



# Access Point User Guide

© 2025 TP-Link 1910013169 REV5.1.0

Note: Features available in the EAP may vary by model and software version. All images, steps, and descriptions in this guide are only examples and may not reflect your actual product experience.

# CONTENTS

About This Guide .....	1
Overview .....	3
1 Quick Start .....	4
1.1 Determine the Management Method.....	5
1.2 Connect Network Devices.....	6
1.2.1 Connect Common APs .....	6
1.2.2 Connect GPON APs.....	7
1.3 Complete Initial Setup .....	9
1.3.1 Register GPON Service (Only for GPON APs).....	9
1.3.2 Change Basic Settings.....	9
1.3.3 Configure the Telephony Service (Only for GPON APs).....	14
2 System Overview .....	15
3 Configure the Network.....	18
3.1 Configure the Wireless Parameters.....	19
3.1.1 Configure SSIDs .....	20
3.1.2 Configure Wireless Advanced Settings .....	25
3.1.3 Configure the MLO Network (Only for Wi-Fi 7 Devices).....	31
3.2 Configure Portal Authentication .....	33
3.2.1 Configure Portal .....	33
3.2.2 Configure Free Authentication Policy .....	37
3.3 Configure VLAN .....	40
3.4 Configure MAC Filtering .....	41
3.5 Configure Scheduler .....	43
3.6 Configure Band Steering.....	45
3.7 Configure QoS.....	46
3.8 Configure Rogue AP Detection.....	49

3.8.1	Manage the Rogue AP List .....	49
3.8.2	Manage the Trusted AP List.....	51
3.9	Configure Smart Antenna (Only for Certain Devices).....	53
<b>4</b>	<b>Monitor the Network .....</b>	<b>54</b>
4.1	Monitor the EAP .....	55
4.2	Monitor the GPON Information (Only for GPON APs).....	57
4.3	Monitor the Wireless Parameters .....	59
4.4	Monitor the Clients .....	62
<b>5</b>	<b>Configure the Telephony Service (Only for GPON APs) .....</b>	<b>64</b>
5.1	Configure Telephone Numbers .....	65
5.2	Configure the Telephony Device .....	68
5.3	Configure the Telephony Book.....	69
5.4	Check the Call Logs .....	71
5.5	Configure the Digit Map.....	72
5.6	Configure Call Blocking .....	73
<b>6</b>	<b>Manage the EAP .....</b>	<b>74</b>
6.1	Manage Bridge APs (Only for Bridge APs) .....	75
6.1.1	Manage the Bridge Information.....	75
6.1.2	Manage the Bridge Network .....	75
6.1.3	Perform Channel Optimization.....	76
6.2	Manage the IP Address of the EAP .....	77
6.3	Manage System Logs .....	79
6.4	Configure Web Server.....	82
6.5	Configure Management Access .....	83
6.5.1	Configure Access MAC Management.....	83
6.5.2	Configure Management VLAN .....	84
6.6	Configure Trunk (Only for Certain Devices).....	85
6.7	Configure LED .....	86

6.8	Configure LAN Port (Only for Certain Devices).....	87
6.8.1	Configure Port VLAN (Only for Certain Devices).....	87
6.8.2	Configure PoE Out (Only for Certain Devices) .....	87
6.9	Configure Wi-Fi Control (Only for Certain Devices).....	89
6.10	Configure SSH.....	90
6.11	Configure SNMP .....	91
6.12	Configure Power Saving (Only for Certain Devices) .....	93
7	Manage the System.....	94
7.1	Configure the User Account .....	95
7.2	Configure Controller Settings.....	96
7.3	Configure the System Time.....	98
7.3.1	Configure the System Time .....	98
7.3.2	Configure Daylight Saving Time .....	100
7.4	Reboot and Reset the EAP.....	102
7.5	Backup and Restore the Configuration.....	103
7.6	Update the Firmware .....	104
8	Application Example .....	105
8.1	Determine the Network Requirements .....	106
8.2	Build the Network Topology.....	107
8.3	Log in to the EAP .....	108
8.4	Configure the EAP .....	109
8.4.1	Configure SSIDs .....	109
8.4.2	Configure Portal Authentication.....	110
8.4.3	Configure Scheduler .....	111
8.5	Test the Network.....	113

# About This Guide

When using this guide, notice that features available in the EAP may vary by model and software version. Availability of the EAP may also vary by region or ISP. All images, steps, and descriptions in this guide are only examples and may not reflect your actual experience.

Some models featured in this guide may be unavailable in your country or region. For local sales information, visit <https://www.omadanetworks.com>.

The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure the accuracy of the contents, but all statements, information, and recommendations in this document do not constitute the warranty of any kind, express or implied. Users must take full responsibility for their application of any product.

## **Wireless Speed and Range Disclaimer**

Maximum wireless transmission rates are the physical rates derived from IEEE Standard 802.11 specifications. Range and coverage specifications were defined according to test results under normal usage conditions. Actual wireless transmission rate and wireless coverage are not guaranteed, and will vary as a result of 1) environmental factors, including building materials, physical objects and obstacles, 2) network conditions, including local interference, volume and density of traffic, product location, network complexity, and network overhead and 3) client limitations, including rated performance, location, connection quality, and client condition.

## **Ethernet Port Limitation Disclaimer**

Actual network speed may be limited by the rate of the product's Ethernet WAN or LAN port, the rate supported by the network cable, Internet service provider factors and other environmental conditions.

## **Wireless Client Capacity Disclaimer**

Wireless client capacity specifications were defined according to test results under normal usage conditions. Actual wireless client capacity is not guaranteed, and will vary as a result of 1) environmental factors, including building materials, physical objects and obstacles, 2) network conditions, including local interference, volume and density of traffic, product location, network complexity, and network overhead and 3) client limitations, including rated performance, location, connection quality, and client condition.

## **Wi-Fi Feature Disclaimer (for EAPs that support the corresponding features)**

Use of Wi-Fi 7 (802.11be), Wi-Fi 6 (802.11ax), and features including Multi-Link Operation (MLO), 320 MHz Bandwidth, 6 GHz, 4K-QAM, Multi-RUs, OFDMA, MU-MIMO, and BSS Color require clients to also support the corresponding features.

### **Seamless Roaming Disclaimer (for EAPs that support Seamless Roaming)**

Seamless roaming requires both the access point and client devices to support 802.11k and 802.11v protocols.

### **Lightning and Electro-Static Discharge Protection Disclaimer (for Outdoor EAPs)**

Protection against lightning and electro-static discharge may be achieved through proper product setup, grounding and cable shielding. Refer to the instruction manual and consult an IT professional to assist with setting up this product.

### **More Info**

Some models featured in this guide may be unavailable in your country or region. For local sales information, visit <https://www.omadanetworks.com>.

For technical support, latest software, and management app, visit <https://support.omadanetworks.com>.

The Quick Installation Guide can be found where you find this guide or inside the package of the EAP.

The authentication information can be found where you find this guide.

Specifications can be found on the product page at <https://www.omadanetworks.com>.

# Overview

Omada EAPs provide wireless coverage solutions for small-medium business and households. They can either work independently as standalone APs or be centrally managed by an Omada Controller, providing a flexible, richly-functional but easily configured wireless network.

# **1**

## ***Quick Start***

This chapter introduces how to build a wireless network using the EAPs and how to complete basic settings. Follow the steps below:

*1.1 Determine the Management Method*

*1.2 Connect Network Devices*

*1.3 Complete Initial Setup*



## 1.1 Determine the Management Method

Before building your network, choose a proper method to manage your EAPs. You have the following options:

### ■ Controller Mode

If you want to manage a large-scale network centrally, choose Controller Mode. In Controller Mode, you can configure and monitor mass EAPs, switches, and gateways via an Omada Controller. For more information, go to <https://www.omadanetworks.com/en/business-networking/omada/controller/>.

### ■ Standalone Mode

If you want to manage only a few EAPs, choose Standalone Mode. In Standalone Mode, you can singly configure and monitor your EAPs via Omada app or a web browser, and each EAP has its own management page.

This guide introduces how to quickly set up the EAP in Standalone Mode.

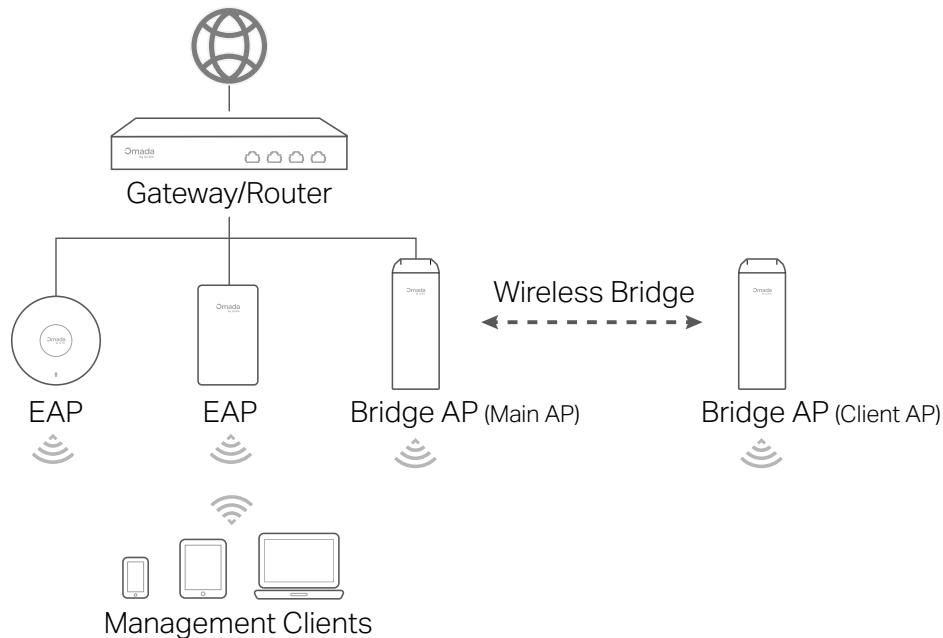
#### **Note:**

- Standalone Mode is inaccessible while the EAP is managed by a controller. To turn the EAP back to Standalone Mode, you can forget the EAP on the controller or reset the EAP.
- To make your EAPs discovered by the controller, you need to configure [7.2 Configure Controller Settings](#) in certain scenarios.

## 1.2 Connect Network Devices

To connect your EAPs to the local network, refer to the following topology.

### 1.2.1 Connect Common APs



**Note:**

- Before you start, be sure to power up and connect your devices according to the above topology.
- A DHCP server (typically a gateway/router with the DHCP function enabled) is required to assign IP addresses to the EAPs and clients in your local network.

1. Connect your gateway/router to the internet.
2. Connect the EAPs to the LAN ports of your gateway/router.

For a Bridge kit product, connect the Main AP to your gateway/router. The Client AP in the kit will automatically connect to the Main AP via wireless bridge.

**Tip:**

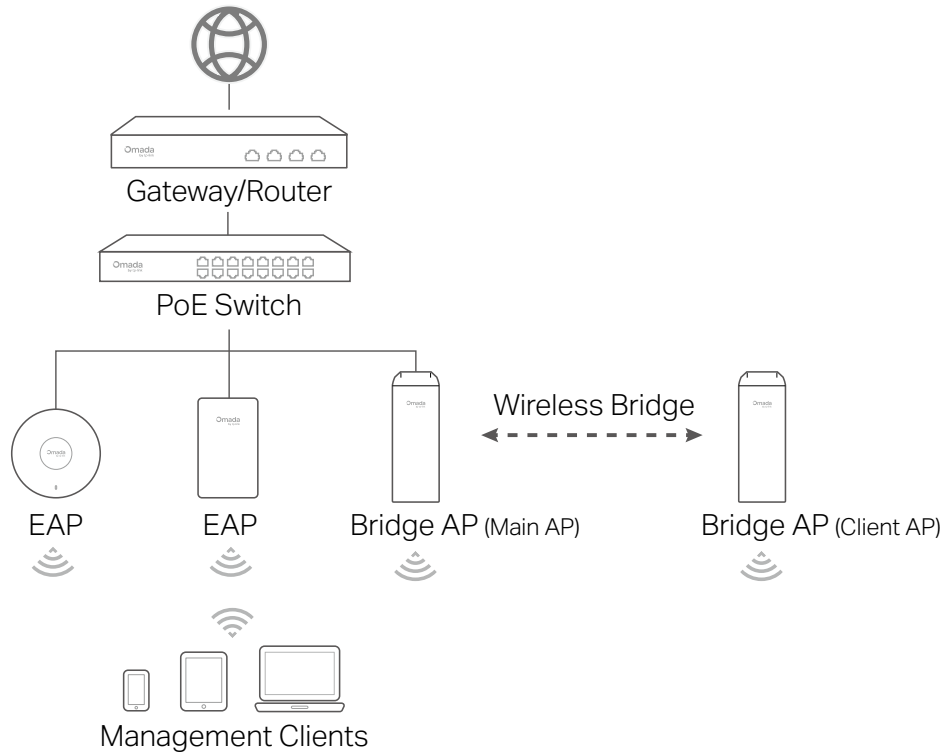
You can distinguish the Main AP and Client AP with the Role Switch on the product.

3. Connect your wireless clients such as phones, tablets and laptops to the WiFi of an EAP. The default SSIDs are printed on the EAP.
4. Now you can surf the internet on your phones, tablets and laptops. For network security, we recommend that you further complete the initial setup.

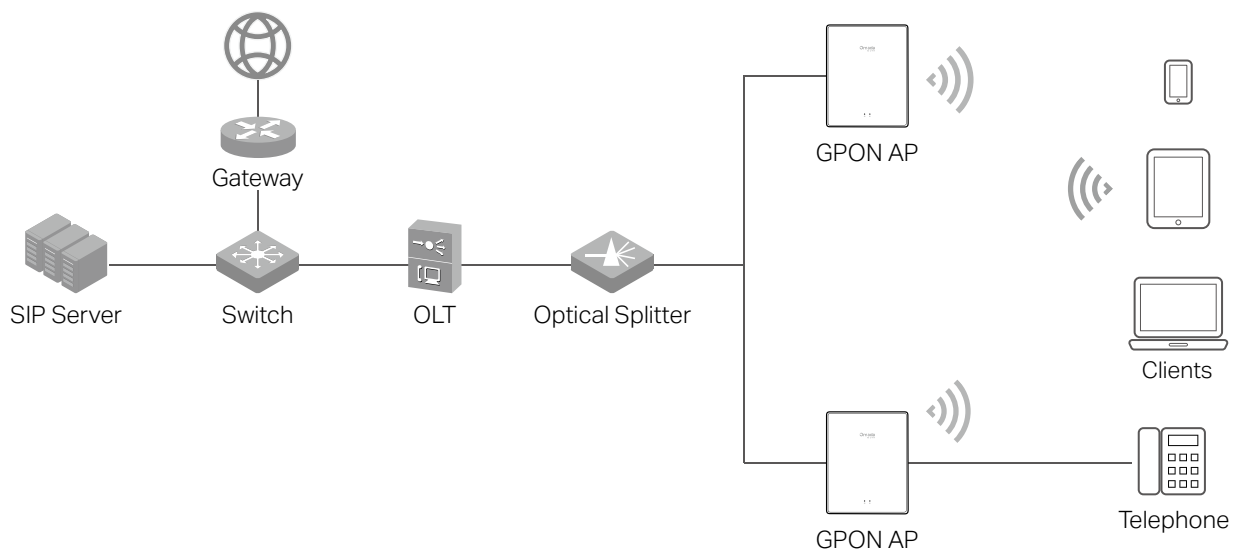
**Note:**

If you cannot access the internet, refer to [Troubleshooting of wireless issues for Omada EAP products](#).

**Tip:** If you want to power your EAPs using a PoE switch, refer to the following topology.



## 1.2.2 Connect GPON APs



**Note:**

- Before you start, be sure to power up and connect your devices according to the above topology.
- A DHCP server (typically a gateway/router with the DHCP function enabled) is required to assign IP addresses to the EAPs and clients in your local network.

1. Connect your gateway to the internet.
2. Connect the EAPs to the OLT via optical splitters.

3. Connect your telephone to the EAP's FXS port. If you don't need the telephone service, skip this step.
4. Connect your wireless clients such as phones, tablets and laptops to the WiFi of an EAP. The default SSIDs are printed on the EAP.

Now you can further complete the initial setup.

## 1.3 Complete Initial Setup

### 1.3.1 Register GPON Service (Only for GPON APs)

For GPON APs, you need to register them on your OLT. For detailed instructions, refer to your OLT's user manual.

### 1.3.2 Change Basic Settings

After EAPs are connected to the internet, anyone can access its web management page by using the default username and password, and connect to its WiFi using the default SSID. For security purposes, we recommend that you change basic settings.

To change basic settings, you can use either the Omada app on your mobile device or the web browser on your PC. Choose a method from the following sections and follow the instructions.

#### Notes:

- Only one user is allowed to log in to the EAP at one time.
- Omada app is designed to help you quickly configure some basic settings. To configure advanced functions, use the web browser on your PC.
- Omada app is only compatible with certain firmware versions of the EAP. To check the firmware versions of the supported EAPs, please refer to [https://www.omadanetworks.com/omada\\_compatibility\\_list/](https://www.omadanetworks.com/omada_compatibility_list/).

#### • Method 1: Set Up via the Omada App

1. Download and install the TP-Link Omada App from the App Store or Google Play.



2. Connect your mobile device to the WiFi of an EAP. The default SSIDs are printed on the EAP.
3. Launch the Omada app and go to **Standalone Mode**. The Omada app will discover and list all the EAPs in the current subnet.
4. Tap on each EAP and follow the app instructions to complete the initial setup.

Generally, you need to set up the username and password for login to the EAP's web management page and configure the SSID and password for WiFi connection.

