



User Guide

300Mbps Wireless N Access Point
TL-WA801N


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About This Guide

This guide is a complement to Quick Installation Guide. The Quick Installation Guide provides instructions for quick Internet setup, while this guide contains details of each function and demonstrates how to configure them.

 Note: Features available in access point may vary by model and software version. Access point 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 access point 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 and so on.
>	The menu structures to show the path to load the corresponding page. For example, Advanced > Wireless > MAC Filtering means the MAC Filtering function page is under the Wireless menu that is located in the Advanced 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.

More Info

The latest software, management app and utility are available from the [Download Center](https://www.tp-link.com/support/) at <https://www.tp-link.com/support/>.

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

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

A community is provided for you to discuss our products 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/>.

Speed/Coverage Disclaimer

*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.

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](#)
- [Appearance](#)

1.1. Product Overview

The TP-Link Wireless N Access Point, with multiple operation modes, is designed to establish or expand a scalable high-speed wireless N network or to connect multiple Ethernet enabled devices to a wireless network, such as game consoles, digital media adapters, printers, or network attached storage devices. The AP 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. Appearance



1.2.1. LED Explanation

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

Name	Status	Indication
⏻ (Power)	On	Power is on.
	Flashing	The system is starting up, or the firmware is being upgraded, or the WPS connection is in progress. Do not disconnect or power off your access point.
	Off	Power is off.

Name	Status	Indication
 (Ethernet)	On	The ETHERNET port is connected to a powered-on device.
	Off	The ETHERNET port is not connected to a powered-on device.
 (Wireless)	On	The wireless function is enabled.
	Off	The wireless function is disabled.

1.2.2. The Back Panel



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

Ports or Buttons	Description
ON/OFF	To power on or off the access point.
POWER	For connecting the access point to a power socket via the provided power adapter.
ETHERNET	The 10/100Mbps LAN port connects to a network device, such as a switch or a router.
WPS	If your client devices, such as wireless adapters, support Wi-Fi Protected Setup, then you can press this button to quickly establish a connection between the access point and the client devices, which automatically configures wireless security for your wireless network.
RESET	Press and hold this button until all the LEDs turn on momentarily.
Antennas	Used for wireless operation and data transmitting. Upright them for the best Wi-Fi performance.

Chapter 2

Set Up Internet Connection Via Quick Setup Wizard

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

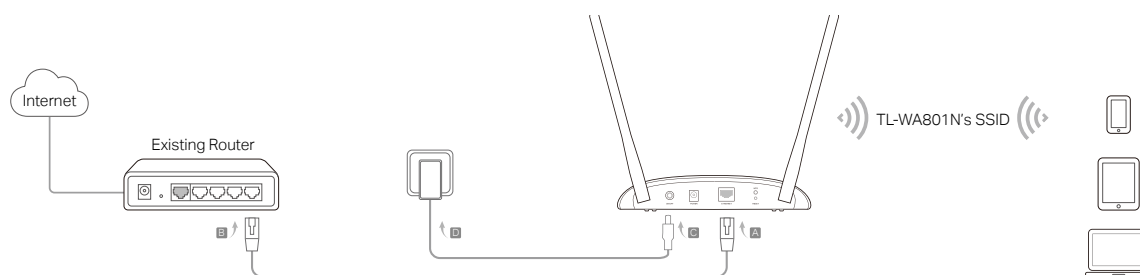
- The product should not be located in a place where it will be exposed to moisture or excessive heat.
- Place the access point in a location where it can be connected to various devices as well as to a power source.
- Make sure the cables and power cord are safely placed out of the way so they do not 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.

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 carry out the corresponding steps.

2.2.1. Access Point Mode (Default)

In Access Point 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. Power on the access point, and wait until the Power (⏻) and Wireless (📶) 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.

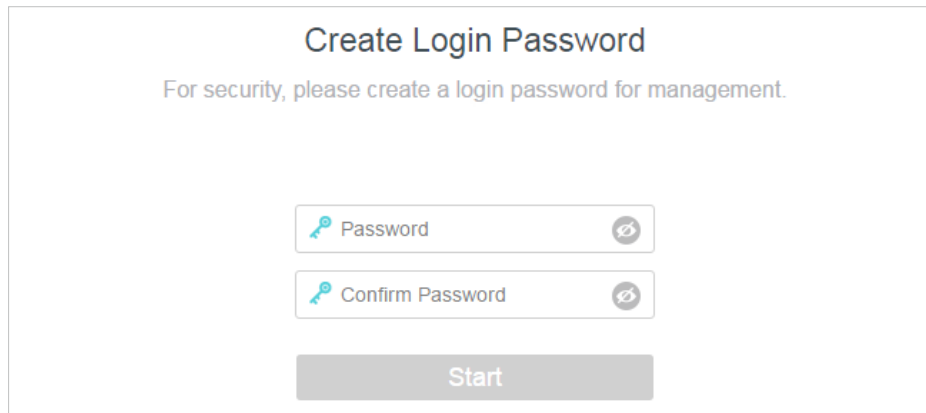
Note:

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 visit <http://tplinkap.net>. Create a password to log in.

Note:

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



Create Login Password

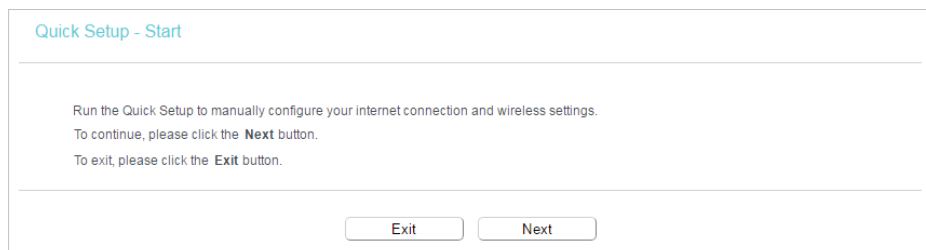
For security, please create a login password for management.

Password

Confirm Password

Start

5. Go to [Quick Setup](#) and click [Next](#) to start.

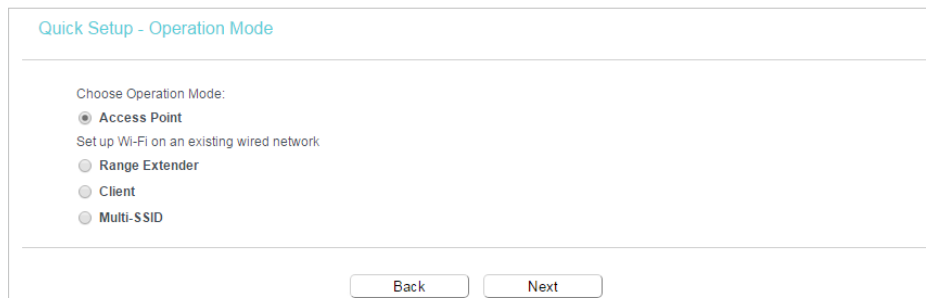


Quick Setup - Start

Run the Quick Setup to manually configure your internet connection and wireless settings.
To continue, please click the **Next** button.
To exit, please click the **Exit** button.

