



User Guide

AX1800 Gigabit Wi-Fi 6 Access Point
TL-WA1801

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About This Guide

This guide is a complement of Quick Installation Guide. The Quick Installation Guide instructs you on quick internet setup, and this guide provides details of each function and shows you the way to configure these functions appropriate to your needs.

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

Conventions

In this guide the following conventions are used:

Convention	Description
<u>Underlined</u>	Underlined words or phrases are hyperlinks. You can click to redirect to a website or a specific section.
Teal	Contents to be emphasized and texts on the web page are in teal, including the menus, items, buttons, etc.
>	The menu structures to show the path to load the corresponding page. For example, System > Firmware Update means the Firmware Update page is located in the System tab.
 Note:	Ignoring this type of note might result in a malfunction or damage to the device.
 Tips:	Indicates important information that helps you make better use of your device.
symbols on the web page	: Click to edit the corresponding entry. : Click to delete the corresponding entry. : Click to enable or disable the corresponding entry. : Click to view more information about items on the page.

More Info

The latest software, management app and utility can be found at [Download Center](https://www.tp-link.com/support/download) at <https://www.tp-link.com/support/download>.

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

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

TP-Link Community is provided for you to discuss our products and share knowledge at <https://community.tp-link.com>.

Our Technical Support contact information can be found at the [Contact Technical Support](https://www.tp-link.com/support) page at <https://www.tp-link.com/support>.

*Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput 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.

*Use of Wi-Fi 6 (802.11ax), and features including OFDMA, 1024-QAM, and HT160 require clients to also support the corresponding features.

*Saving clients' battery power requires clients to also support the 802.11ax Wi-Fi standard. Actual power reduction may vary as a result of network conditions, client limitations, and environmental factors.

*Use of WPA3 requires clients to also support the corresponding feature.

*This device may not support all the mandatory features as ratified in Draft 3.0 of IEEE 802.11ax specification.

*Further software upgrades for feature availability may be required.

Chapter 1

Get to Know About Your Access Point

This chapter introduces what the access point can do and shows its appearance.

It contains the following sections:

- [Product Overview](#)
- [Panel Layout](#)

1.1. Product Overview

The TP-Link access point, with multiple operation modes, is designed to establish or expand a scalable high-speed wireless network or to connect your Ethernet enabled device to a wireless network, such as the game console, digital media adapter, printer, or network attached storage device. The access point supports a host of different functions that make your wireless networking experience more flexible than ever before. Now, you can enjoy a better internet experience when downloading, gaming, video streaming or with any other application that you may wish to use.

1.2. Panel Layout

1.2.1. Top View



The access point's LEDs (view from left to right) are located on the top panel. You can check the access point's working status by following the LED Explanation table.

LED Explanation

Name	Status	Indication
 (Power)	On	Power is on.
	Blinking once every second	The system is starting up or the firmware upgrade is in progress. Do not disconnect or power off your access point.
	Blinking twice every second	WPS connection is in progress. This may take up to 2 minutes.
	Off	Power is off.
 (Ethernet)	On	The Ethernet port is connected to a powered-on device.
	Off	The Ethernet port is not connected to a powered-on device.
 (2.4GHz)	On/Off	For Access Point/Multi-SSID mode: The 2.4GHz wireless band is enabled or disabled. For Range Extender/Client mode: The device is connected or not connected to a 2.4GHz main network.
 (5GHz)	On/Off	For Access Point/Multi-SSID mode: The 5GHz wireless band is enabled or disabled. For Range Extender/Client mode: The device is connected or not connected to a 5GHz main network.

1. 2. 2. Back Panel



The following parts (view from left to right) are located on the back panel.

Ports or Buttons	Description
Power Port	For connecting the access point to a power socket via the provided power adapter.
On/Off Button	Press this button to power on or off the access point.
Reset	Press and hold this button until the Power LED blinks to reset the access point to its factory default settings.
WPS	Press this button and immediately press the WPS button on another device to quickly establish a wireless connection.
Ethernet Port	For connecting an Ethernet enabled device, such as a router or desktop.
Antennas	Used for wireless operation and data transmitting. Upright them for the best Wi-Fi performance.

Chapter 2

Set Up Internet Connection

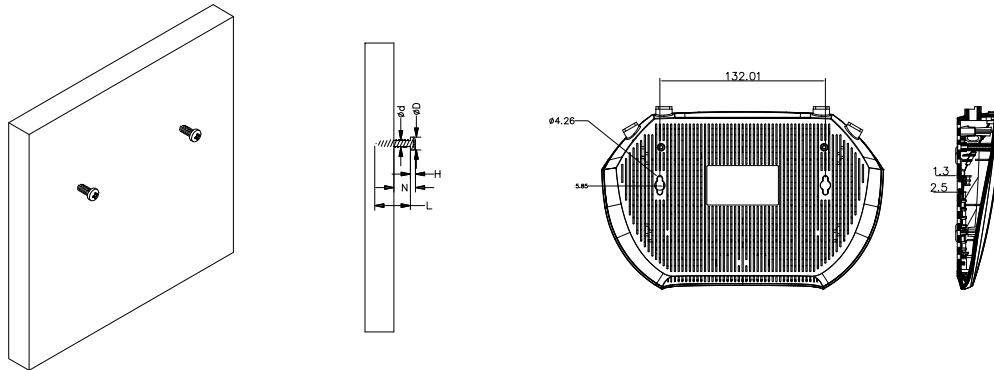
This chapter introduces how to quickly set up the access point.

It contains the following sections:

- [Position Your Access Point](#)
- [Set Up Your Access Point](#)

2.1. Position Your Access Point

- The product should not be located in a place where it will be exposed to moisture or excessive heat.
- Place the access point in a location where it can be connected to various devices as well as to a power source.
- Make sure the cables and power cord are safely placed out of the way so they do not create a tripping hazard.
- The access point can be placed on a shelf or desktop.
- Keep the access point away from devices with strong electromagnetic interference, such as Bluetooth devices, cordless phones and microwaves.
- Generally, the access point is placed on a horizontal surface, such as on a shelf or desktop. The device also can be mounted on the wall as shown in the following figure.