## 5. Enjoy the internet!

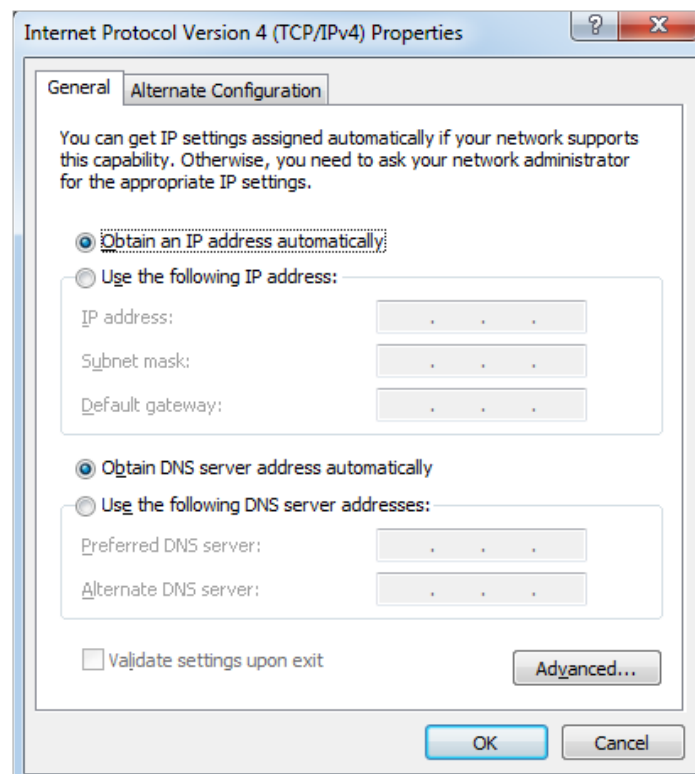
Now you can connect your phones, tablets and laptops to the new WiFi and surf the internet.

### Note:

If you cannot access the internet, refer to [Troubleshooting of wireless issues for Omada EAP products](#).

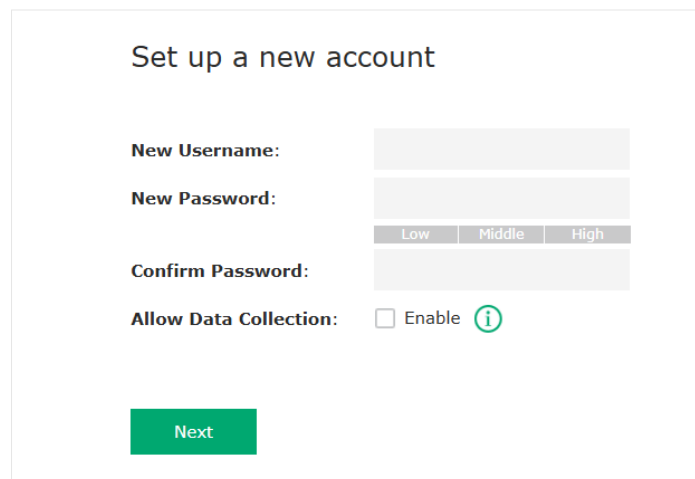
### • Method 2: Set Up via a Web Browser (for a wireless PC)

1. Make sure your PC is set to obtain an IP address automatically.



2. Connect your PC to the WiFi of an EAP. The default SSIDs are printed on the EAP.
3. Launch a web browser and enter <https://omadaeap.net> in the address bar. The EAP web page will be displayed.

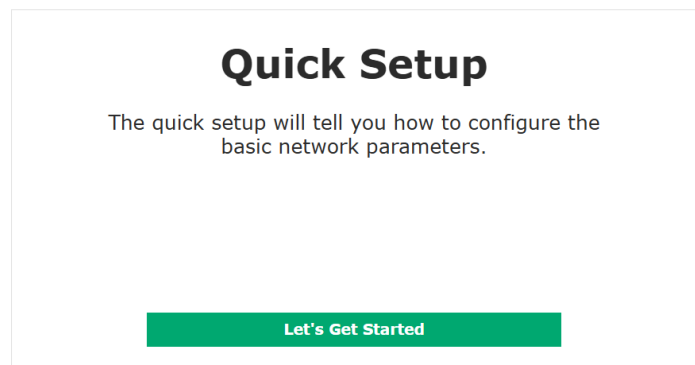
4. Set up the username and password for login to the EAP's web management page.



The screenshot shows a web form titled "Set up a new account". It contains the following fields and options:

- New Username:** A text input field.
- New Password:** A password input field with a strength indicator below it showing "Low", "Middle", and "High" levels.
- Confirm Password:** A text input field.
- Allow Data Collection:** A checkbox labeled "Enable" with an information icon (i) next to it.
- Next:** A green button at the bottom.

5. Follow the step-by-step web instructions to complete the initial setup.



The screenshot shows a web page titled "Quick Setup". It contains the following text and button:

- Quick Setup** (Section Header)
- The quick setup will tell you how to configure the basic network parameters.
- Let's Get Started** (Green button)

Generally, you need to configure the SSID and password for WiFi connection.

If you connect to the Main AP of a Bridge kit product, the system will automatically scan for the Client AP in the kit and connect it to the network.

## 6. Enjoy the internet!

Now you can connect your phones, tablets and laptops to the new WiFi and surf the internet.


### Note:

If you cannot access the internet, refer to [Troubleshooting of wireless issues for Omada EAP products](#).

### • Method 3: Set Up via a Web Browser (for a wired-only PC)

1. Connect your PC to the EAP via an Ethernet cable.
2. Get the IP address of the EAP. There are two methods.
  - Using the DHCP Client List of the Gateway/Router

Log in to your gateway/router which acts as the DHCP server. In the DHCP client list, find the IP address of your EAP according to its MAC address. The MAC address can be found at the bottom of the EAP. In the following figure, for example, the IP address of the EAP is **192.168.0.118**.

DHCP Client List				
Total Clients: 1				 Refresh
ID	Client Name	MAC Address	Assigned IP Address	Lease Time
1	EAP-0000	B0-4E-26-B4-A7-42	192.168.0.118	01:59:30

**Note:**

When the DHCP server is not available in your network, the EAP has the DHCP fallback IP address, which is **192.168.0.254** by default.

- Using the Omada Discovery Utility

Go to <https://support.omadanetworks.com/download/software/omada-discovery-utility/> to download, install and launch EAP Discovery Utility on your PC. EAP Discovery Utility can scan all EAPs in the same network segment, and find the IP address of the EAP. In the following figure, for example, the IP address of the EAP is **192.168.0.5**.

Discovering EAPs...

MAC, IP, Status

Select	MAC Address	IP Address	Model	Version	Status	Action
<input type="checkbox"/>		192.168.0.5	EAP		Pending	<button>Manage</button>

Displayed EAP : 1

Select All

Batch Setting

**Note:**

Some EAP models only works with certain software version of Discovery Utility. If your Discovery Utility can't discover your EAP anyway, try a different software version.

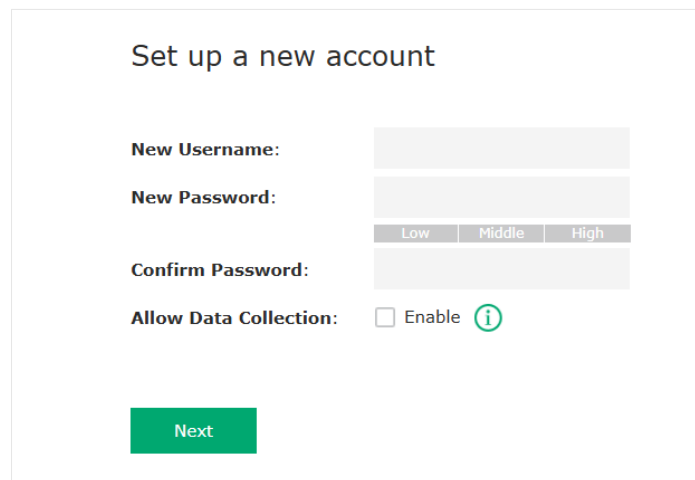


3. Launch a web browser and enter the IP address of the EAP in the address bar. The EAP web page will be displayed.

**Tip:**

To facilitate access to the EAP, you can set a static IP address for the EAP and remember it well or write it down. But make sure that this IP address is not being used by other devices in the same LAN. For detailed instructions about how to set a static IP address for the EAP, refer to [6.2 Manage the IP Address of the EAP](#).

4. Set up the username and password for login to the EAP's web management page.



Set up a new account

New Username:

New Password:

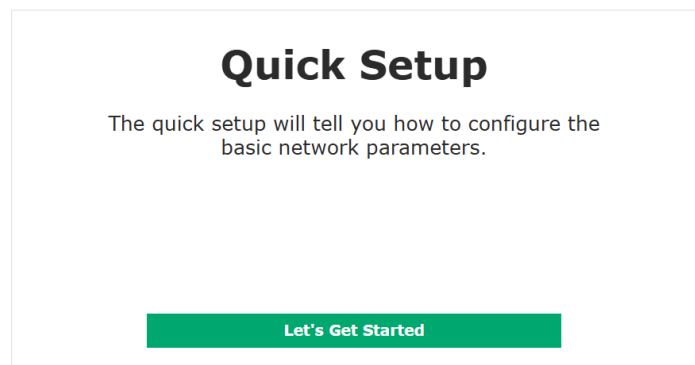
Low Middle High

Confirm Password:

Allow Data Collection: ☐ Enable ⓘ

Next

5. Follow the step-by-step web instructions to complete the initial setup.



**Quick Setup**

The quick setup will tell you how to configure the basic network parameters.

Let's Get Started

Generally, you need to configure the SSID and password for WiFi connection.

If you connect to the Main AP of a Bridge kit product, the system will automatically scan for the Client AP in the kit and connect it to the network.

6. Enjoy the internet!

Now you can connect your phones, tablets and laptops to the new WiFi and surf the internet.

**Note:**

If you cannot access the internet, refer to [Troubleshooting of wireless issues for Omada EAP products](#).

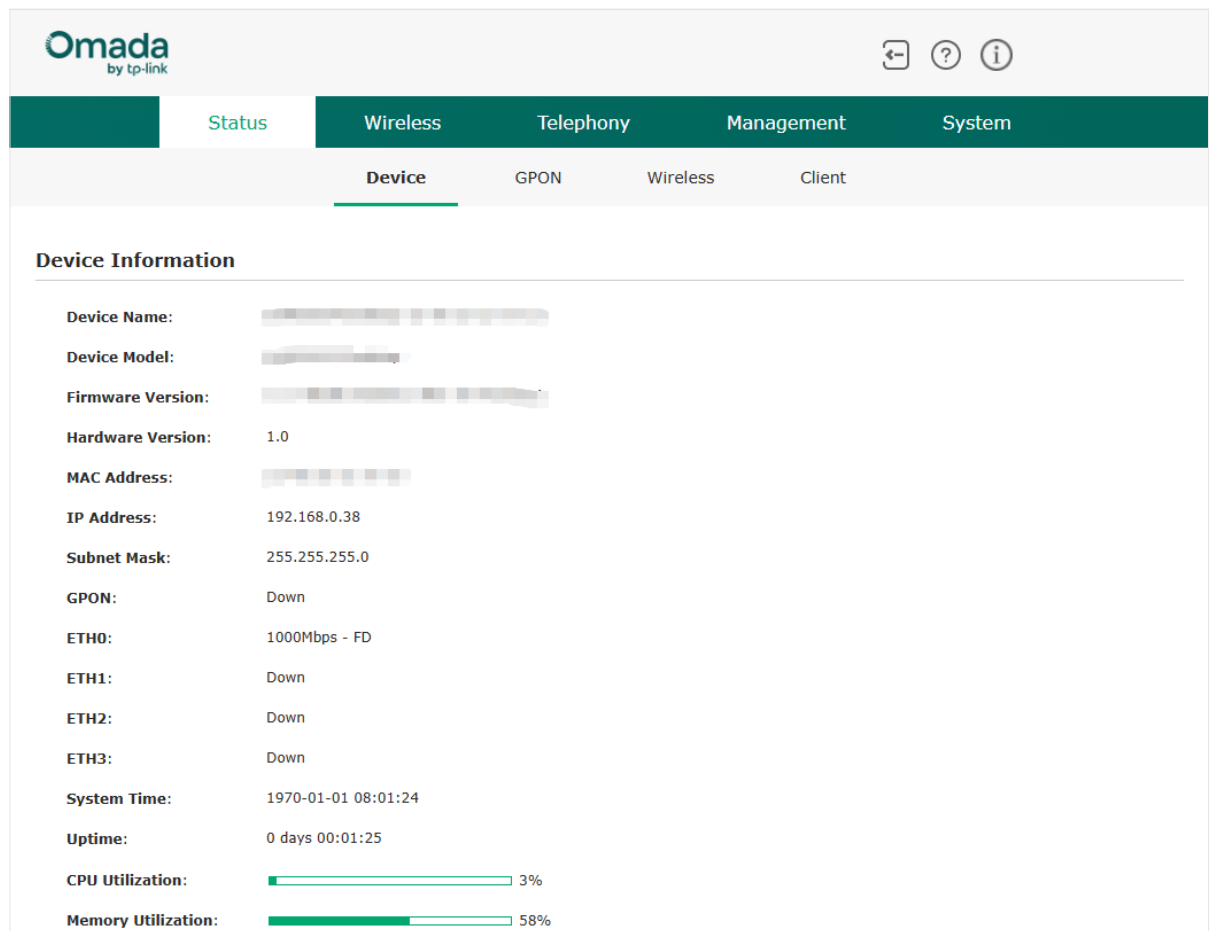
### 1.3.3 Configure the Telephony Service (Only for GPON APs)

For GPON APs, if you want to make telephone calls over the internet, you need to go to the **Telephony** page and set up the telephone number with the information provided by your telephony service provider. For detailed instructions, refer to [5.1 Configure Telephone Numbers](#).

## **2** *System Overview*

This chapter provides a brief introduction to the web management page so you can quickly find the functions you need under the corresponding tabs:

If you use the web browser to configure your EAP, you can configure more advanced functions according to your needs, and manage it conveniently on the web page.



On the top of the page, you can:

Click  to log out.

Click  to open the technical support website.

The tabs on the page allow you to access different configurations. The following table introduces what you can configure under each tab, and the following chapters discuss these topics in detail.

<b>Status</b>	You can view the information of the EAP, GPON (only for GPON APs), wireless traffic and clients.
<b>Wireless</b>	You can configure wireless features, such as wireless radio settings, Portal, VLAN, MAC Filtering, Scheduler, Band Steering, QoS, and more.
<b>Telephony</b> (Only for GPON APs)	You can configure the telephone service, such as telephone numbers, telephony devices, telephone book, call logs, and more.

---

Management	You can manage the EAP using the management features, such as System Logs, Web Server, Management Access, LED Control, SSH, SNMP, and more.
System	You can configure the system parameters, such as the login account, system time, and more. In addition, you can reboot and reset the EAP, backup and restore configurations, and update the firmware.

---

# 3 *Configure the Network*

This chapter introduces how to configure the network parameters and the advanced features of the EAP, including:

- *3.1 Configure the Wireless Parameters*
- *3.2 Configure Portal Authentication*
- *3.3 Configure VLAN*
- *3.4 Configure MAC Filtering*
- *3.5 Configure Scheduler*
- *3.6 Configure Band Steering*
- *3.7 Configure QoS*
- *3.8 Configure Rogue AP Detection*
- *3.9 Configure Smart Antenna (Only for Certain Devices)*

### 3.1 Configure the Wireless Parameters

To configure the wireless parameters, go to the **Wireless > Wireless Settings** page.

2.4GHz5GHz

2.4GHz Wireless Radio

2.4GHz Wireless Radio: ☒ Enable

Save

2.4GHz SSIDs

+ Add

ID	SSID	VLAN ID	SSID Broadcast	Security Mode	Guest Network	Action
1	6035	0	Enable	WPA-Personal	Disable	

2.4GHz Wireless Advanced Settings

Radio Settings | Load Balance | Airtime Fairness | More Settings

Wireless Mode:

802.11b/g/n/ax mixed

Channel Width:

Auto

Channel:

Auto

Tx Power:

20

dBm(4-25)

Save

For an Indoor/Outdoor Wi-Fi 7 AP of EU version, you can set the Installation Type if needed.

General Setting

Installation Type: 

Default Mode

Note:  
The Default mode is recommended. In Default mode, the device will adjust the Indoor/Outdoor mode of the 5GHz/6GHz band according to local regulations.

Installation Type	<p>Choose the installation mode of the device.</p> <p><b>Default Mode:</b> In this mode, the device will adjust the Indoor/Outdoor mode of the 5GHz/6GHz band according to local regulations. This mode is recommended.</p> <p><b>Indoor Mode / Outdoor Mode:</b> If selected, the device will adjust 5GHz/6GHz channel power bandwidth parameters for indoor / outdoor usage.</p>
-------------------	--

For a multi-band EAP, you can click each band to enable Wireless Radio and configure wireless parameters.

Demonstrated with 2.4GHz, the following sections introduce these contents: [3.1.1 Configure SSIDs](#) and [3.1.2 Configure Wireless Advanced Settings](#).

### 3.1.1 Configure SSIDs

SSID (Service Set Identifier) is used as an identifier for a wireless LAN, and is commonly called as the “network name”. Clients can find and access the wireless network through the SSID.

Follow the steps below to create an SSID on the EAP:

1. Go to **Wireless > Wireless Settings**. Click a band on which the new SSID will be created.
2. (For a Wi-Fi 7 AP of US version) If you click the 6GHz band, you need to enable AFC before you can configure the band.

**6GHz AFC**

AFC:

☒ Enable ⓘ

☒ I accept the [Terms of Use](#) and confirm that I have fully read and understood the [Privacy Policy](#).

**AFC**

(For a Wi-Fi 7 AP of US version) Enable this feature to use the 6GHz band.

The AFC (Automated Frequency Coordination) feature adjusts the transmission power of the 6 GHz band according to your geographic location to meet regulatory requirements.

4. Click **Add** to add a new SSID on the chosen band.

ID	SSID	VLAN ID	SSID Broadcast	Security Mode	Guest Network	Action
--	--	--	--	--	--	--

SSID:

SSID Broadcast:

☒ Enable

Security Mode:

None ▾

Guest Network:

☐ Enable ⓘ

OK

Cancel

5. Configure the following required parameters for this SSID:



SSID	Specify a name for the wireless network.
SSID Broadcast	With the option enabled, EAP will broadcast the SSID to the nearby hosts, so that those hosts can find the wireless network identified by this SSID. If this option is disabled, users must enter the SSID manually to connect to the EAP.
Security Mode	<p>Select the security mode of the wireless network. There are four options:</p> <p><b>None:</b> Clients can access the wireless network without authentication.</p> <p><b>WEP / WPA-Enterprise / WAP-Personal:</b> Clients need to pass the authentication before accessing the wireless network.</p> <p><b>For 6GHz:</b></p> <p><b>Enhanced Open:</b> Enhanced Open is a Wi-Fi Alliance certification that preserves the convenience open networks offer while reducing some of the risks associated with accessing an unsecured network.</p> <p><b>WPA3-Enterprise / WAP3-Personal:</b> Clients need to pass the authentication before accessing the wireless network.</p> <p>For network security, we recommend that you encrypt your wireless network. The following sections will introduce how to configure these security modes.</p>
Guest Network	With this option enabled, guest network will block clients from reaching any private IP subnet.
Rate Limit	<p>(Only for certain models)</p> <p>With this option enabled, the download and upload rate of each client which connects to the SSID will be limited to balance bandwidth usage.</p> <p>You can limit the download and upload rate for some specific clients by configuring rate limit in client list, refer to <a href="#">View Client Information</a> to get more details.</p> <p>Note that the download and upload rate will be limited to the smaller value if you set the limit value both in SSID and client configuration.</p>

6. Click **OK** to create the SSID.

Following is the detailed instructions about how to configure [WEP](#), [WPA-Enterprise](#), [WPA-Personal](#), [WPA3-Enterprise](#), and [WAP3-Personal](#)

- **WEP (for certain models)**

WEP (Wired Equivalent Privacy) is a traditional encryption method. It has been proved that WEP has security flaws and can easily be cracked, so WEP cannot provide effective protection for wireless networks. Since WPA-Personal and WPA-Enterprise are much

safer than WEP, we recommend that you choose WPA-Personal or WPA-Enterprise if your clients also support them.