Exit Next

6. Select Access Point mode and click [Next](#).



Quick Setup - Operation Mode

Choose Operation Mode:

Access Point
Set up Wi-Fi on an existing wired network

Range Extender
 Client
 Multi-SID

Back Next

7. Follow the step-by-step instructions to complete the configuration.

8. Now, reconnect your wireless devices to the new Wi-Fi network, and enjoy the internet!

2.2.2. Range Extender Mode

In Range Extender 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. Power on the access point, and wait until the Power (⏻) and Wireless (📶) 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 visit <http://tplinkap.net>. Create a password to log in.

Note:

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

Create Login Password

For security, please create a login password for management.

5. Go to **Quick Setup** and click **Next** to start.

Quick Setup - Start

Run the Quick Setup to manually configure your internet connection and wireless settings.
To continue, please click the **Next** button.
To exit, please click the **Exit** button.

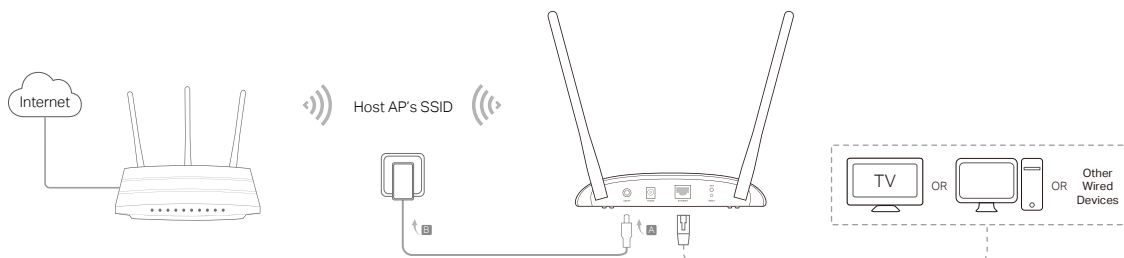
6. Select **Range Extender** mode and click **Next**.



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

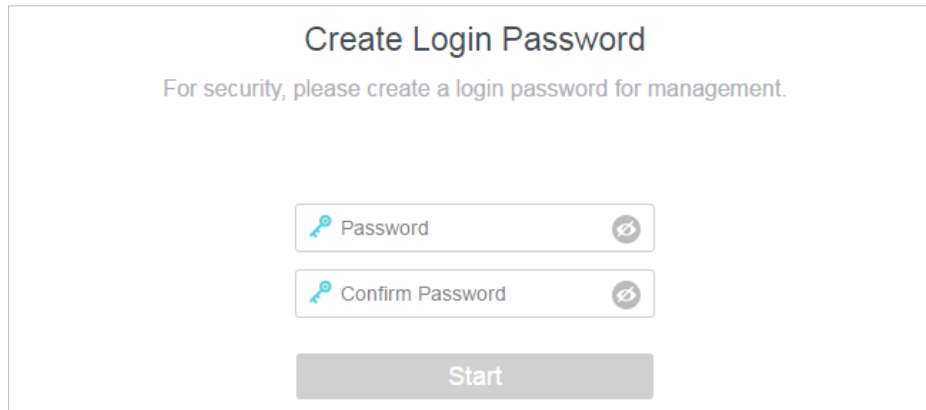
In Client mode, the access point connects your wired devices to a wireless network. This mode is suitable when you have a wired device with an Ethernet port and no wireless capability, for example, a smart TV, media player, or game console and you want to connect it to the internet wirelessly.



1. Connect the access point according to Step A to D in the diagram.
2. Power on the access point, and wait until the Power (⏻) and Wireless (📶) 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 visit <http://tplinkap.net>. Create a password to log in.

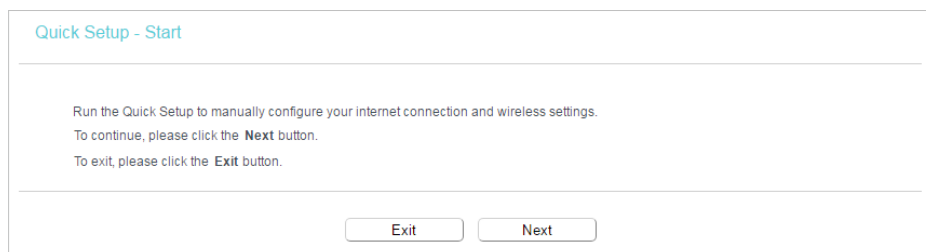
Note:

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



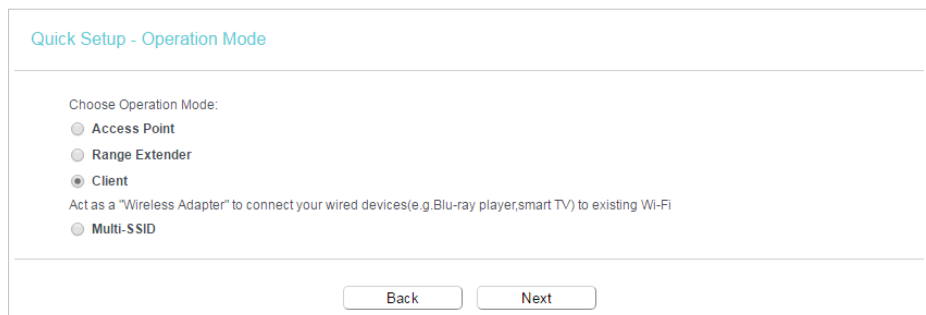
The screenshot shows a web interface titled "Create Login Password". Below the title is the instruction: "For security, please create a login password for management." There are two input fields: "Password" and "Confirm Password", each with a key icon on the left and an eye icon on the right. Below these fields is a large grey button labeled "Start".

5. Go to **Quick Setup** and click **Next** to start.



The screenshot shows a web interface titled "Quick Setup - Start". Below the title is the instruction: "Run the Quick Setup to manually configure your internet connection and wireless settings. To continue, please click the **Next** button. To exit, please click the **Exit** button." At the bottom, there are two buttons: "Exit" and "Next".