NOTE:
 $4.76\text{mm} < D < 5.35\text{mm}$;
 $H < 2.5\text{mm}$;
 $N > 3.8\text{mm}$;
 $L > 11\text{mm}$

Note:

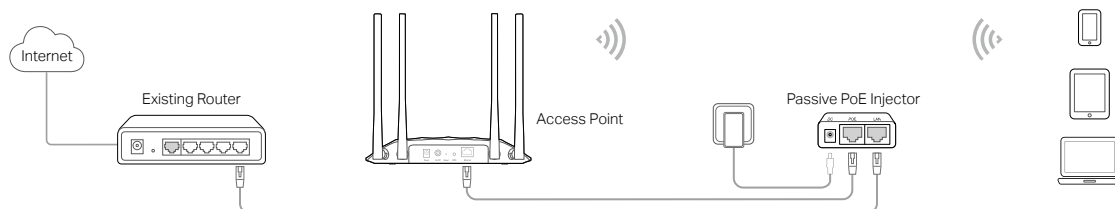
The diameter of the screw head, $4.76\text{ mm} < D < 5.35\text{ mm}$, and the distance of two screws is 132 mm. The screw that project from the wall need around 3.8 mm based, and the length of the screw need to be at least 11 mm to withstand the weight of the product.

- If the access point is located far from a power outlet, you can power the device with the provided passive PoE injector.

Note:

The passive PoE injector supports a cable length up to 30 meters, but the value may vary due to the environment.

Power on via Passive PoE Injector

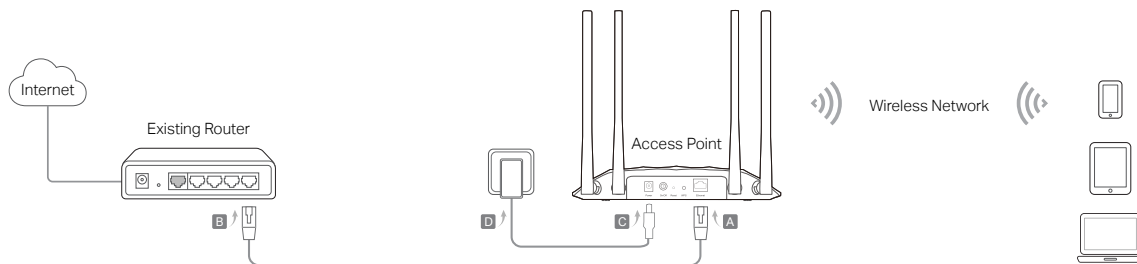


2.2. Set Up Your Access Point

There are four operation modes supported by this access point: Access Point, Range Extender, Client, and Multi-SSID. Please determine which operation mode you need and complete the corresponding setup.

2.2.1. Access Point Mode (Default)

In this mode, the access point transforms your existing wired network to a wireless one. This mode is suitable for dorm rooms or homes where there's already a wired router but you need a wireless network.



1. Connect the access point according to Step A to D in the diagram.
2. Turn on the power, and wait for about 2 minutes until the Power and Wi-Fi LEDs are lit and stable.
3. Use the default SSID and Password printed on the label of the access point to join its Wi-Fi network.

Note:

You can surf the internet now. For your wireless network security, it is recommended to change the default SSID (network name) and the password of your Wi-Fi network. To do so, perform the following steps.

4. Launch a web browser and enter <http://tplinkap.net>. Create a password to log in.

Note:

If the login window does not appear, please refer to the [FAQ](#) section.

Create an administrator password

For security purposes, create a local password for login before starting the quick setup.

New Password:

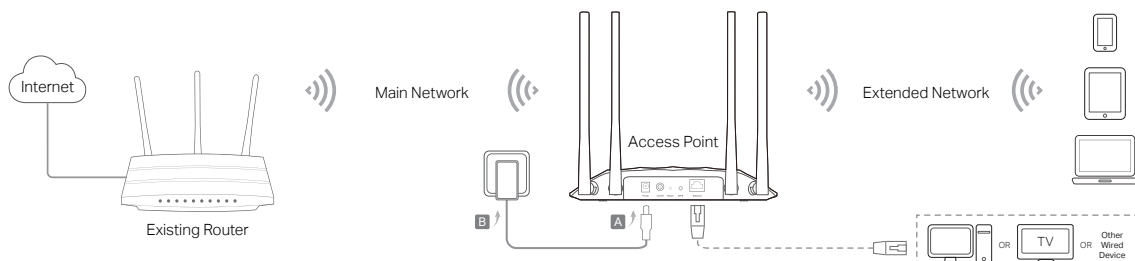
Confirm Password:

Let's Get Started

5. Follow the step-by-step instructions to complete the configuration.
6. Now, reconnect your wireless devices to the new Wi-Fi network and enjoy the internet!

2.2.2. Range Extender Mode

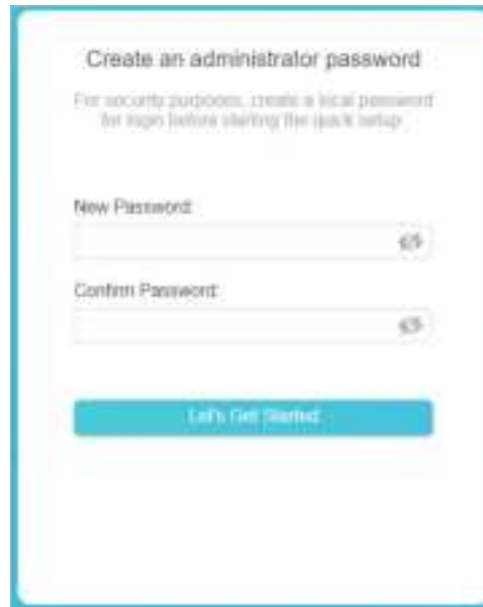
In this mode, the access point extends the range of an existing Wi-Fi network. This mode is suitable when you are in a Wi-Fi dead-zone or a place with weak wireless signal, and you want to have a larger effective range of the wireless signal throughout your home or office.



1. Connect the access point according to Step A and B in the diagram.
2. Turn on the power, and wait for about 2 minutes until the Power and Wi-Fi LEDs are lit and stable.
3. Connect your computer to the access point via an Ethernet cable.
4. Launch a web browser and enter <http://tplinkap.net>. Create a password to log in.

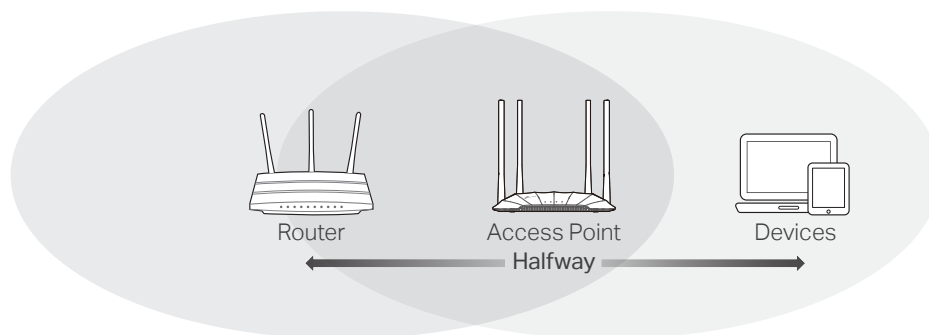
Note:

If the login window does not appear, please refer to the [FAQ](#) section.