**Note:**

WEP is not supported in 802.11n mode or 802.11ac mode. If WEP is applied in 802.11n, 802.11 ac or 802.11n/ac mixed mode, the clients may not be able to access the wireless network. If WEP is applied in 802.11b/g/n mode (2.4GHz) or 802.11a/n (5GHz), the EAP may work at a low transmission rate.

The following table detailedly introduces how to configure each item:

Type	Select the authentication type for WEP.  <b>Auto:</b> The EAP can select Open System or Shared Key automatically based on the wireless capability and request of the clients.  <b>Open System:</b> Clients can pass the authentication and associate with the wireless network without password. However, correct password is necessary for data transmission.  <b>Shared Key:</b> Clients have to input the correct password to pass the authentication, otherwise the clients cannot associate with the wireless network or transmit data.
Key Selected	Select one key to specify. You can configure four keys at most.
WEP Key Format	Select ASCII or Hexadecimal as the WEP key format.  <b>ASCII:</b> With this format selected, the WEP key can be any combination of keyboard characters of the specified length.  <b>Hexadecimal:</b> With this format selected, the WEP key can be any combination of hexadecimal digits (0-9, a-f, A-F) with the specified length.
Key Type	Select the WEP key length for encryption.  <b>64Bit:</b> Enter 10 hexadecimal digits or 5 ASCII characters.  <b>128Bit:</b> Enter 26 hexadecimal digits or 13 ASCII characters.  <b>152Bit:</b> Enter 32 hexadecimal digits or 16 ASCII characters.
Key Value	Enter the WEP keys. The length and valid characters are determined by the key format and key type.

- **WPA-Enterprise (for certain models)**

WPA-Enterprise (Wi-Fi Protected Access-Enterprise) is a safer encryption method compared with WEP and WPA-Personal. It requires a RADIUS server to authenticate the clients via 802.1X and EAP (Extensible Authentication Protocol). WPA-Enterprise can generate different passwords for different clients, which ensures higher network security. But it also costs more to maintain the network, so it is more suitable for business networks.

The following table introduces how to configure each item:

Version	Select the version of WPA-Enterprise according to your needs. If you select WPA/WPA2-Enterprise, the EAP automatically decides whether to use WPA-Enterprise or WPA2-Enterprise during the authentication process.
Encryption	<p>Select the Encryption type. Note that some encryption type is only available under certain circumstances.</p> <p><b>Auto:</b> The default setting is Auto and the EAP will select TKIP or AES automatically based on the client device's request.</p> <p><b>TKIP:</b> Temporal Key Integrity Protocol. TKIP is not supported in 802.11n mode, 802.11ac mode or 802.11n/ac mixed mode. If TKIP is applied in 802.11n, 802.11 ac or 802.11n/ac mixed mode, the clients may not be able to access the wireless network. If TKIP is applied in 11b/g/n mode (2.4GHz) or 11a/n mode(5GHz), the device may work at a low transmission rate.</p> <p><b>AES:</b> Advanced Encryption Standard. It is securer than TKIP.</p>
RADIUS Server IP	Enter the IP address of the RADIUS Server.
RADIUS Port	Enter the port number of the RADIUS Server.
RADIUS Password	Enter the shared secret key of the RADIUS server.
RADIUS Accounting	Enable or disable RADIUS accounting feature.
Accounting Server IP	Enter the IP address of the accounting server.
Accounting Server Port	Enter the port number of the accounting server.
Accounting Server Password	Enter the shared secret key of the accounting server.
Interim Update	<p>With this option enabled, you can specify the duration between accounting information updates. By default, the function is disabled.</p> <p>Enter the appropriate duration between updates for EAPs in <b>Interim Update Interval</b>.</p>
Interim Update Interval	With Interim Update enabled, specify the appropriate duration between updates for EAPs. The default duration is 600 seconds.
Group Key Update Period	Specify an update period of the encryption key. The update period instructs how often the EAP should change the encryption key. 0 means that the encryption key does not change at anytime.

- **WPA-Personal (for certain models)**

WPA-Personal is based on a pre-shared key. It is characterized by high safety and simple settings, so it is mostly used by common households and small businesses.

The following table introduces how to configure each item:

Version	Select the version of WPA-Personal according to your needs. If you select WPA/WPA2-PSK, the EAP automatically decides whether to use WPA-PSK or WPA2-PSK during the authentication process.
Encryption	<p>Select the Encryption type. Note that some encryption type is only available under certain circumstances.</p> <p><b>Auto:</b> The default setting is Auto and the EAP will select TKIP or AES automatically based on the client device's request.</p> <p><b>TKIP:</b> Temporal Key Integrity Protocol. TKIP is not supported in 802.11n mode, 802.11ac mode or 802.11n/ac mixed mode. If TKIP is applied in 802.11n, 802.11 ac or 802.11n/ac mixed mode, the clients may not be able to access the wireless network. If TKIP is applied in 11b/g/n mode (2.4GHz) or 11a/n mode(5GHz), the device may work at a low transmission rate.</p> <p><b>AES:</b> Advanced Encryption Standard. It is securer than TKIP.</p>
Wireless Password	<p>Configure the wireless password with ASCII characters.</p> <ul style="list-style-type: none"><li>• For ASCII, the length should be between 8 and 63 and the valid characters contain numbers, letters (case-sensitive) and common punctuations.</li></ul>
Group Key Update Period	Specify an update period of the encryption key. The update period instructs how often the EAP should change the encryption key. 0 means that the encryption key does not change at anytime.

- **WPA3-Enterprise (for certain models)**

WPA3-Enterprise is a safer encryption method compared with WPA3-Personal. It requires a RADIUS server to authenticate the clients via 802.1X and AP (Extensible Authentication Protocol). WPA3-Enterprise can generate different passwords for different clients, which ensures higher network security. But it also costs more to maintain the network, so it is more suitable for business networks.

The following table introduces how to configure each item:

Encryption	Select the Encryption type: AES-GCM 256 or AES-CNSA.
RADIUS Server IP	Enter the IP address of the RADIUS Server.
RADIUS Port	Enter the port number of the RADIUS Server.
RADIUS Password	Enter the shared secret key of the RADIUS server.

RADIUS Accounting	Enable or disable RADIUS accounting feature.
Accounting Server IP	Enter the IP address of the accounting server.
Accounting Server Port	Enter the port number of the accounting server.
Accounting Server Password	Enter the shared secret key of the accounting server.
Interim Update	With this option enabled, you can specify the duration between accounting information updates. By default, the function is disabled.  Enter the appropriate duration between updates for APs in <b>Interim Update Interval</b> .
Interim Update Interval	With Interim Update enabled, specify the appropriate duration between updates for APs. The default duration is 600 seconds.
Group Key Update Period	Specify an update period of the encryption key. The update period instructs how often the AP should change the encryption key. 0 means that the encryption key does not change at anytime.

#### • WPA3-Personal (for certain models)

WPA-Personal is based on a pre-shared key. It is characterized by high safety and simple settings, so it is mostly used by common households and small businesses.

The following table introduces how to configure each item:

Wireless Password	Configure the wireless password with ASCII characters.  <ul style="list-style-type: none"> <li>For ASCII, the length should be between 8 and 63 and the valid characters contain numbers, letters (case-sensitive) and common punctuations.</li> </ul>
Group Key Update Period	Specify an update period of the encryption key. The update period instructs how often the AP should change the encryption key. 0 means that the encryption key does not change at anytime.

### 3.1.2 Configure Wireless Advanced Settings

Proper wireless advanced parameters can improve the performance of your wireless network.

This section introduces how to configure the advanced wireless parameters of the EAP, including *Radio Settings*, *Load Balance*, *Airtime Fairness* and *More Settings*.

- **Radio Settings**

Radio settings directly control the behavior of the radio in the EAP and its interaction with the physical medium; that is, how and what type of signal the EAP emits.

### 2.4GHz Wireless Advanced Settings

[Radio Settings](#) | [Load Balance](#) | [Airtime Fairness](#) | [More Settings](#)

Wireless Mode:	802.11b/g/n/ax mixed	▼
Channel Width:	Auto	▼
Channel:	Auto	▼
Tx Power:	20	dBm(4-25)

Save

**Note:**

For Sub-APs, the Wireless Mode, Channel Width, and Channel will follow the settings of their Main AP and cannot be edited.

To configure radio settings, follow the steps below:

1. Go to **Wireless > Wireless Settings**, click a band, locate the **Wireless Advanced Settings** section, and go to **Radio Settings**.
2. Configure the following parameters. Click **Save**.

Wireless Mode	<p>Select the IEEE 802.11 mode the radio uses.</p> <ul style="list-style-type: none"><li>• For 2.4GHz: <b>802.11b/g/n/ax/be mixed</b> is recommended so that all of 802.11b, 802.11g, 802.11n, 802.11ax, and 802.11be clients operating in the 2.4GHz frequency can connect to the AP. Note that some devices may not support 802.11ax and 802.11be; in this case, select the one with most types mixed.</li><li>• For 5GHz: <b>802.11a/n/ac/ax/be mixed</b> is recommended so that all of 802.11a, 802.11n, 802.11ac, 802.11ax, and 802.11be clients operating in the 5GHz frequency can connect to the AP. Note that some devices may not support 802.11ax and 802.11be; in this case, select the one with most types mixed.</li><li>• For 6GHz: <b>802.11ax/be mixed</b> is recommended so that all of 802.11ax and 802.11be clients operating in the 6GHz frequency can connect to the AP. Note that Wi-Fi 6E devices support 802.11ax only.</li></ul>
---------------	--

Channel Width	<p>Select the channel width of the AP. The available options differ among different APs.</p> <p>We recommend you set the channel bandwidth to Auto to improve the transmission speed. However, you may choose a lower bandwidth due to the following reasons:</p> <ul style="list-style-type: none"> <li>• To increase the available number of channels within the limited total bandwidth.</li> <li>• To avoid interference from overlapping channels occupied by other devices in the environment.</li> <li>• Lower bandwidth can concentrate higher transmit power, increasing stability of wireless links over long distances.</li> </ul>
Channel Limit	<p>Check the box to enable the Channel Limit function. With this function enabled, the wireless frequency 5150MHz~5350MHz will be disabled. This function can influence the available options in Channel.</p> <p>This feature is only available on certain devices. To check whether your device supports this feature, refer to the actual web interface.</p>
Channel	<p>Select the channel used by the EAP. For example, 1/2412MHz means that the channel is 1 and the frequency is 2412MHz.</p> <p>By default, the channel is automatically selected, and we recommend that you keep the default setting.</p>
Tx Power (EIRP)	<p>Specify the transmit power value.</p> <p>If this value is set to be larger than the maximum transmit power that is allowed by the local regulation, the regulated maximum transmit power will be applied in the actual situation.</p> <p><b>Note:</b> In most cases, it is unnecessary to use the maximum transmit power. Specifying a larger transmit power than needed may cause interference to the neighborhood. Also it consumes more power and reduces longevity of the device.</p>

## • Load Balance

With the Load Balance feature, you can limit the maximum number of clients who can access the EAP. In this way, you can achieve rational use of network resources.

## 2.4GHz Wireless Advanced Settings

[Radio Settings](#) | [Load Balance](#) | [Airtime Fairness](#) | [More Settings](#)

**Load Balance:**
☐ Enable

**Maximum Associated Clients:**
 (1-63)

To configure Load Balance, follow the steps below:

1. Go to **Wireless > Wireless Settings**, click a band, locate the **Wireless Advanced Settings** section, and go to **Load Balance**.
2. Check the box to enable Load Balance.
3. Specify the maximum number of clients who can connect to the EAP at the same time. While the number of connected clients has reached the limit and there are more clients requesting to access the network, the EAP will disconnect those with weaker signals.
4. Click **Save**.

### • Airtime Fairness

With Airtime Fairness enabled, each client connected to the EAP can get the same amount of time to transmit data, avoiding low-data-rate clients to occupy too much network bandwidth.

Compared with the relatively new client devices, some legacy client devices support slower wireless rate. If they communicate with the same EAP, the slower clients take more time to transmit and receive data compared with the faster clients. As a result, the overall wireless throughput of the network decreases.

Therefore we recommend you check the box to enable this function under multi-rate wireless networks. In this way, the faster clients can get more time for the data transmission and the network overall throughput can be improved.

## 2.4GHz Wireless Advanced Settings

[Radio Settings](#) | [Load Balance](#) | [Airtime Fairness](#) | [More Settings](#)

**Airtime Fairness:**
☐ Enable



### Note:

- Airtime Fairness is only available on certain devices. To check whether your device supports this feature, refer to the actual web interface.
- With Airtime Fairness enabled, 50 wireless clients at most can connect to the EAP in 2.4GHz band.

To configure Airtime Fairness, follow the steps below:

1. Go to **Wireless > Wireless Settings**, click a band, locate the **Wireless Advanced Settings** section, and go to **Airtime Fairness**.
2. Check the box to enable Airtime Fairness.
3. Click **Save**.

### • More Settings

Proper wireless parameters can improve the network's stability, reliability and communication efficiency.

**2.4GHz Wireless Advanced Settings**

[Radio Settings](#) | [Load Balance](#) | [Airtime Fairness](#) | [More Settings](#)

<b>Beacon Interval:</b>	<input type="text" value="100"/>	ms (40-100)
<b>DTIM Period:</b>	<input type="text" value="1"/>	(1-255)
<b>RTS Threshold:</b>	<input type="text" value="2347"/>	(1-2347)
<b>Fragmentation Threshold:</b>	<input type="text" value="2346"/>	(256-2346. This works only in 11b/g mode.)
<b>OFDMA:</b>	<input type="checkbox"/> Enable (This works only in 11ax mode.)	

**Note:**

OFDMA enables multiple users to transmit data simultaneously, and thus greatly improves speed and efficiency. Noted that only when your clients also support OFDMA, can you fully enjoy the benefits.

**Save**

To configure the following parameters, go to **Wireless > Wireless Settings**, click a band, locate the **Wireless Advanced Settings** section, and go to **More Settings**.

#### Beacon Interval

Beacons are transmitted periodically by the EAP to announce the presence of a wireless network for the clients. **Beacon Interval** determines the time interval of the beacons sent by the EAP.

You can specify a value between 40 and 100ms. The default is 100ms.

DTIM Period	<p>The DTIM (Delivery Traffic Indication Message) is contained in some Beacon frames. It indicates whether the EAP has buffered data for client devices. The <b>DTIM Period</b> indicates how often the clients served by this EAP should check for buffered data still on the EAP awaiting pickup.</p> <p>You can specify the value between 1-255 Beacon Intervals. The default value is 1, indicating that clients check for buffered data at every beacon. An excessive DTIM interval may reduce the performance of multicast applications, so we recommend you keep the default value.</p>
RTS Threshold	<p>RTS/CTS (Request to Send/Clear to Send) is used to improve the data transmission efficiency of the network with hidden nodes, especially when there are lots of large packets to be transmitted.</p> <p>When the size of a data packet is larger than the <b>RTS Threshold</b>, the RTS/CTS mechanism will be activated. With this mechanism activated, before sending a data packet, the client will send an RTS packet to the EAP to request data transmitting. And then the EAP will send CTS packet to inform other clients to delay their data transmitting. In this way, packet collisions can be avoided.</p> <p>For a busy network with hidden nodes, a low threshold value will help reduce interference and packet collisions. But for a not-so-busy network, a too low threshold value will cause bandwidth wasting and reduce the data throughput. The recommended and default value is 2347 bytes.</p>
Fragmentation Threshold	<p>The fragmentation function can limit the size of packets transmitted over the network. If the size of a packet exceeds the <b>Fragmentation Threshold</b>, the fragmentation function is activated and the packet will be fragmented into several packets.</p> <p>Fragmentation helps improve network performance if properly configured. However, a too low fragmentation threshold may result in poor wireless performance caused by the extra work of dividing up and reassembling of frames and increased message traffic. The recommended and default value is 2346 bytes.</p>
OFDMA	<p>OFDMA enables multiple users to transmit data simultaneously, and thus greatly improves speed and efficiency. Only when your clients also support OFDMA, can you fully enjoy the benefits.</p> <p>This feature is only available on certain devices. To check whether your device supports this feature, refer to the actual web interface.</p>
Non-PSC Channel	<p>Preferred Scanning Channels (PSCs) are channels that are prioritized within the 6 GHz WiFi band for efficient connectivity. Some clients may not discover 6GHz networks using non-PSC channels.</p> <p>This feature is only available on certain devices. To check whether your device supports this feature, refer to the actual web interface.</p>

3.1.3 Configure the MLO Network (Only for Wi-Fi 7 Devices)

MLO (Multi-Link Operation) enables Wi-Fi 7 devices to simultaneously send and receive data across different bands and channels. This ensures fast and reliable connections even in dense network environments.

To configure an MLO network, go to **Wireless > Wireless Settings > MLO** and click **Add**.

MLO SSIDs

Add

ID	SSID	Band	VLAN ID	SSID Broadcast	Security Mode	Guest Network	Action
--	--	--	--	--	--	--	--

SSID:

test

Band:

☒ 2.4GHz

☒ 5GHz

SSID Broadcast:

☒ Enable

Security Mode:

WPA-Personal

Version:

WPA2/WPA3-Personal

Encryption:

☐ Auto

☒ AES

Wireless Password:

Group Key Update Period:

0

seconds (30-8640000. 0 means no update.)

Guest Network:

☐ Enable

Rate Limit:

☐ Enable

OK

Cancel

Note::

MLO (Multi-Link Operation) enables Wi-Fi 7 devices to simultaneously send and receive data across different frequency bands and channels. This ensures fast and reliable connections even in dense network environments.