6. Select **Client** mode and click **Next**.



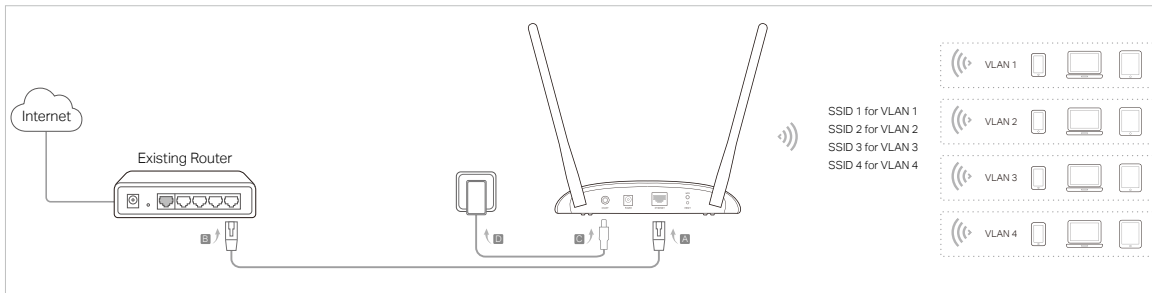
The screenshot shows a web interface titled "Quick Setup - Operation Mode". Below the title is the instruction: "Choose Operation Mode:" followed by four radio button options: "Access Point", "Range Extender", "Client", and "Multi-SSID". Below these options is the instruction: "Act as a 'Wireless Adapter' to connect your wired devices(e.g.Blu-ray player,smart TV) to existing Wi-Fi". At the bottom, there are two buttons: "Back" and "Next".

7. Follow the step-by-step instructions to complete the configuration.

8. Now, connect your wired devices to the access point via an Ethernet cable, and enjoy the internet!

2.2.4. Multi-SSID Mode

In Multi-SSID mode, the access point creates multiple wireless networks to provide different security and VLAN 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. Power on the access point, and wait until the Power (⏻) and Wireless (📶) 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 visit <http://tplinkap.net>. Create a password to log in.

Note:

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

Create Login Password

For security, please create a login password for management.

5. Go to **Quick Setup** and click **Next** to start.

Quick Setup - Start

Run the Quick Setup to manually configure your internet connection and wireless settings.
To continue, please click the **Next** button.
To exit, please click the **Exit** button.

6. Select **Multi-SSID** mode and click **Next**.

Quick Setup - Operation Mode

Choose Operation Mode:

- Access Point
- Range Extender
- Client
- Multi-SSID

Create multiple wireless networks to provide different security and VLAN groups.

7. Follow the step-by-step instructions to complete the configuration.
8. Now, connect your wireless devices to the Wi-Fi networks isolated by VLANs, and enjoy the internet!

Chapter 3

Customize Your Network

This chapter introduces how to customize your network.

It contains the following sections:

- [View Network Status](#)
- [Change the LAN Settings](#)
- [Customize Wireless Settings](#)
- [Use WPS for Wireless Connection \(Access Point mode\)](#)
- [Wireless MAC Filtering](#)
- [Wireless Advanced](#)
- [Wireless Statistics](#)
- [Throughput Monitor \(Access Point mode\)](#)
- [DHCP](#)

3. 1. View Network Status

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **Status**. Click **Refresh** to get the latest network information of the access point.

Status	
Firmware Version:	
Hardware Version:	TL-WA801N v6
LAN	
MAC Address:	00:0A:EB:13:09:69
IP Address:	192.168.1.187
Subnet Mask:	255.255.255.0
Wireless 2.4GHz	
Operation Mode:	Access Point
Wireless Radio:	Enabled
Name(SSID):	TP-Link_AP_801N
Mode:	11bgn mixed
Channel:	Auto(Channel 1)
Channel Width:	Auto
MAC Address:	00:0A:EB:13:09:69
System Up Time:	0 day(s) 01:14:23 <input type="button" value="Refresh"/>

3. 2. Change the LAN Settings

The access point is preset with Smart IP (DHCP), which allows the access point to dynamically obtain an IP address and gateway from the main router/AP. It is recommended to keep the default LAN settings to avoid IP conflict with the main router/AP or other devices on your local network. If it is necessary to change the LAN settings, for example, your network requires a specific IP subnet, follow the steps below:

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **Network > LAN**.
3. Select **Static IP**, and set the IP address according to your needs, and then click **Save**.

LAN Settings

LAN Type:

Note: The IP parameters cannot be configured if you have chosen Smart IP(DHCP)

(In this situation the device will help you configure the IP parameters automatically as you need).

MAC Address: 00:0A:EB:13:09:69

IP Address:

Subnet Mask:

Gateway: (optional)

Allow remote access

■ **Note:**

- After you have changed the IP address, you must use the new IP address to log in.
- If you select **Smart IP (DHCP)**, the DHCP server settings of the access point will be disabled.
- If the new IP address you set is not in the same subnet as the old one, the IP Address pool in the DHCP Server will be configured automatically.

3.3. Customize Wireless Settings

The access point is preset with the wireless network name (SSID) and password. You can find them on the product label or customize wireless settings according to your needs.

3.3.1. Customize the Network Name (Access Point/Multi-SSID mode)

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **Wireless > Basic Settings**.
3. Customize the Wireless Network Name (SSID) according to your needs, and leave other parameters as the default settings.
4. Click **Save**.

Wireless Settings

Wireless: Enable Disable

Wireless Network Name: (Also called SSID)

Mode:

Channel Width:

Channel:

Enable SSID Broadcast

3.3.2. Customize Wireless Security (Access Point/Multi-SSID mode)

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to [Wireless > Wireless Security](#).
3. Customize the wireless security according to your needs.
4. Click [Save](#).

Wireless Security Settings

Note: WEP security, WPA/WPA2 - Enterprise authentication and TKIP encryption are not supported with WPS enabled.
 For network security, it is strongly recommended to enable wireless security and select WPA2-PSK AES encryption.

Disable Wireless Security

WPA/WPA2 - Personal(Recommended)

Authentication Type:

Encryption:

Wireless Password:

Group Key Update Period:

WPA/WPA2 - Enterprise

Authentication Type:

Encryption:

RADIUS Server IP:

RADIUS Server Port: (1-65535, 0 stands for default port 1812)

RADIUS Server Password:

Group Key Update Period:

WEP

Authentication Type:

WEP Key Format:

Selected Key:	WEP Key	Key Type
Key 1: <input checked="" type="radio"/>	<input type="text"/>	<input type="text" value="Disabled"/>
Key 2: <input type="radio"/>	<input type="text"/>	<input type="text" value="Disabled"/>
Key 3: <input type="radio"/>	<input type="text"/>	<input type="text" value="Disabled"/>
Key 4: <input type="radio"/>	<input type="text"/>	<input type="text" value="Disabled"/>

3.3.3. Extend Another Host Network (Range Extender/Client mode)

Range Extender Mode

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to [Wireless > Connect to Network](#).
3. Enter the SSID and the password of a host network which the extender will be connected to or click [Scan](#) and select a Wi-Fi network.
4. Click [Save](#) and the modified configuration will be synchronized to the extended network settings.