5. Click [Change Mode](#) in the upper right corner and switch to the [Range Extender](#) mode.
6. Wait until the access point reboots, then log in again.
7. Follow the step-by-step instructions to complete the configuration.
8. Relocate the access point about [halfway](#) between your host router and the Wi-Fi dead zone.

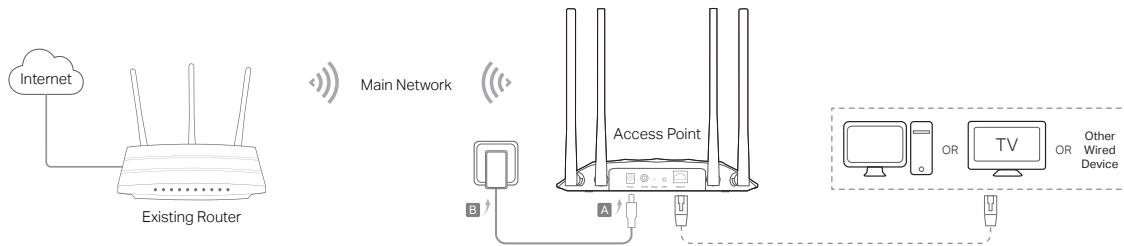
 Tip: To maximize the signal strength, refer to the [FAQ](#) section.



9. Now, connect your devices to the access point wirelessly or via an Ethernet cable, and enjoy the internet!

2.2.3. Client Mode

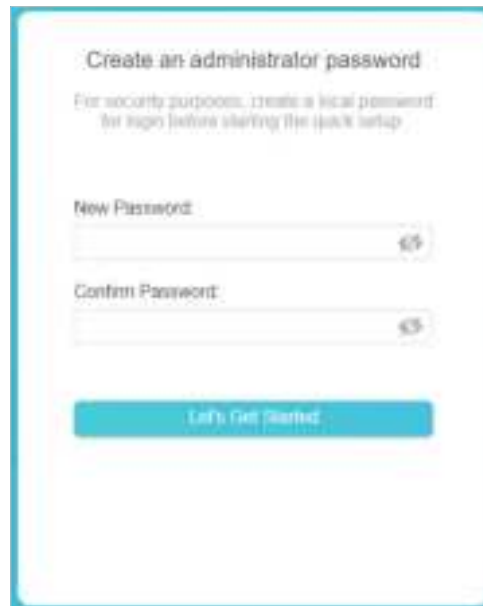
In this mode, the access point connects your wired device to a wireless network. This mode is suitable when you have a wired device with an Ethernet port and no wireless capability, for example, a smart TV or game console and you want to connect it to the internet wirelessly.



1. Connect the access point according to Step A to B in the diagram.
2. Turn on the power, and wait for about 2 minutes until the Power and Wi-Fi LEDs are lit and stable.
3. Connect your computer to the access point via an Ethernet cable.
4. Launch a web browser and enter <http://tplinkap.net>. Create a password to log in.

Note:

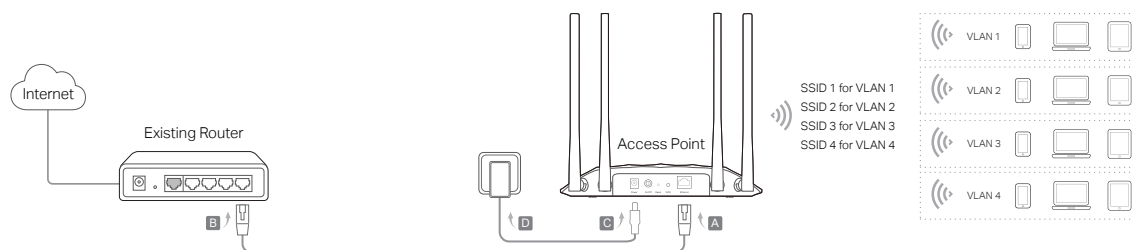
If the login window does not appear, please refer to the [FAQ](#) section.



5. Click **Change Mode** in the upper right corner and switch to the **Client** mode.
6. Wait until the access point reboots, then log in again.
7. Follow the step-by-step instructions to complete the configuration.
8. Now, connect your wired device to the access point via an Ethernet cable, and enjoy the internet!

2.2.4. Multi-SSID Mode

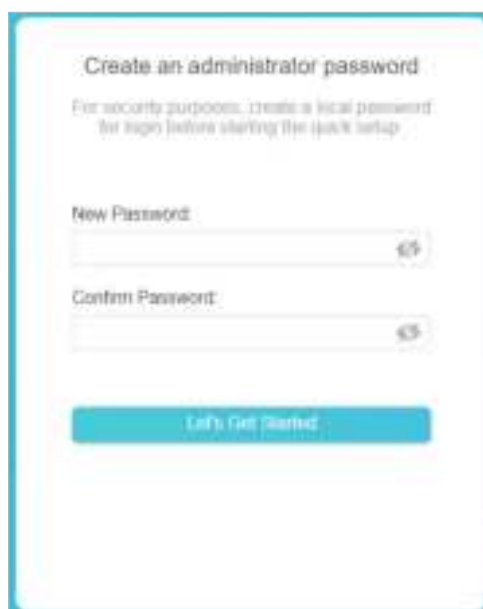
In this mode, the access point creates multiple wireless networks to provide different security and VLAN (Virtual Local Area Network) groups. This mode is suitable when you want your devices connected to different wireless networks and become isolated by VLANs.



1. Connect the access point according to Step A to D in the diagram.
2. Turn on the power, and wait for about 2 minutes until the Power and Wi-Fi LEDs are lit and stable.
3. Use the default SSID and Password printed on the label of the access point to join its Wi-Fi network.
4. Launch a web browser and enter <http://tplinkap.net>. Create a password to log in.

Note:

If the login window does not appear, please refer to the [FAQ](#) section.



5. Click **Change Mode** in the upper right corner and switch to the **Multi-SSID** mode.
6. Wait until the access point reboots, then reconnect to the access point and log in again.
7. Follow the step-by-step instructions to complete the configuration.
8. Now, connect your wireless devices to the Wi-Fi networks and enjoy the internet!

Tip:

If you want to isolate different networks, go to **Wireless > Wireless Settings**, click the edit icon of each SSID entry and set different VLAN IDs.

