Configuration Protocol or DHCP to respond to broadcast queries by clients.

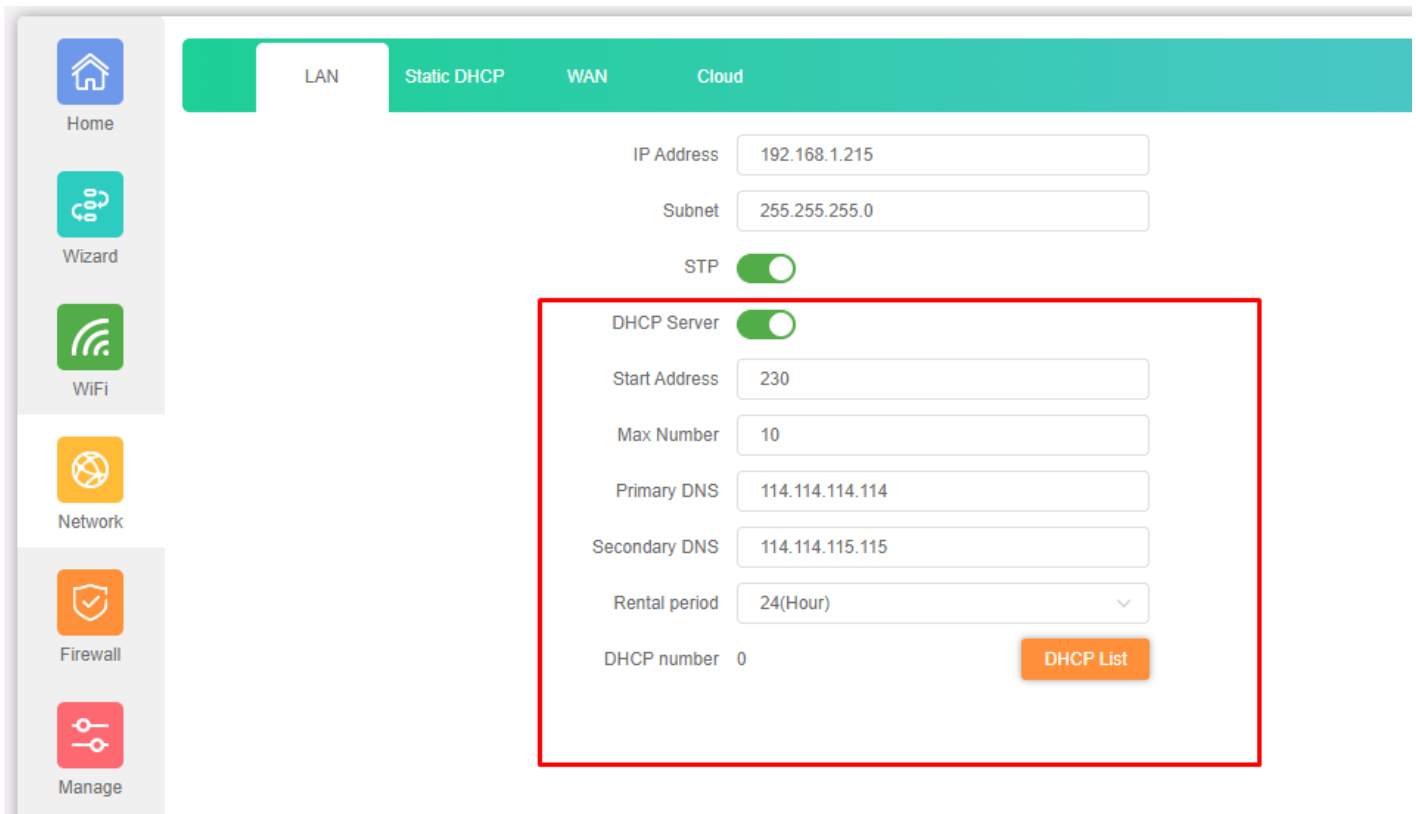


Fig 4.1.3 Setting DHCP for AirONE AP1800AX-HD

4.2 Static DHCP Setting

A static IP address binding is ultimately set by an administrator and does not change. Although DHCP stands for dynamic host configuration protocol, you can still set up static IP addresses using DHCP. This allows the network server to always get the same IP even after it reboots, without dynamically assigning the IP. The DHCP Static IP Mapping feature enables assignment of static IP addresses with MAC address without taking IP addresses from DHCP pool with manual bindings. Compatible ARP binding list is statically assigned.

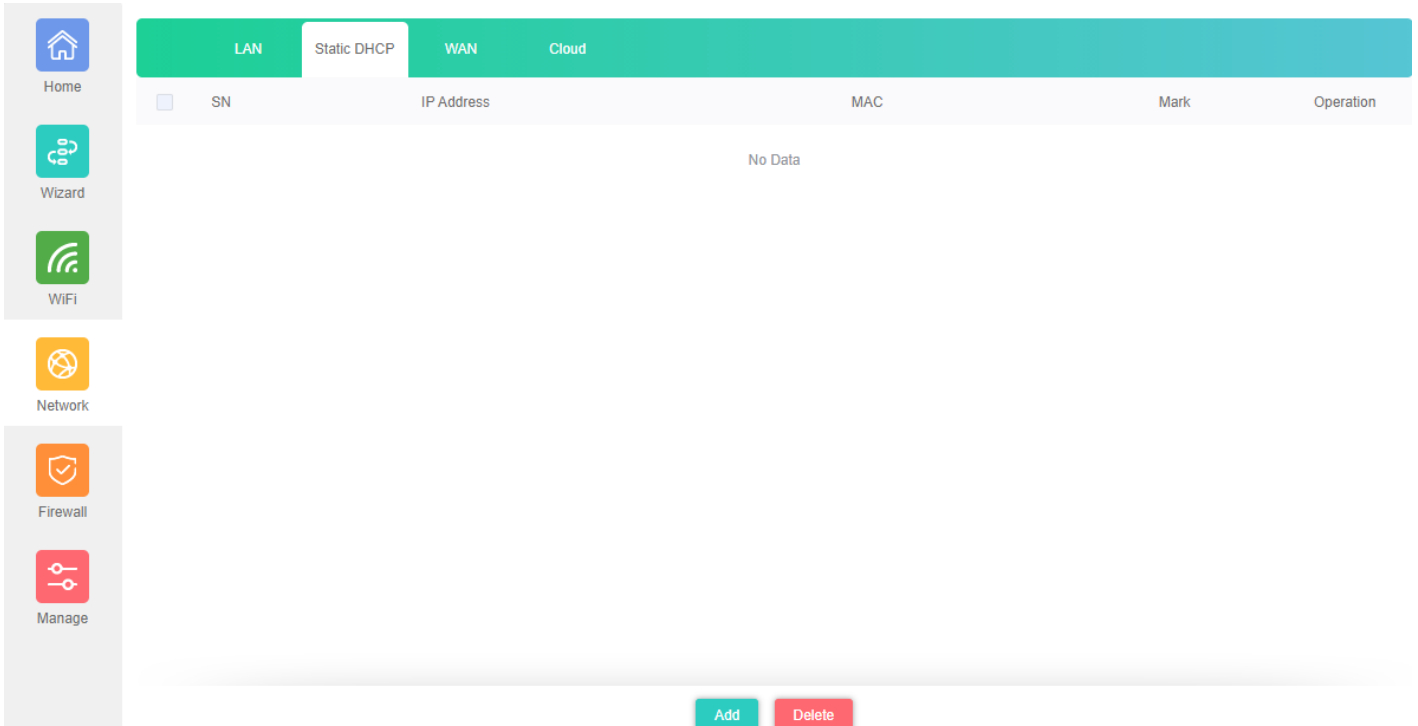


Fig 4.2.1 Default Static DHCP for AirONE AP1800AX-HD

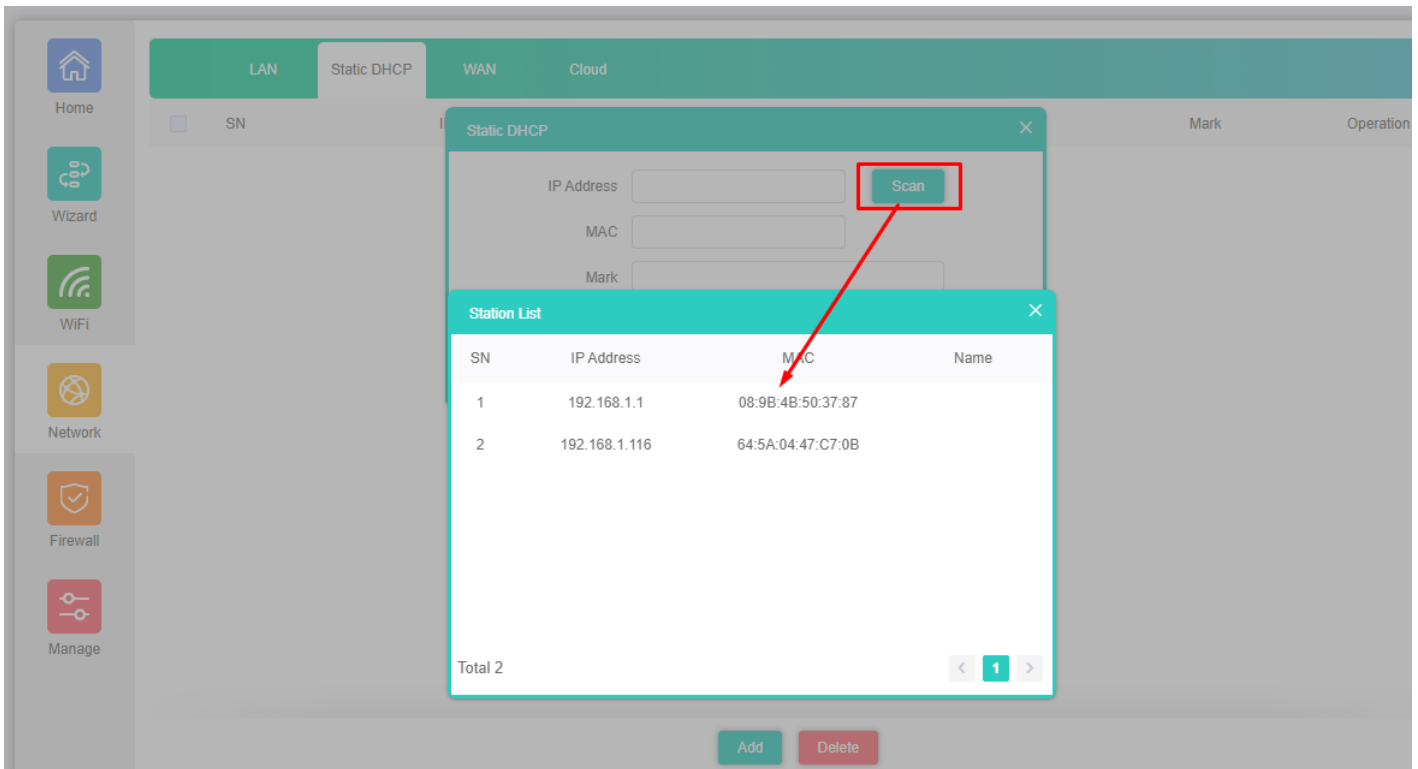


Fig 4.2.2 Station list for AirONE AP1800AX-HD

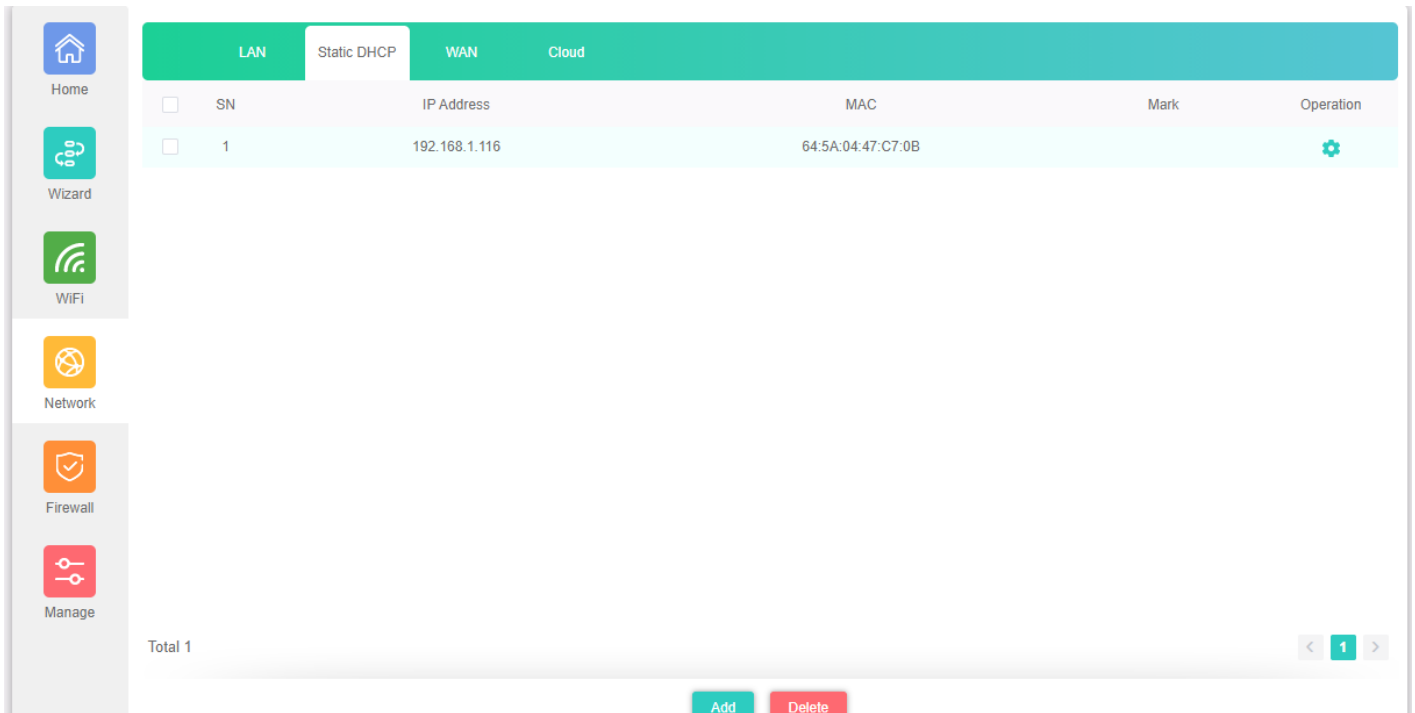


Fig 4.2.3 Static DHCP for AirONE AP1800AX-HD

4.3 WAN Settings

You can set WAN Connect Method, MTU and DNS Manually along with Primary, Secondary DNS.