Client Mode

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

3. Enter the SSID and the password of a host network which the extender will be connected to or click **Scan** and select a Wi-Fi network.
4. Click **Save** and the modified configuration will be synchronized to the extended network settings.

Connect to Host Network

SSID(to be bridged):

MAC Address(to be bridged): Lock To AP

Security:

Password:

The configuration modified here will be automatically synchronized to the extended network settings

3.3.4. Customize the Extended Network (Range Extender mode)

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **Wireless > Extended Network**.
3. Modify the SSID and the password of the extended network.

 Tip:

SSID Broadcast is enabled by default. If you want to hide the SSID of the extended network, deselect **Enable SSID Broadcast**, and then the corresponding SSID will not be displayed when wireless devices scan for local wireless networks.

Extended Network Settings

Extended 2.4GHz SSID:

Extended 2.4GHz Security:

Extended 2.4GHz Password:

Enable SSID Broadcast

3.4. Use WPS for Wireless Connection (Access Point mode)

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

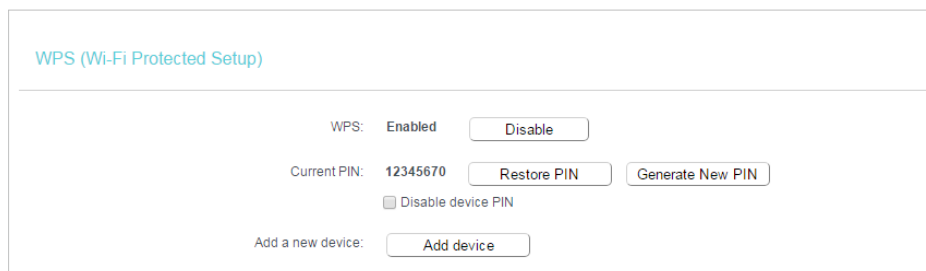
 Note:

- The WPS function cannot be configured if the wireless function of the access point is disabled. Please make sure the wireless function is enabled before configuration.
- When working in Range Extender, Client or Multi-SSID mode, the WPS function of the access point is not available.
- The WPS function is enabled by default. You can go to **Wireless > WPS** to disable the function as needed.

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 three methods to connect your WPS-enabled client to the access point's Wi-Fi network.

Method 1: Enter the Access Point's PIN

1. Keep the WPS Status as [Enabled](#) and get the Current PIN of the access point.



WPS (Wi-Fi Protected Setup)

WPS: **Enabled**

Current PIN: **12345670**

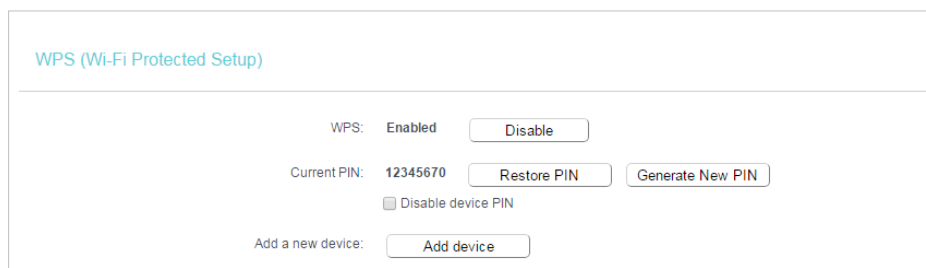
Disable device PIN

Add a new device:

2. Enter the access point's [Current PIN](#) on your client device to join the access point's Wi-Fi network.

Method 2: Press the WPS Button on Your Client Device

1. Keep the WPS Status as [Enabled](#) and click [Add Device](#).



WPS (Wi-Fi Protected Setup)

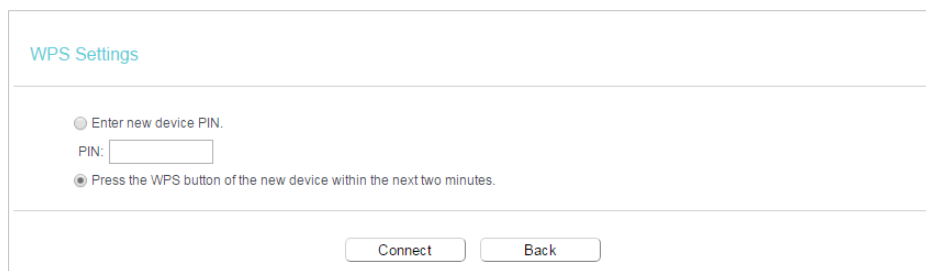
WPS: **Enabled**

Current PIN: **12345670**

Disable device PIN

Add a new device:

2. Select [Press the WPS button of the new device within the next two minutes](#) and click [Connect](#).



WPS Settings

Enter new device PIN.
PIN:

Press the WPS button of the new device within the next two minutes.

3. Within two minutes, press the WPS button on your client device. A success message will appear on the WPS page if the client device has been successfully added to the access point's network.

WPS Settings

Enter new device PIN.
PIN:

Press the WPS button of the new device within the next two minutes.
Device has been added successfully!

Method 3: Enter the Client's PIN

1. Keep the WPS Status as **Enabled** and click **Add device**.

WPS (Wi-Fi Protected Setup)

WPS: **Enabled**

Current PIN: **12345670**

Disable device PIN

Add a new device:

2. Select **Enter new device PIN**, and then enter your client device's current PIN in the **PIN** field and click **Connect**. A success message will appear on the WPS page if the client device has been successfully added to the access point's network.

WPS Settings

Enter new device PIN.
PIN:

Press the WPS button of the new device within the next two minutes.

3. 5. Wireless MAC Filtering

Wireless MAC Filtering is used to deny or allow specific wireless client devices to access your network by their MAC addresses.

Note:

When working in Client mode, MAC Filtering is not available.

For example, if you want a wireless client to access the access point, but other wireless clients cannot access the access point, follow the steps below:

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

Wireless MAC Filtering

You can configure Wireless MAC Filtering which allows you to control wireless access on the network on this page.

Wireless MAC Filtering: Disabled

Filtering Rules

Deny the stations specified by any enabled entries in the list to access.

Allow the stations specified by any enabled entries in the list to access.

<input type="checkbox"/>	MAC Address	Status	Host	Description	Edit
--------------------------	-------------	--------	------	-------------	------

3. Click [Enable](#) to enable the Wireless MAC Filtering function.
4. Select [Allow the stations specified by any enabled entries in the list to access](#) as the filtering rule.
5. Delete all or disable all entries if there are any entries already.
6. Click [Add New](#).