Chapter 3

TP-Link Cloud Service

(for Access Point Mode)

TP-Link Cloud service provides a better way to manage your cloud devices. Log in to your access point with a TP-Link ID, and you can easily monitor and manage your home network when you are out and about via the Tether app. To ensure that your access point stays new and gets better over time, the TP-Link Cloud will notify you when an important firmware upgrade is available. Surely you can also manage multiple TP-Link Cloud devices with a single TP-Link ID.

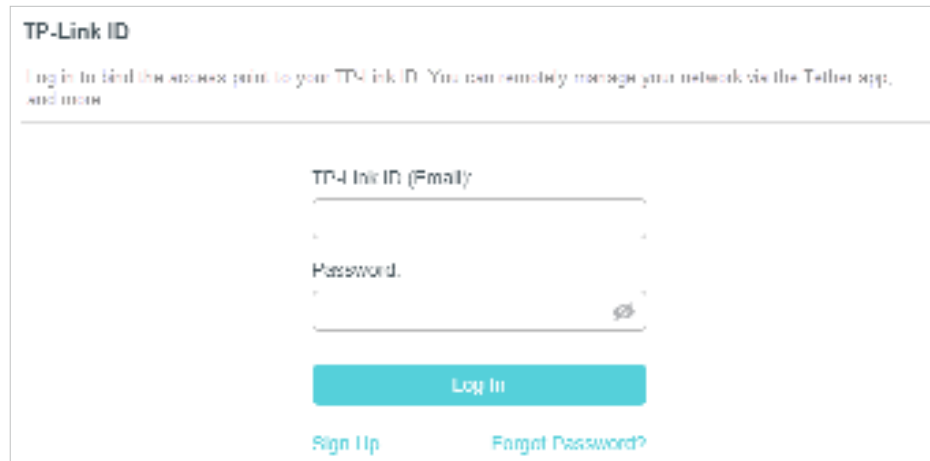
This chapter introduces how to register a new TP-Link ID, bind or unbind TP-Link IDs to manage your access point, and the Tether app with which you can manage your home network no matter where you may find yourself.

It contains the following sections:

- [Register a TP-Link ID](#)
- [Change Your TP-Link ID Information](#)
- [Manage the User TP-Link IDs](#)
- [Manage the Access Point via the TP-Link Tether App](#)

3. 1. Register a TP-Link ID

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to [System](#) > [TP-Link ID](#) or click [TP-Link ID](#) in the upper right corner of the page.
3. Click [Sign Up](#) and follow the instructions to register a TP-Link ID.



4. After activating your TP-Link ID, come back to the TP-Link ID page to log in. The TP-Link ID used to log in to the access point for the first time will be automatically bound as an [Admin](#).

Note:

- To learn more about the [Admin](#) and [User](#) TP-Link ID, refer to [Manage the User TP-Link IDs](#).
- Once you have registered a TP-Link ID on the web management page, you can only register another TP-Link ID via the Tether APP. Please refer to [Manage the Access Point via the TP-Link Tether App](#) to install the app.
- If you want to unbind the admin TP-Link ID from your access point, please go to [Advanced](#) > [TP-Link ID](#), and click [Unbind](#) in the [Device Information](#) section.

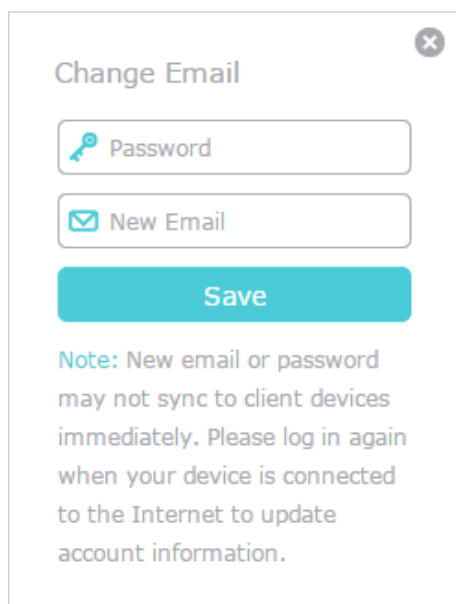
3. 2. Change Your TP-Link ID Information

Follow the steps below to change your email address and password of your TP-Link ID as needed.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to [System](#) > [TP-Link ID](#), and focus on the [Account Information](#) section.

- **To change your email address:**

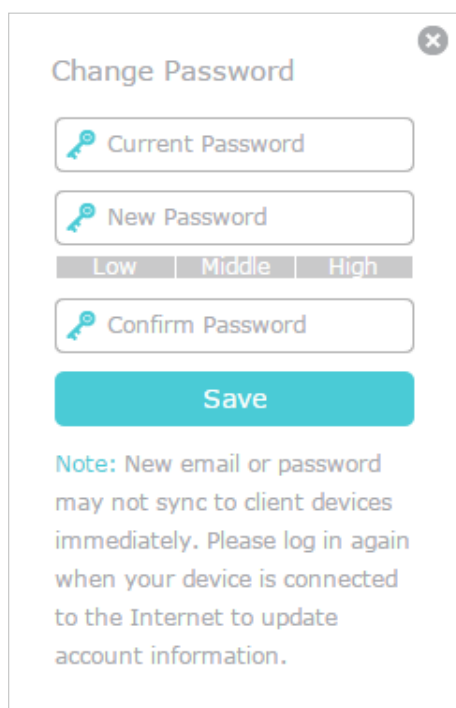
1. Click  behind the Email.
2. Enter the password of your TP-Link ID, then a new email address. And click [SAVE](#).



A dialog box titled "Change Email" with a close button (X) in the top right corner. It contains two input fields: "Password" with a key icon and "New Email" with an envelope icon. Below the fields is a teal "Save" button. A note at the bottom states: "Note: New email or password may not sync to client devices immediately. Please log in again when your device is connected to the Internet to update account information."

- **To change your password:**

1. Click  behind the Password.
2. Enter the current password, then a new password twice. And click **SAVE**.



A dialog box titled "Change Password" with a close button (X) in the top right corner. It contains three input fields: "Current Password" with a key icon, "New Password" with a key icon, and "Confirm Password" with a key icon. Below the "New Password" field are three tabs: "Low", "Middle", and "High". Below the fields is a teal "Save" button. A note at the bottom states: "Note: New email or password may not sync to client devices immediately. Please log in again when your device is connected to the Internet to update account information."