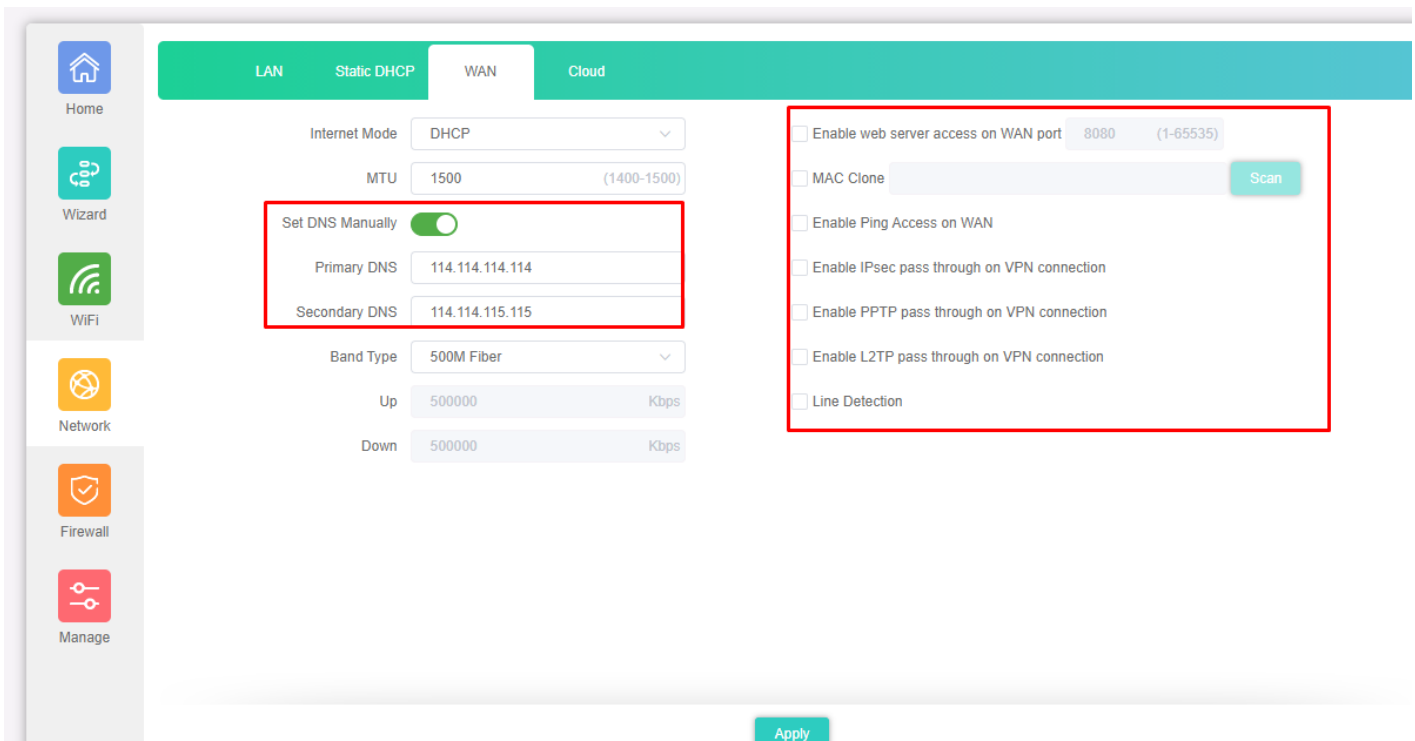


Fig 4.3.1 Default WAN Setting for AirONE AP1800AX-HD

4.4 Cloud Server Setting

A cloud-managed access point or networking solution allows business owners to manage

Wi-Fi and network infrastructure over the cloud with zero maintenance charges, centralize control painlessly. This means businesses can connect to the cloud by subscribing freely or pay-as-you-go, on-demand model.

Note: This function is currently not available.

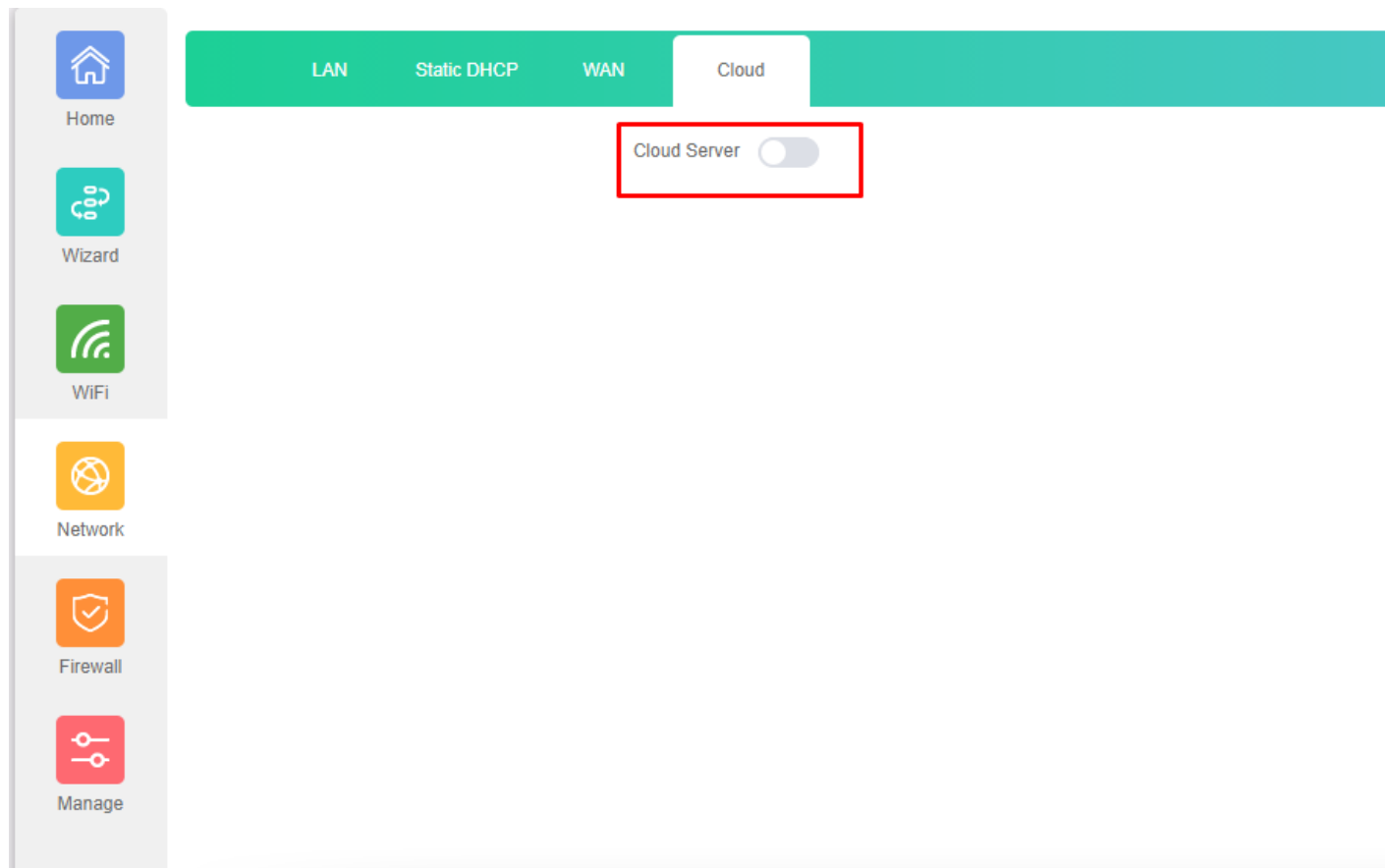


Fig 4.4.1 Default Cloud server setting for AirONE AP1800AX-HD

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.

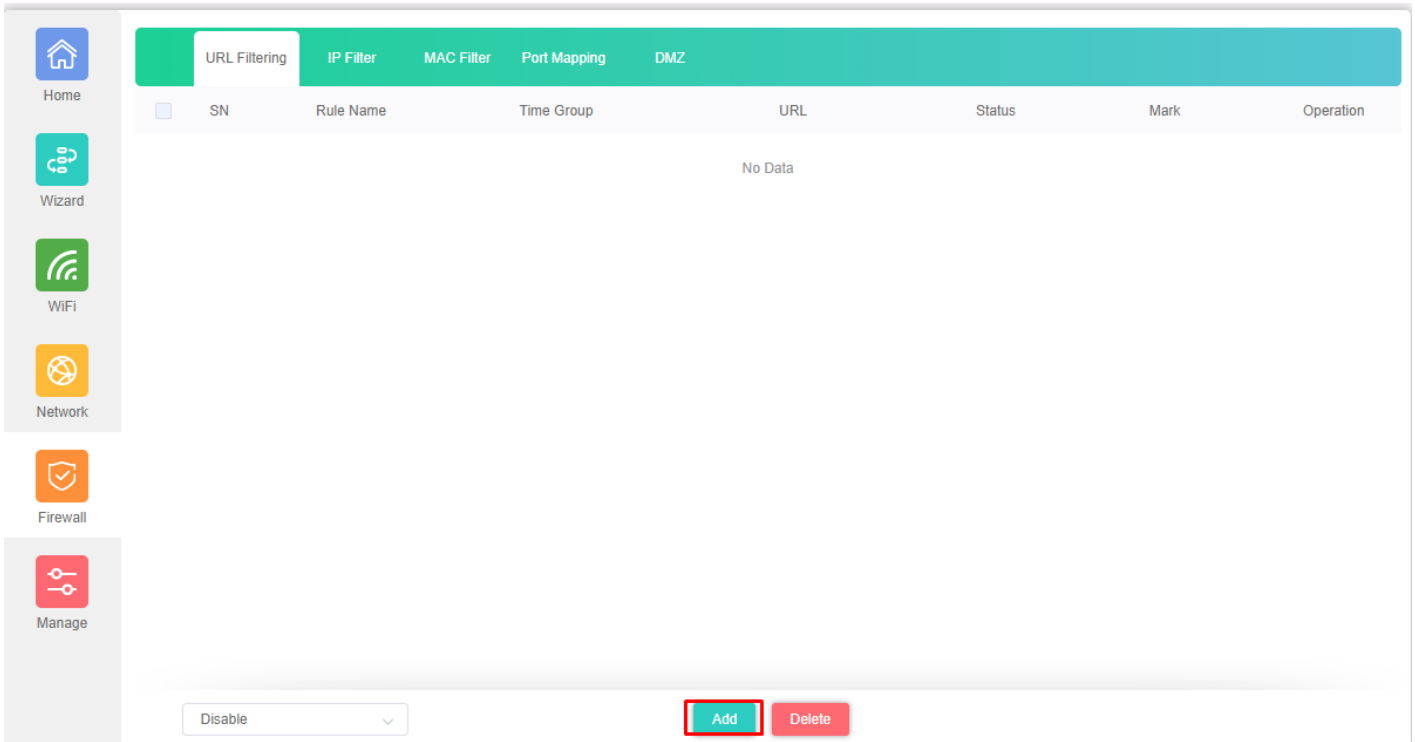


Fig 5.1.1 Default URL filter setting for AirONE AP1800AX-HD

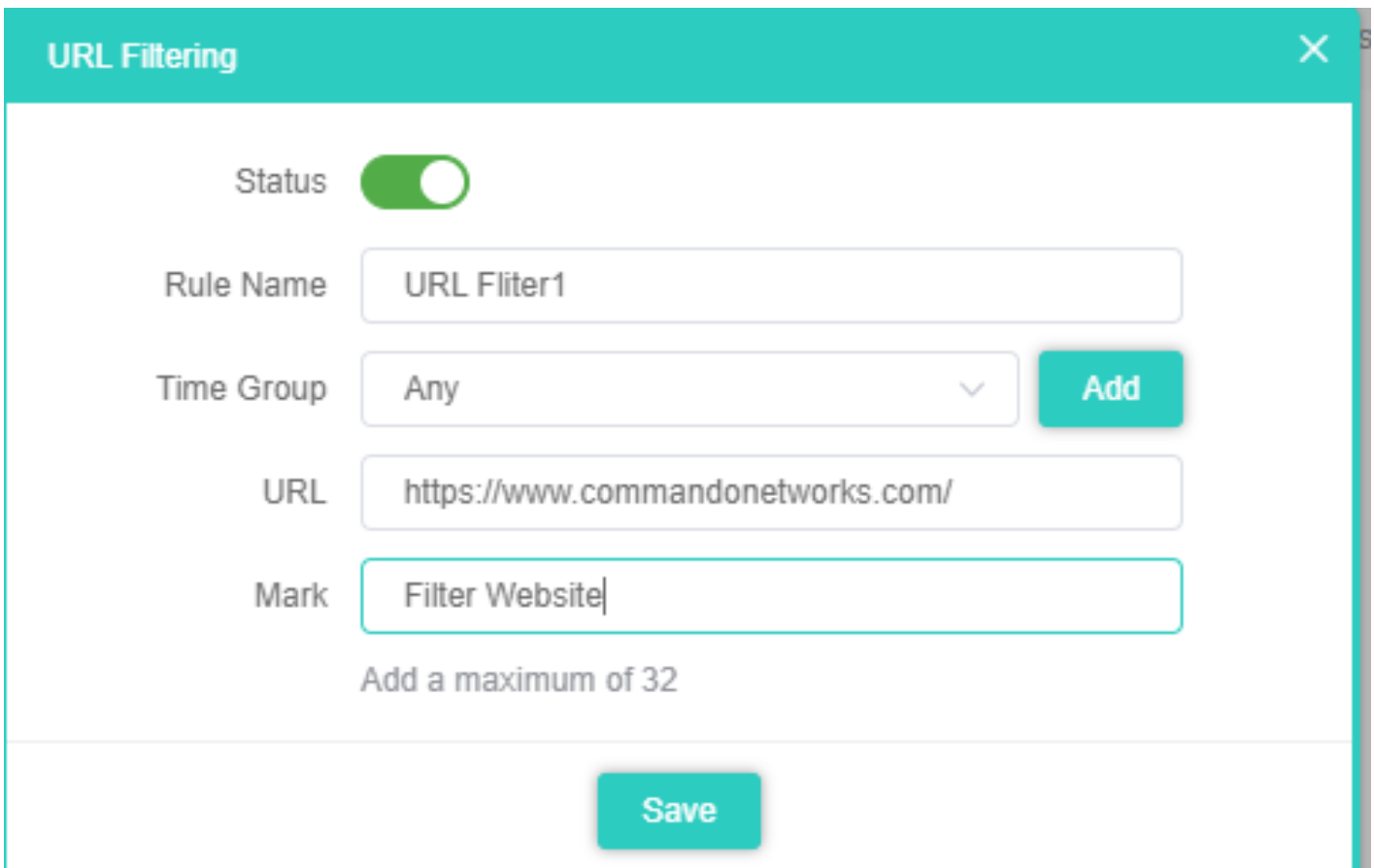


Fig 5.1.2 Setting URL filter for AirONE AP1800AX-HD

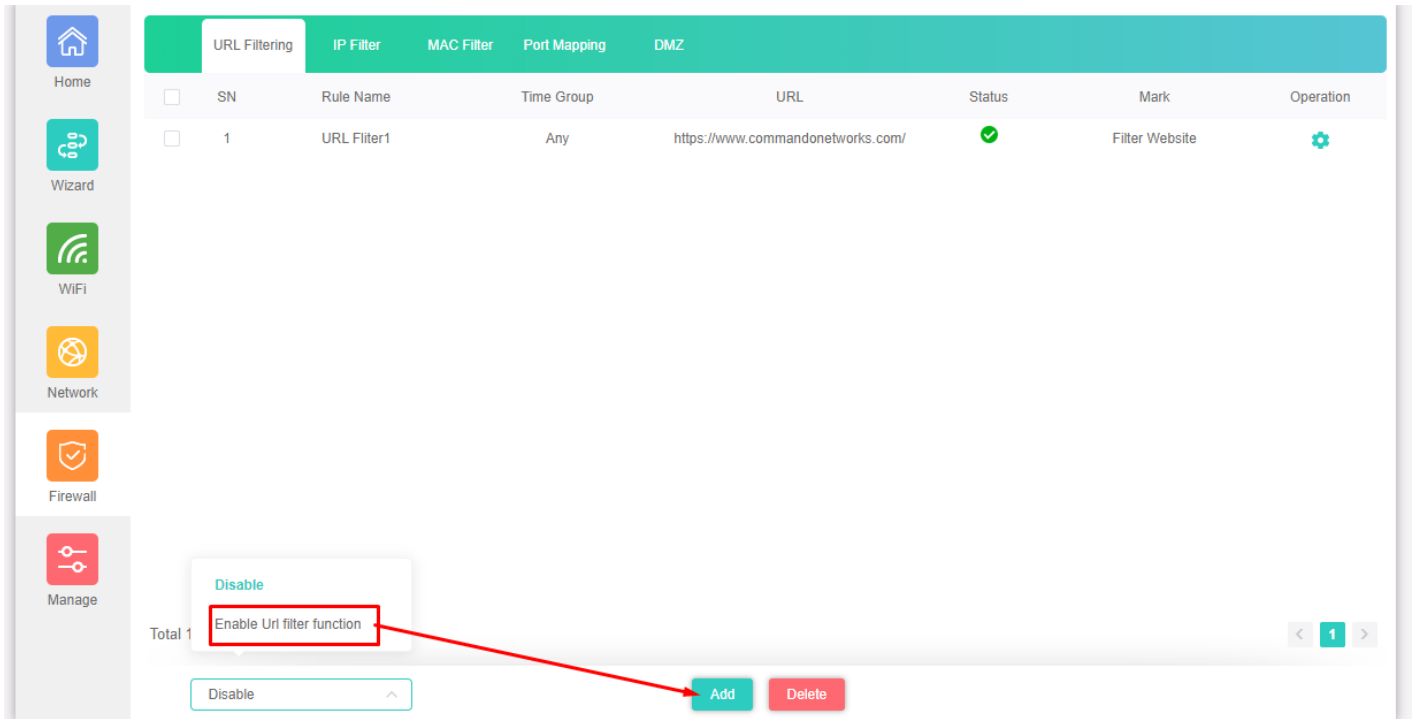


Fig 5.1.3 URL filter setting for AirONE AP1800AX-HD

5.2 IP Filter Settings

IP Filter bars filter IP to access the AP SSID.