Configure the parameters and save the settings.

SSID	Specify a name for the MLO network.
Band	Select the bands to form the MLO network. Available band options may vary by model.
SSID Broadcast	With the option enabled, AP will broadcast the SSID to the nearby hosts, so that those hosts can find the wireless network identified by this SSID. If this option is disabled, users must enter the SSID manually to connect to the AP.
Security Mode/ Version/ Encryption	Configure the security settings of the wireless network. For detailed instructions, refer to <a href="#">3.1.1 Configure SSIDs</a> .

Guest Network	With this option enabled, guest network will block clients from reaching any private IP subnet.
Rate Limit	<p>With this option enabled, the download and upload rate of each client which connects to the SSID will be limited to balance bandwidth usage.</p> <p>You can limit the download and upload rate for some specific clients by configuring rate limit in client list, refer to <a href="#">View Client Information</a> to get more details.</p> <p>Note that the download and upload rate will be limited to the smaller value if you set the limit value both in SSID and client configuration.</p>

## 3.2 Configure Portal Authentication

**Note:** Bridge APs do not support this function.

Portal authentication provides authentication service to the clients that only need temporary access to the wireless network, such as the customers in a restaurant or in a supermarket. To access the network, these clients need to enter the authentication login page and use the correct login information to pass the authentication. In addition, you can customize the authentication login page and specify a URL which the authenticated clients will be redirected to.

In this module, you can also configure Free Authentication Policy, which allows the specific clients to access the specific network resources without authentication.

To configure portal authentication, go to the **Wireless > Portal** page.

The screenshot shows the 'Portal Configuration' page. It includes several configuration fields: 'SSID' with a dropdown menu set to '- Please Select -'; 'Authentication Type' with a dropdown menu set to 'No Authentication'; 'Authentication Timeout' with a dropdown menu set to '1 Hour' and a time picker showing 0 D, 0 H, and 0 M; 'Redirect' with an unchecked 'Enable' checkbox; 'Redirect URL' with an empty text input field; and 'Portal Customization' with a dropdown menu set to 'Local Web Portal'. Below these fields is a preview of the authentication login page, which contains a text input field, a 'Term of Use' section with a large text area, an unchecked checkbox for 'I accept the Term of Use', and a green 'Login' button. At the bottom left of the configuration area is a green 'Save' button.

### 3.2.1 Configure Portal

Three portal authentication types are available: *No Authentication*, *Local Password* and *External RADIUS Server*. The following sections introduce how to configure each authentication type.

- **No Authentication**

With this authentication type configured, clients can pass the authentication and access the network without providing any login information. They only need to accept the term of use on the authentication page.

Follow the steps below to configure No Authentication as the portal authentication type:

1. Select the SSID on which the portal will take effect.
2. Select **No Authentication** as the authentication type.
3. Configure the relevant parameters as the following table shows:

Authentication Timeout	<p>Specify the value of authentication timeout.</p> <p>A client's authentication will expire after the authentication timeout and the client needs to log in to the authentication page again to access the network.</p> <p>Options include <b>1 Hour, 8 Hours, 24 Hours, 7 Days</b>, and <b>Custom</b>. With <b>Custom</b> selected, you can customize the time in days, hours, and minutes.</p>
Redirect	<p>With this function configured, the newly authenticated client will be redirected to the specific URL.</p>
Redirect URL	<p>With <b>Redirect</b> enabled, you also need to enter the URL in this field. The newly authenticated client will be redirected to this URL.</p>
Portal Customization	<p>Configure the authentication page. <b>Local Web Portal</b> is the only available option in this authentication type. Enter the title and term of use in the two boxes.</p> <p>The EAP uses its built-in web server to provide this authentication page for clients. To pass the authentication, clients only need to check the box of <b>I accept the Term of Use</b> and click the <b>Login</b> button.</p>

4. Click **Save**.

- **Local Password**

With this authentication type configured, clients are required to provide the correct password to pass the authentication.

Follow the steps below to configure Local Password as the portal authentication type:

1. Select the SSID on which the portal will take effect.
2. Select **Local Password** as the authentication type.
3. Configure the relevant parameters as the following table shows:

Password	Specify a password for authentication.
Authentication Timeout	<p>Specify the value of authentication timeout.</p> <p>A client's authentication will expire after the authentication timeout and the client needs to log in to the authentication page again to access the network.</p> <p>Options include <b>1 Hour</b>, <b>8 Hours</b>, <b>24 Hours</b>, <b>7 Days</b>, and <b>Custom</b>. With <b>Custom</b> selected, you can customize the time in days, hours, and minutes.</p>
Redirect	With this function configured, the newly authenticated client will be redirected to the specific URL.
Redirect URL	With <b>Redirect</b> enabled, you also need to enter the URL in this field. The newly authenticated client will be redirected to this URL.
Portal Customization	<p>Configure the authentication page. <b>Local Web Portal</b> is the only available option is this authentication type. Enter the title and term of use in the two boxes.</p> <p>The EAP uses its built-in web server to provide this authentication page for clients. To pass the authentication, clients need to provide the correct password in the <b>Password</b> field, check the box of <b>I accept the Term of Use</b> and click the <b>Login</b> button.</p>

4. Click **Save**.

#### • External RADIUS Server

If you have a RADIUS server on the network to authenticate the clients, you can select **External Radius Server**. Clients need to provide the correct login information to pass the authentication.

Follow the steps below to configure External Radius Server as the portal authentication type:

1. Select the SSID on which the portal will take effect.
2. Build a RADIUS server on the network and make sure that it is reachable by the EAP.
3. Go to the **Portal** configuration page on the EAP. Select **External Radius Server** as the authentication type.

3. Configure the relevant parameters as the following table shows:

RADIUS Server IP	Enter the IP address of RADIUS server.
RADIUS Port	Enter the port of the RADIUS server.

RADIUS Password	Enter the password of the RADIUS server.
NAS ID	Configure a Network Access Server Identifier (NAS ID) using 1 to 64 characters on the portal. The NAS ID is sent to the RADIUS server by the EAP through an authentication request packet. With the NAS ID which classifies users to different groups, the RADIUS server can send a customized authentication response.
RADIUS Accounting	Enable or disable RADIUS accounting feature.
Accounting Server IP	Enter the IP address of the accounting server.
Accounting Server Port	Enter the port number of the accounting server.
Accounting Server Password	Enter the shared secret key of the accounting server.
Interim Update	<p>With this option enabled, you can specify the duration between accounting information updates. By default, the function is disabled.</p> <p>Enter the appropriate duration between updates for EAPs in <b>Interim Update Interval</b>.</p>
Interim Interval	With Interim Update enabled, specify the appropriate duration between updates for EAPs. The default duration is 600 seconds.
Authentication Timeout	<p>Specify the value of authentication timeout.</p> <p>A client's authentication will expire after the authentication timeout and the client needs to log in to the authentication page again to access the network.</p> <p>Options include <b>1 Hour, 8 Hours, 24 Hours, 7 Days</b>, and <b>Custom</b>. With <b>Custom</b> selected, you can customize the time in days, hours, and minutes.</p>
Redirect	With this function configured, the newly authenticated client will be redirected to the specific URL.
Redirect URL	With <b>Redirect</b> enabled, you also need to enter the URL in this field. The newly authenticated client will be redirected to this URL.



---

## Portal Customization

Configure the authentication page. There are two options: **Local Web Portal** and **External Web Portal**.

- Local Web Portal

Enter the title and term of use in the two boxes. The EAP uses its built-in web server to provide this authentication page for clients. To pass the authentication, clients need to provide the correct username and password in the **Username** and **Password** fields, check the box of **I accept the Term of Use** and click the **Login** button.

- External Web Portal

With External Web Portal configured, the authentication page will be provided by the web portal server built on the network. To configure External Web Portal, you need to complete the following configurations:

1. Build an external web portal server on your network and make sure that it is reachable by the EAP.
2. On this configuration page, enter the URL of the authentication page provided by the external portal server.
3. Add the external web portal server to the **Free Authentication Policy** list. In this way, clients can access the web portal server before authenticated. For details about how to configure Free Authentication Policy, refer to [3.2.2 Configure Free Authentication Policy](#).

- 
4. Click **Save**.

### 3.2.2 Configure Free Authentication Policy

Free Authentication Policy allows some specific clients to access the specific network resources without authentication. For example, you can set a free authentication policy to allow clients to visit the external web portal server before authenticated. In this way, the clients can visit the login page provided by the web portal server and then pass the subsequent authentication process.

### Free Authentication Policy

Add

ID	Policy Name	Source IP Range	Destination IP Range	Source MAC Address	Destination Port	Status	Settings
--	--	--	--	--	--	--	--

Policy Name:

Source IP Range:

0.0.0.0 / (Optional)

Destination IP Range:

0.0.0.0 / (Optional)

Source MAC Address:

00-00-00-00-00-00 (Optional)

Destination Port:

(Optional)

Status:

☒ Enable

OK Cancel

Follow the steps below to add free authentication policy.

1. In the **Free Authentication Policy** section, click **Add**.
2. Configure the following parameters. When all the configured conditions are met, the client can access the network without authentication.

Policy Name	Specify a name for the policy.
Source IP Range	<p>Specify an IP range with the subnet and mask length. The clients in this IP range can access the network without authentication.</p> <p>Leaving the field empty means that clients with any IP address can access the specific resources.</p>
Destination IP Range	<p>Specify an IP range with the subnet and mask length. The devices in this IP range can be accessed by the clients without authentication.</p> <p>Leaving the field empty means that all devices in the LAN can be accessed by the specific clients.</p>
Source MAC Address	<p>Specify the MAC address of the client, who can access the specific resources without authentication.</p> <p>Leaving the field empty means that clients with any MAC address can access the specific resources.</p>
Destination Port	<p>Specify the port number of the service. When using this service, the clients can access the specific resources without authentication.</p> <p>Leaving the field empty means that clients can access the specific resources no matter what service they are using.</p>
Status	Check the box to enable the policy.

**Tip:**

When External Web Portal is configured in the portal configuration, you should set the IP address and subnet mask of the external web server as the **Destination IP Range**. As for **Source IP Range**, **Source MAC Address** and **Destination Port**, you can simply keep them as empty or configure them according to your actual needs.

3. Click **OK** to add the policy.

### 3.3 Configure VLAN

Wireless VLAN is used to set VLANs for the wireless networks. With this feature, the EAP can work together with the switches supporting 802.1Q VLAN. Traffic from the clients in different wireless networks will be added with different VLAN tags according to the VLAN settings of the wireless networks. The wireless clients in different VLANs cannot directly communicate with each other. Note that the traffic from the wired clients will not be added with VLAN tags.

To configure VLAN for the wireless network, go to the **Wireless > VLAN** page (for common APs) or the **Wireless > Wireless Settings** page (for Bridge APs) .

**VLAN ID**

ID	SSID Name	Band	VLAN	VLAN ID
1	603	2.4GHz	Disable ▼	0
2	6035	5GHz	Disable ▼	0

Save

Follow the steps below to configure VLAN on this page.

1. Select the specific SSID in the list to configure the VLAN.
2. In the **VLAN** column, select **Enable** to enable the VLAN function on the SSID.
3. Specify the VLAN ID for the wireless network in the **VLAN ID** column. Every VLAN ID represents a different VLAN. It supports maximum 8 VLANs per frequency band. The VLAN ID range is 0 to 4094. 0 is used to disable VLAN tagging.
4. Click **Save**.

## 3.4 Configure MAC Filtering

**Note:** Bridge APs do not support this function.

MAC Filtering is used to allow or block the clients with specific MAC addresses to access the network. With this feature you can effectively control clients' access to the wireless network according to your needs.

To configure MAC Filtering, go to the **Wireless > MAC Filtering** page.

### Settings

Enable MAC Filtering: ☒ Enable

**Save**

### Station MAC Group

[+ Create Groups](#)

### MAC Filtering Association

ID	SSID	Band	MAC Group Name	Action
1	603	2.4GHz	None	Deny
2	6035	5GHz	None	Deny

**Note:**  
Deny: Block access from the stations in the MAC Group list.  
Allow: Only allow access from the stations in the MAC Group list.

**Save**

Follow the steps below to configure MAC Filtering on this page:

1. In the **Settings** section, check the box to enable **MAC Filtering**, and click **Save**.
2. In the **Station MAC Group** section, click **Create Group** and the following page will appear.

### Station MAC Group

[+ Add a Group](#)

MAC Group Name	Modify
--	--

[+ Add a Group Member](#)

ID	MAC Address	Modify
--	--	--

- 1) Click **Add a Group** and specify a name for the MAC group to be created. Click **OK**.  
You can create more MAC groups if needed.

- 2) Select a MAC group in the group list. Click **Add a Group Member** to add group members to the MAC group. Specify the MAC address of the host and click **OK**. In the same way, you can add more MAC addresses to the selected MAC group.
3. In the **MAC Filtering Association** section, configure the filtering rule. For each SSID, you can select a MAC group in the **MAC Group Name** column and select the filtering rule (**Allow/Deny**) in the **Action** column. Click **Save**.

For example, the following configuration means that the hosts in Group2 are denied to access the SSID **SSID-1** on the 2.4GHz band and allowed to access the SSID **SSID-2** on the 5GHz band.

**MAC Filtering Association**

ID	SSID	Band	MAC Group Name	Action
1	SSID-1	2.4GHz	Group2 ▼	Deny ▼
2	SSID-2	5GHz	Group2 ▼	Allow ▼

**Note:**

Deny: Block access from the stations in the MAC Group list.  
Allow: Only allow access from the stations in the MAC Group list.

Save

## 3.5 Configure Scheduler

**Note:** Bridge APs do not support this function.

With the Scheduler feature, the EAP or its wireless network can automatically turn on or off at the time you set. For example, you can schedule the radio to operate only during the office working time to reduce power consumption.

To configure Scheduler, go to the **Wireless > Scheduler** page.

### Settings

**Scheduler:** ☒ Enable

**Association Mode:** Associated with SSID ▼

Save

### Profile

+ Create Profiles

### Scheduler Association

ID	SSID	Band	Profile Name	Action
1	603	2.4GHz	None ▼	Radio Off ▼
2	6035	5GHz	None ▼	Radio Off ▼

Save

Follow the steps below to configure Scheduler on this page:

1. In the **Settings** section, check the box to enable **Scheduler** and select the **Association Mode**. There are two modes: **Associated with SSID** (the scheduler profile will be applied to the specific SSID) and **Associated with AP** (the profile will be applied to all SSIDs on the EAP). Then click **Save**.
2. In the **Scheduler Profile Configuration** section, click **Create Profiles** and the following page will appear.

### Profile

+ Add a Profile

Profile Name	Modify
--	--

➔

+ Add an item

ID	Profile Name	Days	Start Time	End Time	Modify
--	--	--	--	--	--

- 1) Click **Add a Profile** and specify a name for the profile to be created. Click **OK**. You can create more profiles if needed.

- 2) Select a profile in the list. Click **Add an item** to add time range items to the profile. Specify the **Day**, **Start Time** and **End Time** of the time range, and click **OK**.

**Tip:**

You can add multiple time range items for one profile. If there are several time range items in one profile, the time range of this profile is the sum of all of these time ranges.

3. In the **Scheduler Association** section, configure the scheduler rule. There are two association modes: *Association with SSID* and *Association with AP*. The following sections introduce how to configure each mode.

■ **Association with SSID**

If you select **Association with SSID** in step 1, the Scheduler Association table will display all the SSIDs on the EAP. For each SSID, you can select a profile in the **Profile Name** column and select the scheduler rule (**Radio On/Radio Off**) in the **Action** column. Then click **Save**.

For example, the following configuration means that during the time range defined in Profile-2, the radio of SSID **SSID-1** is on and the radio of SSID **SSID-2** is off.

**Scheduler Association**

ID	SSID	Band	Profile Name	Action
1	SSID-1	2.4GHz	Profile-2 ▼	Radio On ▼
2	SSID-2	5GHz	Profile-2 ▼	Radio Off ▼

Save

■ **Association with AP**

If you select **Association with AP** in step 1, the Scheduler Association table will display the name and MAC address of the EAP. Select a profile in the **Profile Name** column and select the scheduler rule (**Radio On/Radio Off**) in the **Action** column. Then click **Save**.

For example, the following configuration means that during the time range defined in Profile2, the radio of all SSIDs on the EAP-1 is on.

**Scheduler Association**

ID	AP	AP MAC	Profile Name	Action
1	EAP-1	■■■■■■■■■■	Profile-2 ▼	Radio On ▼

Save



## 3.6 Configure Band Steering

**Note:** Bridge APs do not support this function.

A client device that is capable of communicating on multiple frequency bands will typically connect to the 2.4GHz band. However, if too many client devices are connected to an AP on the same band, the efficiency of communication will be diminished. Band Steering can steer multi-band clients to different bands to greatly improve the network quality.

To configure Band Steering, go to the **Wireless > Band Steering** page.

**Band Steering**

**Band Steering:** Disable ▾

**Note:**  
To run the Band Steering function on an SSID, please create the SSIDs on both of the 2GHz and 5GHz bands and make sure they have the same name, security mode and wireless password.

Save

---

### Band Steering

Configure the Band Steering function.

**Disable:** The AP will not steer clients.

**Prefer 5GHz/6GHz:** The AP will steer clients to the 5GHz and 6GHz in priority.

**Balance:** The AP will balance client connections among different bands.

---

## 3.7 Configure QoS

**Note:** Bridge APs do not support this function.

Quality of service (QoS) is used to optimize the throughput and performance of the EAP when handling differentiated wireless traffic, such as Voice-over-IP (VoIP), other types of audio, video, streaming media, and traditional IP data.

In QoS configuration, you should set parameters on the transmission queues for different types of wireless traffic and specify minimum and maximum wait time for data transmission. In normal use, we recommend that you keep the default values.

To configure QoS, go to the **Wireless > QoS** page.

2.4GHz5GHz

**AP EDCA Parameters**

Queue	Arbitration Inter-Frame Spacing	Minimum Contention Window	Maximum Contention Window	Maximum Burst
Data 0 (Voice)	1	3	7	1504
Data 1 (Video)	1	7	15	3008
Data 2 (Best Effort)	3	15	63	0
Data 3 (Background)	7	15	1023	0

**Station EDCA Parameters**

Queue	Arbitration Inter-Frame Spacing	Minimum Contention Window	Maximum Contention Window	TXOP Limit
Data 0 (Voice)	2	3	7	1504
Data 1 (Video)	2	7	15	3008
Data 2 (Best Effort)	3	15	1023	0
Data 3 (Background)	7	15	1023	0

**No Acknowledgement:** ☐ Enable

**Unscheduled Automatic Power Save Delivery:** ☒ Enable

Save

Follow the steps below to configure QoS on this page:

1. Click a band to be configured.
2. In the **AP EDCA Parameters** section, configure the AP EDCA ((Enhanced Distributed Channel Access) parameters. AP EDCA parameters affect traffic flowing from the EAP to the client station. The following table detailedly explains these parameters.