Add or Modify Wireless MAC Address Filtering entry

You can configure Wireless MAC Filtering which allows you to control wireless access on the network on this page.

MAC Address:

Description:

Status:

7. Enter the MAC address of the wireless client and select [Enabled](#) in the Status drop-down list. Add a brief description for the client if needed, and then click [Save](#). The configured filtering rules should be listed as the picture shows below.

Wireless MAC Filtering

You can configure Wireless MAC Filtering which allows you to control wireless access on the network on this page.

Wireless MAC Filtering: Disabled

Filtering Rules

Deny the stations specified by any enabled entries in the list to access.

Allow the stations specified by any enabled entries in the list to access.

<input type="checkbox"/>	MAC Address	Status	Host	Description	Edit
<input type="checkbox"/>	4C:49:E3:ED:F9:99	Enabled	TP-Link_AP_801N	my phone	Edit

Now, only the wireless client added in the list can access to the wireless network.

3.6. Wireless Advanced

You can view or change advanced wireless settings if necessary. It is recommended to keep them as default.

Note:

When working in Client mode, Wireless Advanced is not available.

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

Note:

If you are not familiar with the setting items on this page, it's strongly recommended to keep the provided default values; otherwise it may result in lower wireless network performance.

Wireless Advanced

Transmit Power: High ▼

Beacon Interval: 100 (40-1000)

RTS Threshold: 2346 (1-2346)

Fragmentation Threshold: 2346 (256-2346)

DTIM Interval: 1 (1-15)

Enable Short GI

Enable Client Isolation

Enable WMM

Save

3.7. Wireless Statistics

View the wireless statistics of currently connected devices.

Note:

When working in Client mode, Wireless Statistics is not available.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **Wireless > Wireless Statistics** to check the data packets sent and received by each client device connected to the access point.

Wireless Statistics

Wireless Stations Currently Connected: 1 Refresh

ID	MAC Address	Current Status	Received Packets	Sent Packets	SSID
1	30:B4:9E:75:21:16	Associated	967	1,144	TP-Link_AP_801N

3.8. Throughput Monitor (Access Point mode)

The throughput chart displays the current data traffic of the network. The curves in different colors represent the received and transmitted rates of the 2.4GHz frequencies.

Note:

When working in Range Extender, Client and Multi-SSID mode, Throughput Monitor is not available.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **Wireless > Throughput Monitor** and click **Start/Stop** to view the wireless throughput information.



3.9. DHCP

By default, the DHCP (Dynamic Host Configuration Protocol) server is set to Auto. It will automatically assign valid IP addresses to clients when the DHCP server of the host router/AP is disabled, and will stop working when the DHCP server of the host router/AP is enabled so as to avoid IP conflict. You can change the DHCP server settings if necessary.

Note:

If you disable the DHCP server and there is no other DHCP server within your LAN, you have to configure the IP address for each client manually.

3.9.1. DHCP Settings

Note:

- To use the DHCP server function of the access point, you must configure all computers on the LAN as **Obtain an IP Address automatically**.

- When you choose **Smart IP (DHCP)** in **Network > LAN**, the DHCP Server settings will be disabled.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **DHCP > DHCP Settings** and select **Enable**.
3. Enter the **Start IP Address** and **End IP Address**, and leave other parameters as the default settings.
4. Click **Save**.

DHCP Settings

DHCP Server: Disable Enable

Start IP Address:

End IP Address:

Address Lease Time: minutes (1~2880 minutes, the default value is 1)

Default Gateway: (optional)

Default Domain: (optional)

DNS Server: (optional)

Secondary DNS Server: (optional)

3.9.2. DHCP Clients List

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **DHCP > DHCP Clients List** to view the information of the clients connected to the access point. You cannot change any of the values on this page. To update this page and show the current attached devices, click **Refresh**.

DHCP Clients List

This page displays information of all DHCP clients on the network.

ID	Client Name	MAC Address	Assigned IP	Lease Time
1	Camille	40:8D:5C:89:74:B5	192.168.0.100	00:00:37

3.9.3. Address Reservation (Access Point mode)

You can reserve an IP address for a specific client. When you specify a reserved IP address for a PC on the LAN, this PC will always receive the same IP address each time when it accesses the DHCP server.

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the access point.
2. Go to **DHCP > Address Reservation** and click **Add New**.

DHCP Address Reservation

The static IP address of the DHCP Server can be configured on this page.

MAC Address:

IP Address:

Status:

3. Enter the MAC address (in XX-XX-XX-XX-XX-XX format.) of the client for which you want to reserve an IP address.
4. Enter the IP address to reserve for the client.
5. Leave the [Status](#) as [Enabled](#).
6. Click [Save](#).

Chapter 4

Manage Your Access Point

This chapter presents how to configure and manage your access point.

It contains the following sections:

- [Set Up System Time](#)
- [Diagnostic](#)
- [SNMP Settings](#)
- [Ping Watch Dog](#)
- [Firmware Upgrade](#)
- [Factory Defaults](#)
- [Backup & Restore](#)
- [Reboot](#)
- [Change Login Password](#)
- [System Log](#)
- [Log Out](#)

4. 1. Set Up System Time

System time is the time displayed while the access point is running. The system time you configure here will be used for other time-based functions like Reboot Schedule. You can choose the way to obtain the system time as needed.

Note:

When working in Client/Multi-SSID mode, setting up system time is not available.

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

3. Configure the system time using the following methods:

- **Manually** - Select your time zone and enter your local time.
- **Get from PC** - Click this button if you want to use the current managing PC's time.
- **Get GMT** - Click this button if you want to get time from the internet. Make sure your router can access the internet before you select this way to get system time.

4. Click **Save** to make your settings effective.

5. After setting the system time, you can set **Daylight Saving** time according to your needs. Select **Enable Daylight Saving**, set the start and end time and then click **Save**.

4.2. Diagnostic

Diagnostic is used to test the connectivity between the access point and the host or other network devices.

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

The screenshot shows the 'Diagnostic Tools' interface. Under 'Diagnostic Parameters', the 'Ping' tool is selected. The 'Start' button is visible. The 'IP address/Domain name' field is empty. The 'Ping Count' is set to 4, 'Ping Packet Size' to 64, 'Ping Timeout' to 1, and 'Traceroute Max TTL' to 20. The 'Diagnostic Results' section is currently empty, indicated by a large yellow area.

3. Enter the information with the help of page tips:

- 1) Choose the [Diagnostic Tool](#) as needed.
 - **Ping** - This diagnostic tool troubleshoots connectivity, reachability, and name resolution to a given host or gateway.
 - **Tracerouter** - This diagnostic tool tests the performance of a connection.