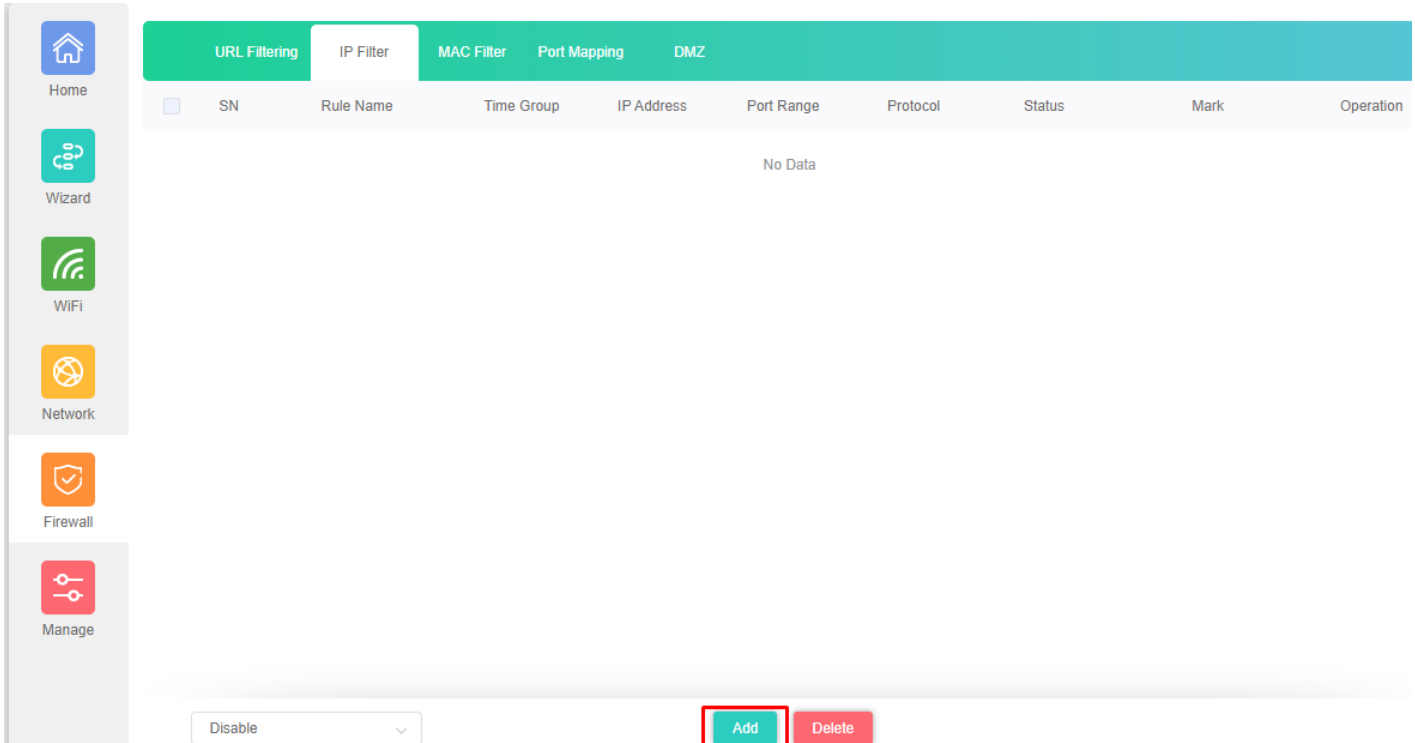


Fig 5.2.1 Default IP filter setting for AirONE AP1800AX-HD

IP Filter
✕

Status

Rule Name

Time Group Add

IP Group Add

IP Address - Scan

Port Range - No empty,range:1-65535

Protocol

Mark

Add a maximum of 32

Save

Fig 5.2.2 Setting IP filter for AirONE AP1800AX-HD

- Home
- Wizard
- WiFi
- Network
- Firewall
- Manage

URL Filtering
IP Filter
MAC Filter
Port Mapping
DMZ

	SN	Rule Name	Time Group	IP Address	Port Range	Protocol	Status	Mark	Operation
<input type="checkbox"/>	1	IP filter	Any	Custom	80 - 65111	TCP	✔	IP filter for user	

Total 1

Disable
Allows the device to pass in the rule
Prohibited rules within the device through

Add
Delete

Fig 5.2.3 IP filter setting for AirONE AP1800AX-HD

5.3 MAC Filter Settings

MAC Filter bars filter MAC to access the AP SSID.

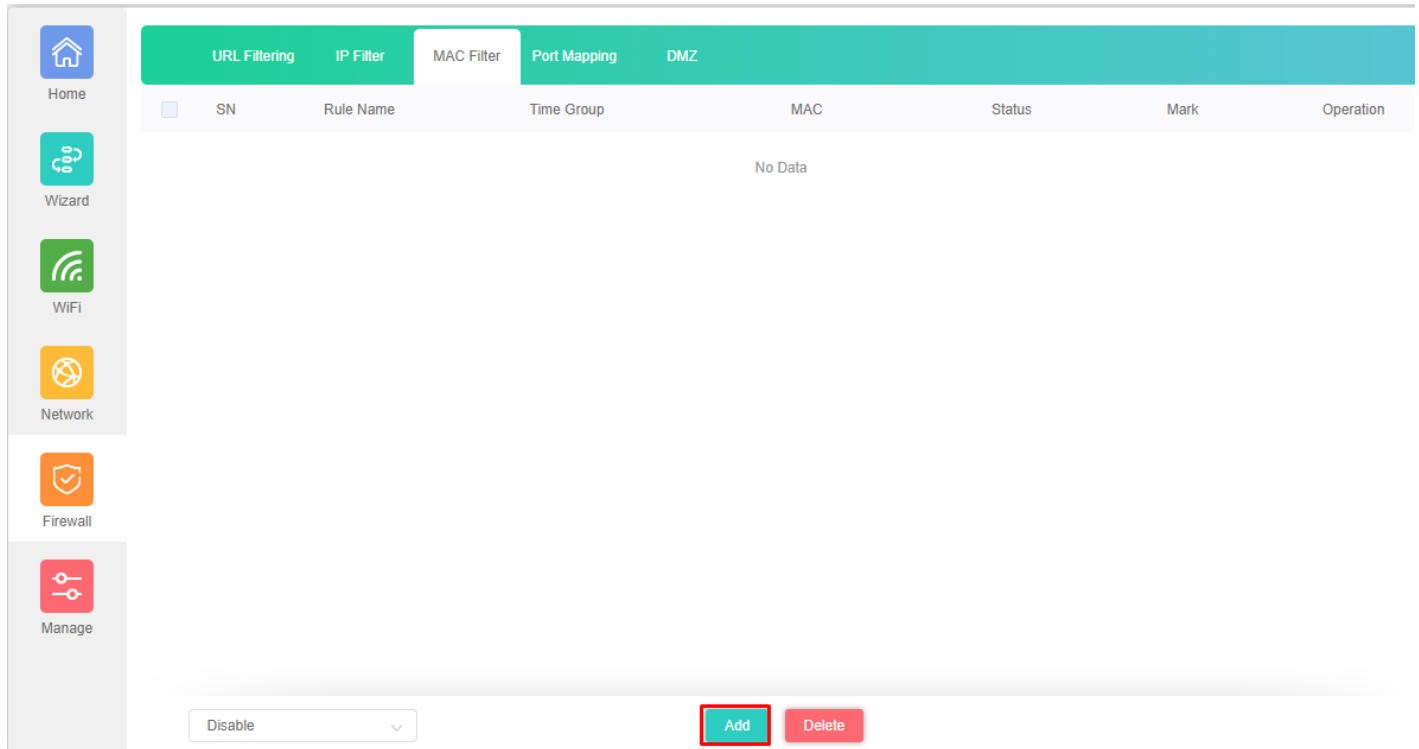


Fig 5.3.1 Default MAC filter setting for AirONE AP1800AX-HD

MAC Filter ✕

Status

Rule Name

Time Group Add

MAC Scan

Mark

Add a maximum of 32

Save

Fig 5.3.2 Setting MAC filter for AirONE AP1800AX-HD

- Home
- Wizard
- WiFi
- Network
- Firewall
- Manage

URL Filtering		IP Filter		MAC Filter		Port Mapping		DMZ		
SN	Rule Name	Time Group	MAC	Status	Mark	Operation				
<input type="checkbox"/>	1	MAC filter for User	Any	64:5A:04:47:C7:0B	✓	MAC filter	⚙️			

Disable
Allows the device to pass in the rule
Prohibited rules within the device through

Add
Delete

Fig 5.3.3 MAC filter setting for AirONE AP1800AX-HD

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.

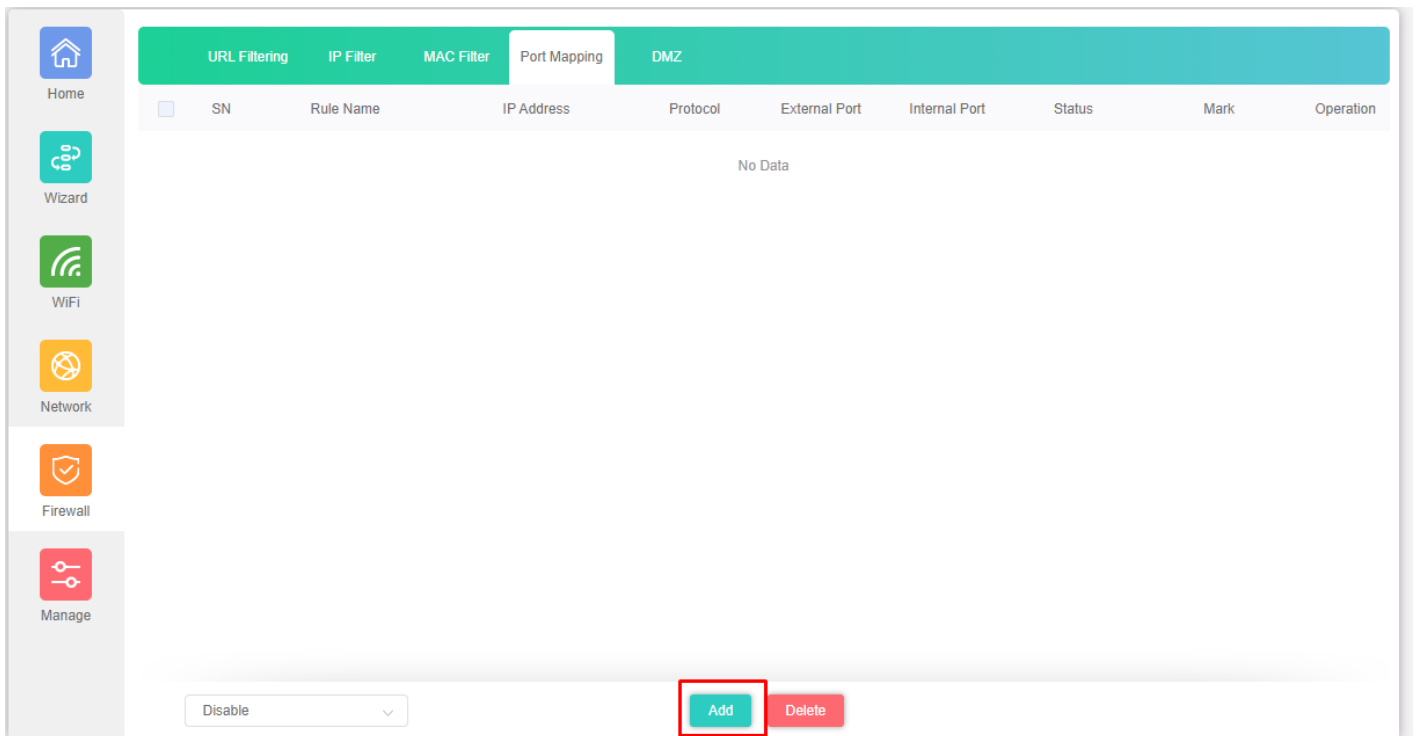


Fig 5.4.1 Default Security setting for AirONE AP1800AX-HD

Port Mapping ✕

Status

Rule Class User Defined ▼

Rule Name Map Ports

Protocol TCP+UDP ▼

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-HD

- Home
- Wizard
- WiFi
- Network
- Firewall
- Manage

URL Filtering
IP Filter
MAC Filter
Port Mapping
DMZ

	SN	Rule Name	IP Address	Protocol	External Port	Internal Port	Status	Mark	Operation
<input type="checkbox"/>	1	Map Ports	192.168.1.116	TCP+UDP	64850 - 65000	10 - 5000	✔	Mapping ports	⚙

Total 1

Disable
Enable Port Mapping Function

Add
Delete

Fig 5.4.3 Security setting for AirONE AP1800AX-HD

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.