The following table detailedly explains these parameters:

Queue	<p>Displays the transmission queue. By default, the priority from high to low is Data 0, Data 1, Data 2, and Data 3. The priority may be changed if you reset the EDCA parameters.</p> <p><b>Data 0 (Voice):</b> Highest priority queue, minimum delay. Time-sensitive data such as VoIP and streaming media are automatically sent to this queue.</p> <p><b>Data 1 (Video):</b> High priority queue, minimum delay. Time-sensitive video data is automatically sent to this queue.</p> <p><b>Data 2 (Best Effort):</b> Medium priority queue, medium throughput and delay. Most traditional IP data is sent to this queue.</p> <p><b>Data 3 (Background):</b> Lowest priority queue, high throughput. Bulk data that requires maximum throughput and is not time-sensitive is sent to this queue (FTP data, for example).</p>
Arbitration Inter-Frame Space	A wait time for data frames. The wait time is measured in slots. Valid values are from 0 to 15.
Minimum Contention Window	<p>A list to the algorithm that determines the initial random backoff wait time (window) for retry of a transmission.</p> <p>This value cannot be higher than the value of Maximum Contention Window.</p>
Maximum Contention Window	<p>The upper limit (in milliseconds) for the doubling of the random backoff value. This doubling continues until either the data frame is sent or the Maximum Contention Window size is reached.</p> <p>This value must be higher than the value of Minimum Contention Window.</p>
Maximum Burst	Maximum Burst specifies the maximum burst length allowed for packet bursts on the wireless network. A packet burst is a collection of multiple frames transmitted without header information. The decreased overhead results in higher throughput and better performance.

3. In the **Station EDCA Parameters** section, configure the station EDCA (Enhanced Distributed Channel Access) parameters. Station EDCA parameters affect traffic flowing from the client station to the EAP.

The following table detailedly explains these parameters:

Queue	<p>Displays the transmission queue. By default, the priority from high to low is Data 0, Data 1, Data 2, and Data 3. The priority may be changed if you reset the EDCA parameters.</p> <p><b>Data 0 (Voice):</b> Highest priority queue, minimum delay. Time-sensitive data such as VoIP and streaming media are automatically sent to this queue.</p> <p><b>Data 1 (Video):</b> High priority queue, minimum delay. Time-sensitive video data is automatically sent to this queue.</p> <p><b>Data 2 (Best Effort):</b> Medium priority queue, medium throughput and delay. Most traditional IP data is sent to this queue.</p> <p><b>Data 3 (Background):</b> Lowest priority queue, high throughput. Bulk data that requires maximum throughput and is not time-sensitive is sent to this queue (FTP data, for example).</p>
Arbitration Inter-Frame Space	A wait time for data frames. The wait time is measured in slots. Valid values are from 0 to 15.
Minimum Contention Window	<p>A list to the algorithm that determines the initial random backoff wait time (window) for retry of a transmission.</p> <p>This value cannot be higher than the value of Maximum Contention Window.</p>
Maximum Contention Window	<p>The upper limit (in milliseconds) for the doubling of the random backoff value. This doubling continues until either the data frame is sent or the Maximum Contention Window size is reached.</p> <p>This value must be higher than the value of Minimum Contention Window.</p>
TXOP Limit	<p>The TXOP Limit is a station EDCA parameter and only applies to traffic flowing from the client station to the EAP.</p> <p>The Transmission Opportunity (TXOP) is an interval of time, in milliseconds, when a WME (Wireless Multimedia Extensions) client station has the right to initiate transmissions onto the wireless medium (WM) towards the EAP. The valid values are multiples of 32 between 0 and 8192.</p>

4. Choose whether to enable the following two options according to your need.

No Acknowledgment	With this option enabled, the EAP would not acknowledge frames with QosNoAck. No Acknowledgment is recommended if VoIP phones access the network through the EAP.
Unscheduled Automatic Power Save Delivery	As a power management method, it can greatly improve the energy-saving capacity of clients.

5. Click **Save**.

## 3.8 Configure Rogue AP Detection

A Rogue AP is an access point that is installed on a secure network without explicit authorization from the network administrator. With Rogue AP Detection, the EAP can scan all channels to detect the nearby APs and display the detected APs in the Detected Rogue AP list. If the specific AP is known as safe, you can move it to the Trusted APs list. Also, you can backup and import the Trusted AP list as needed.

### Note:

The Rogue AP Detection feature is only used for collecting information of the nearby wireless network and does not impact the detected APs, no matter what operations you have executed in this feature.


To configure Rogue AP Detection, go to the **Wireless > Rogue AP Detection** page.

### Settings

Rogue AP Detection: ☐ Enable

**Save**

### Detected Rogue AP List

 Scan

MAC	SSID	Band	Channel	Security	Beacon Interval	Signal	Action
--	--	--	--	--	--	--	--

### Trusted AP List

MAC	SSID	Band	Channel	Security	Action
--	--	--	--	--	--

### Download/Backup Trusted AP List

Save Action: ☒ Download (PC to AP) ☐ Backup (AP to PC)

Source File Name:  **Browse**

File Management: ☒ Replace ☐ Merge








**Save**

### 3.8.1 Manage the Rogue AP List

Follow the steps below to detect the nearby APs and move the trusted ones to the Trusted AP list.

1. In the **Settings** section, check the box to enable **Rogue AP Detection**. Click **Save**.

2. In the **Detected Rogue AP List** section, click **Scan**.
3. Wait for a few seconds without any operation. After detection is finished, the detected APs will be displayed in the list.

MAC	SSID	Band	Channel	Security	Beacon Interval	Signal	Action
00:0A:EB:13:09:17	C7v3_5G	5.0	36	ON	100		Known
00:0A:EB:13:09:18	C7v3	2.4	11	ON	100		Known
00:0A:EB:13:7A:FD	TP-Link_7B00_5G_1	5.0	36	ON	100		Known
00:0A:EB:13:7A:FE	TP-Link_7B00_5G_2	5.0	36	ON	100		Known
00:0A:EB:13:7A:FF	TP-Link_7B00	2.4	1	ON	100		Known
00:0A:EB:13:7B:01	RvR5	5.0	48	OFF	100		Known
00:1D:0F:E3:33:B1	Camera	2.4	4	ON	100		Known
00:20:02:16:38:22	TP-LINK_2.4G_3822	2.4	1	ON	100		Known
02:71:CC:4C:16:B8	DIRECT-na-BRAVIA	2.4	11	ON	100		Known
06:18:D6:C1:92:23	qwer	2.4	6	OFF	100		Known

The following table introduces the displayed information of the APs:

<b>MAC</b>	Displays the MAC address of the AP.
<b>SSID</b>	Displays the SSID of the AP.
<b>Band</b>	Displays the frequency band the AP is working on.
<b>Channel</b>	Displays the channel the AP is using.
<b>Security</b>	Displays whether the security mode is enabled on the AP.
<b>Beacon Interval</b>	Displays the Beacon Interval value of the EAP.  Beacon frames are sent periodically by the AP to announce to the stations the presence of a wireless network. Beacon Interval determines the time interval of the beacon frames sent by the AP device.
<b>Signal</b>	Displays the signal strength of the AP.

4. To move the specific AP to the Trusted AP list, click **Known** in the **Action** column. For example, you can move the first two APs in the above Detected Rogue AP list to the Trusted AP list.

5. View the trusted APs in the **Trusted AP List** section. To move the specific AP back to the Rogue AP list, you can click **Unknown** in the **Action** column.

Trusted AP List					
MAC	SSID	Band	Channel	Security	Action
00:0A:EB:13:7A:FD	TP-Link_7B00_5G_1	5.0	36	ON	<a href="#">Unknown</a>
00:0A:EB:13:7A:FE	TP-Link_7B00_5G_2	5.0	36	ON	<a href="#">Unknown</a>

### 3.8.2 Manage the Trusted AP List

You can download the trusted AP list from your local host to the EAP or backup the current Trusted AP list to your local host.

- **Download the Trusted AP List From the Host**

You can import a trusted AP list which records the MAC addresses of the trusted APs. The AP whose MAC address is in the list will not be detected as a rogue AP.

**Download/Backup Trusted AP List**

Save Action:

☒ Download (PC to AP) ☐ Backup (AP to PC)

Source File Name:

Browse

File Management:

☒ Replace ☐ Merge

Save

Follow the steps below to import a trusted AP list to the EAP:

1. Acquire the trusted AP list. There are two ways:
  - Backup the list from a EAP. For details, refer to [Backup the Trusted AP List to the Host](#).
  - Manually create a trusted AP list. Create a txt. file, input the MAC addresses of the trusted APs in the format XX:XX:XX:XX:XX:XX and use the Space key to separate each MAC address. Save the file as a **cfg** file.
2. On this page, check the box to choose **Download (PC to AP)**.
3. Click **Browse** and select the trusted AP list from your local host.
4. Select the file management mode. Two modes are available: **Replace** and **Merge**. Replace means that the current trusted AP list will be replaced by the one you import. Merge means that the APs in the imported list will be added to the current list with the original APs remained.

5. Click **Save** to import the trusted AP list.

- **Backup the Trusted AP List to the Host**

You can backup the current trusted AP list and save the backup file to the local host.

**Download/Backup Trusted AP List**

**Save Action:** ☐ Download (PC to AP) ☒ Backup (AP to PC)

**Save**

Follow the steps below to backup the current trusted AP list:

1. On this page, check the box to choose **Backup (AP to PC)**.
2. Click **Save** and the current trusted AP list will be downloaded to your local host as a **cfg** file.



## 3.9 Configure Smart Antenna (Only for Certain Devices)

Smart Antenna improve Wi-Fi performance for user-heavy scenarios through antenna array and intelligent algorithm, and it helps overcome obstacles and signal interference.

To enable or disable Smart Antenna, go to the **Wireless > Smart Antenna** page.

**Smart Antenna**

**Smart Antenna:** ☒ Enable

**Note:**  
Smart Antenna improves Wi-Fi performance for user-heavy scenarios through antenna array and intelligent algorithm, and it helps overcome obstacles and signal interference.

Save

# **4**

## ***Monitor the Network***

This chapter introduces how to monitor the running status and statistics of the wireless network, including:

- *4.1 Monitor the EAP*
- *4.2 Monitor the GPON Information (Only for GPON APs)*
- *4.3 Monitor the Wireless Parameters*
- *4.4 Monitor the Clients*

## 4.1 Monitor the EAP

To monitor the EAP information, go to the **Status > Device** page.

Device Information	
Device Name:	EAP [REDACTED]
Device Model:	EAP [REDACTED]
Firmware Version:	[REDACTED]
Hardware Version:	1.0
MAC Address:	[REDACTED]
IP Address:	192.168.0.38
Subnet Mask:	255.255.255.0
GPON:	Down
ETH0:	1000Mbps - FD
ETH1:	Down
ETH2:	Down
ETH3:	Down
System Time:	2025-01-01 08:01:24
Uptime:	0 days 00:01:25
CPU Utilization:	<div><div></div></div> 3%
Memory Utilization:	<div><div></div></div> 58%


The following device information will be displayed:

Device Name	Displays the name of the EAP. The name consists of the product model followed with the MAC address of the EAP by default.
Device Model	Displays the product model of the EAP.
Firmware Version	Displays the current firmware version the EAP. To update the firmware, you can refer to <a href="#">7.6 Update the Firmware</a> .
Hardware Version	Displays the hardware version the EAP.
MAC Address	Displays the MAC address of the EAP.
IP Address	Displays the IP address of the EAP.
Subnet Mask	Displays the subnet mask of the EAP.
GPON	(Only for GPON APs) Displays the GPON status of the EAP.
ETH	Displays the Ethernet port status of the EAP.
System Time	Displays the current system time. To configure the system time, you can refer to <a href="#">7.3 Configure the System Time</a> .

Uptime	Displays how long the EAP has been working since it starts up.
CPU Utilization	Displays the CPU occupancy. If this value is too high, the EAP may work abnormally.
Memory Utilization	Displays the memory occupancy.

## 4.2 Monitor the GPON Information (Only for GPON APs)

To monitor the GPON information, go to the **Status > GPON** page.

PON			
PON Type:	GPON	Temperature:	57.75 °C
ONU ID:	255	Supply Voltage:	3287 mV
Registration Status:	GPON Disconnected	Bias Current:	0.00 mA
Upstream FEC:	Off	TX Power:	--
Downstream FEC:	Off	RX Power:	--
GPON SN:			
		Upstream	Downstream
GPON Data (bytes)		0	0
GPON Data (pkts)		0	0
OMCI (pkts)		0	0

The following GPON information will be displayed:

PON Type	Displays the PON type of the EAP.
ONU ID	Displays the ONU ID of the EAP.
Registration Status	Displays the GPON registration status of the EAP.
Upstream FEC/ Downstream FEC	Displays the upstream/downstream FEC (Forward Error Correction) of the EAP.
GPON SN	Displays the GPON SN of the EAP.
Temperature	Displays the temperature of the EAP.
Supply Voltage	Displays the supply voltage of the EAP.
Bias Current	Displays the bias current of the EAP.
TX Power/ RX Power	Displays the transmit/received power of the EAP.
Upstream/ Downstream GPON Data (bytes)	Displays the upstream/downstream GPON data rate in bytes of the EAP.
Upstream/ Downstream GPON Data (pkts)	Displays the upstream/downstream GPON data rate in pkt/s of the EAP.

---

OMCI (pkts)

Displays the OMCI (ONT Management and Control Interface) data rate in pkt/s of the EAP.

---

## 4.3 Monitor the Wireless Parameters


You can view the wireless parameters of the EAP, including SSID lists, radio settings, radio traffic and LAN traffic.

### Tip:

To change the wireless parameters, you can refer to [3.1 Configure the Wireless Parameters](#).

To monitor the wireless parameters, go to the **Status > Wireless** page.

### SSID List

 Refresh

ID	SSID Name	Clients	Band	Security	Portal	VLAN ID	Guest Network	Down (Byte)	Up (Byte)
1	603	1	2.4GHz	WPA-PSK	Disable	Disable	Disable	0	0
2	6035	0	5GHz	WPA-PSK	Disable	Disable	Disable	0	0

### Radio Settings

2.4GHz

5GHz

2.4GHz Wireless Radio:

Channel Frequency:

Channel Width:

IEEE802.11 Mode:

Max TX Rate:

Tx Power:

### Radio Traffic

2.4GHz

5GHz

Rx Packets:	0	Tx Packets:	0
Rx Bytes:	0	Tx Bytes:	0
Rx Dropped Packets:	0	Tx Dropped Packets:	0
Rx Errors:	0	Tx Errors:	0

### LAN Traffic

Rx Packets:	0	Tx Packets:	151
Rx Bytes:	0	Tx Bytes:	14766
Rx Dropped Packets:	0	Tx Dropped Packets:	0
Rx Errors:	0	Tx Errors:	0

- Monitor the SSIDs

You can monitor the SSID information of the EAP.

SSID Name	Displays the SSID name.
-----------	-------------------------

Clients	Displays the number of clients currently connected to the SSID.
Band	Displays the frequency band the SSID is currently using.
Security	Displays the security mode of the SSID.
Portal	Displays whether portal function is enabled on the SSID.
VLAN ID	Displays the VLAN ID of the SSID.
Guest Network	Display guest network is enabled on the SSID.
Down (Byte)	Displays the total download traffic since the SSID starts working.
Up (Byte)	Displays the total upload traffic since the SSID starts working.

### • Monitor the Radio Settings

You can monitor the radio settings of the EAP.

Wireless Radio	Displays whether wireless function is enabled on the radio band.
Channel Frequency	Displays the channel and frequency which are currently used by the EAP.
Channel Width	Displays the channel width which is currently used by the EAP.
IEEE802.11 Mode	Displays the IEEE802.11 protocol currently used by the EAP.
Max TX Rate	Displays the maximum physical rate of the EAP.
Tx Power	Displays the transmit power of the EAP.

### • Monitor Radio Traffic

You can monitor the radio traffic of the EAP.

Rx Packets	Displays the total number of the received packets on the current band since the EAP starts up.
Tx Packets	Displays the total number of the sent packets on the current band since the EAP starts up.
Rx Bytes	Displays the total received traffic on the current band since the EAP starts up.
Tx Bytes	Displays the total sent traffic on the current band since the EAP starts up.



Rx Dropped Packets	Displays the total number of the dropped packets which are received on the current band since the EAP starts up.
Tx Dropped Packets	Displays the total number of the dropped packets which are sent on the current band since the EAP starts up.
Rx Errors	Displays the total number of error packets which are received on the current band since the EAP starts up.
Tx Errors	Displays the total number of error packets which are sent on the current band since the EAP starts up.

- **Monitor LAN Traffic**

You can view the LAN traffic of EAP.

Rx Packets	Displays the total number of received packets in the LAN since the EAP starts up.
Tx Packets	Displays the total number of sent packets in the LAN since the EAP starts up.
Rx Bytes	Displays the total received traffic in the LAN since the EAP starts up.
Tx Bytes	Displays the total sent traffic in the LAN since the EAP starts up.
Rx Dropped Packets	Displays the total number of the dropped packets which are received by the EAP since it starts up.
Tx Dropped Packets	Displays the total number of the dropped packets which are sent by the EAP since it starts up.
Rx Errors	Displays the total number of the received error packets since the EAP starts up.
Tx Errors	Displays the total number of the sent error packets since the EAP starts up.

## 4.4 Monitor the Clients

You can monitor the information of the clients connected to the EAP.

To monitor the client information, go to the **Status > Client** page.

Client List											
User Guest		Refresh									
ID	Hostname	IP Address	MAC Address	Band	SSID	Active Time	Up (Byte)	Down (Byte)	RSSI (dBm)	Rate (Mbps)	Action
1	Unknown	192.168.5.101	<div><div></div></div>	2.4GHz	603	0 days 00:00:50	3k	476	-54	1.0	<div><div></div><div></div></div>

Block Client List					
Refresh					
ID	Hostname	MAC Address	Up (Byte)	Down (Byte)	Action
--	--	--	--	--	--

- View Client Information

There are two types of clients: users and portal authenticated guests. Users are the clients that connect to the SSID with portal authentication disabled. Guests are the clients that connect to the SSID with portal authentication enabled.