3.3. Manage the User TP-Link IDs

The TP-Link ID used to log in to the access point for the first time will be automatically bound as the **Admin** account. An admin account can add or remove other TP-Link IDs

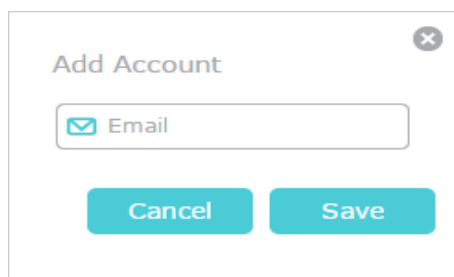
to or from the same access point as **Users**. All accounts can monitor and manage the access point locally or remotely, but user accounts cannot:

- Reset the access point to its factory default settings either on the web management page or in the Tether app.
- Add/remove other TP-Link IDs to/from the access point.

3.3.1. Add TP-Link ID to Manage the Access Point

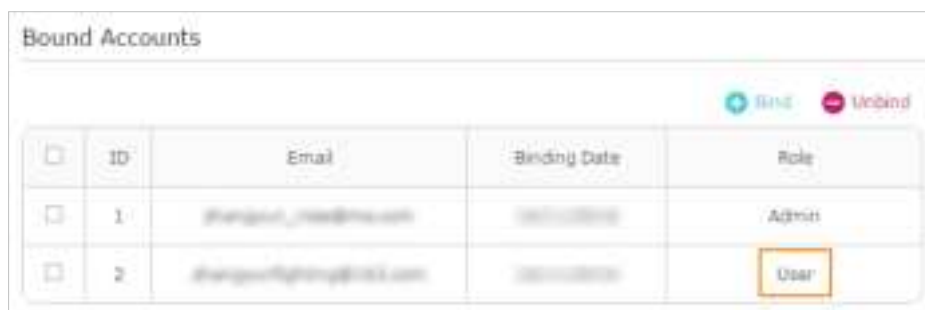
1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **System > TP-Link ID**, and focus on the **Bound Accounts** section.
3. Click **+ Bind**, enter another TP-Link ID as needed and click **SAVE**.

Note: If you need another TP-Link ID, please register a new one via the Tether app. Refer to [Manage the Access Point via the TP-Link Tether App](#) to install the app and register a new TP-Link ID.



The image shows a modal dialog box titled "Add Account" with a close button (X) in the top right corner. Inside the dialog, there is a text input field with a blue envelope icon and the placeholder text "Email". Below the input field are two buttons: "Cancel" and "Save", both in a teal color.

4. The new TP-Link ID will be displayed in the Bound Accounts table as a **User**.



The image shows a screenshot of the "Bound Accounts" section in the TP-Link Cloud Service interface. At the top right of the section are two buttons: "+ Bind" (teal) and "- Unbind" (purple). Below these buttons is a table with the following columns: "ID", "Email", "Binding Date", and "Role". There are two rows of data. The first row has ID "1", a blurred email address, a blurred binding date, and the role "Admin". The second row has ID "2", a blurred email address, a blurred binding date, and the role "User", which is highlighted with a yellow box.

ID	Email	Binding Date	Role
1	[blurred]	[blurred]	Admin
2	[blurred]	[blurred]	User

3.3.2. Remove TP-Link ID(s) from Managing the Access Point

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **System > TP-Link ID**, and focus on the **Bound Accounts** section.
3. Tick the checkbox(es) of the TP-Link ID(s) you want to remove and click **Unbind**.

Chapter 4

Wireless Settings

This chapter guides you on how to configure the wireless settings.

It contains the following sections:

- [Specify Wireless Settings](#)
- [Use WPS for Wireless Connection \(for Access Point/Multi-SSID Mode\)](#)
- [Check Advanced Wireless Settings \(for Access Point/Multi-SSID Mode\)](#)
- [Monitor Wireless Statistics \(for Access Point/Multi-SSID Mode\)](#)
- [Monitor the Traffic Throughput \(for Access Point/Multi-SSID Mode\)](#)

4.1. Specify Wireless Settings

The access point's wireless network names (SSIDs), password, and security option are preset in the factory. The preset SSIDs and password can be found on the label of the access point.

Wireless settings differ with operation mode.

4.1.1. Access Point Mode

When the device works in Access Point mode, you can customize its wireless network.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to [Wireless](#) > [Wireless Settings](#).

Wireless Settings

Personalize settings for each band or enable Smart Connect to configure the same settings for all bands.

Smart Connect: ☐ Enable ?

2.4GHz: ☒ Enable [Share Network](#)

Network Name (SSID): ☐ Hide SSID

Security:

Password:

Transmit Power:

Channel Width:

Channel:

Mode:

5GHz: ☒ Enable [Share Network](#)

Network Name (SSID): ☐ Hide SSID

Security:

Password:

Transmit Power:

Channel Width:

Channel:

Mode:

3.

- **To use the Smart Connect function:**

Smart Connect combines the 2.4 GHz and 5 GHz bands and assigns your devices between them to balance network demands.

1. Go to [Wireless > Wireless Settings](#).
2. Enable [Smart Connect](#).



3. Keep the default values or set a new SSID and password, and click [SAVE](#). This SSID and password will be applied for the 2.4 GHz and 5 GHz wireless networks. If you want to configure the wireless settings separately for each band, deselect the checkbox to disable this feature.

- **To enable or disable a wireless band:**

1. Go to [Wireless > Wireless Settings](#).
2. The wireless bands are enabled by default. If you want to disable a wireless band, just deselect its [Enable](#) checkbox.

- **To change the wireless network name (SSID) and wireless password:**

1. Go to [Wireless > Wireless Settings](#).
2. Create a new SSID in [Network Name \(SSID\)](#) and customize the password for the network in [Password](#). The value is case-sensitive.

 **Note:** If you change the wireless settings with a wireless device, you will be disconnected when the settings are effective. Please write down the new SSID and password for future use.

- **To hide SSID:**

1. Go to [Wireless > Wireless Settings](#).
2. Select [Hide SSID](#), then your SSID won't display when wireless devices scan for wireless networks and you will need to manually enter the SSID to join the network.

- **To change the security option:**

1. Go to [Wireless > Wireless Settings](#).
2. Select an option from the [Security](#) drop-down list. We recommend you don't change the default settings unless necessary.

- **To change the transmit power:**

1. Go to [Wireless > Wireless Settings](#).
2. Select an option from the [Transmit Power](#) drop-down list.

- **To change channel and mode settings:**

1. Go to [Wireless > Wireless Settings](#).

2. Make sure Smart Connect is disabled. Channel and mode settings are not available when Smart Connect is enabled.
3. Select a **Channel Width** (bandwidth) for the wireless network. It is recommended to just leave it as default.
4. Select an operating **Channel** for the wireless network. It is recommended to leave the channel to **Auto** if you are not experiencing the intermittent wireless connection issue.
5. Select a transmission **Mode** according to your wireless client devices. It is recommended to just leave it as default.
6. Click **SAVE**.