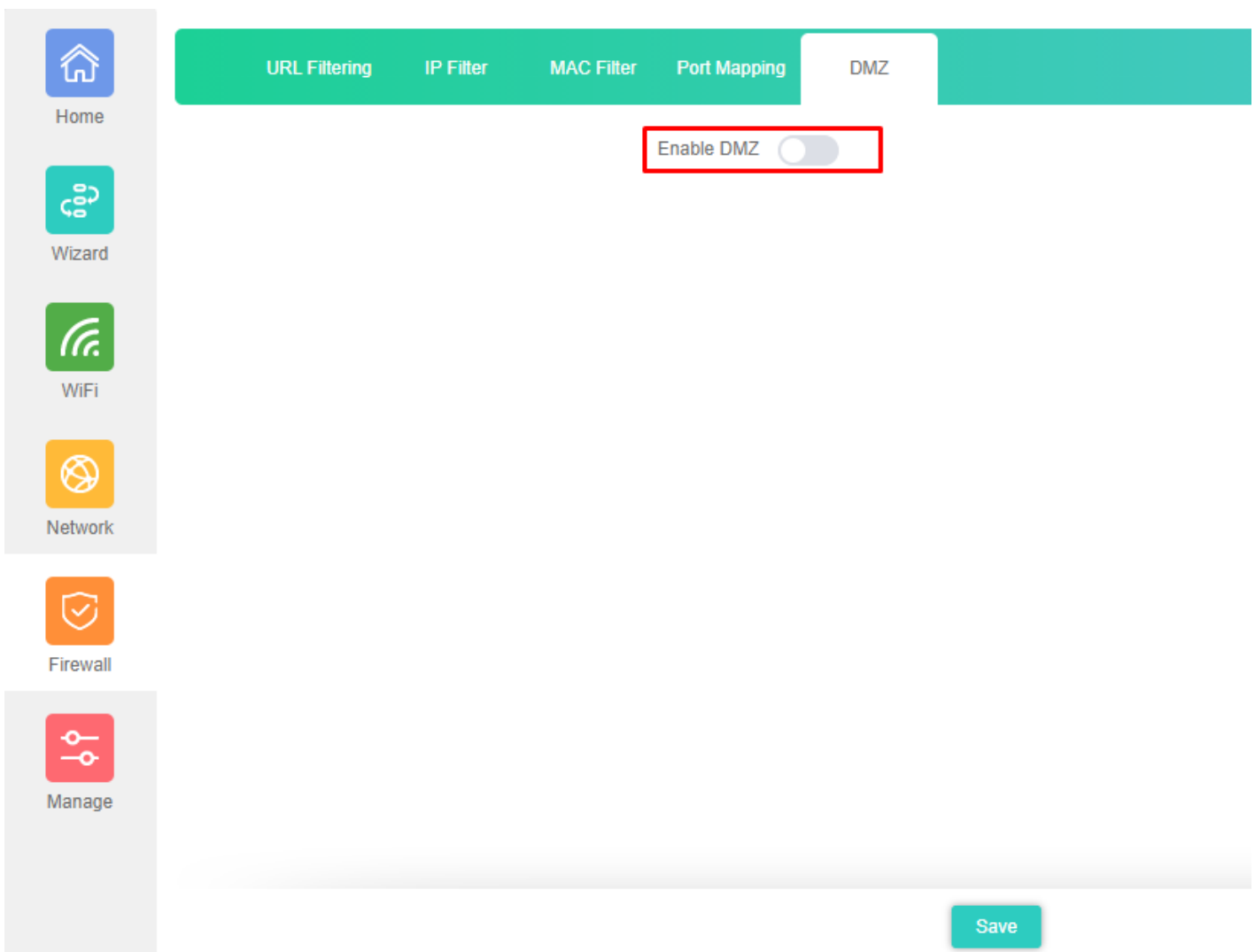


Fig 5.5.1 Default DMZ setting for AirONE AP1800AX-HD

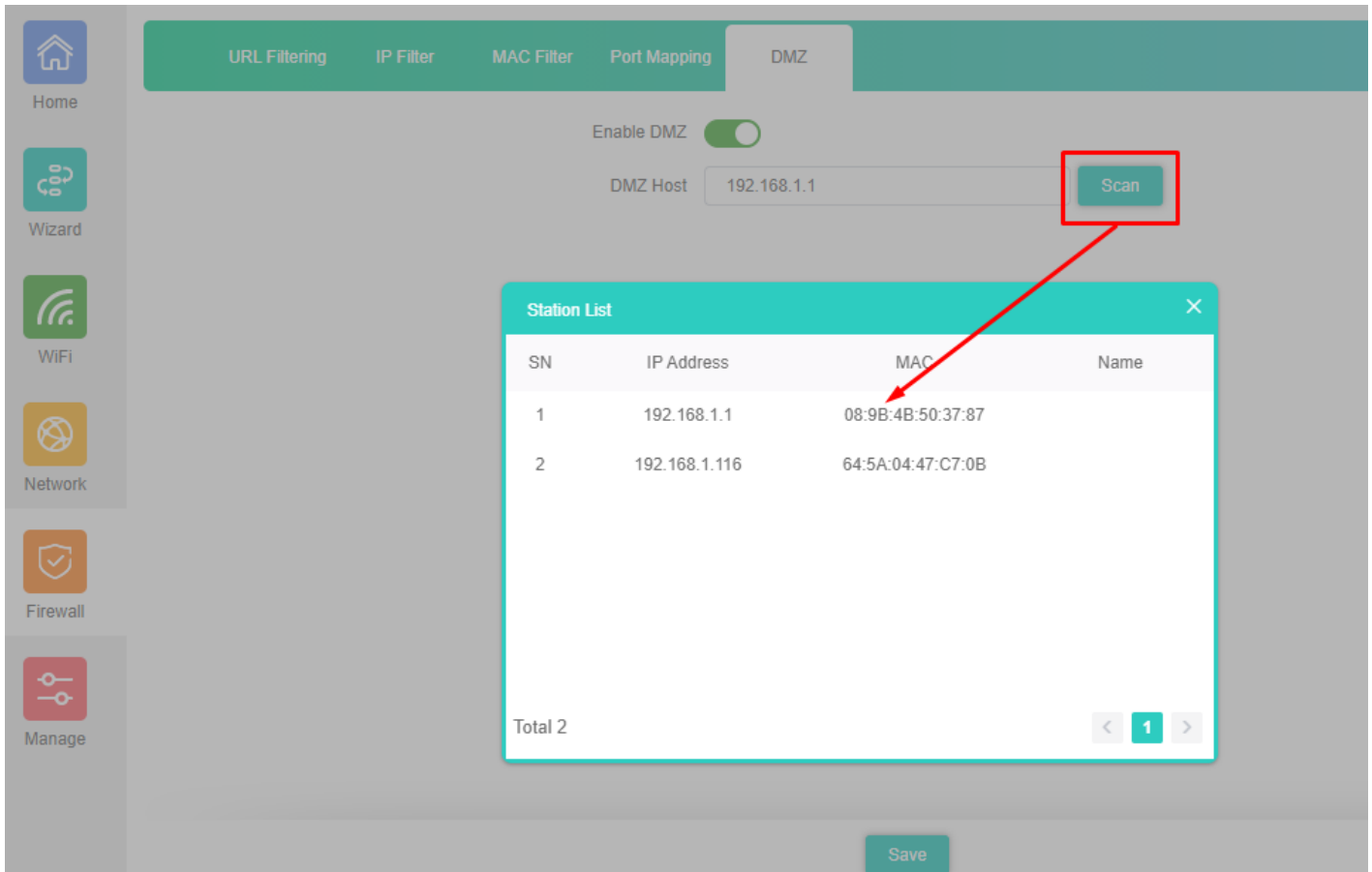


Fig 5.5.2 DMZ setting for AirONE AP1800AX-HD

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.