Click the **User** or **Guest** tab to select the client types to view the information of the EAP.

The following client information will be displayed:

Hostname	Displays the hostname of the user.
IP Address	Displays the IP address of the user.
MAC Address	Displays the MAC address of the user.
Band	Displays the frequency band the user is working on.
SSID	Displays the SSID the user is connecting to.
Active Time	Displays how long the user has been connected to the SSID.
Up (Byte)	Displays the user's total uploaded traffic to the EAP since the last connection.
Down (Byte)	Displays the user's total downloaded traffic from the EAP since the last connection.

RSSI (dBm)	Displays the RSSI(Received Signal Strength Indication) of the user.
Rate (Mbps)	Displays the wireless transmission rate of the user.

You can execute the corresponding operation to the EAP by clicking an icon in the Action column.

	<p>Click the icon to configure the rate limit of the client to balance bandwidth usage. Enter the download limit and upload limit and click <b>OK</b>.</p> <p>You can limit the download and upload rate for each clients by which connect to specific SSIDs when configuring SSIDs, refer to <a href="#">3.1.1 Configure SSIDs</a> to get more details.</p> <p>Note that the download and upload rate will be limited to the smaller value if you set the limit value both in SSID and client configuration.</p>
	Click the icon to block the access of the client to the network.

#### • View Block Client Information

You can view the information of the clients that have been blocked and resume the client's access.

The following information of the blocked client will be displayed:

Hostname	Displays the hostname of the user.
MAC Address	Displays the MAC address of the user.
Up (Byte)	Displays the user's total uploaded traffic to the EAP since the last connection.
Down (Byte)	Displays the user's total downloaded traffic from the EAP since the last connection.
Action	You can click the delete icon to remove the client from the block list. This will resume the client's access to the internet.

# 5

## ***Configure the Telephony Service***

***(Only for GPON APs)***

This chapter introduces how to configure the telephony service of the GPON AP to make telephone calls via internet, including:

- *5.1 Configure Telephone Numbers*
- *5.2 Configure the Telephony Device*
- *5.3 Configure the Telephony Book*
- *5.4 Check the Call Logs*
- *5.5 Configure the Digit Map*
- *5.6 Configure Call Blocking*

## 5.1 Configure Telephone Numbers

Telephone Number allows you to add telephone accounts and to modify their settings.

To configure telephone numbers, go to the **Telephony > Telephone Number** page.

Telephone Numbers

Refresh

Add

Status	Telephone Number	Provider	Modify
--	--	--	--

Advanced Settings

Locale Selection:

US - NORTHAMERICA

DSCP for SIP:

EF(101110)

DSCP for RTP:

EF(101110)

DTMF Relay Setting:

RFC2833

Registry Expiration Time:

3600

(300-3600 seconds)

Registry Retry Interval:

30

(30-300 seconds)

T.38 Support:

☐ Enable

End with #:

☒ Enable

Save

### ■ Telephone Numbers

To add a telephone number:

1. Click **Add**.
2. Choose your **Telephony Provider**, then enter the parameters provided by your service provider. The parameters differ according to your selection.

If your service provider is not listed, choose **other provider**, then refer to the following table to configure the parameters:

Status	Telephone Number	Provider	Modify
--	--	--	--

Telephone Provider: Other provider ▼

Phone Number:

Registrar Address:

Authentication ID:  (Optional)

Password:  (Optional)

Registrar Port: 5060 (1-65535)

SIP Proxy: 0.0.0.0

SIP Proxy Port: 5060 (1-65535)

Outbound Proxy: 0.0.0.0

Outbound Proxy Port: 5060 (1-65535)

Register via Outbound Proxy: ☒ Enable

OK Cancel

Phone Number	The number you use to dial and answer.
Registrar Address	Usually it is a domain name, if not, an IP address.
Authentication ID/ Password	Not necessary information, but if you have, fill them in.
Registrar Port	Typically 5060, unless your telephony provider specifies a different port.
SIP Proxy	Usually the domain name of the SIP Proxy Server, if not, an IP address.
SIP Proxy Port	Typically 5060, unless your telephony provider specifies a different port.
Outbound Proxy	Usually the domain name of the Outbound Proxy Server, if not, an IP address.
Outbound Proxy Port	Typically 5060, unless your telephony provider specifies a different port.
Register via Outbound Proxy	When enabled, the EAP will use the specified Outbound Proxy for registration. When disabled, the EAP will use the Registrar Address above for registration.

3. Click **OK**.

## ■ Advanced Settings

Refer to the following table to configure advanced settings if needed:

**Advanced Settings**

Locale Selection:

US - NORTHAMERICA

DSCP for SIP:

EF(101110)

DSCP for RTP:

EF(101110)

DTMF Relay Setting:

RFC2833

Registry Expiration Time:

3600

(300-3600 seconds)

Registry Retry Interval:

30

(30-300 seconds)

T.38 Support:

☐ Enable

End with #:

☒ Enable

Save

Locale Selection	Select your location. The EAP is embedded with the default location-based parameters such as ring tones.
DSCP for SIP/ DSCP for RTP	DSCP (Differentiated Services Code Point) is the first 6 bits in the ToS (Type of Service) byte. DSCP marking allows you to ensure preferential treatment for higher-priority traffic on the network based on the DSCP value. Select DSCP for the SIP (Session Initiation Protocol) and RTP (Real-time Transport Protocol) respectively. If you are unsure, please keep the default value.
DTMF Relay Setting	Select a protocol for DTMF relay setting. If you are unsure of which one to select, please keep the default value.
Registry Expiration Time	Enter the expiration time of the SIP registration.
Registry Retry Interval	Enter the time duration for which the EAP sends a request to retry registering automatically prior to the Registry Expiration Time. If you are unsure, please keep the default value.
T.38 Support	Select the check box to enable T.38 support that allows fax documents to be transferred in real-time between two standard Group 3 facsimile terminals over the Internet or other networks using IP protocols. This function is only effective between two T.38-enabled terminals.
End with #	Select the check box to use the pound sign (#) as an end-of-dialing.

## 5.2 Configure the Telephony Device

Telephony Devices allows you to configure phone settings for all registered devices.

To configure the telephony device, go to the **Telephony > Telephony Device** page.

Telephony Devices				
				Refresh
ID	Device Name	Number for Incoming Calls	Number for Outgoing Calls	Modify
1	phone_1	---	auto	

Follow the steps below to configure a telephony device:

1. Click the edit icon.
2. Refer to the following table to configure the parameters. Then click **OK**.

ID	Device Name	Number for Incoming Calls	Number for Outgoing Calls	Modify
1	phone_1	---	auto	

Device Name:

Number for Outgoing Calls:

Number for Incoming Calls:  (Optional)

VAD Support: ☒ Enable VAD

Speaker Gain:

Mic Gain:

Device Name	Specify the device name.
Number for Outgoing Calls	Select the number used by your telephony device to make outgoing calls through your EAP. The default is Auto, which means the EAP will select an available number to be the outgoing number.
Number for Incoming Calls	Select the number used by your telephony device to receive incoming calls through your EAP.
VAD Support	VAD (Voice Activity Detection) saves bandwidth consumption by avoiding transmission of silence packets. It also ensures that the bandwidth is reserved only when voice activity is activated.
Speaker Gain	Adjust the slider to control the speaker sound.
Mic Gain	Adjust the slider to control the microphone sound.



# 5.3 Configure the Telephony Book

To configure the telephony book and emergency numbers, go to the **Telephony > Telephony Book** page.

Telephony Devices

Refresh

ID	Device Name	Number for Incoming Calls	Number for Outgoing Calls	Modify
1	phone_1	---	auto	

## ■ Telephone Book

Telephone Book allows you to save contact details and assign a speed dial number to the contact.

To add a new contact:

- 1. Click **Add**.
- 2. Refer to the following table to configure the parameters. Then click **OK**.

Name	Telephone Number	Speed Dial Number	Modify
--	--	--	--

First Name:

Last Name:

Private Phone Number:

Work Phone Number:

Mobile Phone Number:

Speed Dial Number Type:

- Please Select -

Speed Dial Number:

OK

Cancel

First Name / Last Name

Enter the last name and first name of your contact.

Private Phone Number

Enter the private phone number of your contact.

Work Phone Number

Enter the work phone number of your contact.

Mobile Phone Number	Enter the mobile phone number of your contact.
Speed Dial Number Type	Select the type of number for speed dial. Speed Dial allows you to quickly place a call with fewer numbers to dial.
Speed Dial Number	Set the speed dial number. After saving the settings, you can simply press this number followed by # to place a call.

## ■ Emergency Number

Emergency Number helps to make a call for help when emergency occurs.

To set the emergency numbers:

### 1. Enable **Emergency Number**.

The screenshot shows the 'Emergency Number Settings' window. At the top, 'Emergency Number' is checked and labeled 'Enable'. Below it, 'No Operation Time' is set to '3s'. There are five input fields for 'Emergency Number 1' through 'Emergency Number 5', each with '(Optional)' text to its right. A green 'Save' button is at the bottom.

### 2. Refer to the following table to configure the parameters. Then click **Save**.

Emergency Number	Emergency Number allows your telephony device to call a specific contact when the handset is picked up but no operation is done within a specific time period.
No Operation Time	Set the time period before the phone makes the call automatically.
Emergency Number 1/2/3/4/5	Enter one or more telephone numbers for emergency calls. The phone will call these numbers in order if the previous call is not answered.

## 5.4 Check the Call Logs

Call Log records the details of incoming calls and outgoing calls through your EAP.

To check the call logs, go to the **Telephony > Call Log** page, enable **Call Log**, and save the settings.

**Call Log**

**Call Log:** ☒ **Enable**

**Save**

 **Refresh**  **Delete All**

Date / Time	Type	Duration(hh:mm:ss)	Number	Device Number	Telephony Device
---	---	---	---	---	---

## 5.5 Configure the Digit Map

A digit map can be used to match digits to control numbers from being dialed. A number can be dialed out only when its digit sequence matches the digit map.

To use the digit map, go to the **Telephony > Digit Map** page, then enter a digit map by referring to the example settings. Save the settings.

**Digit Map**

**Current Digit Map:**

**Save**

**Example: digitmap settings**

Digit Map Rule	Means
[2-5]	match one digit between 2 and 5
x	match one digit between 0 and 9
[57]	5 or 7
.	repeat the previous digit 0 or more times
t	timeout
3xxxx	a digit string has 5 digits which begins with 3
0x.t	a digit string begins with 0 will be sent out after timeout
0x.	a digit string begins with 0 will be sent out after timeout or # is dialed
*	*
#	#

## 5.6 Configure Call Blocking

Call Blocking allows you to block unwanted calls and to prevent the EAP from making certain call types. The blocked calls will be recorded in the Call Log table.

To block calls, go to the **Telephony > Call Blocking** page.

The screenshot displays the 'Call Blocking' configuration interface. It is divided into two main sections: 'Incoming Calls' and 'Outgoing Calls'. Each section has a table with columns for configuration and an 'Add' button.

**Incoming Calls Section:**

Number	Modify
--	--

Below the table, there is a form to select the incoming number to be blocked:

Select the incoming number to be blocked: Specific Number ▼

Number:

Buttons: **OK** (green), Cancel (grey)

**Outgoing Calls Section:**

Call Type or Prefix	Modify
--	--

Below the table, there is a form to select the outgoing call type and prefix:

Call Type: Calls with Specific Nur ▼

Number Prefix:

Buttons: **OK** (green), Cancel (grey)

### ■ To block incoming calls:

1. In the **Incoming Calls** section, click **Add**.
2. Select **Anonymous Number** to block all unknown incoming calls, or select **Specific Number** and enter a telephone number to block incoming calls from the specified number.
3. Click **OK**.

### ■ To block outgoing calls:

1. In the **Outgoing Calls** section, click **Add**.
2. Select a **Call Type** to block a specific type of outgoing calls, or select **Call with Specific Number Prefix** and enter a telephone number prefix to block outgoing calls to numbers with the specified prefix.
3. Click **OK**.

# 6

## *Manage the EAP*

The EAP provides powerful functions of device management and maintenance. This chapter introduces how to manage the EAP, including:

- *6.1 Manage Bridge APs (Only for Bridge APs)*
- *6.2 Manage the IP Address of the EAP*
- *6.3 Manage System Logs*
- *6.4 Configure Web Server*
- *6.5 Configure Management Access*
- *6.6 Configure Trunk (Only for Certain Devices)*
- *6.7 Configure LED*
- *6.8 Configure LAN Port (Only for Certain Devices)*
- *6.9 Configure Wi-Fi Control (Only for Certain Devices)*
- *6.10 Configure SSH*
- *6.11 Configure SNMP*
- *6.12 Configure Power Saving (Only for Certain Devices)*

## 6.1 Manage Bridge APs (Only for Bridge APs)

In a Bridge network, you can view and manage Bridge APs centrally on the Main AP's web page.

### 6.1.1 Manage the Bridge Information

You can view and edit the Bridge AP's information, such as the current role and bridge information.

Go to the **Management > Bridge AP Management** page.

**Bridge AP Role**

Current Role:

Main AP


Current IP:

192.168.0.254

Hardware Role Switch:

☒ Enable

Set the Bridge AP's role:

☒ Main AP ☐ Client AP 


Save

**Bridge Information**

Bridge SSID:

TP-Link\_Bridge\_E29567

Bridging Password:

..... 

Edit


Current Role	Displays the working role of the AP.
Current IP	Displays the current IP address of the AP.
Hardware Role Switch	Control the hardware Role Switch on the AP. If disabled, you will be unable to change the AP's role via its hardware Role Switch.
Set the Bridge AP's Role	Configure the AP to work as the Main AP or Client AP.
Bridge SSID / Password	Displays the Bridge SSID and password of the AP. APs with the same Bridge SSID and password will form a Bridge network. If needed, you can click the Edit button to change them.

### 6.1.2 Manage the Bridge Network

You can view the network topology, add new client AP, and manage the APs in the current Bridge network.

Go to the **Bridge Network** page. The system will automatically display the current network topology and list the APs in the Bridge network.



Topology



No Bridge

Bridge APs List (1/5)

Refresh

ID	Device	Type	IP Address	MAC Address	Action
1	 (Current AP)	Main AP	192.168.0.254		

Add Client-AP

**Note:**  
To delete a Client-AP, launch it to open its management interface and reset the device. (KIT APs will still automatically form a network after resetting.)

For a Sub-AP entry, you can click Launch icon in the Action Column to launch its web page.

If you want to add more client APs, click the **Add Client AP** button and follow the web instructions to add them.


### 6.1.3 Perform Channel Optimization

You can determine whether to scan DFS channels. Using DFS channels in wireless bridge may lead to connection instability due to radar-triggered switching, compatibility problems, and potential security threats during channel transitions.

Go to the **Bridge Network > Channel Optimization** page to configure the settings according to your needs.

Scan DFS Channel

Scan DFS Channel:

☐ Enable
 

Save



## 6.2 Manage the IP Address of the EAP

The IP address of the EAP can be a dynamic IP address assigned by the DHCP server or a static IP address manually specified by yourself. By default, the EAP gets a dynamic IP address from the DHCP server. You can also specify a static IP address according to your needs.

To configure the IP address of the EAP, go to the **Management > Network** page.

**IP Settings**

☒ Dynamic ☐ Static

Fallback IP:

☒ Enable

DHCP Fallback IP:

192.168.0.254

DHCP Fallback IP Mask:

255.255.255.0

DHCP Fallback Gateway:

Save

Follow the steps below to configure the IP address of the EAP:

1. Choose your desired IP address mode: **Dynamic** or **Static**.
2. Configure the related parameters according to your selection.

- **Dynamic**

If you choose Dynamic as the IP address mode, make sure that there is a reachable DHCP server on your network and the DHCP sever is properly configured to assign IP address and the other network parameters to the EAP.

For network stability, you can also configure the fallback IP parameters for the EAP:

Fallback IP	With the fallback IP configured, if the EAP fails to get an IP address from a DHCP server within 10 seconds, the fallback IP will work as the IP address of the EAP. After that, however, the EAP will keep trying to obtain an IP address from the DHCP server until it succeeds.
DHCP Fallback IP	Specify a fallback IP address for the EAP. Make sure that this IP address is not being used by any other device in the same LAN. The default DHCP fallback IP is 192.168.0.254.
DHCP Fallback IP MASK	Specify the network mask of the fallback IP. The default DHCP fallback IP mask is 255.255.255.0.
DHCP Fallback Gateway	Specify the network gateway.

- **Static**

If you choose Static as the IP address mode, you need to manually specify an IP address and the related network parameters for the EAP. Make sure that the specified IP address is not being used by any other device in the same LAN.

Configure the IP address and network parameters as the following table shows:

IP Address	Specify a static IP address for the EAP.
IP Mask	Specify the network mask.
Gateway	Specify the network gateway.
Primary DNS	Specify the primary DNS server.
Secondary DNS	Specify the secondary DNS server. (Optional)


3. Click **Save**.

## 6.3 Manage System Logs

System logs record information about hardware, software as well as system issues and monitors system events. With the help of system log, you can get informed of system running status and detect the reasons for failure.

To manage system logs, go to the **Management > System Log** page.

**Log**

 Refresh

Index	Time	Type	Level	Log Content
2	1970-01-01 08:00:52	DEV_IP_C	WARNING	The LAN IP address/mask of [ap:12-45-23-12-73-15] were changed to 192.168.0.38/255.255.255.0.
1	1970-01-01 00:00:22	OTHER	INFO	System started

**Log Settings**

Enable Auto Mail:☐ Enable

Enable Server:☐ Enable

Save

On this page, you can view the system logs and configure the way of receiving system logs.

- **View System Logs**

In the **Log** section, you can click **Refresh** to refresh the logs and view them in the table.

- **Configure the Way of Receiving Logs**

In the **Log Settings** section, you can configure the ways of receiving system logs.

### Log Settings

Enable Auto Mail:

☒ Enable

From:

To:

SMTP Server:

Enable SSL:

☐ Enable

SMTP Port:

25

(1-65535)

Enable Authentication:

☐ Enable

Time:

☒ Fixed Time ☐ Period

Fixed Time:

00

:

00

(HH:MM)

Enable Server:

☒ Enable

System Log Server IP:

0.0.0.0

System Log Server Port:

514

(514, 1025-65535)

More Client Detail Log:

☐ Enable

Save

Follow the steps below to configure this feature:

1. Check the corresponding box to enable one or more ways of receiving system logs, and configure the related parameters. Two ways are available: [Auto Mail](#) and [Server](#).