4. 1. 2. Range Extender Mode

When the device works in Range Extender mode, you can reselect the networks to extend and customize the extended networks.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **Wireless > Wireless Settings**.
3. In the **Connect to Main Network** section, select the **2.4GHz** and/or **5GHz** network(s), click **Wi-Fi SCANNER** to find and select the network to extend. If the selected network is encrypted, enter the network password.

Connect to Main Network

Connect the access point to your main network.

2.4GHz ☒ Enable

WIFI SCANNER

Main Network SSID:

MAC Address:

☐ Lock to AP

Security:

Password:

5GHz ☒ Enable

WIFI SCANNER

Main Network SSID:

MAC Address:

☐ Lock to AP

Security:

Password:

4. In the [Extended Network](#) section, customize the extended networks as you need. You can:

- Enable or disable a wireless network.
- Change the extended SSIDs or copy main network SSIDs.

 **Note:** Extended passwords are the same as the main network passwords and cannot be changed.

- Select [Hide SSID](#) for a network, then your SSID won't display when wireless devices scan for wireless networks and you will need to manually enter the SSID to join the network.

Extended Network
Personalize settings for your extended network.

2.4GHz ☒ Enable [Share Network](#)

Extended SSID: ☐ Hide SSID

[COPY MAIN NETWORK SSID](#)

5GHz ☒ Enable [Share Network](#)

Extended SSID: ☐ Hide SSID

[COPY MAIN NETWORK SSID](#)

5. Click [SAVE](#).

4.1.3. Client Mode

When the device works in Client mode, you can connect to another network.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to [Wireless](#) > [Wireless Settings](#).

Connect to Main Network
Connect the access point to your main network.

Wireless Band: ☐ 2.4GHz ☒ 5GHz

[Wi-Fi SCANNER](#)

Main Network SSID:

MAC Address:

☐ Lock to AP

Security:

Password:

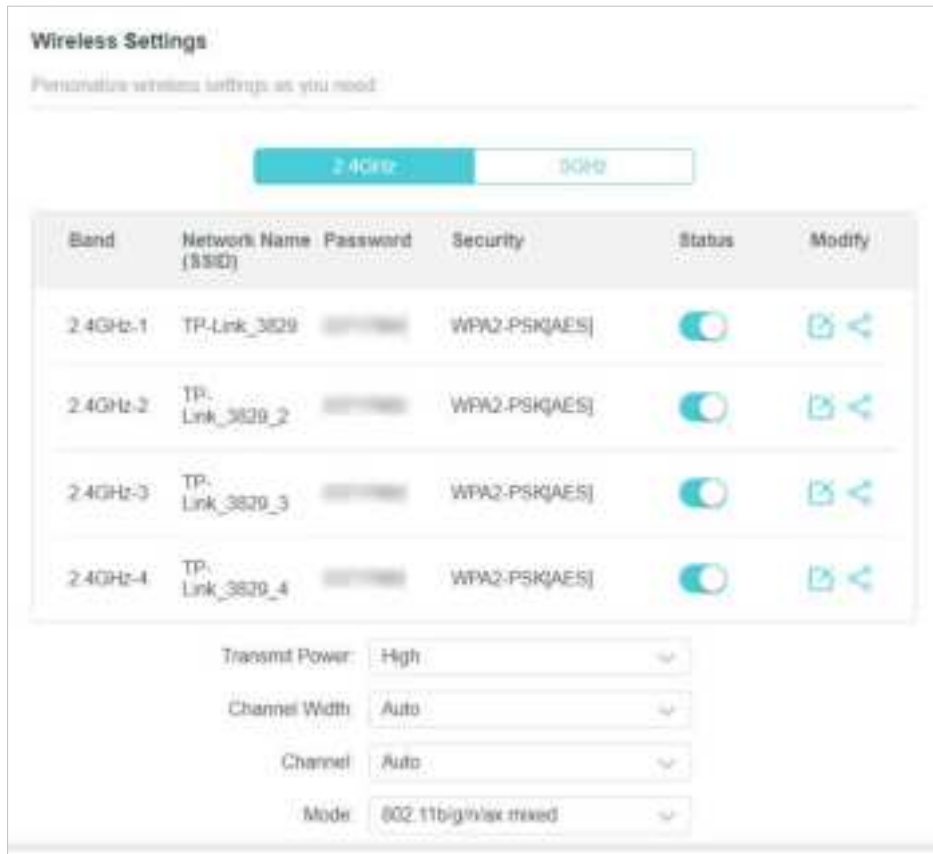
3. Select the [2.4GHz](#) or [5GHz](#) band.
4. Click [Wi-Fi SCANNER](#) to find and select the network to connect. Main network SSID and MAC address will be automatically filled in.
5. (Optional) If you want to lock the connection to the specified AP, enable [Lock to AP](#). The access point will not switch connection to other APs even if they use the same network name and password as the specified one.
6. Enter the network password.

7. Click **SAVE**.

4.1.4. Multi-SSID Mode

When the device works in Multi-SSID mode, you can customize and isolate multiple wireless networks.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **Wireless** > **Wireless Settings**.



Band	Network Name (SSID)	Password	Security	Status	Modify
2.4GHz-1	TP-Link_3829	*****	WPA2-PSK(AES)	☒	 
2.4GHz-2	TP-Link_3829_2	*****	WPA2-PSK(AES)	☒	 
2.4GHz-3	TP-Link_3829_3	*****	WPA2-PSK(AES)	☒	 
2.4GHz-4	TP-Link_3829_4	*****	WPA2-PSK(AES)	☒	 

Transmit Power:

Channel Width:

Channel:

Mode:

- To customize a wireless network:

1. Go to **Wireless** > **Wireless Settings**.
2. Click **2.4GHz** or **5 GHz**, select a network and click .



3. Customize the network according to your needs. You can:

- Enable or disable the network.
- Change the extended SSID, password, and security option.
- Select [Hide SSID](#) for the network, then your SSID won't display when wireless devices scan for wireless networks and you will need to manually enter the SSID to join the network.

4. Click [SAVE](#).

- **To isolate wireless networks:**

1. Go to [Wireless](#) > [Wireless Settings](#).

2. Click  of each SSID entry and set different VLAN IDs. Only the networks with the same VLAN ID can access each other. Wireless networks will be isolated by VLANs.