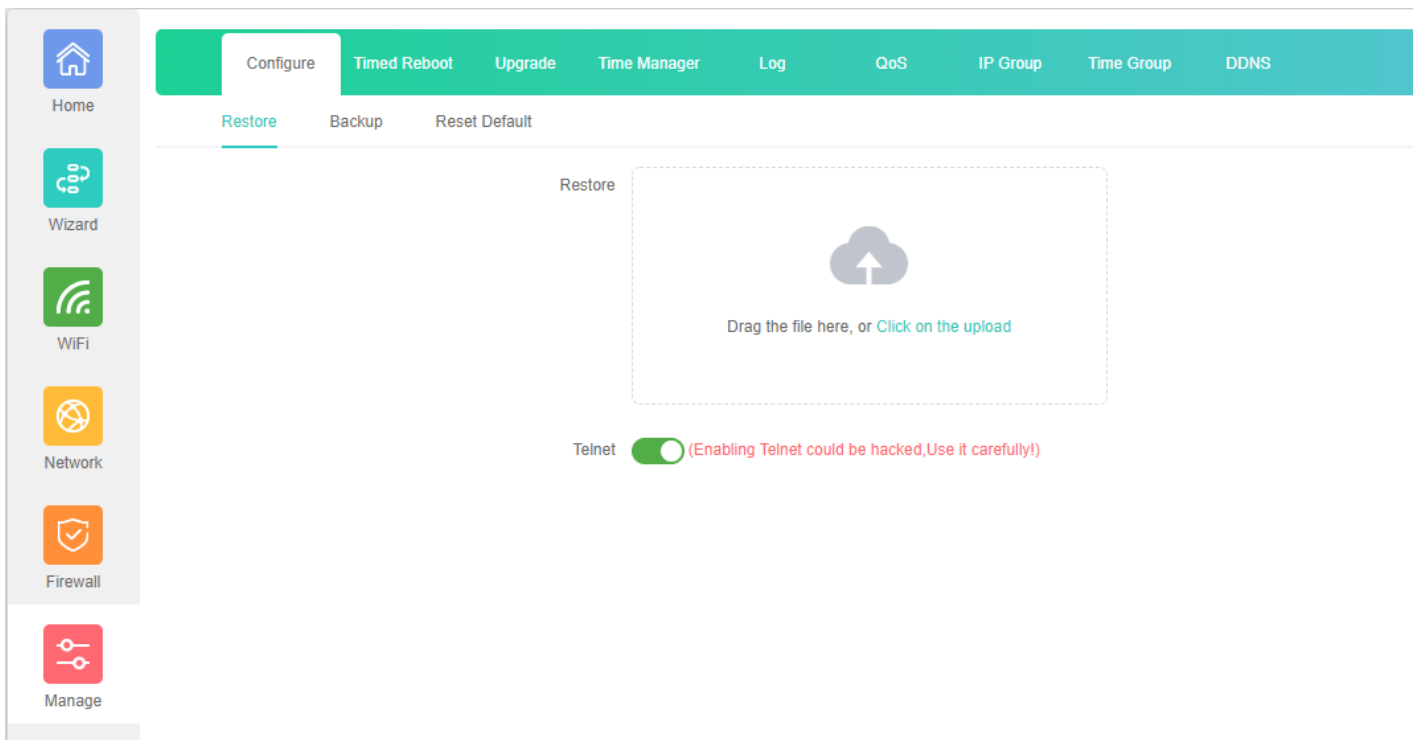


Fig 6.1.1 Default Configure setting for AirONE AP1800AX-HD

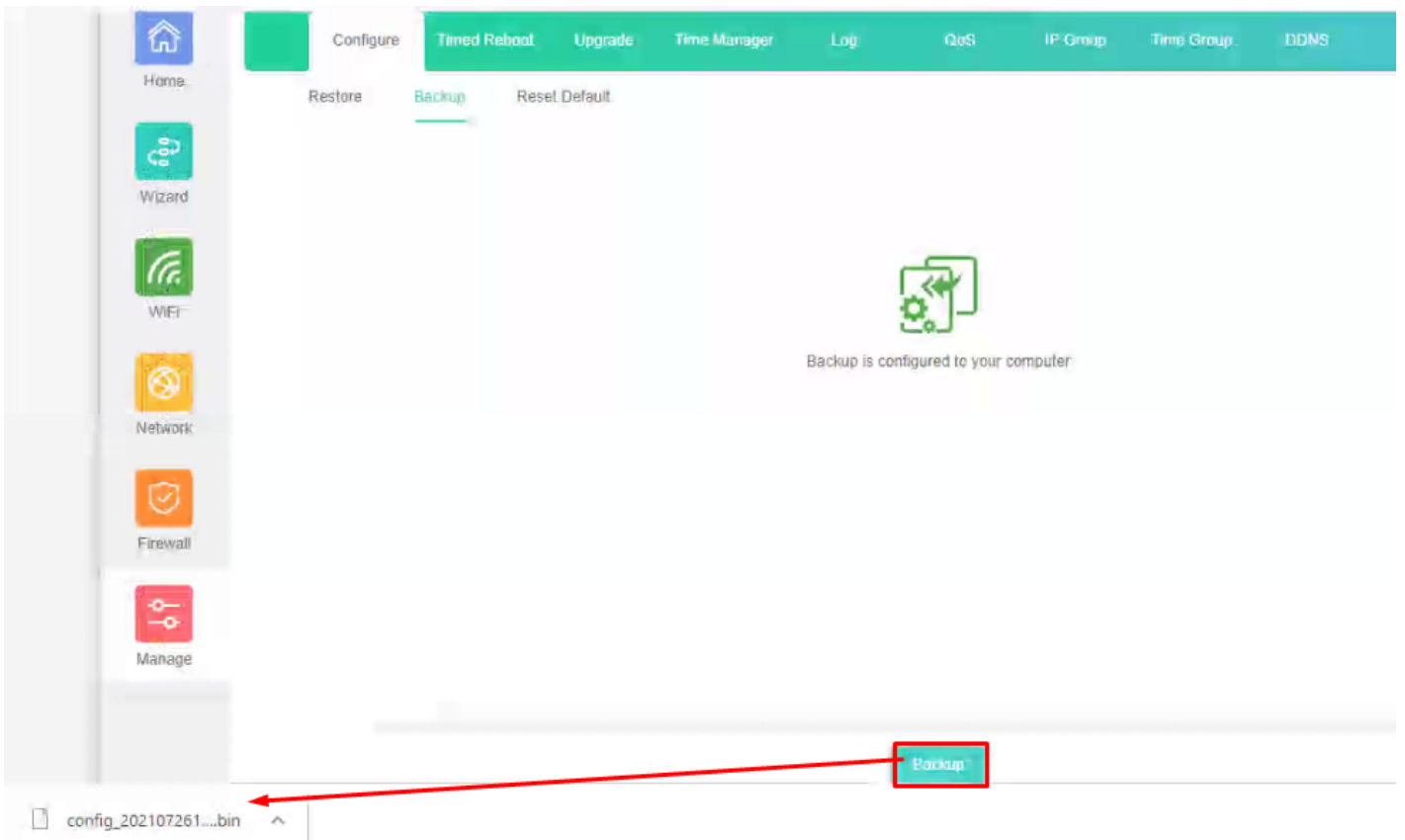


Fig 6.1.2 Taking backup of AirONE AP1800AX-HD

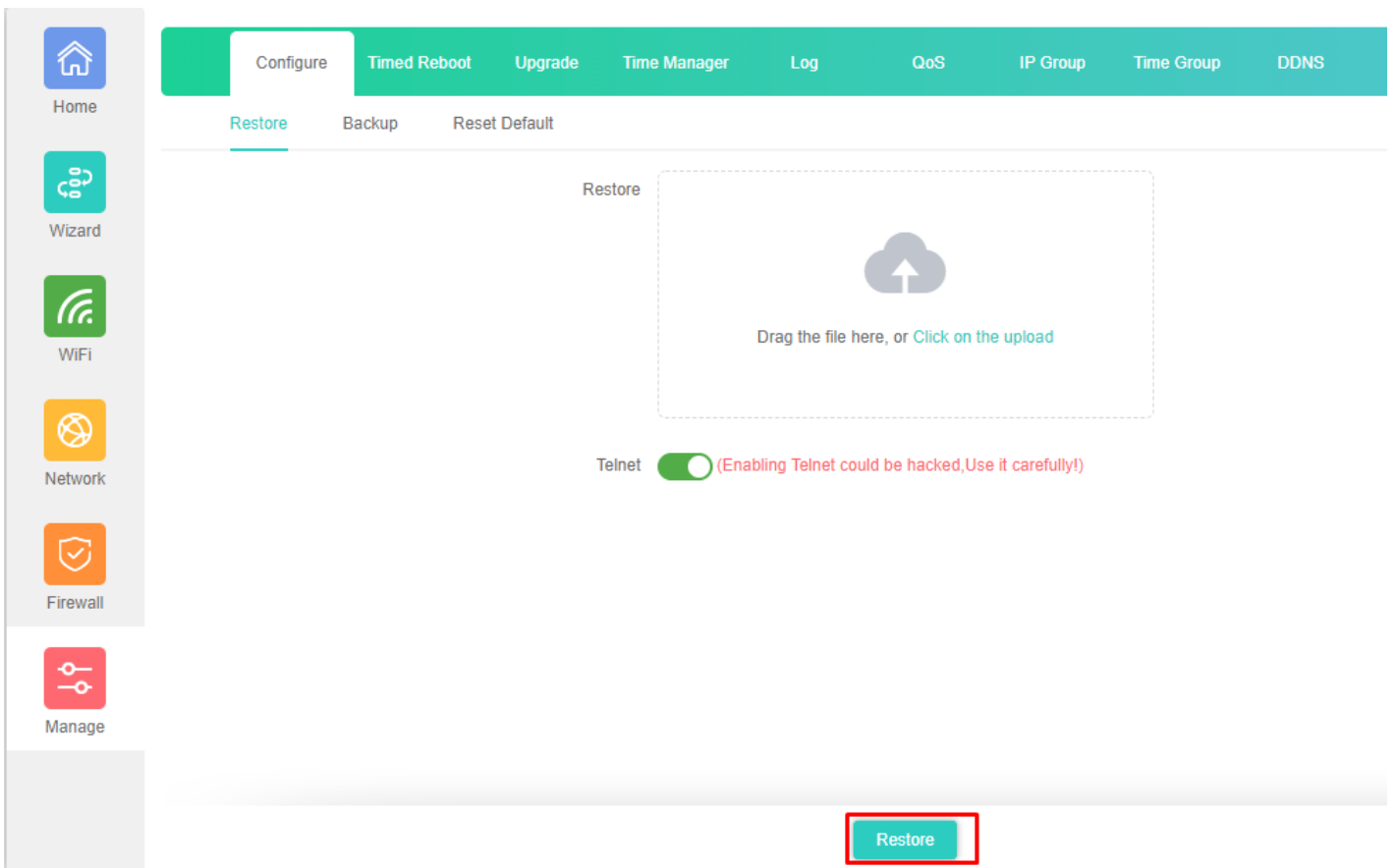


Fig 6.1.3 Restore to known Configure for AirONE AP1800AX-HD

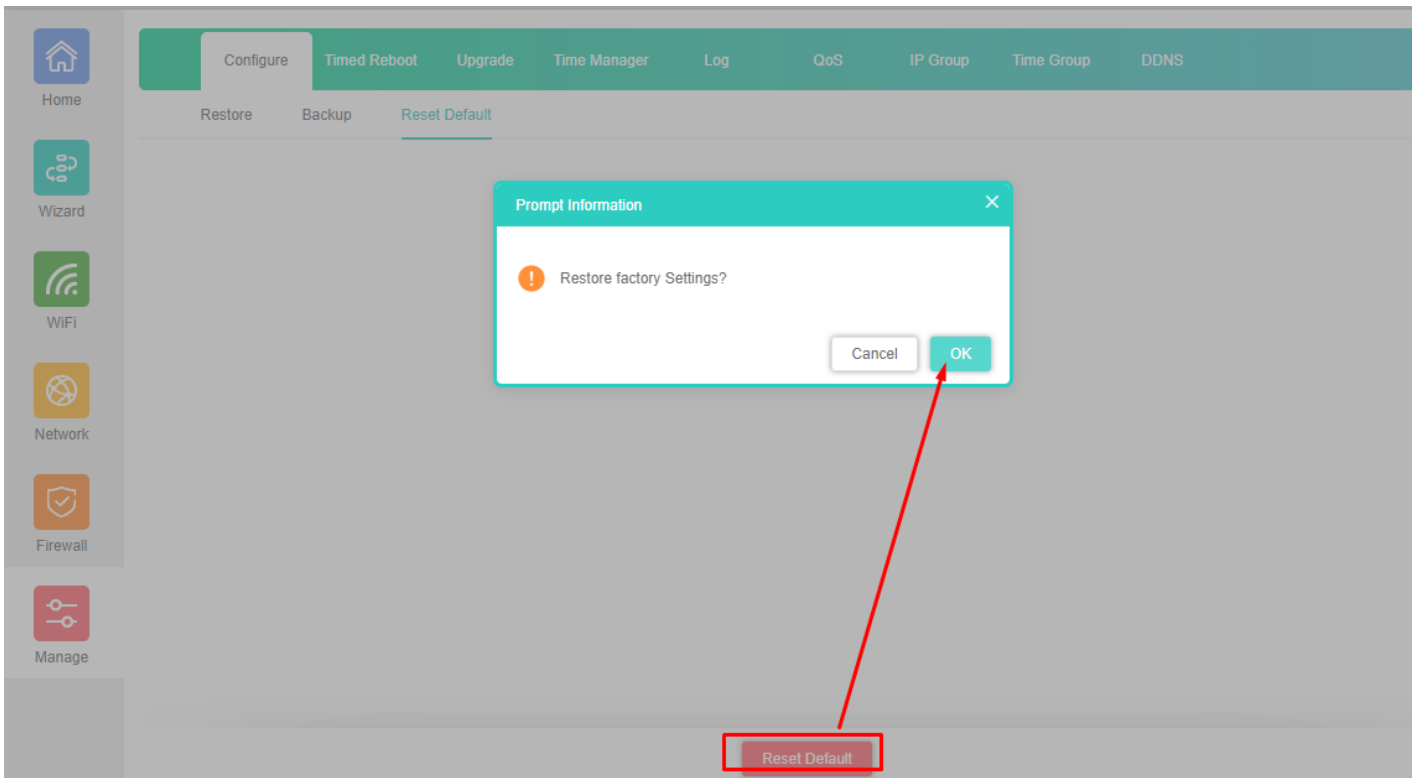


Fig 6.1.4 Reset to factory default for AirONE AP1800AX-HD

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.

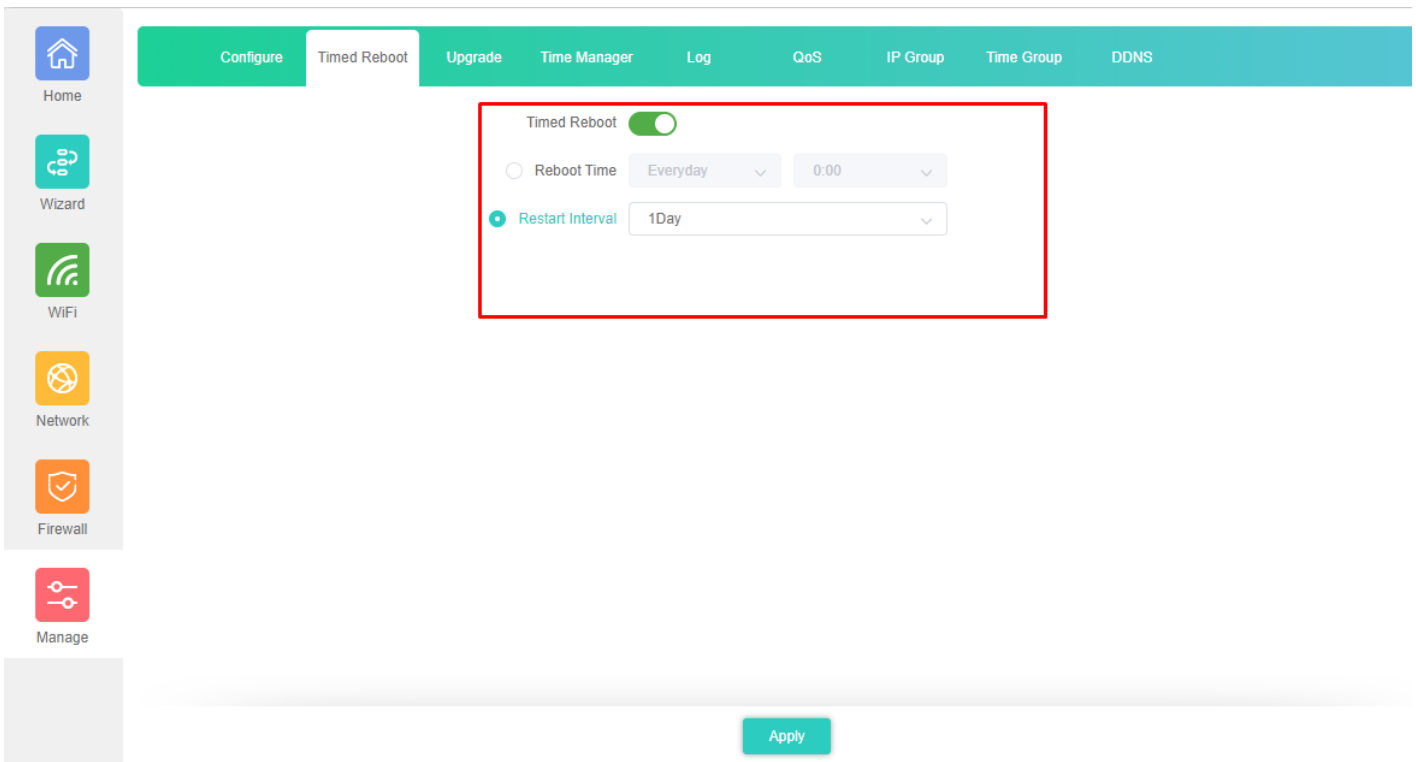


Fig 6.2.1 Default reboot setting for AirONE AP1800AX-HD

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.

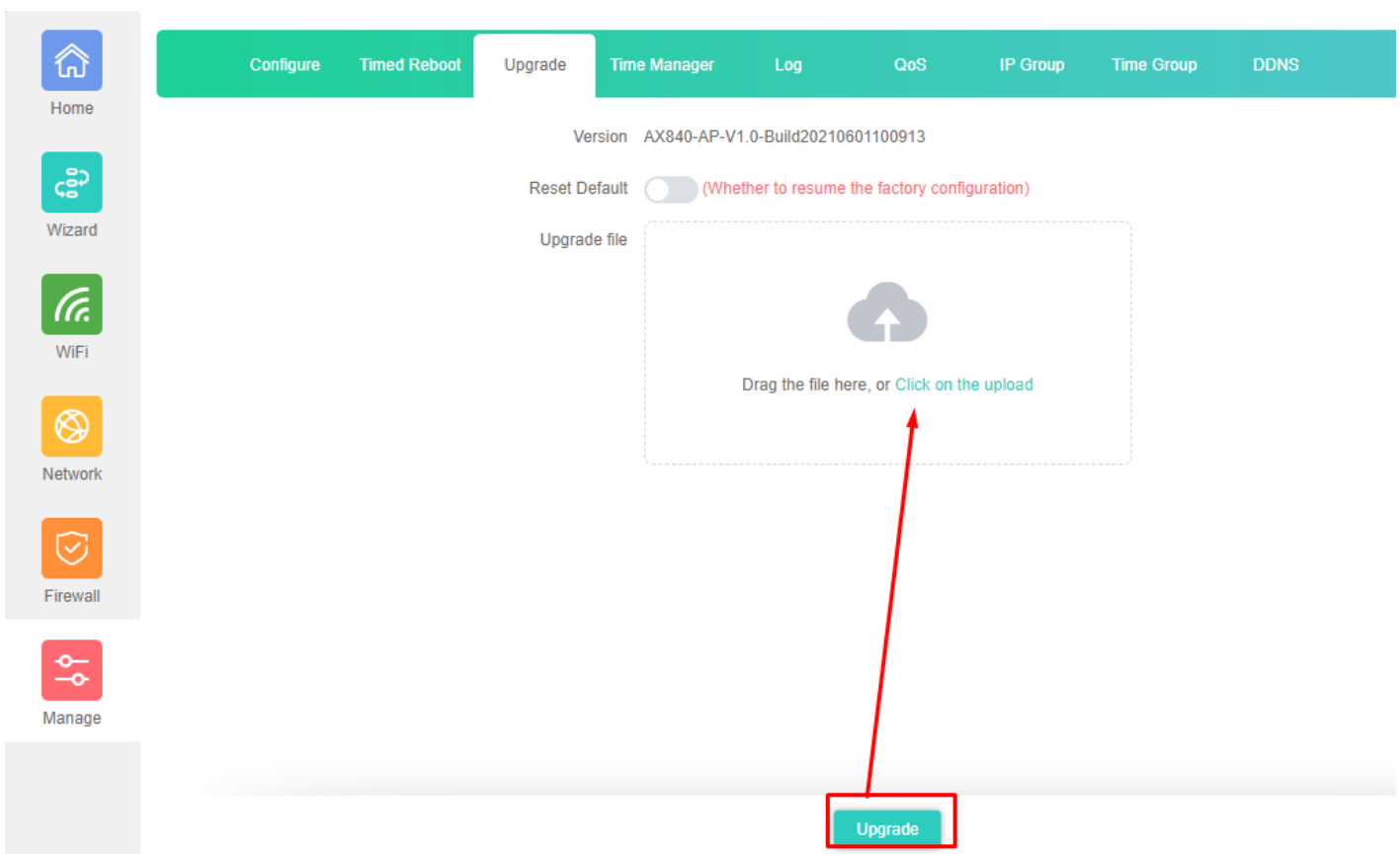


Fig 6.3.1 Default Upgrade page for AirONE AP1800AX-HD

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.