#### ■ Auto Mail

If Auto Mail is configured, system logs will be sent to a specified mailbox. Check the box to enable the feature and configure the related parameters.

The following table introduces how to configure these parameters:

From	Enter the sender's E-mail address.
To	Enter the receiver's E-mail address.
SMTP Server	Enter the IP address of the sender's SMTP server. <b>Note:</b> At present, the domain name of SMTP server is not supported in this field.
Enable Authentication	If the sender's mailbox is configured with You can check the box to enable mail server authentication. Enter the sender's username and password.
Time Mode	Select Time Mode: <b>Fixed Time</b> or <b>Period Time</b> .  Fixed Time means that the system logs will be sent at the specific time every day. Period Time means that the system logs will be sent at the specific time interval.

<b>Fixed Time</b>	If you select <b>Fixed Time</b> , specify a fixed time to send the system log mails. For example, 08:30 indicates that the mail will be sent at 8:30 am everyday.
<b>Period Time</b>	If you select <b>Period Time</b> , specify a period time to regularly send the system log mail. For example, 6 indicates that the mail will be sent every six hours.

## ■ Server

If Server is configured, system logs will be sent to the specified system log server, and you can use the syslog software to view the logs on the server.

Enable this feature and enter the IP address and port of the system log server.

<b>System Log Server IP</b>	Enter the IP address of the server.
<b>System Log Server Port</b>	Enter the port of the server.
<b>More Client Detail Log</b>	With the option enabled, the logs of clients will be sent to the server.

2. Click **Save**.

## 6.4 Configure Web Server

With the web server, you can log in to the management web page of the EAP. You can configure the web server parameters of the EAP according to your needs.

To configure Web Server, go to the **Management > Web Server** page.

**Web Server**

Secure Server Port:

443

Server Port:

80

Session Timeout:


15

minutes


Layer-3 Accessibility:

☐ Enable

TLS Version 1.0/1.1:

☐ Enable 

Older Security Kits:

☐ Enable 

HTTP Server:

☐ Enable

Note:

Please enter the EAP's IP address to access the web-based configuration utility via an HTTPS connection.

Save

Follow the steps below to configure Web Server:

1. Refer to the following table to configure the parameters:

Secure Server Port	Designate a secure server port for web server in HTTPS mode. By default the port is 443.
Server Port	Designate a server port for web server in HTTP mode. By default the port is 80.
Session Timeout	Set the session timeout. If you do nothing with the web page within the timeout, the system will log out automatically. You can log in again if you want to go back to web page.
Layer-3 Accessibility	With this feature enabled, devices from a different subnet can access Omada managed devices via the management web page. With this feature disabled, only the devices in the same subnet can access Omada managed devices via the management web page.
TLS Version 1.0/1.1	<p>The EAP management page uses TLS v1.2 by default. You can enable the feature if you prefer TLS v1.0/1.1.</p> <p>This feature is only available on certain devices. To check whether your device supports this feature, refer to the actual web interface.</p>

2. Click **Save**.

## 6.5 Configure Management Access

By default, all hosts in the LAN can log in to the management web page of the EAP with the correct username and password. To control the hosts' access to the web page of the EAP, you can specify the MAC addresses and management VLAN of the hosts that are allowed to access the web page.

To configure Management Access, go to the **Management > Management Access** page.

### Access MAC Management

---

**MAC Authentication:** ☐ Enable

**MAC1:**

**MAC2:**

**MAC3:**

**MAC4:**

### Management VLAN

---

**VLAN:** ☐ Enable

**VLAN ID:**  (1-4094)

### 6.5.1 Configure Access MAC Management

Only the hosts with the specific MAC addresses are allowed to access the web page, and other hosts without MAC addresses specified are not allowed to access the web page.

Follow the steps below to configure Management Access on this page:

1. Check the box to enable **MAC Authentication**.
2. Specify one or more MAC addresses in the **MAC1/MAC2/MAC3/MAC4** fields. Up to four MAC addresses can be added.
3. Click **Save**.

#### Tip:

- You can click **Add PC's MAC Address** to quickly add the MAC address of your current logged-in host, .
- Verify the MAC addresses carefully. Once the settings are saved, only the hosts in the MAC address list can access the web page of the EAP.
- If you cannot log in to the web page after saving the wrong configuration, you can reset the EAP to the factory defaults and use the default username and password (both admin) to log in.

## 6.5.2 Configure Management VLAN

Management VLAN provides a safer method to manage the EAP. With Management VLAN enabled, only the hosts in the Management VLAN can access the web page of the EAP. Since most hosts cannot process VLAN TAGs, you can connect the management host to the network via a switch, and set up correct VLAN settings for the switches on the network to ensure the communication between the host and the EAP in the Management VLAN.

Follow the steps below to configure Management VLAN on this page:

1. Check the box to enable **Management VLAN**.
2. Specify the VLAN ID of the management VLAN. Only the hosts in the Management VLAN can log in to the EAP via the Ethernet port.
3. Click **Save**.



## 6.6 Configure Trunk (Only for Certain Devices)

The trunk function can bundle multiple Ethernet links into a logical link to increase bandwidth and improve network reliability.

To configure the trunk function, go to the Management > Trunk page.

**Trunk Settings**

Enable:

☐ Enable

Mode:

SRC MAC+DST MAC ▼

Save

### Enable

Check the box to enable the function.

### Mode

Select the trunk algorithm mode. Based on the selected algorithm mode, the AP determines which physical port is used to send out the received packet.

**SRC MAC+DST MAC:** The AP determines the outgoing port based on both the source and destination MAC addresses of the packet.

**DST MAC:** The AP determines the outgoing port based on the destination MAC address of the packet.

**SRC MAC:** The AP determines the outgoing port based on the source MAC address of the packet.

## 6.7 Configure LED

You can turn on or off the LED light of the EAP and flash the LED to locate your device.

To configure LED, go to the **Management > LED Control** page.

**LED ON/OFF**

LED: ☒ Enable

Save

**LED Locate**

Locate

**Note:**  
Click the Locate button to flash the LED on the EAP device to locate your device. The LED will flash for 10 minutes, or until the Locate button is clicked again.

Check the box to turn on or turn off the LED light of the EAP, and click **Save**. To flash the LED, click **Locate**. Then the LED will flash for 10 minutes or until the locate button is clicked again.

## 6.8 Configure LAN Port (Only for Certain Devices)

### 6.8.1 Configure Port VLAN (Only for Certain Devices)

Certain devices support VLAN configuration. If you want the EAP's LAN port to forward data with VLAN tags, you can configure the VLAN for it.

Port VLAN is used to set VLANs for the LAN ports. With this feature, the EAP can work together with the switches supporting 802.1Q VLAN. Traffic from the clients connected to different LAN ports will be added with different VLAN tags according to the VLAN settings of the ports. The wired clients in different VLANs cannot directly communicate with each other.

To configure VLAN for the LAN port, go to the **Management > LAN Port Config** page. Select your desired port, enable VLAN, and set the VLAN ID according to your needs.

**VLAN Config**

ETH Port	VLAN	VLAN ID
ETH0	Disable ▼	1
ETH1	Disable ▼	1
ETH2	Disable ▼	1
ETH3	Disable ▼	1

Save

Follow the steps below to configure port VLAN on this page.

1. Select the specific ETH port in the list to configure the VLAN.
2. In the **VLAN** column, select **Enable** to enable the VLAN function on the port.
3. Specify the VLAN ID for the port in the **VLAN ID** column. Every VLAN ID represents a different VLAN.
4. Click **Save**.

### 6.8.2 Configure PoE Out (Only for Certain Devices)

Certain devices have a PoE OUT port that can transmit data and supply power to the client simultaneously. You can also disable PoE Out to make the port transmit data only.

PoE Out is only available on certain devices. To check whether your device supports this feature, refer to the actual web interface.

To configure PoE Out, go to the **Management > LAN Port Config** page.

PoE Out

PoE Out:

☐ Enable

Save

Check the box to enable PoE Out and click **Save**.

## 6.9 Configure Wi-Fi Control (Only for Certain Devices)

### Note:

Wi-Fi Control is only available on certain devices. To check whether your device supports this feature, refer to the actual web interface. If Wi-Fi Control is available, there is **Management > Wi-Fi Control** in the menu structure.

Certain devices have an LED/Wi-Fi button on the front panel. With Wi-Fi Control enabled, you can press the button to turn on or off both of the Wi-Fi and LED at the same time.

To configure Wi-Fi Control, go to the **Management > Wi-Fi Control** page.

**Wi-Fi Control**

With the Wi-Fi Control enabled, you can turn on/off the Wi-Fi and LED simultaneously by pressing the LED button on the product.

**Wi-Fi Control:** ☐ Enable

**Note:**  
You can enable Wi-Fi Control feature only when the LED ON/OFF is enabled.

Save

Check the box to enable Wi-Fi Control and click **Save**.

### Note:

You can enable Wi-Fi Control only when the option **LED ON/OFF** is enabled.

## 6.10 Configure SSH

If you want to remotely log in to the EAP via SSH, you can deploy an SSH server on your network and configure the SSH feature on the EAP.

To configure SSH, go to the **Management > SSH** page.

**SSH Server**

Server Port:

22

(22,1025-65535)

Layer-3 Accessibility:

☐ Enable

SSH Login:

☐ Enable

Save

Follow the steps below to configure SSH on this page:

1. Refer to the following table to configure the parameters:

Server Port	Designate a server port for SSH. By default the port is 22.
Layer-3 Accessibility	With this feature enabled, devices from a different subnet can access Omada managed devices via SSH. With this feature disabled, only the devices in the same subnet can access Omada managed devices via SSH.
SSH Login	Enable or disable SSH Login globally.

2. Click **Save**.

## 6.11 Configure SNMP

The EAP can be configured as an SNMP agent and work together with the SNMP manager. Once the EAP has become an SNMP agent, it is able to receive and process request messages from the SNMP manager. At present, the EAP supports SNMP v1 and v2c.

To configure the EAP as an SNMP agent, go to the **Management > SNMP** page.

**SNMP Agent**

SNMP Agent:

☐ Enable

SysContact:

SysName:

SysLocation:

Get Community:

public

Get Source:

0.0.0.0

Set Community:

private

Set Source:

0.0.0.0

Save

Follow the steps below to complete the configuration on this page:

1. Check the box to enable **SNMP Agent**.
2. Refer to the following table to configure the required parameters:

SysContact	Enter the textual identification of the contact person for this managed node.
SysName	Enter an administratively-assigned name for this managed node.
SysLocation	Enter the physical location of this managed node.
Get Community	Community refers to a host group aiming at network management. Get Community only has the read-only right of the device's SNMP information. The community name can be considered a group password. The default setting is public.
Get Source	Defines the IP address (for example, 10.10.10.1) for management systems that can serve as Get Community to read the SNMP information of this device. The default is 0.0.0.0, which means all hosts can read the SNMP information of this device.
Set Community	Set Community has the read and write right of the device's SNMP information. Enter the community name that allows read/write access to the device's SNMP information. The community name can be considered a group password. The default setting is private.

---

**Set Source**

Defines the IP address (for example, 10.10.10.1) for management systems that can serve as Set Community to read and write the SNMP information of this device. The default is 0.0.0.0, which means all hosts can read and write the SNMP information of this device.

---

3. Click **Save**.

**Note:**

Defining community can allow management systems in the same community to communicate with the SNMP Agent. The community name can be seen as the shared password of the network hosts group. Thus, for the security, we recommend that modify the default community name before enabling the SNMP Agent service. If the field of community is blank, the SNMP Agent will not respond to any community name.



# 6.12 Configure Power Saving (Only for Certain Devices)

Power saving can reduce the AP's power usage.

To configure power saving, go to the **Power > Power Saving** page.

Power Saving

Trigger by Time:

☒ Enable

Start Time:

00

:

00

End Time:

00

:

00

Note:

Enable Power Saving every day from 00:00 to 00:00.

Trigger by Band:

☒ Enable

Bands:

- Please Select -

Idle Duration:

0

Note:

Enable Power Saving when there are no connections for 0 min on the no band(s).

Save

Trigger by Time	With this option enabled, you can specify the start and end time to enable power saving every day within the time period.
Trigger by Band	With this option enabled, you can specify the bands and idle duration to enable power saving when there are no connections for the specified duration on the bands.

# 7 *Manage the System*

This chapter introduces how to configure the system of the EAP, including:

- *7.1 Configure the User Account*
- *7.2 Configure Controller Settings*
- *7.3 Configure the System Time*
- *7.4 Reboot and Reset the EAP*
- *7.5 Backup and Restore the Configuration*
- *7.6 Update the Firmware*

## 7.1 Configure the User Account

Every EAP has a user account, which is used to log in to the management page of the EAP. When you start the EAP at the first time, the username and password of the user account are both admin. After the first login, the system will require you to set a new username and a new password for the user account. And then you can use the new user account to log in to the EAP. Also, you can change your user account as needed.

### Tip:

Please remember your user account well. If you forget it, reset the EAP to the factory defaults and log in with the default user account (username and password are both admin).

To configure the user account, go to **System > User Account** page.

**Account Management**

Old User Name:

Old Password:

New User Name:

New Password:

Low

Middle

High

Confirm New Password:

Save

Follow the steps below to change your user account on this page:

1. Enter the old username and old password of your user account.
2. Specify a new username and a new password for your user account. The system will automatically detect the strength of your entered password. For security, we recommend that you set a password with high strength.
3. Retype the new password.
4. Click **Save**.

## 7.2 Configure Controller Settings

To make your controller adopt your EAP, make sure the EAP can be discovered by the controller. Controller Settings enable your EAP to be discovered in either of the following scenarios.

### Cloud-Based Controller Management

Connection Status: Disabled

Cloud-Based Controller Management: ☐ Enable

**Note:**

To enjoy centralized management on Omada Cloud-Based Controller, enable Cloud-Based Controller Management and add the device to the controller via its serial number.  
You can disable this feature if you do not need to manage the device with the Omada Cloud-Based Controller.

### Controller Inform URL

Inform URL/IP Address:

**Note:**

Enter the inform URL or IP address of your controller to tell the device where to discover the controller.  
This feature is commonly used for the device to be managed by the controller in Layer 3 deployments.

**Save**

- If you are using Omada Cloud-Based Controller, *Enable Cloud-Based Controller Management*.
- If your EAP and controller are located in the same network, LAN and VLAN, the controller can discover and adopt the EAP without any controller settings. Otherwise, you need to inform the EAP of the controller's URL/IP address, and one possible way is to *Configure Controller Inform URL*.

For details about the whole procedure, refer to the User Guide of Omada SDN Controller.

The guide can be found on our Documents page:

<https://support.omadanetworks.com/document>

- **Enable Cloud-Based Controller Management**

Go to the **System > Controller Settings** page. In the Cloud- Based Controller Management section, enable **Cloud-Based Controller Management** and click **Save**. After you add the EAP to your Omada Cloud-Based Controller, you can check the connection status on this page.

- **Configure Controller Inform URL**

Go to the **System > Controller Settings** page. In the Controller Inform URL section, inform the EAP of the controller's URL/IP address, and click **Save**. Then the EAP make contact with the controller so that the controller can discover the EAP.

# 7.3 Configure the System Time

System time is the standard time for Scheduler and other time-based functions. The EAP supports the basic system time settings and the Daylight Saving Time (DST) feature.

To configure the system time, go to the **System > Time Settings** page.

Time Settings

Time zone:

(GMT-08:00) Pacific Time

Date:

01/01/2025

MM/DD/YYYY

Time:

08

:

02

:

26

(HH/MM/SS)

Primary NTP Server:

(Optional)

Secondary NTP Server:

(Optional)

Get GMT

Synchronize with PC

Save

Daylight Saving

Daylight Saving:

☐ Enable

Mode:

☒ Predefined Mode

☐ Recurring Mode

Predefine Country:

USA

Save

The following two sections introduce how to configure the basic system time settings and the Daylight Saving Time feature.

## 7.3.1 Configure the System Time

In the **Time Settings** section, you can configure the system time. There are three methods to set the system time: *Set the System Time Manually*, *Acquire the System Time From an NTP Server*, and *Synchronize the System Time with PC's Clock*.

Determine the way of setting the system time and follow the steps below to complete the configurations:

- **Set the System Time Manually**

To set the system time manually, follow the steps below:

1. Configure the following three options on the page: **Time Zone**, **Date** and **Time**.

Time Zone	Select your time zone from the drop-down list. Here GMT means Greenwich Mean Time.
-----------	--

<b>Date</b>	Specify the current date in the format MM/DD/YYYY. MM means month, DD means day and YYYY means year.  For example: 06/01/2017.
<b>Time</b>	Specify the current time in the format HH/MM/SS. HH means hour, MM means minute and SS means second.  It uses 24-hour system time. For example: 14:36:21.

2. Click **Save**.

**Note:**

The system time set manually will be lost after the EAP is rebooted.

- **Acquire the System Time From an NTP Server**

To get the system time from an NTP server, follow the steps below:

1. Build an NTP server on your network and make sure that it is reachable by the EAP. Or you can simply find an NTP server on the internet and get its IP address.

**Note:**

If you use an NTP server on the internet, make sure that the gateway address is set correctly on the EAP. Otherwise, the EAP cannot get the system time from the NTP server successfully. To set the gateway address, refer to [3.1 Configure the Wireless Parameters](#).

2. Specify the NTP server for the EAP. If you have two NTP servers, you can set one of them as the primary NTP server, and the other as the secondary NTP server. Once the primary NTP server is down, the EAP can get the system time from the secondary NTP server.

<b>Primary NTP Server</b>	Enter the IP address of the primary NTP server.  <b>Note:</b> If you have only one NTP server on your network, enter the IP address of the NTP server in this field.
<b>Secondary NTP Server</b>	Enter the IP address of the secondary NTP server.

3. Click the button **Get GMT** and the acquired system time will be displayed in the **Date** and **Time** fields.
4. Click **Save**.

- **Synchronize the System Time with PC's Clock**

To synchronize the system time with the clock of your currently logged-in host, follow the steps below:

1. Click the button **Synchronize with PC** and the synchronized system time will be displayed in the **Date** and **Time** fields.
2. Click **Save**.

**Note:**

The system time synchronized with PC's clock will be lost after the EAP is rebooted.

## 7.3.2 Configure Daylight Saving Time

Daylight saving time is the practice of advancing clocks during summer months so that evening daylight lasts longer, while sacrificing normal sunrise times. The EAP provides daylight saving time configuration.

Follow the steps below to configure daylight saving time:

1. Check the box to enable **Daylight Saving**.
2. Select the mode of daylight saving time. Three modes are available: **Predefined Mode**, **Recurring Mode** and **Date Mode**.
3. Configure the related parameters of the selected mode.