3. Click [SAVE](#).

- **To change the transmit power:**

1. Go to [Wireless](#) > [Wireless Settings](#).
2. Click [2.4GHz](#) or [5 GHz](#).
3. Select an option from the [Transmit Power](#) drop-down list.

- **To change channel settings:**

1. Go to [Wireless](#) > [Wireless Settings](#).
2. Click [2.4GHz](#) or [5 GHz](#).
3. Select a [Channel Width](#) (bandwidth) for the wireless network. It is recommended to just leave it as default.
4. Select an operating [Channel](#) for the wireless network. It is recommended to leave the channel to [Auto](#) if you are not experiencing the intermittent wireless connection issue.
5. Click [SAVE](#).

- **To change the transmission mode:**

1. Go to [Wireless](#) > [Wireless Settings](#).
2. Click [2.4GHz](#) or [5 GHz](#).
3. Select a transmission [Mode](#) according to your wireless client devices. It is recommended to just leave it as default.
4. Click [SAVE](#).

4. 2. Use WPS for Wireless Connection (for Access Point/Multi-SSID Mode)

Wi-Fi Protected Setup (WPS) provides an easier approach to set up a security-protected Wi-Fi connection.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to [Wireless](#) > [WPS](#).
3. Follow one of the following methods to connect your WPS-enabled client to the access point's Wi-Fi network.

- **Connect via the client's PIN**

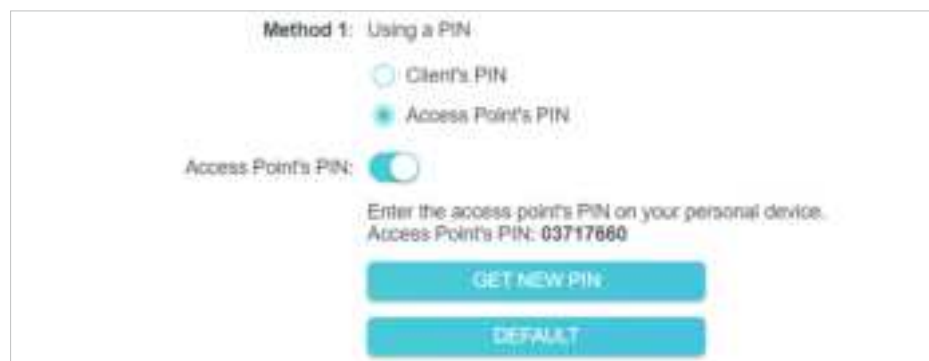
- 1) Click [Client's PIN](#).



- 2) Enter your client's PIN, and then click **CONNECT**.
- 3) A success message will appear on the WPS page when the device successfully join the access point's network.

- **Connect via the access point's PIN**

- 1) Click **Access Point's PIN**.



- 2) Check your access point's PIN. You can use the default PIN or generate a new one.
- 3) Enter this PIN on your client for it to join the access point's network.

- **Connect via the Start button on the WPS page**

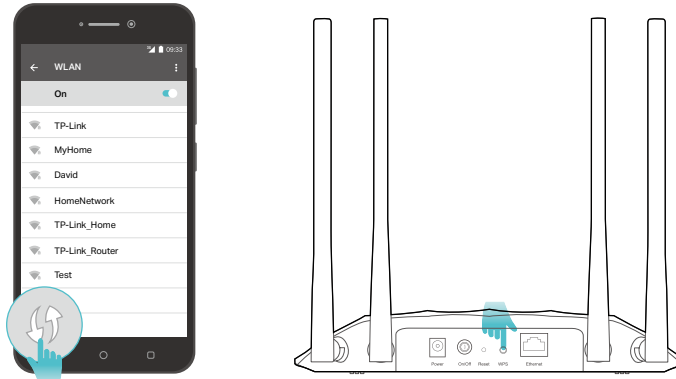
- 1) Click the **Start** button on the WPS page.



- 2) Within 2 minutes, enable WPS on your client.
- 3) A success message will appear on the WPS page when the device successfully join the access point's network.

- **Connect via the WPS button on the access point**

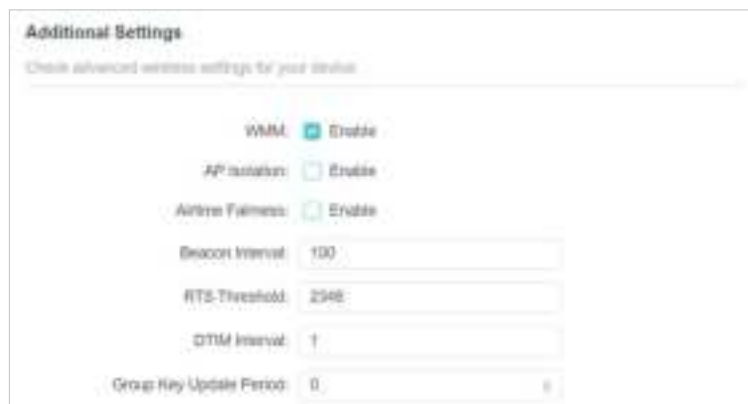
- 1) Press the WPS button on the back panel of the access point.
- 2) Within 2 minutes, enable WPS on your client. The client will connect to the access point.



4.3. Check Advanced Wireless Settings (for Access Point/Multi-SSID Mode)

You can check advanced wireless settings for the device. It is recommended that you keep the default settings. Improper settings may affect network performance.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **Wireless > Wireless Advanced**.
3. Check the advanced settings of your wireless network.



- **WMM** – This function can guarantee the packets with high-priority messages being transmitted preferentially.
- **AP Isolation** – This function isolates all connected wireless stations so that wireless stations cannot access each other through WLAN.
- **Airtime Fairness** – This function can improve the overall network performance by sacrificing a little bit of network time on your slow devices.

- **Beacon Interval** – Enter a value between 40 and 1000 in milliseconds to determine the duration between beacons packets that are broadcasted by the access point to synchronize the wireless network. The default value is 100 milliseconds.
- **RTS Threshold** – Enter a value between 1 and 2346 to determine the packet size of data transmission through the access point. If the packet is larger than the specified threshold, the access point will send RTS (Request to Send) frames to a particular receiving station and negotiate the sending of a data frame. Or else the packet will be sent immediately. The default value is 2346.
- **DTIM Interval** – This value determines the interval of the Delivery Traffic Indication Message (DTIM). A DTIM field is a countdown field informing clients of the next window for listening to broadcast and multicast messages. When the access point has buffered broadcast or multicast messages for associated clients, it sends the next DTIM with a DTIM Interval value. Enter a value between 1 and 15 Beacon Intervals. The default value is 1, indicating that the DTIM Interval is the same as Beacon Interval.
- **Group Key Update Period** – Enter the number of seconds (minimum 30) to control the time interval for the encryption key automatic renewal. The default value is 0, indicating no key renewal.