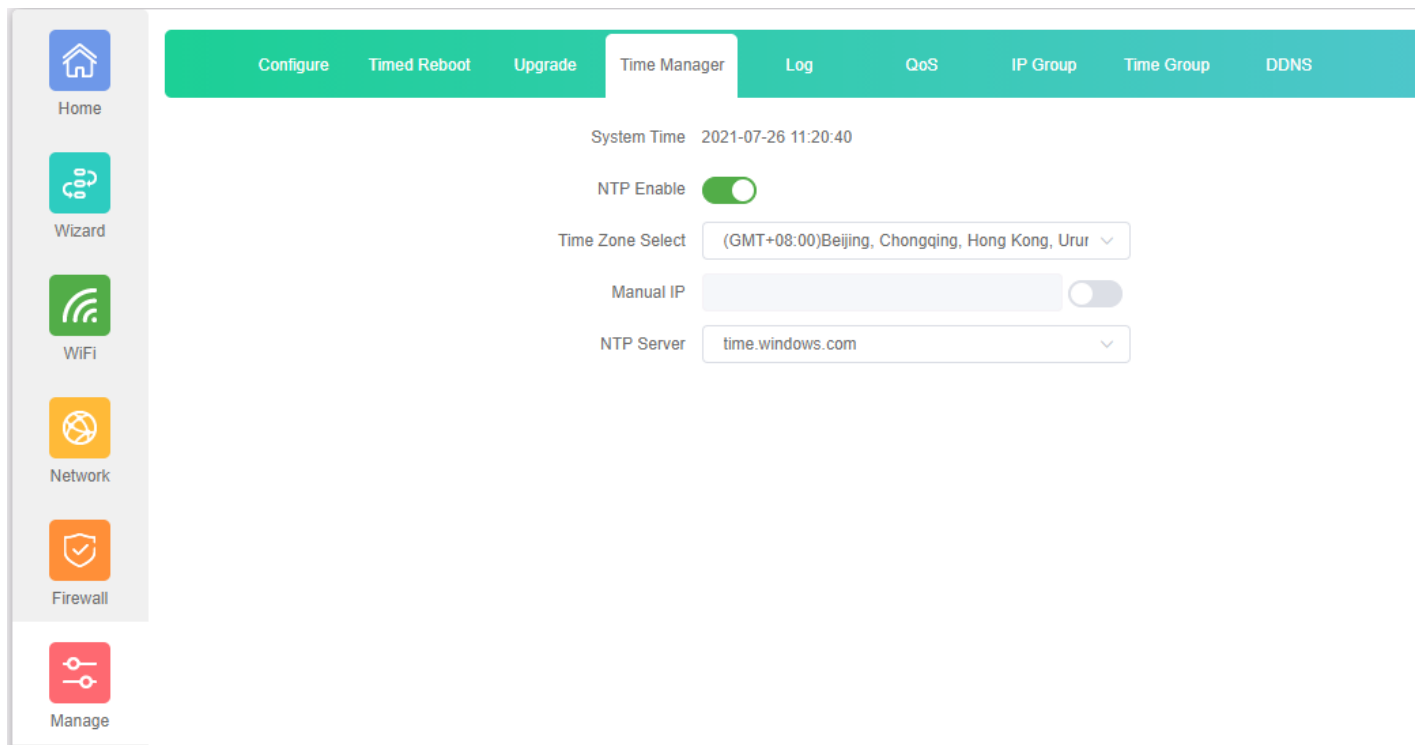


Fig 6.4.1 System Time for AirONE AP1800AX-HD

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.

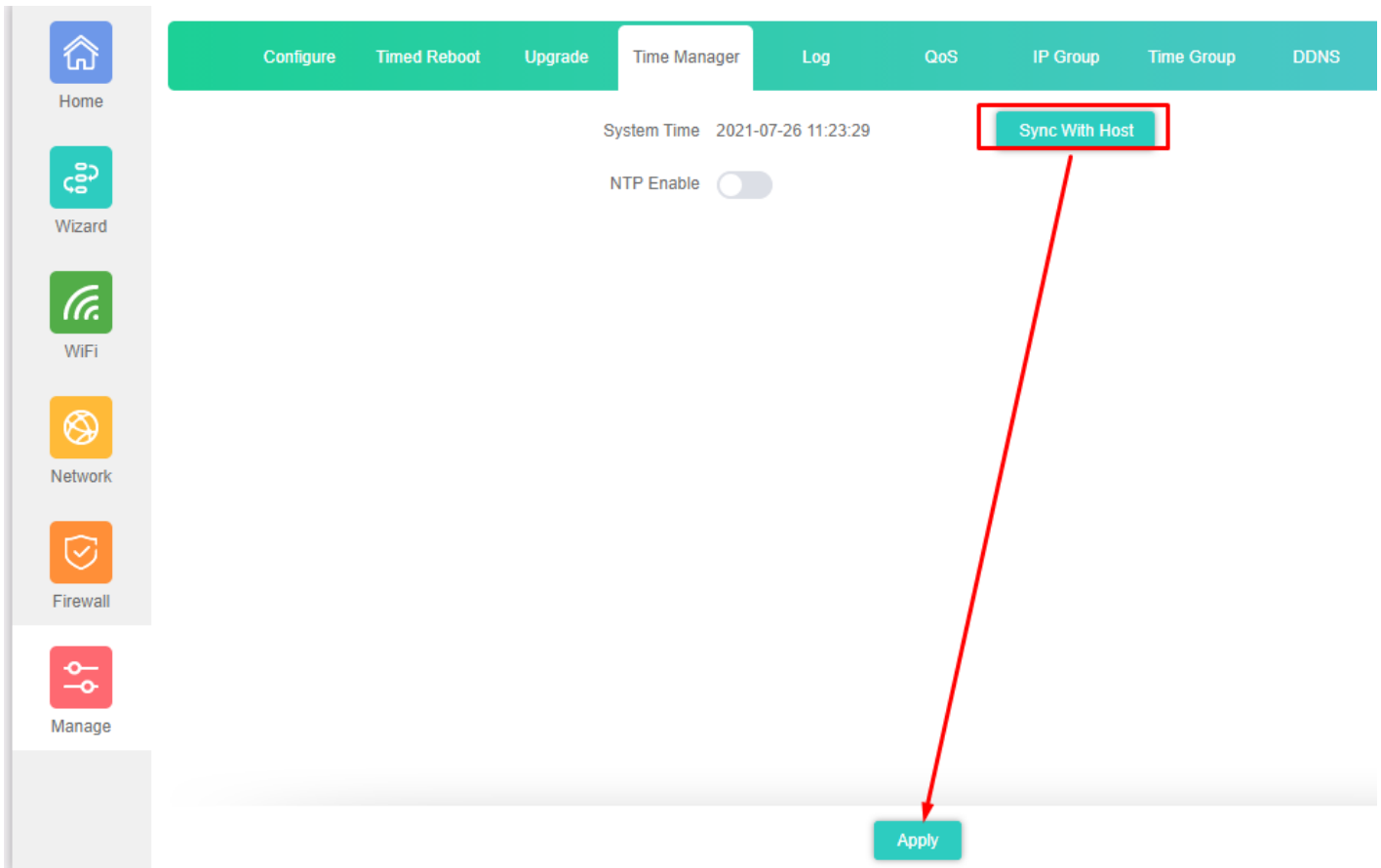


Fig 6.4.2 Disable NTP and Sync with host for AirONE AP1800AX-HD

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.

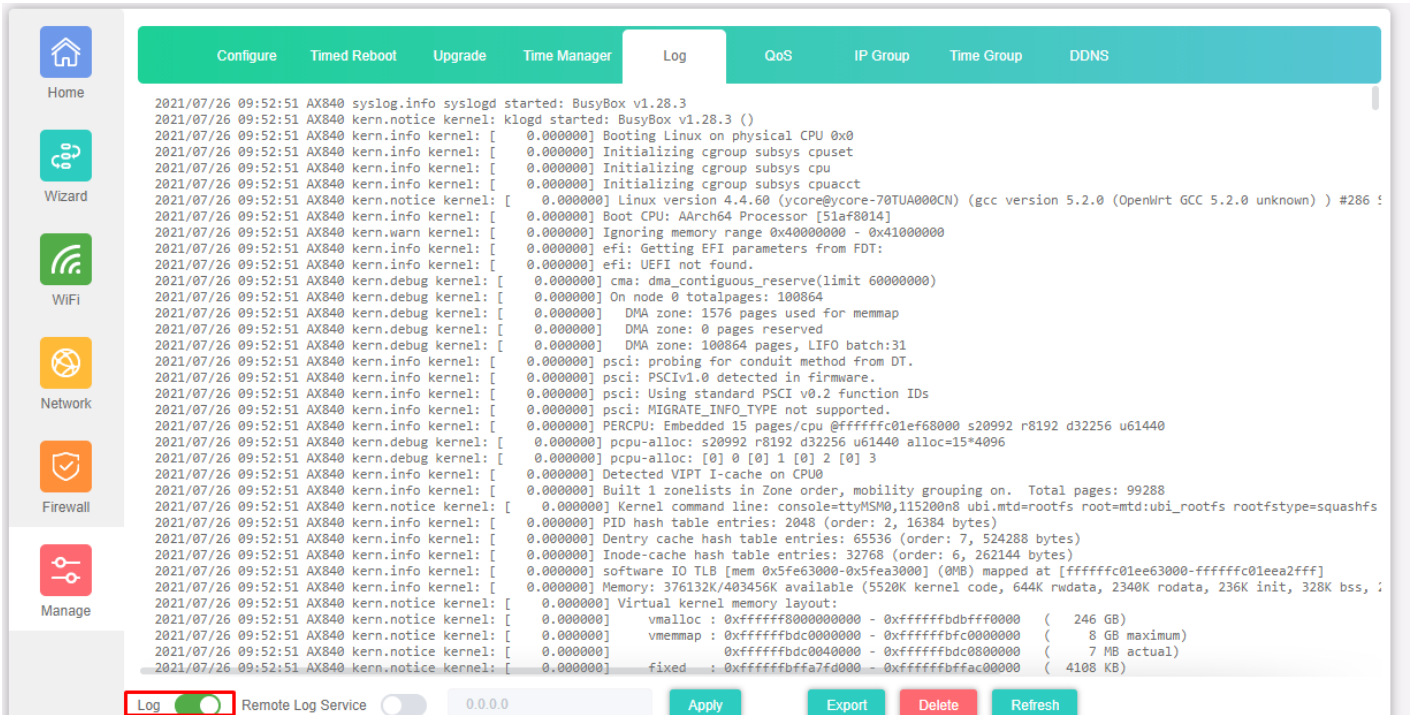


Fig 6.5.1 Default Log setting for AirONE AP1800AX-HD

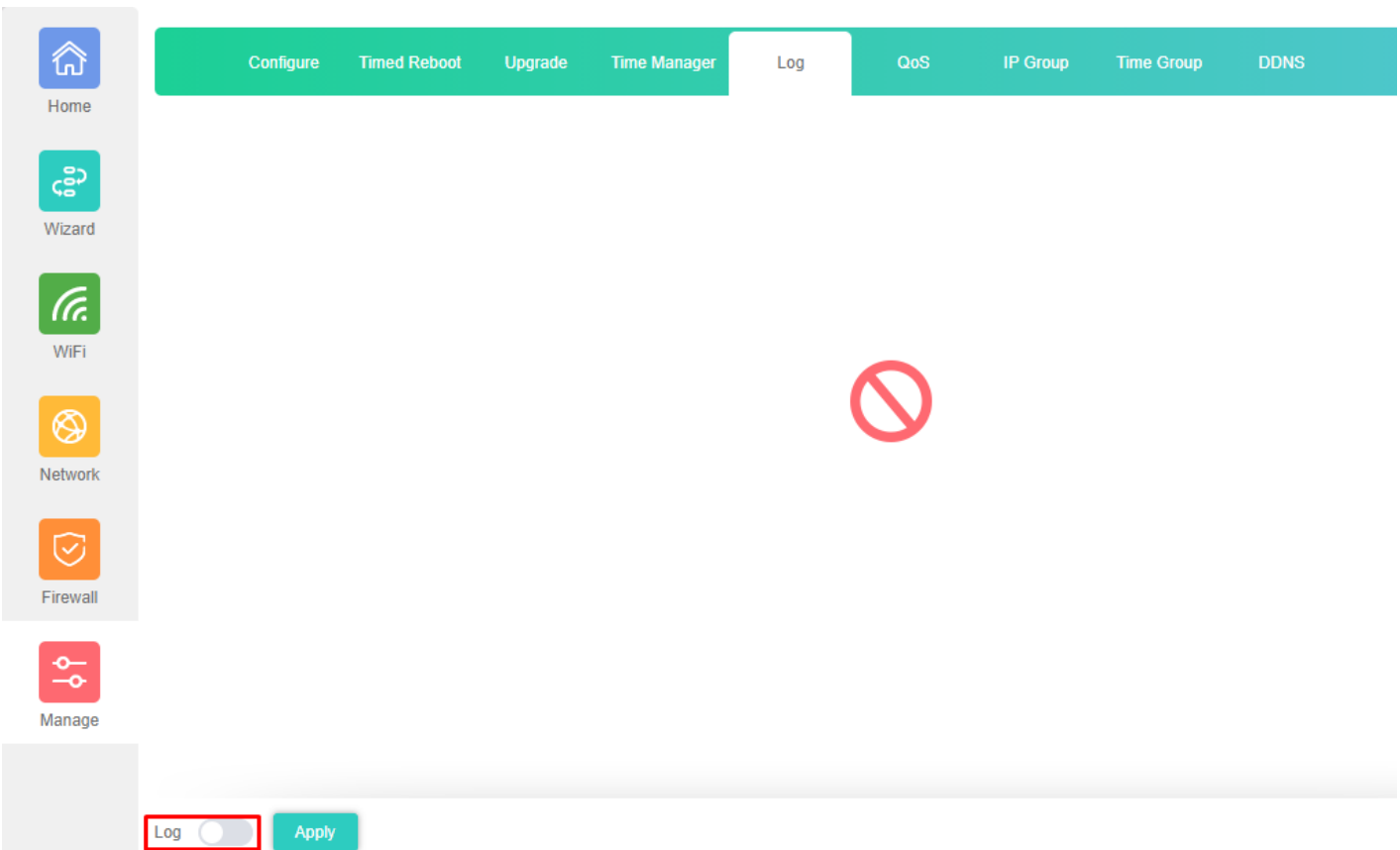


Fig 6.5.2 Turning OFF Log setting for AirONE AP1800AX-HD

The screenshot shows the management interface for an AirONE AP1800AX-HD. The 'Log' tab is selected, displaying a list of system logs. At the bottom, the 'Remote Log Service' is enabled, and the IP address '192.168.1.100' is entered in the 'IP' field, which is highlighted with a red box. Other buttons like 'Apply', 'Export', 'Delete', and 'Refresh' are visible.

Fig 6.5.3 Remote Log service setting IP for AirONE AP1800AX-HD

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.

