

**TP-LINK®**

# Archer C2600

## User Guide

AC2600 Wireless Dual Band Gigabit Router

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# About This Guide

This guide provides details of each function and shows how to configure the router appropriate to your needs. In addition to this guide, a Quick Installation Guide is also released with each TP-LINK router, you are suggested to configure your router for quick Internet setup by following the published Quick Installation Guide before you get started with a further configuration.

## Conventions

In this guide the following conventions are used:

Convention	Description
router	Stands for AC2600 Wireless Dual Band Gigabit Router without any explanation.
parameters	Parameters provided in the screenshots are just references for setting up the device, which may differ from the actual situation. You can set the parameters according to your demand.
screenshots	The demonstrated screenshots may look a little different from the actual web page of your device due to the various firmware versions. Please just configure your product based on the actual web page.
<i>Blue Italic</i>	Hyperlinks are in blue italic. You can click to redirect to a website or a specific section.
Blue	Contents to be emphasized and texts on the web page are in blue, including the menus, items, buttons, etc.
>	The menu structures to show the path to load the corresponding page. For example, <a href="#">Advanced</a> > <a href="#">Wireless</a> > <a href="#">MAC Filtering</a> means the MAC Filtering function page is under the Wireless menu that is located in the Advanced tab.
 <b>Note:</b>	Ignoring this type of note might result in a malfunction or damage to the device.
 <b>Tips:</b>	Indicates important information that helps you make better use of your device.
symbols on the web page	<ul style="list-style-type: none"><li> click to edit the corresponding entry.</li><li> click to delete the corresponding entry.</li><li> click to enable or disable the corresponding entry.</li></ul>

## Chapter 1

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# Get to Know About Your Router

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This chapter introduces what the router can do and shows its main features and appearance.

This chapter contains the following sections:

- *Product Overview*
- *Main Features*
- *Panel Layout*

## 1.1. Product Overview

### What This Product Does

TP-LINK's Archer C2600 AC2600 Wireless Dual Band Gigabit Router integrates 4-port Switch, Firewall, NAT-router and Wireless AP. Powered by Multi-User MIMO technology, the AC2600 Wireless Dual Band Gigabit Router delivers exceptional range and speed, which can fully meet the need of Small Office/Home Office (SOHO) networks and the users demanding higher networking performance. Your wireless connections are radio band selectable to avoid interference in your area, and the four built-in Gigabit ports supply high-speed connection to your wired devices.

### 802.11ac - The Next Generation of Wi-Fi

TP-LINK's Archer C2600 comes with the next generation Wi-Fi standard – 802.11ac, backward compatible with 802.11n and 3 times faster than wireless N speeds. With higher power efficiency and robust security, 802.11ac is the perfect way to accelerate a home multimedia network and solve congestion that multiple devices may cause.

### 2533Mbps Concurrent Dual Band - More Bandwidth, Less Interference

With 1733Mbps wireless speeds over the crystal clear 5GHz band and 800Mbps over the 2.4GHz band, Archer C2600 offers you the flexibility of two dedicated networks and ensures amazing wireless performance. Simple tasks such as sending e-mails or web browsing can be handled by the 2.4GHz band while bandwidth intensive tasks like online gaming or HD video streaming can be processed by the 5GHz band – all at the same time.

### Broad Wi-Fi Coverage and Targeted Connection

Featuring four fixed external antennas and high power amplifiers, Archer C2600 is able to boost Wi-Fi coverage throughout your home. Advanced Beamforming technology enables Archer C2600 to focus Wi-Fi signal to connected devices, delivering a more targeted and highly efficient wireless connection.

### Multifunctional USB Port – Easy Storage and Sharing

Using the Archer C2600's multi-functional USB 3.0 port, you can share a printer with multiple computers and devices on your network and can also share files & media at home or via the FTP server while away from home.

### Guest Network

Guest Network Access provides secure Wi-Fi access for guests sharing your home or office network in a controlled manner without exposing private Wi-Fi access codes or other personal data.

## IPv6 Supported

Archer C2600 supports IPv6, which is the foundation of the next generation of the Internet and enables a range of new services and improved user experience.