Note:

You can use ping/traceroute to test both numeric IP address or domain name. If pinging/tracerouting the IP address is successful, but pinging/tracerouting the domain name is not, you might have a name resolution problem. In this case, ensure that the domain name you are specifying can be resolved by using Domain Name System (DNS) queries.

- 2) Enter the destination IP address (such as 192.168.0.254) or Domain name (such as www.tp-link.com) in the [IP address/Domain name](#) field.

Diagnostic Tools

Diagnostic Parameters

Diagnostic Tool: Ping Traceroute Start

IP address/Domain name:

Ping Count: ping(1 - 50)

Ping Packet Size: (0 - 65500 Bytes)

Ping Timeout: (1 - 60 Seconds)

Traceroute Max TTL: (1 - 30)

- 3) (Optional) Enter the Ping Count/Ping Packet Size/Ping Timeout/Traceroute Max TTL as needed. It's recommended to keep the default value.
4. Click **Start** to check the connectivity of the Internet. The Diagnostic results will display as below.

Diagnostic Results

```
PING www.tp-link.com (13.249.171.65): 64 data bytes
72 bytes from 13.249.171.65: icmp_seq=1 ttl=128 time=162.44 ms
72 bytes from 13.249.171.47: icmp_seq=2 ttl=128 time=159.64 ms
72 bytes from 13.225.166.25: icmp_seq=3 ttl=128 time=187.56 ms
72 bytes from 13.249.171.47: icmp_seq=4 ttl=128 time=160.44 ms
---13.249.171.47 ping statistics ---
4 packets transmitted, 4 packets received,0% packet loss
```

Diagnostic Results

```
traceroute to www.tp-link.com (13.35.19.16), 20 hops max, 64 byte packets
 1 (192.168.2.1) 0.580 ms
 2 (192.168.1.1) 1.120 ms
 3 (192.168.0.1) 1.600 ms
 4 (116.24.64.1) 10.440 ms
 5 (202.105.158.25) 23.560 ms
 6 (183.56.65.54) 10.260 ms
```

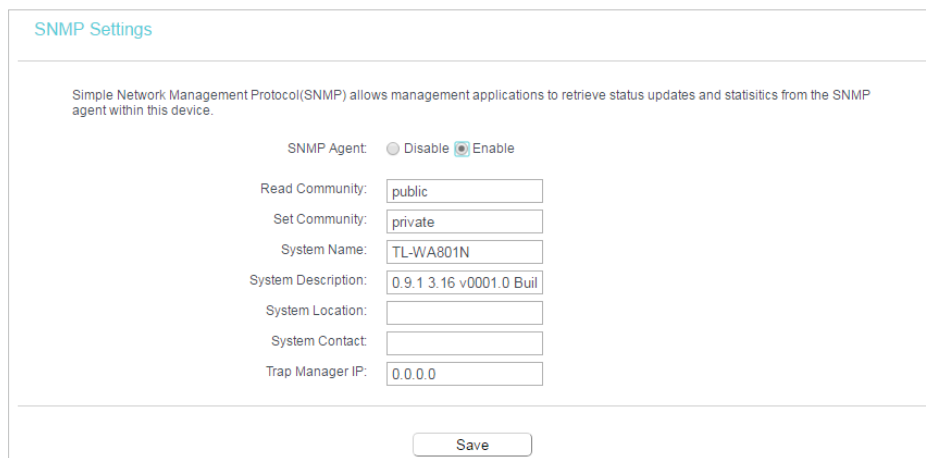
4. 3. SNMP Settings

Simple Network Management Protocol (SNMP) is a popular network monitoring and management protocol. It allows management applications to retrieve status updates and statistics from the SNMP agent with this device.

Note:

When working in Client/Range Extender mode, setting SNMP is not available.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **System Tools > SNMP Settings**.
3. Enable **SNMP Agent** and fill in the blanks as needed.



SNMP Settings

Simple Network Management Protocol(SNMP) allows management applications to retrieve status updates and statistics from the SNMP agent within this device.

SNMP Agent: Disable Enable

Read Community:

Set Community:

System Name:

System Description:

System Location:

System Contact:

Trap Manager IP:

4. Click [Save](#).

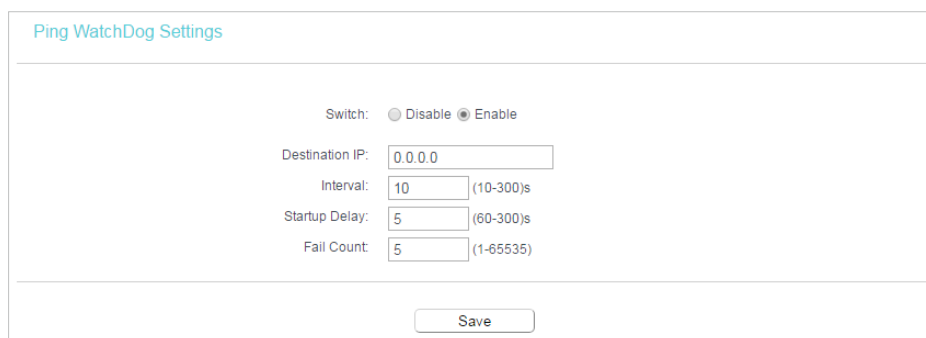
4.4. Ping Watch Dog

The Ping Watch Dog is dedicated for continuous monitoring of the particular connection to remote host using the Ping tool. It makes the access point continuously ping a user defined IP address (it can be the internet gateway for example). If it is unable to ping under the user defined constraints, the access point will automatically reboot.

Note:

When working in Client/Range Extender mode, Ping Watchdog is not available.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to [System Tools > Ping WatchDog](#).
3. Select [Enable](#) and fill in the blanks.



Ping WatchDog Settings

Switch: Disable Enable

Destination IP:

Interval: (10-300)s

Startup Delay: (60-300)s

Fail Count: (1-65535)

4. Click [Save](#).

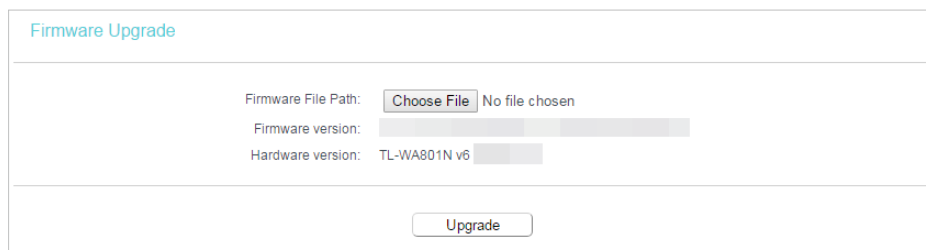
4.5. Firmware Upgrade

TP-Link is dedicated to improving and enriching the product features, giving users a better network experience. We will release the latest firmware at TP-Link official website. You can download the latest firmware file from the [Support](#) page of our website www.tp-link.com and upgrade the firmware to the latest version.