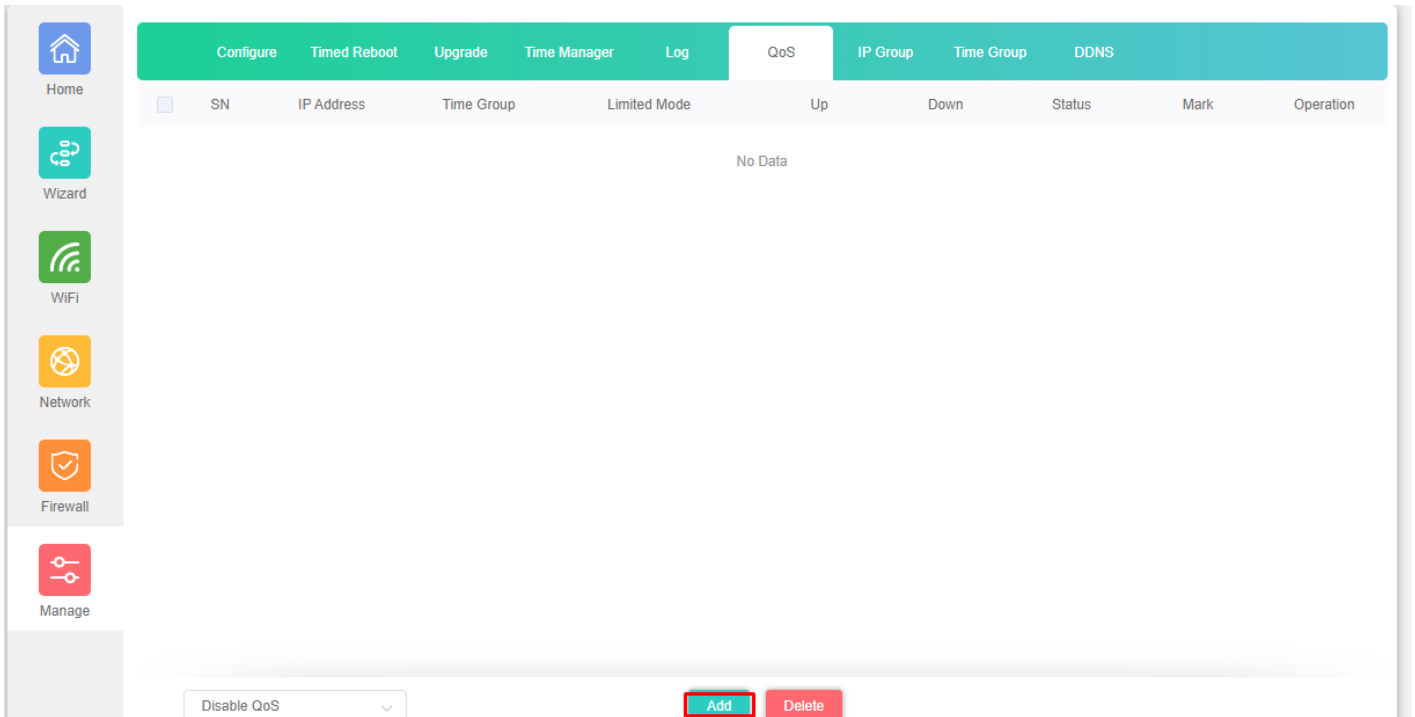


Fig 6.6.1 Default QoS page for AirONE AP1800AX-HD

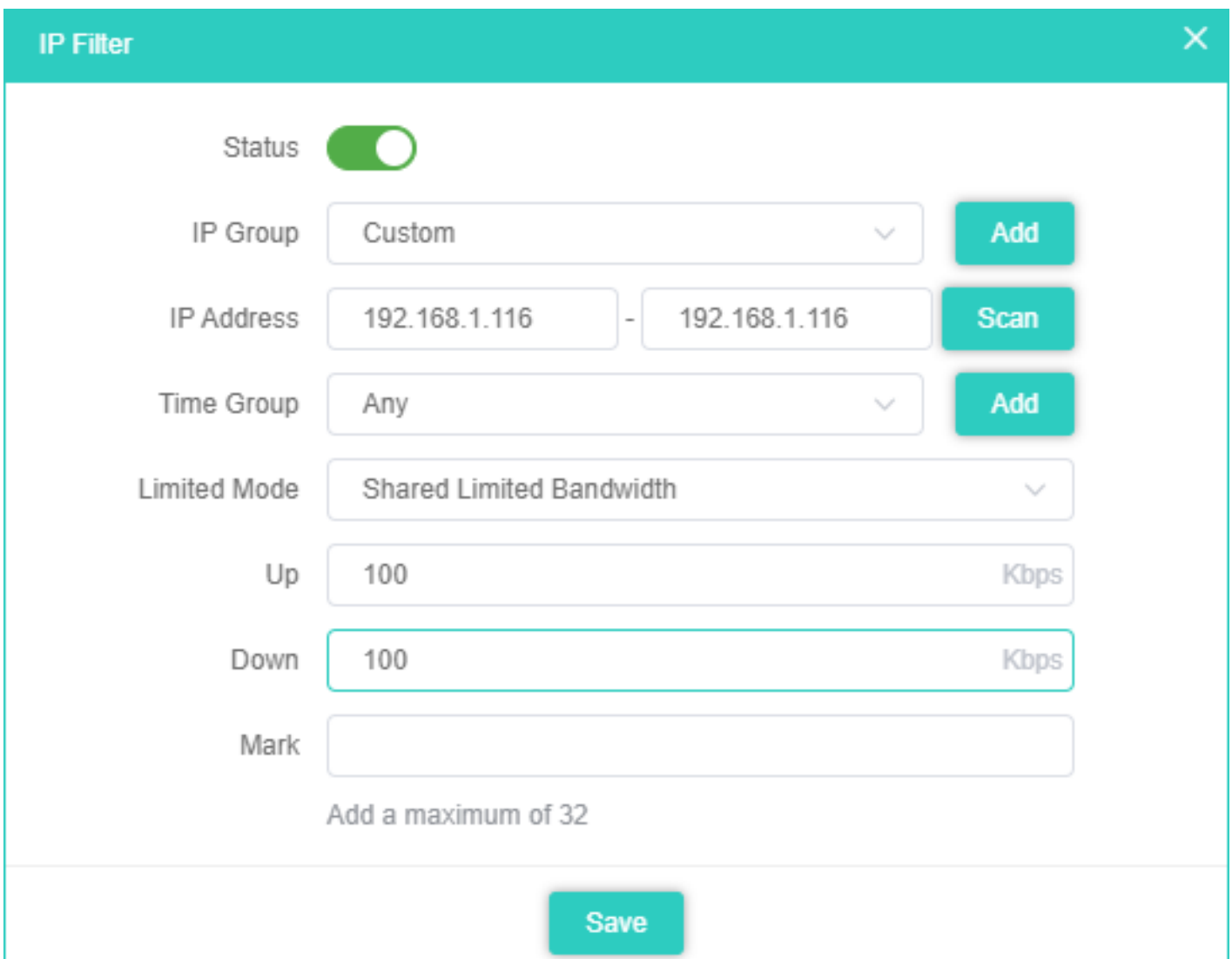


Fig 6.6.2 Enabling Speed limit for AirONE AP1800AX-HD

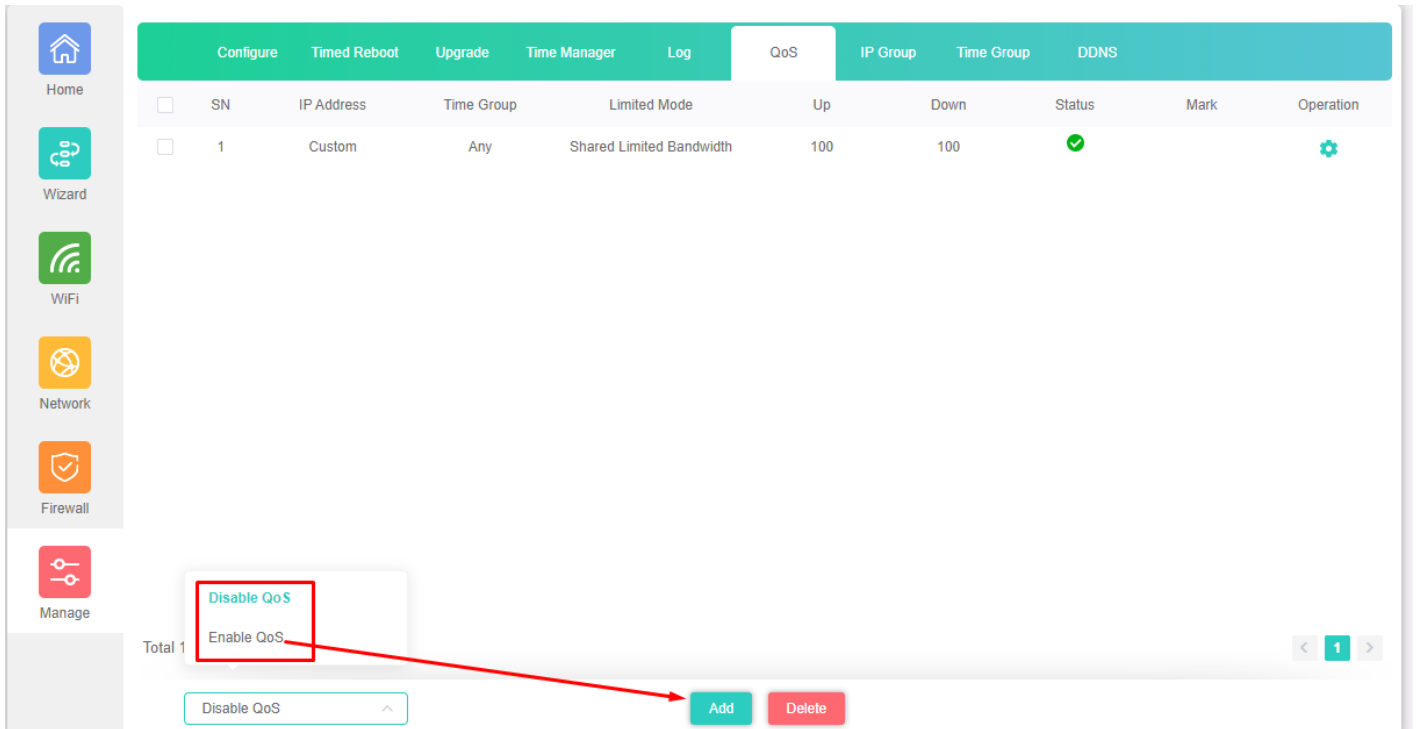


Fig 6.6.3 QoS page for AirONE AP1800AX-HD

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.

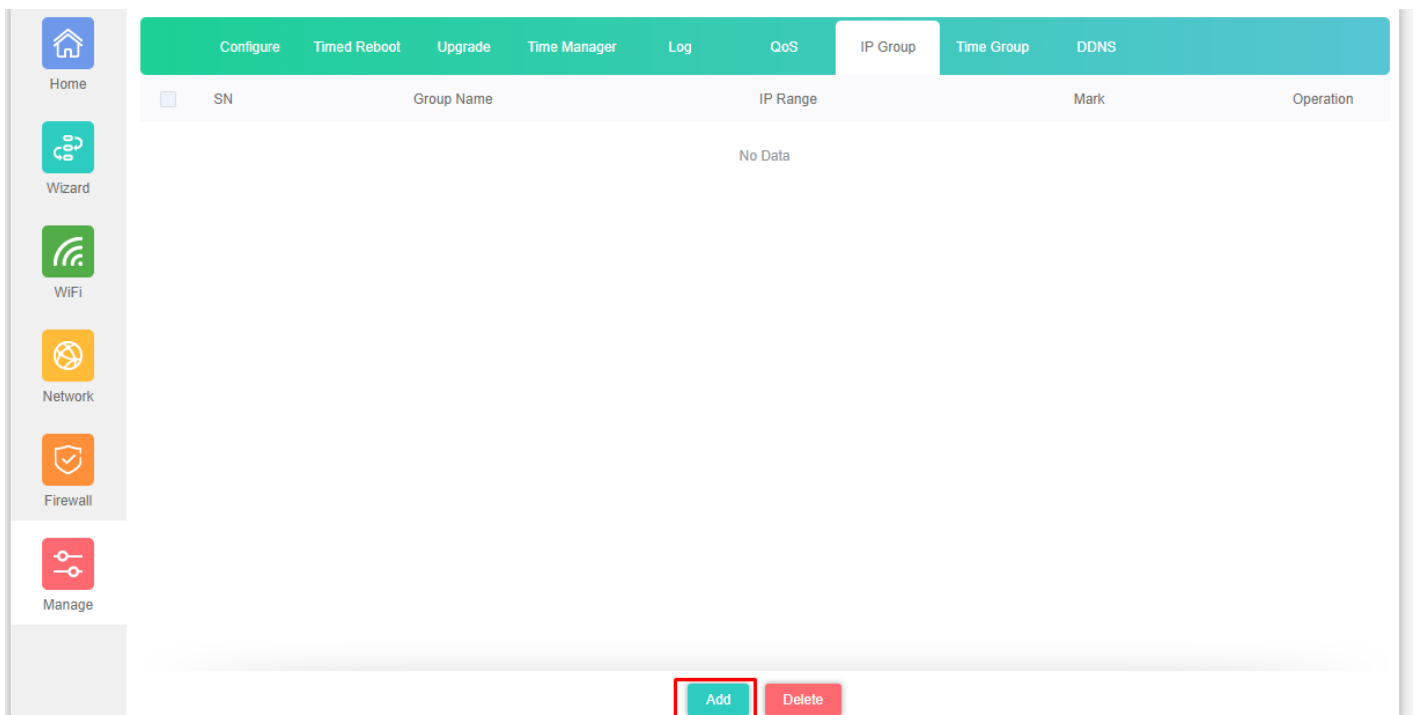


Fig 6.7.1 Default IP group page for AirONE AP1800AX-HD

IP Group

Group Name

IP Range -

Mark

Add a maximum of 16

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

SN	Group Name	IP Range	Mark	Operation
1	IP group	192.16.1.100 - 192.168.1.200	Sales Group	

Total 1

< 1 >

Fig 6.7.3 IP group page for AirONE AP1800AX-HD

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.