### ■ Predefined Mode

If you select Predefined Mode, choose your region from the drop-down list and the EAP will use the predefined daylight saving time of the selected region.

There are four regions provided: **USA**, **European**, **Australia** and **New Zealand**. The following table introduces the predefined daylight saving time of each region.

USA	From 2: 00 a.m. on the Second Sunday in March to 2:00 a.m. on the First Sunday in November.
European	From 1: 00 a.m. on the Last Sunday in March to 1:00 a.m. on the Last Sunday in October.
Australia	From 2:00 a.m. on the First Sunday in October to 3:00 a.m. on the First Sunday in April.
New Zealand	From 2: 00 a.m. on the Last Sunday in September to 3:00 a.m. on the First Sunday in April.

### ■ Recurring Mode

If you select Recurring Mode, manually specify a cycle time range for the daylight saving time of the EAP. This configuration will be used every year.



The following table introduces how to configure the cycle time range.

Time Offset	Specify the time to set the clock forward by.
Start	Specify the start time of daylight saving time. The interval between the start time and end time should be more than 1 day and less than 1 year (365 days).
End	Specify the end time of daylight saving time. The interval between the start time and end time should be more than 1 day and less than 1 year (365 days).

#### ■ Date Mode (Only for certain models)

If you select Date Mode, manually specify an absolute time range for the daylight saving time of the EAP. This configuration will be used only once.

The following table introduces how to configure the absolute time range.

Time Offset	Specify the time to set the clock forward by.
Start	Specify the start time of daylight saving time. The interval between the start time and end time should be more than 1 day and less than 1 year (365 days).
End	Specify the end time of daylight saving time. The interval between the start time and end time should be more than 1 day and less than 1 year (365 days).

4. Click **Save**.

## 7.4 Reboot and Reset the EAP

You can reboot and reset the EAP according to your need.

To reboot and reset the EAP, go to the **System > Reboot&Reset** page.

**Reboot & Reset**

Reboot Device:

Reboot

Reset to Factory Defaults:

Reset

- To reboot the EAP, click the **Reboot** button, and the EAP will be rebooted automatically. Please wait without any operation.
- To reset the EAP, click the **Reset** button, and the EAP will be reset to the factory defaults automatically. Please wait without any operation.

### Note:

After reset, all the current configuration of the EAP will be lost. We recommend that you check whether you have any configuration that needs to be backed up before resetting the EAP.

## 7.5 Backup and Restore the Configuration

You can save the current configuration of the EAP as a backup file and save the file to your host. And if needed, you can use the backup file to restore the configuration. We recommend that you backup the configuration before resetting or upgrading the EAP.

To backup and restore the configuration, go to the **System > Backup&Restore** page.

**Backup**

Save a copy of the current settings.

Backup

**Restore**

Restore saved settings from a file.

File:

Browse

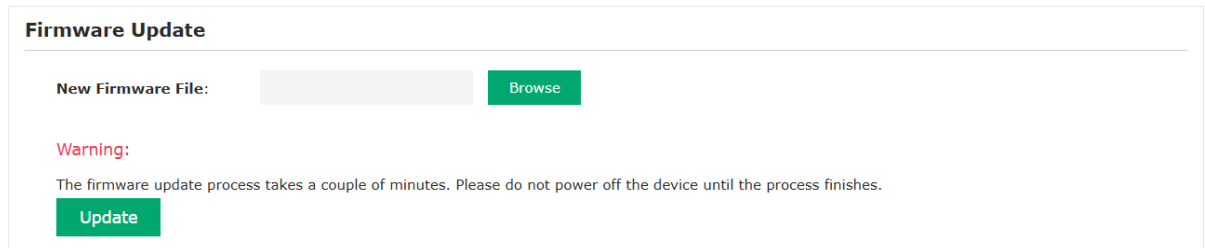
Restore

- To backup the configuration, click the **Backup** button in the Backup section, and the backup file will be saved to the host automatically.
- To restore the configuration, click the **Browse** button in the Restore section and choose the backup file from the host. Then click the **Restore** button to restore the configuration.

## 7.6 Update the Firmware

We occasionally provide the firmware update files for the EAP products on our official website. To get new functions of the EAP, you can check our official website and download the update files to update the firmware of your EAP.

To update the firmware, go to the **System > Firmware Update** page.



The screenshot shows a web interface titled "Firmware Update". It features a "New Firmware File:" label followed by a text input field and a green "Browse" button. Below this is a "Warning:" section in red text stating: "The firmware update process takes a couple of minutes. Please do not power off the device until the process finishes." At the bottom of the warning section is a green "Update" button.

Follow the steps below to update the firmware of your EAP:

1. Go to our website <https://www.omadanetworks.com> and search for your EAP model. Download the proper firmware file on the support page of the EAP.
2. Click the **Browse** button, locate and choose the correct firmware file from your host.
3. Click the **Update** button to update the firmware of the EAP. After updated, the EAP will be rebooted automatically.

### Note:

The update process takes several minutes. To avoid damage to the EAP, please wait without any operation until the update is finished.

# 8

## *Application Example*

This chapter provides an application example about how to establish and manage a EAP wireless network:

A restaurant wants to provide the wireless internet access for the employees and guests. The restaurant now has a gateway, a switch, a dual-band EAP and a computer. Follow the steps below to establish the wireless network:

*8.1 Determine the Network Requirements*

*8.2 Build the Network Topology*

*8.3 Log in to the EAP*

*8.4 Configure the EAP*

*8.5 Test the Network*

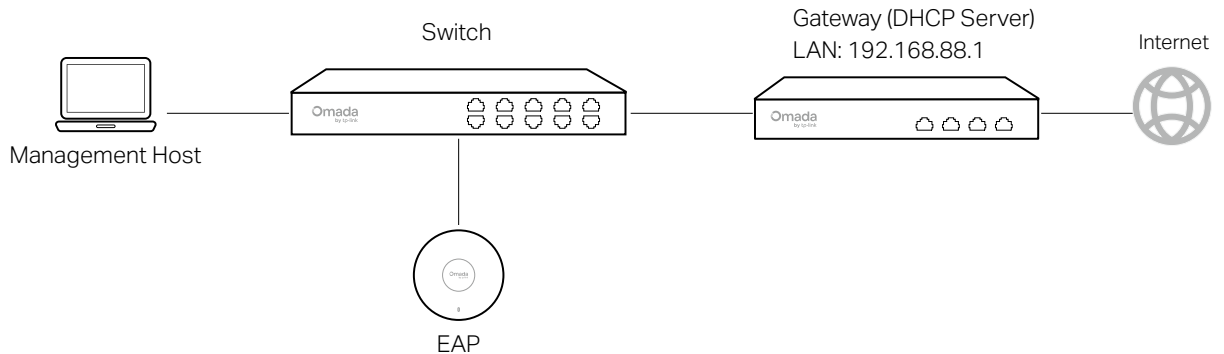
## 8.1 Determine the Network Requirements

Before starting to build the network, we need to first analyze and determine the network requirements. In this restaurant example, the network requirements are as follows:

- On both 2.4GHz and 5GHz bands, there are two SSIDs needed: one for the restaurant employees and one for the guests.
- In order to advertise the restaurant, the Portal feature needs to be configured on the SSIDs for the guests. In this way, the guests who have passed the portal authentication will be redirected to the restaurant's official website **<http://www.restaurant1.com>**.
- The employees of the restaurant can use the correct password to access the internet and do not need to pass the portal authentication. For security, the SSIDs for the employees should be encrypted with WPA2-PSK.
- To reduce power consumption, the Scheduler feature needs to be configured. The radio should operate only during the working time (9:00 am to 22:00 pm).

## 8.2 Build the Network Topology

Build the network topology as the following figure shows.



- The gateway of the network acts as a DHCP server to assign dynamic IP addresses to the management host, EAP and clients. The LAN IP of the gateway is 192.168.88.1.
- Connect the switch to the LAN port of the gateway.
- Connect the management host and the EAP to the switch. The IP address mode of the management host and EAP is dynamic, which means that they will get dynamic IP addresses from the gateway.

### Tip:

If the gateway has more than one LAN port, we can also respectively connect the management host and the EAP to the LAN ports of the gateway.

## 8.3 Log in to the EAP

After building the network topology, follow the steps below to log in to the web page of the EAP:

1. On the management host, launch the web browser and enter "192.168.88.1" in the address bar. Then log in to the gateway and find the IP address of the EAP. As the following figure shows, the IP address of the EAP is 192.168.88.101.

LANDHCPDHCP ClientDHCP Reservation

List of DHCP Client

No.	Host Name	MAC Address	IP Address	Lease Time
1	EAP		192.168.88.101	00:00:43
2	tplink2		192.168.88.100	00:00:58

Refresh

Search

Help

2. Enter "192.168.88.101" in the address bar to load the web page of the EAP. In the pop-up window, set up the username and password for login to the EAP's web management page. Click **Next**.

### Set up a new account

New Username:

restaurant

New Password:

.....

Low Middle High

Confirm Password:

.....

✓

Allow Data Collection:

☐ Enable ⓘ

Next

3. The setup wizard will be displayed.



## 8.4 Configure the EAP

To achieve the network requirements in this application example, we need to [Configure SSIDs](#), [Configure Portal Authentication](#) and [Configure Scheduler](#).

### 8.4.1 Configure SSIDs

1. After Logging in to EAP, follow the step-by-step instructions to creating SSIDs for the employees.

### Wireless Basic Settings

2.4GHz Wireless Radio:

☒ Enable

SSID:

employee\_2.4GHz

Password:

example123abc

5GHz Wireless Radio:

☒ Enable

SSID:

employee\_5GHz

Password:

example123abc

Back

Save

Skip

2. Go to the **Wireless > Wireless Settings** page. Click the **2.4GHz** and **5GHz** tab to add SSIDs for guests. Keep the **Security Mode** as "None".

2.4GHz 5GHz

### 5GHz Wireless Radio

5GHz Wireless Radio:

☒ Enable

Save

### 5GHz SSIDs

+ Add

ID	SSID	VLAN ID	SSID Broadcast	Security Mode	Guest Network	Action
--	--	--	--	--	--	--

SSID:

guest\_5GHz

SSID Broadcast:

☒ Enable

Security Mode:

None

Guest Network:

☒ Enable ⓘ

OK

Cancel

## 8.4.2 Configure Portal Authentication

Follow the steps below to configure portal authentication:

1. Go to the **Wireless > Portal** page.
2. Configure the portal feature as the following figure shows.

The screenshot shows the 'Portal Configuration' page. It includes several configuration fields: 'SSID' set to 'guest\_2.4GHz, guest\_5GHz', 'Authentication Type' set to 'Local Password', 'Password' set to 'example123', and 'Authentication Timeout' set to 'Custom' with a value of '0 D 2 H 0 M'. The 'Redirect' checkbox is checked and labeled 'Enable', with the 'Redirect URL' set to 'http://www.restaurant1.com'. The 'Portal Customization' dropdown is set to 'Local Web Portal'. Below these fields is a preview of the web portal interface, which displays a welcome message, a password input field, a 'Term of Use' section with two terms, a checkbox for 'I accept the Term of Use', and a 'Login' button. A 'Save' button is located at the bottom left of the configuration area.

- 1) Select the SSIDs for the guests on which the portal will take effect.
- 2) Select the **Authentication Type** as "Local Password" and specify the **Password** as "example123".
- 3) Configure **Authentication Timeout**. Here we customize the timeout as 2 hours. It means that guests will be logged out after they have been authenticated for 2 hours. To continue to use the internet service, these guests need to enter the password to pass the portal authentication once again.
- 4) Check the box to enable **Redirect**, and enter the website of the restaurant: **http://www.restaurant1.com**.

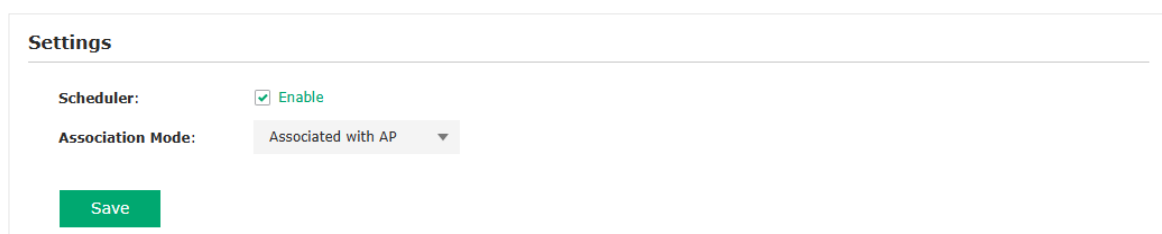
- 5) Configure the authentication page. Specify the title and the term of use. To access the internet, guests need to enter the correct password in the **Password** field, accept the **Term of Use**, and click the **Login** button.

3. Click **Save**.

### 8.4.3 Configure Scheduler

Follow the steps below to schedule the radio to operate only during the working time (9:00 am to 22:00 pm).

1. Go to the **Wireless > Scheduler** page.
2. In the **Settings** section, check the box to enable **Scheduler**, and select the **Association Mode** as "Associated with AP". Click **Save**.



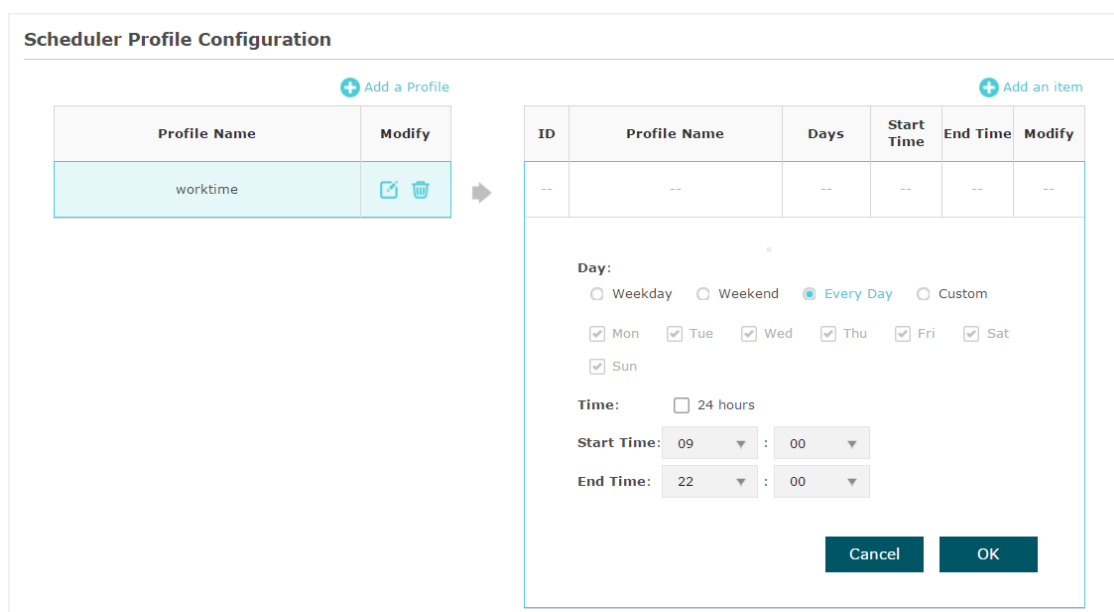
**Settings**

Scheduler: ☒ Enable

Association Mode: Associated with AP ▼

Save

3. In the **Scheduler Profile Configuration** section, click **Create Profiles**. Click **Add a profile**, specify the profile name as "worktime", and click **OK**. Choose the profile "worktime", click **Add an item**, specify the time range as everyday 9:00 to 22:00, and click **OK**.



**Scheduler Profile Configuration**

+ Add a Profile

Profile Name	Modify
worktime	

➡

+ Add an item

ID	Profile Name	Days	Start Time	End Time	Modify
--	--	--	--	--	--

Day: ☐ Weekday ☐ Weekend ☒ Every Day ☐ Custom

☒ Mon ☒ Tue ☒ Wed ☒ Thu ☒ Fri ☒ Sat

☒ Sun

Time: ☐ 24 hours

Start Time: 09 : 00

End Time: 22 : 00

Cancel OK

4. In the **Scheduler Association** section, select "worktime" in the **Profile Name** column and select "Radio On" in the **Action** column. Click **Save**.

**Scheduler Association**

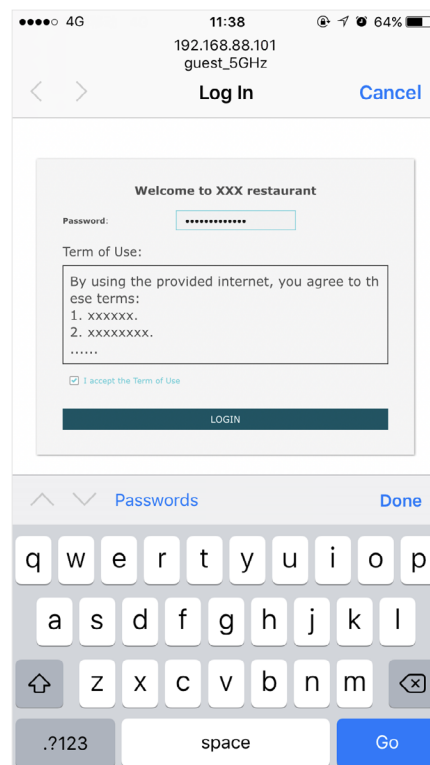
ID	AP	AP MAC	Profile Name	Action
1	EAP		worktime	Radio On

Save

## 8.5 Test the Network

To ensure that the employees and guests can surf the internet via the wireless network, we can use a client device, such as a telephone, to test whether the SSIDs are working normally.

- To test the SSIDs for the employees, follow the steps below:
  - 1) Enable the Wi-Fi feature of the client device.
  - 2) Choose the SSID of the employee network from the detected SSIDs.
  - 3) Enter the password of the employee network to join the wireless network.
  - 4) Check whether internet websites can be visited successfully.
- To test the SSIDs for the guests, follow the steps below:
  - 1) Enable the Wi-Fi feature of the client device.
  - 2) Choose the SSID of the guest network from the detected SSIDs.
  - 3) The default web browser on the device will pop up and the authentication page will appear. Enter the password of the guest network, check the box to accept the term of use, and click the **LOGIN** button.



**Tip:**

Generally, the web browser pops up automatically. But if the web browser does not pop up, we can manually launch the web browser and visit any http website. Then the authentication page will appear.

- 4) If the network is working normally, the client will be redirected to the website of the restaurant: **<http://www.restaurant1.com>**.