Note:

- Make sure the latest firmware file is matched with the hardware version (as shown in the download section of the Support page).
- Make sure that you have a stable connection between the access point and your computer. It is NOT recommended to upgrade the firmware wirelessly.
- Backup your access point configuration.
- Do NOT power off the access point during the firmware upgrade.

1. Download the latest firmware file for the access point from our website www.tp-link.com.
2. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
3. Go to **System Tools > Firmware Upgrade**.



The screenshot shows the 'Firmware Upgrade' page. It features a 'Firmware File Path' field with a 'Choose File' button and the text 'No file chosen'. Below this are 'Firmware version' and 'Hardware version' fields, with the hardware version showing 'TL-WA801N v6'. An 'Upgrade' button is located at the bottom of the form.

4. Click **Choose File** to locate the downloaded firmware file, and click **Upgrade**.
5. Wait a few minutes for the firmware upgrade to complete and the access point to reboot.

4.6. Factory Defaults

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **System Tools > Factory Defaults**. Click **Restore** to reset all settings to the default values.

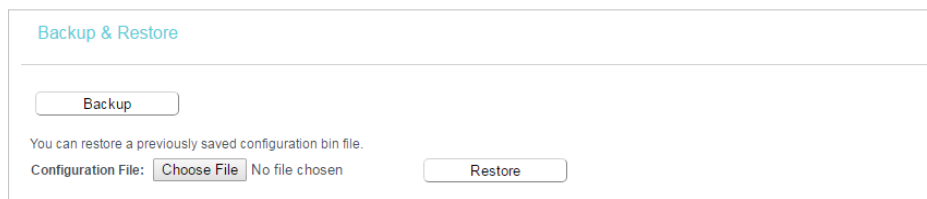


The screenshot shows the 'Factory Defaults' page. It contains a warning message: 'Click to restore all settings within this device back to factory defaults. It is strongly recommended that you back up your current configurations before you restore factory defaults.' A 'Restore' button is positioned at the bottom of the page.

4.7. Backup & Restore

The configuration settings are stored as a configuration file in the access point. You can back up the configuration file in your computer for future use and restore the access point to the previous settings from the backup file when needed.

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **System Tools > Backup & Restore**.



- To back up configuration settings:

Click **Backup** to save a copy of the current settings in your local computer. A “.bin” file of the current settings will be stored in your computer.

- To restore configuration settings:

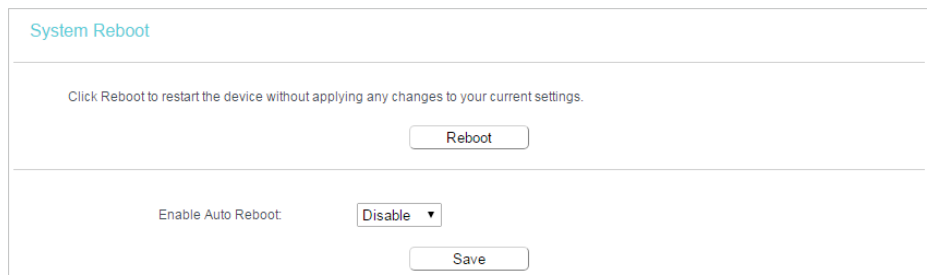
- 1) Click **Choose File** to locate the backup configuration file stored in your computer, and click **Restore**.
- 2) Wait a few minutes for the restoring and rebooting.

Note:

During the restoring process, do not power off or reset the access point.

4.8. Reboot

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **System Tools > Reboot**, and you can restart your access point. If you want to auto reboot the access point, select **Enable** and click **Save**.



Note:

Some settings of the access point will take effect only after rebooting, including:

- Change the LAN IP Address (system will reboot automatically).
- Change the DHCP Settings.
- Change the Working Modes.
- Change the Web Management Port.
- Upgrade the firmware of the access point (system will reboot automatically).
- Restore the access point to its factory defaults (system will reboot automatically).
- Update the configuration with the file (system will reboot automatically).

4.9. Change Login Password

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **System Tools > Password**.
3. Enter the old password of the access point and set a new one.

4. Click **Save**.

Password

Old Password:

New Password:

Confirm password:

4. 10. System Log

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Go to **System Tools > System Log**, and you can view the logs of the access point.

System Log

Log Type: ALL Log Level: Debug

Index	Time	Type	Level	Content
1	1970-01-01 00:00:14	DHCPD	Notice	Disable AP's DHCP server because remote DHCP server is online.
2	1970-01-01 00:00:13	DHCPC	Notice	Set AP ip to 192.168.1.187/255.255.255.0.
3	1970-01-01 00:00:13	DHCPC	Notice	LAN ip is changed, new ip = 192.168.1.187/255.255.255.0, old ip = 192.168.0.254/255.255.255.0.
4	1970-01-01 00:00:13	DHCPC	Notice	Recv DNS server address 192.168.1.1,0,0,0
5	1970-01-01 00:00:13	DHCPC	Notice	Recv ACK from server 192.168.1.1 with ip 192.168.1.187 lease time 7200
6	1970-01-01 00:00:13	DHCPD	Notice	Send NAK
7	1970-01-01 00:00:13	DHCPD	Notice	REQUEST ip 8801a8c0 is not in the address pool
8	1970-01-01 00:00:13	DHCPC	Notice	Send REQUEST to server 192.168.1.1 with request ip 192.168.1.187
9	1970-01-01 00:00:13	DHCPC	Notice	Recv OFFER from server 192.168.1.1 with ip 192.168.1.187
10	1970-01-01 00:00:13	DHCPC	Notice	AP has discovered new remote DHCP server.
11	1970-01-01 00:00:13	DHCPC	Notice	Recv DHCP offer for discover.
12	1970-01-01 00:00:13	DHCPD	Notice	Recv REQUEST from 30:B4:9E:75:21:16 Transaction ID c0258f18
13	1970-01-01 00:00:09	DHCPD	Notice	Send NAK
14	1970-01-01 00:00:09	DHCPD	Notice	REQUEST ip 8801a8c0 is not in the address pool
15	1970-01-01 00:00:08	DHCPD	Notice	Recv REQUEST from 30:B4:9E:75:21:16 Transaction ID c0258f18

4. 11. Log Out

1. Visit <http://tplinkap.net>, and log in with the password you set for the access point.
2. Click **Logout** at the bottom of the main menu, and you will log out of the web page and return to the login window.

FAQ

Q1. How do I restore the access point to its factory default settings?

With the access point powered on, use a pin to press and hold the [Reset](#) button until all the LEDs turn on momentarily, then release the button.