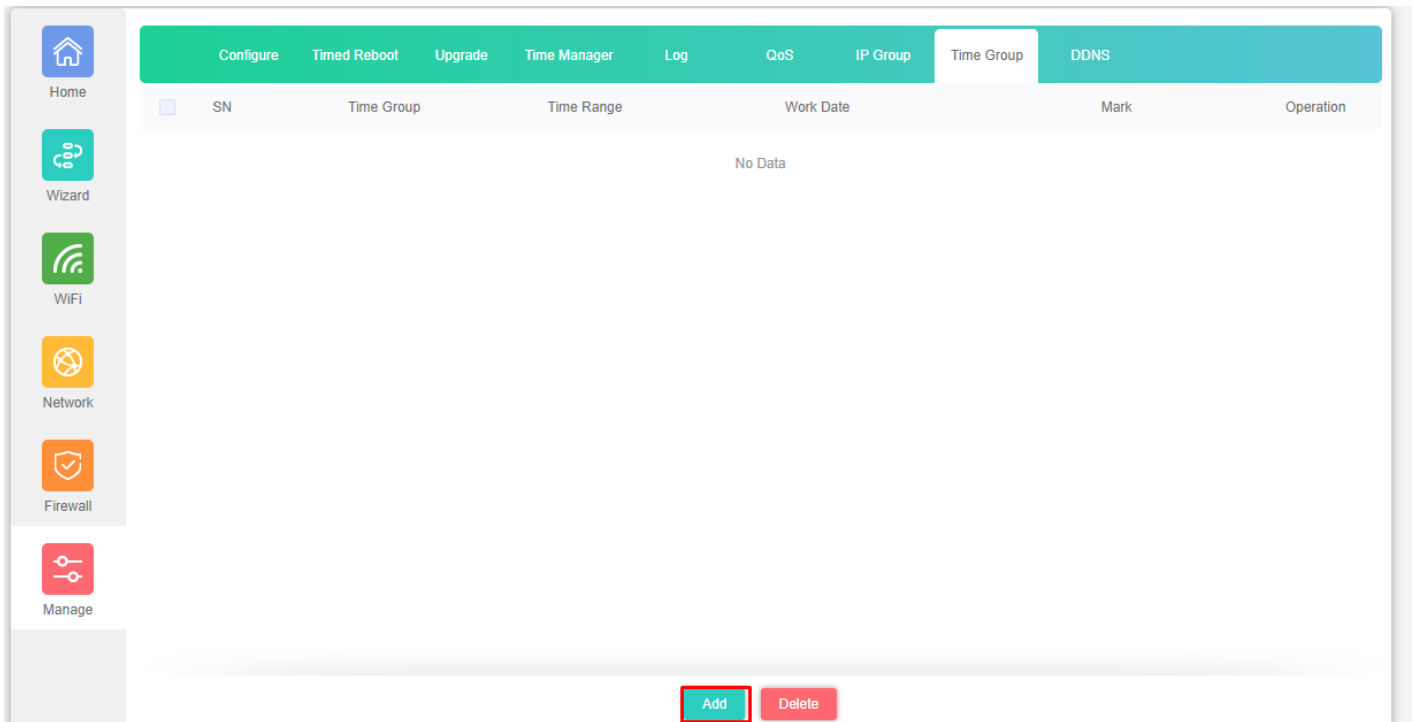


Fig 6.8.1 Default time group for AirONE AP1800AX-HD

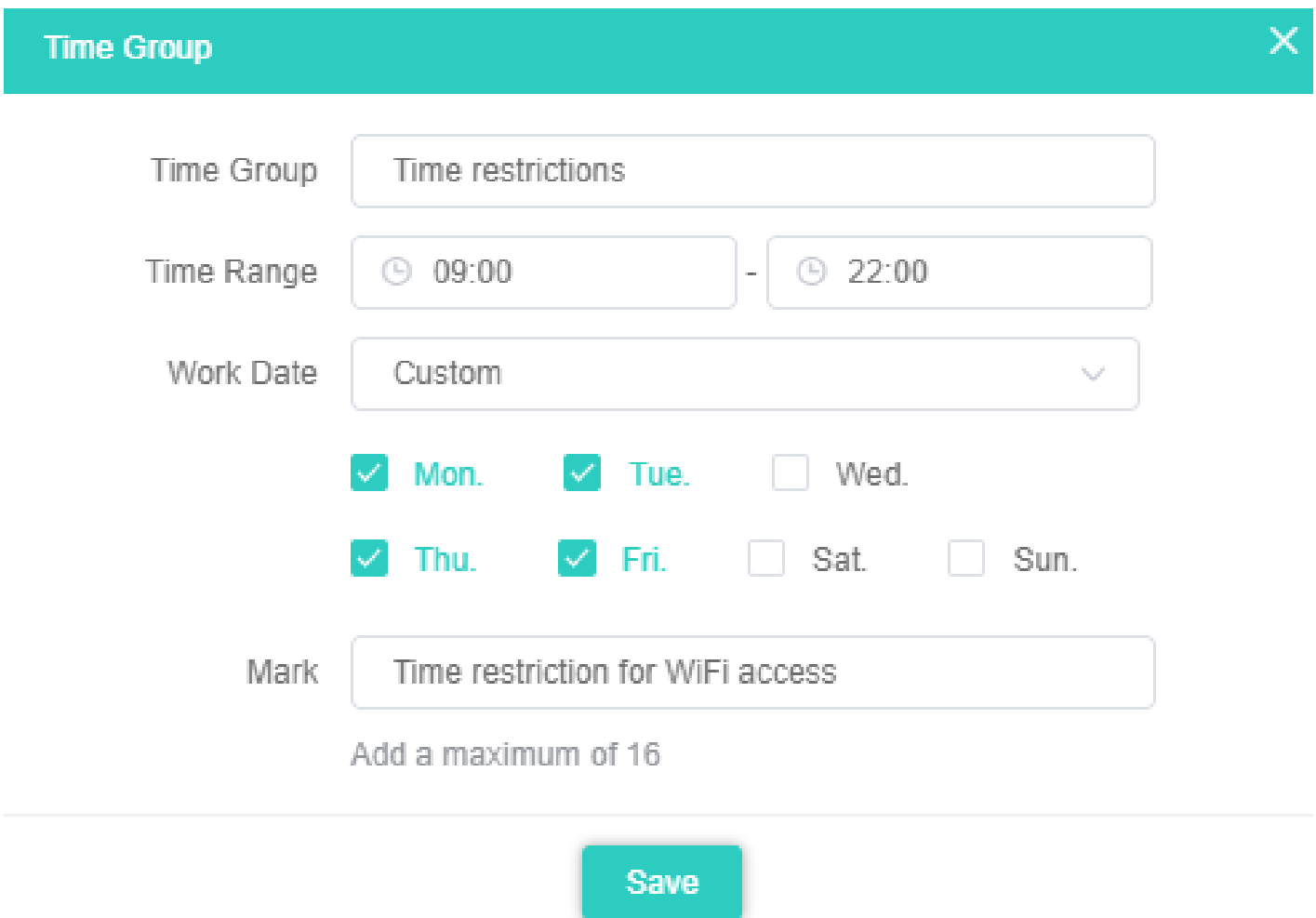


Fig 6.8.2 Setting Time group for AirONE AP1800AX-HD

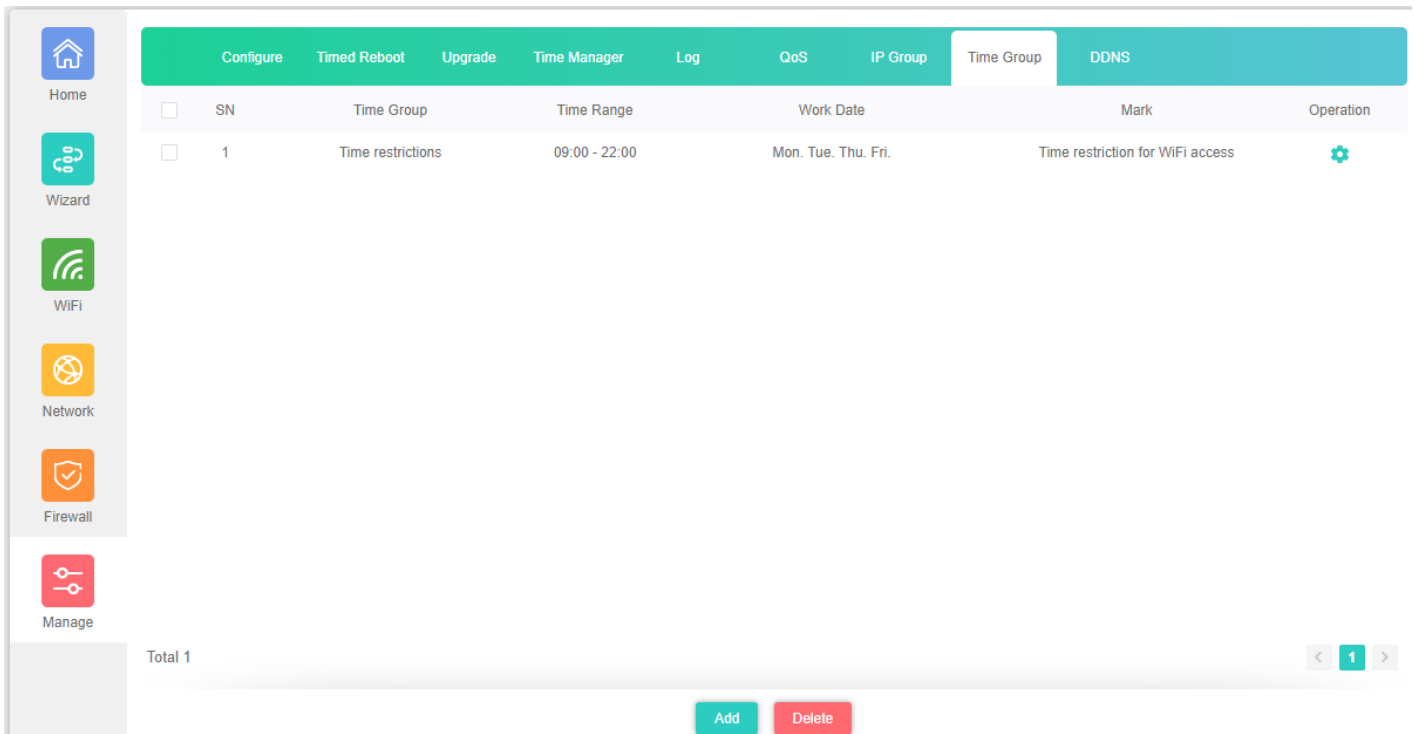


Fig 6.8.3 Time group for AirONE AP1800AX-HD

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.

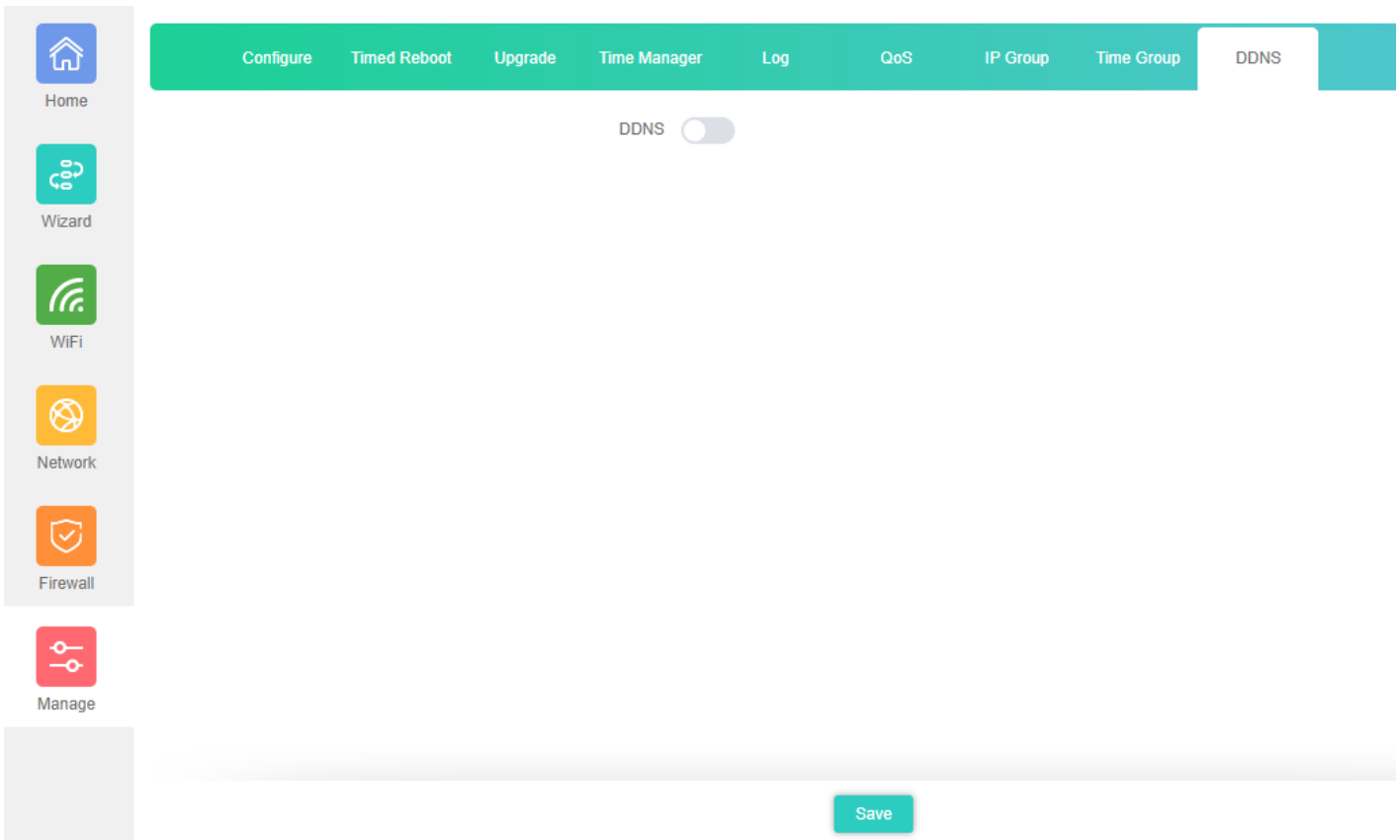


Fig 6.9.1 Default DDNS page for AirONE AP1800AX-HD

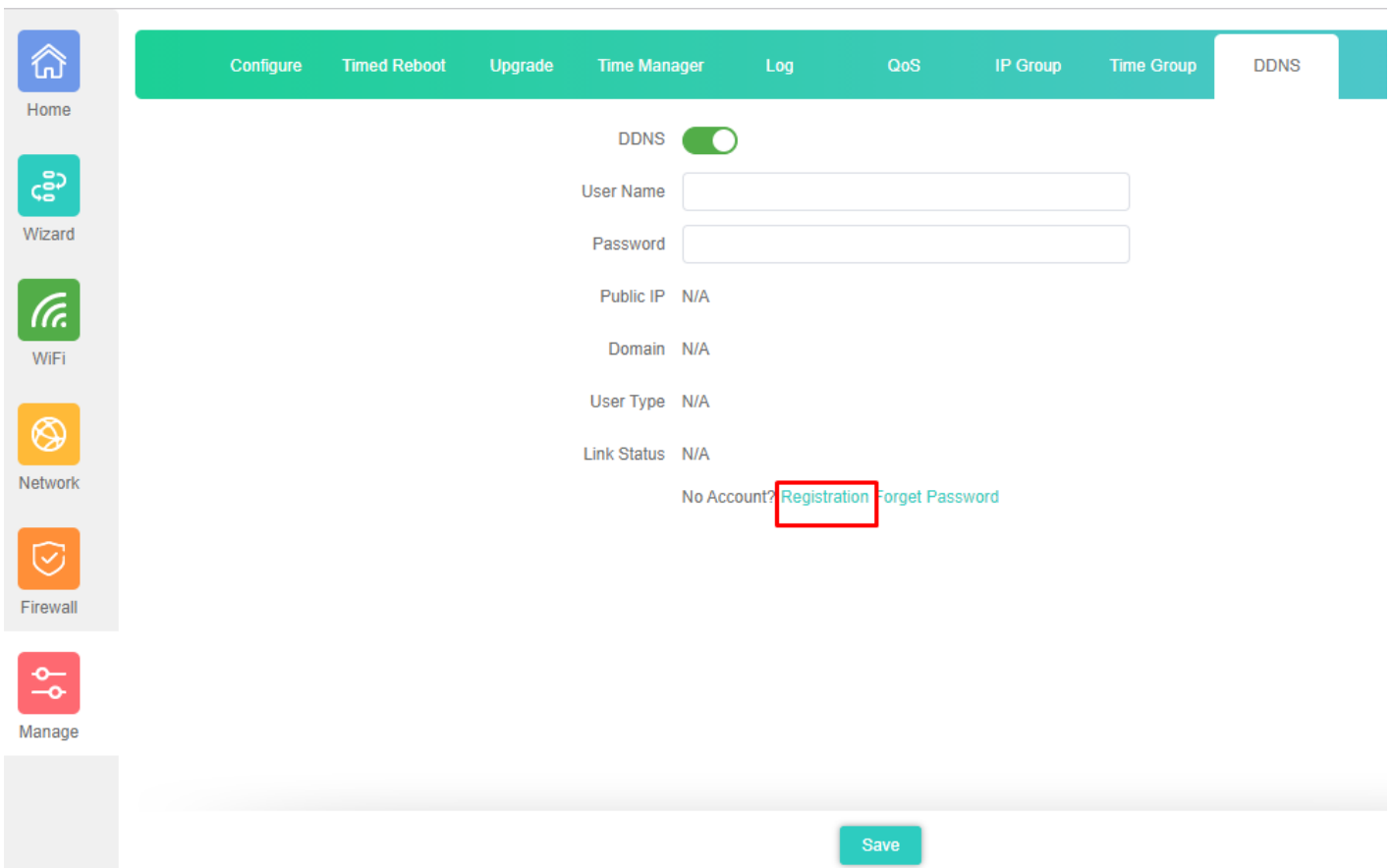


Fig 6.9.2 Enable DDNS page for AirONE AP1800AX-HD