4.4. Monitor Wireless Statistics (for Access Point/ Multi-SSID Mode)

The Wireless Statistics page displays the data statistics of wireless clients.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **Wireless > Wireless Statistics**.
3. View the data statistics of wireless clients.



The screenshot shows the 'Wireless Statistics' page with a table of wireless clients. The table has columns for Type, Information, Connection Type, Security, Received Bytes, and Sent Bytes. There are two clients listed: 'M2012K11AC' and 'UNKNOWN'. Both are connected via 5GHz and use WPA2-PSK(AES) security. The first client has received 3.5KB and sent 19.0KB. The second client has received 8.6KB and sent 9.7KB. A 'Refresh' button is visible in the top right corner of the table area.

Type	Information	Connection Type	Security	Received Bytes	Sent Bytes
	M2012K11AC BC:AA:81:4E:DA:1E	5GHz	WPA2-PSK(AES)	3.5KB	19.0KB
	UNKNOWN C2:6D:DC:4E:7B:87	5GHz	WPA2-PSK(AES)	8.6KB	9.7KB

4. 5. Monitor the Traffic Throughput (for Access Point/Multi-SSID Mode)

The throughput chart displays the current data traffic of the network.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **Wireless > Throughput Monitor**.
3. Select **2.4G RX**, **2.4G TX**, **5G RX** and/or **5G TX** to view the data rates.



Chapter 5

Portal

(for Access Point/Multi-SSID Mode)

Imagine that you run a small shop and provide Wi-Fi access for your customers. You want to seize every opportunity to promote your shop, which makes portal authentication an excellent choice. Customers will be directed to a web page for access verification, on which your personalized promotion is displayed. Moreover, you can specify a web link so that the newly connected guest will be redirected to, for example, the official website of your shop.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **Wireless > Portal**.
3. Enable **Portal**.

Note: The figure below uses the Portal page of the Access Point mode as an example. In the Multi-SSID mode, more Wi-Fi networks will be available to select.



The screenshot shows the 'Portal' configuration page. At the top, there's a title 'Portal' and a brief description: 'Configure the Portal for your Wi-Fi networks to authenticate new clients. You can also personalize the client login page or redirect new clients to a specific URL.' Below this is a toggle switch for 'Portal' which is turned on. A note states: 'Note: This feature is not compatible with a router's IPv6 feature. If your main router supports IPv6, make sure the IPv6 feature has been turned off.' Underneath, there's a 'Select Wi-Fi' section with two radio buttons: 'TP-Link_3829 (2.4GHz)' and 'TP-Link_3829_5G (5GHz)'. Below that is a dropdown menu for 'Authentication Type' currently set to 'No Authentication'. Next is another dropdown for 'Authentication Timeout' set to '2 Hours'. Then, there's a 'Redirect' section with a radio button for 'Enable' which is currently unchecked. At the bottom, there's a 'Login Page' section with a link that says 'Click to Edit'.

4. Select the Wi-Fi networks for portal authentication.
5. Select the **Authentication Type**.
 - If you select **No Authentication**, clients can access the specified Wi-Fi networks without any authentication.
 - If you select **Simple Password**, you can set a password for clients.
6. Select a time for **Authentication Timeout**. A client has to reconnect to the network when its authentication expires.
7. (Optional) Enable **Redirect** and enter your desired website. Newly connected clients will be redirected to the specified website.
8. (Optional) Click to edit the **Login Page**. You can personalize the appearance and content of the login page for newly connected clients.

The screenshot shows the 'Login Page' configuration window. On the left is a preview of the login page with the TP-Link logo and a 'Login' button. On the right are the configuration settings:

- Portal Title:** Welcome
- Title Color:** #808080, 100%
- Button Color:** #4682B4, 100%
- Terms of Use:** ☐ Enable
- Logo Image:** [Field] [Select Image]
- Background Image:** [Field] [Select Image]

Below the logo and background image fields, there is a note: 'Only PNG and JPG formats are supported. Best image ratio is 1:1 and < 512 KB'.

At the bottom right, there are two buttons: 'Cancel' and 'Save'.

9. Click **SAVE**.

Chapter 6

Access Control

Access Control is used to block or allow specific client devices to access your network (via wired or wireless) based on a list of blocked devices (Blacklist) or allowed devices (Whitelist).

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.

2. Go to [Internet > Access Control](#).

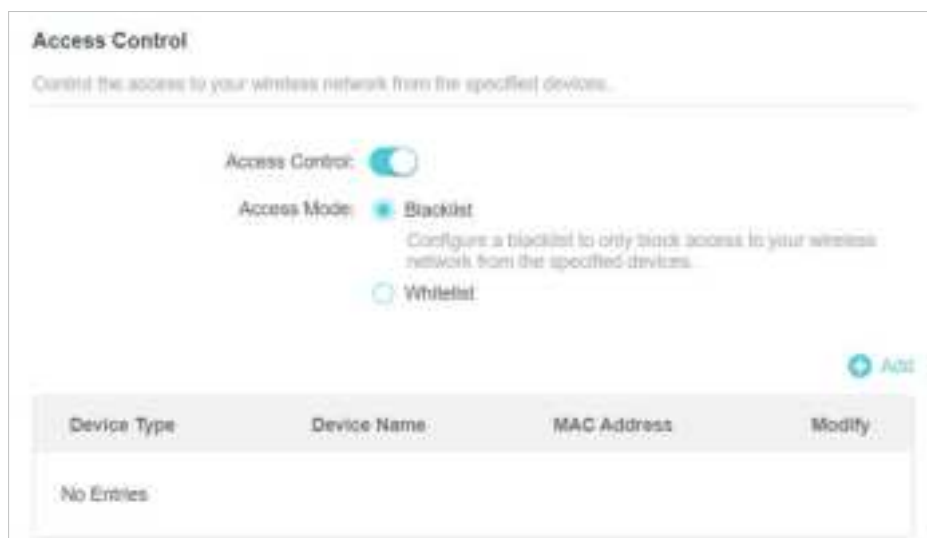
Note: Access Control is not available in Client mode.

3. Turn on [Access Control](#).

4. Select the access mode to either block (recommended) or allow specific device(s).

To block specific devices:

1) Click [Blacklist](#).



2) Click [Add](#).



3) Select the devices you want to block and click [ADD](#).

To allow specific devices:

1) Click [Whitelist](#) and click [SAVE](#). Your current device will be automatically added to the whitelist.