Note:

Upon resetting, all previous configurations will be cleared, and the access point will reset to the default Access Point Mode.

Q2. What should I do if I forget my wireless password?

The default wireless password is printed on the label of the access point. If the password has been altered, please connect your computer to the access point using an Ethernet cable and follow the steps below:

1. Visit <http://tplinkap.net>, and log in with the username and password you set for the access point.
2. Go to [Wireless](#) > [Wireless Security](#) to retrieve or reset your wireless password.

Q3. What should I do if I forget my login password of the web management page?

The default username and password of the web management page are [admin](#) (in lowercase).

If you have altered the username and password but Password Recovery is disabled:

1. Reset the access point to its factory default settings: use a pin to press and hold the Reset button until the Power LED starts blinking, then release the button.
2. Visit <http://tplinkap.net>, and log in with the username and password you set for the access point.

Note: You'll need to reconfigure the access point to surf the internet once the access point is reset, and please mark down your new password for future use.

Q4. What should I do if my wireless is not stable?

It may be caused by too much interference, you can try the following:

- Log in to the web management page. Go to [Wireless](#) > [Wireless Settings](#) and change your wireless channel to a different one.
- Move the access point to a new location away from Bluetooth devices and other household electronics, such as cordless phones, microwaves, and baby monitors, to minimize signal interference.

Q5. What should I do to maximize my signal strength in Repeater/Bridge mode?

When choosing an ideal location to optimize wireless signal in Repeater/Bridge mode, please refer to the following recommendations.


- **The Best Way is Halfway**

Generally, the ideal location for the repeater is about halfway between your wireless router and your wireless clients and make sure that the location you choose is within the range of the host router. If that is not possible, place it closer to your wireless router to ensure stable performance.

- **Less Obstacles Ensure Better Performance**

Choose a location with less obstacles that may block the signal between the access point and the host network. An open corridor or a spacious location is ideal.

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FCC compliance information statement



Product Name: 300Mbps Wireless N Access Point

Model Number: TL-WA801N

Component Name	Model
I.T.E. Power Supply	T090060-2B1

Responsible party:

TP-Link USA Corporation, d/b/a TP-Link North America, Inc.

Address: 145 South State College Blvd. Suite 400, Brea, CA 92821

Website: <http://www.tp-link.com/us/>

Tel: +1 626 333 0234

Fax: +1 909 527 6803

E-mail: sales.usa@tp-link.com

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

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

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

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

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

"To comply with FCC RF exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."

We, **TP-Link USA Corporation**, has determined that the equipment shown as above has been shown to comply with the applicable technical standards, FCC part 15. There is no unauthorized change is made in the equipment and the equipment is properly maintained and operated.

Issue Date: 2020-01-07

FCC compliance information statement



Product Name: I.T.E. Power Supply

Model Number: T090060-2B1

Responsible party:

TP-Link USA Corporation, d/b/a TP-Link North America, Inc.

Address: 145 South State College Blvd. Suite 400, Brea, CA 92821

Website: <http://www.tp-link.com/us/>

Tel: +1 626 333 0234

Fax: +1 909 527 6803

E-mail: sales.usa@tp-link.com

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

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

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

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

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

We, **TP-Link USA Corporation**, has determined that the equipment shown as above has been shown to comply with the applicable technical standards, FCC part 15. There is no unauthorized change is made in the equipment and the equipment is properly maintained and operated.

Issue Date: 2020-01-07

CE Mark Warning



This is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

OPERATING FREQUENCY(the maximum transmitted power)

2400 MHz -2483.5 MHz (20dBm)

EU declaration of conformity

TP-Link hereby declares that the device is in compliance with the essential requirements and other relevant provisions of directives 2014/53/EU, 2009/125/EC, 2011/65/EU and (EU)2015/863.

The original EU declaration of conformity may be found at <https://www.tp-link.com/en/ce>

RF Exposure Information

This device meets the EU requirements (2014/53/EU Article 3.1a) on the limitation of exposure of the general public to electromagnetic fields by way of health protection.

The device complies with RF specifications when the device used at 20 cm from your body.

Canadian Compliance Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

Industry Canada Statement

CAN ICES-3 (B)/NMB-3(B)

Korea Warning Statements:

당해 무선설비는 운용중 전파혼신 가능성이 있음.

NCC Notice & BSMI Notice:

注意!

依據 低功率電波輻射性電機管理辦法

第十二條 經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性或功能。

第十四條 低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信規定作業之無線電信。低功率射頻電機需忍受合法通信或工業、科學以及醫療用電波輻射性電機設備之干擾。

安全諮詢及注意事項

- 請使用原裝電源供應器或只能按照本產品注明的電源類型使用本產品。
- 清潔本產品之前請先拔掉電源線。請勿使用液體、噴霧清潔劑或濕布進行清潔。
- 注意防潮，請勿將水或其他液體潑灑到本產品上。
- 插槽與開口供通風使用，以確保本產品的操作可靠並防止過熱，請勿堵塞或覆蓋開口。
- 請勿將本產品置放於靠近熱源的地方。除非有正常的通風，否則不可放在密閉位置中。
- 請不要私自打開機殼，不要嘗試自行維修本產品，請由授權的專業人士進行此項工作。

限用物質含有情況標示聲明書

產品元件名稱	限用物質及其化學符號					
	鉛 Pb	鎘 Cd	汞 Hg	六價鉻 CrVI	多溴聯苯 PBB	多溴二苯醚 PBDE
PCB	○	○	○	○	○	○
外殼	○	○	○	○	○	○
電源供應器	—	○	○	○	○	○

備考1. “超出0.1 wt %” 及 “超出0.01 wt %” 系指限用物質之百分比含量超出百分比含量基準值。

備考2. “○” 系指該項限用物質之百分比含量未超出百分比含量基準值。


備考3. “—” 系指該項限用物質為排除項目。



Продукт сертифіковано згідно с правилами системи УкрСЕПРО на відповідність вимогам нормативних документів та вимогам, що передбачені чинними законодавчими актами України.






Safety Information

- Keep the device away from water, fire, humidity or hot environments.
- Do not attempt to disassemble, repair, or modify the device.
- Do not use damaged charger or USB cable to charge the device.
- Do not use any other chargers than those recommended
- Do not use the device where wireless devices are not allowed.
- Adapter shall be installed near the equipment and shall be easily accessible.
-  Use only power supplies which are provided by manufacturer and in the original packing of this product. If you have any questions, please don't hesitate to contact us.

Please read and follow the above safety information when operating the device. We cannot guarantee that no accidents or damage will occur due to improper use of the device. Please use this product with care and operate at your own risk.

Explanations of the symbols on the product label

Symbol	Explanation
	DC voltage
	Indoor use only
	RECYCLING This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment. User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.