## Parental Control

Parental Controls allow parents or administrators to deploy restricted access for children or staff. With URL blocking, you can easily set up a black or white list to limit the level of web access.

## Tether APP

TP-LINK Tether provides the easiest way to access and manage your router with your devices.

## 1.2. Main Features

### Wireless and Wired Performance

- Supports 802.11ac Multi-User MIMO
- Supports 802.11ac - The next generation of Wi-Fi, compatible with 802.11n
- Simultaneous 2.4GHz 800Mbps and 5GHz 1733Mbps connections for 2533Mbps of total available bandwidth
- 4 dual band fixed external antennas and high power amplifiers provide stable signals and optimal wireless coverage
- Beamforming technology delivers highly efficient wireless connection
- Provides WPA/WPA2, WPA-PSK/WPA2-PSK authentication, TKIP/AES encryption security
- Shares data and Internet access for users, supporting Dynamic IP/Static IP/PPPoE/PPTP/L2TP Internet access
- Supports USB Storage Sharing, Print Server, FTP Server, Media Server. Shares a printer locally and files & media with networked devices or remotely via FTP server
- Built-in NAT and DHCP server supporting static IP address distributing
- Guest Network access provides secure Wi-Fi access for guests sharing your home or office network
- Parental Controls allow parents or administrators to establish restricted access policies for children or staff
- Quality of Service (QoS) makes it easier for you to manage the bandwidth of devices connected to the router
- Supports IP/MAC filter and URL filter, Access Control list
- SPI and NAT firewall protects end-user devices from potential attacks from the Internet



- Easy one-touch WPA wireless security encryption with the WPS button
- Wi-Fi On/Off Button allows users to turn their wireless radio on or off
- Supports firmware upgrade and Web management
- Supports Virtual Server, DMZ host and Port Triggering
- Supports Dynamic DNS, UPnP and Static Routing
- Provides Automatic-connection and Scheduled Connection on certain time to the Internet
- Supports system log and Traffic Statistics
- Supports IPv6

## 1.3. Panel Layout

### 1.3.1. Top View



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

#### LED Explanation

Name	Status	Indication
⏻ (Power)	On	System initialization completes.
	Flashing	System initialization or firmware upgrade is in process. Do not disconnect or power off the router.
	Off	Power is off. Please ensure that the power adapter is connected correctly.

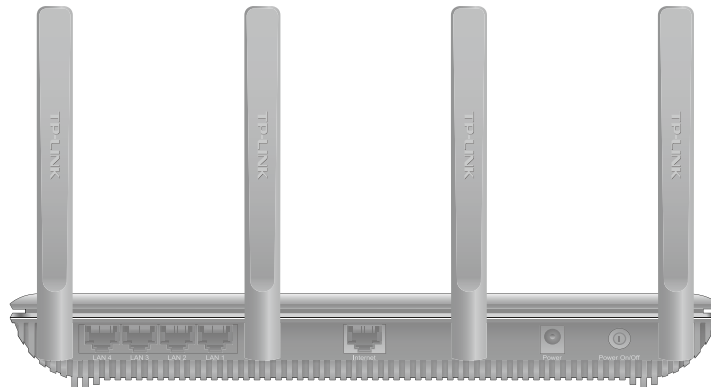
### LED Explanation

Name	Status	Indication
🌐 (Internet)	White	The router is connected to the Internet.
	Orange	The WAN port is connected, but there is no Internet connection.
	Off	The WAN port is not connected.
📶 (Wireless 2.4GHz)	On	The wireless 2.4GHz band is working properly.
	Off	The wireless 2.4 GHz band is disabled.
📶 (Wireless 5GHz)	On	The wireless 5GHz band is working properly.
	Off	The wireless 5GHz band is disabled.
🖥️ (LAN)	On	At least one LAN port is connected.
	Off	No LAN port is connected.
🔄 (WPS)	On	A wireless device has been successfully added to the network by WPS function.
	Flashing	WPS handshaking is in process and will continue for about 2 minutes. Please press the WPS button on other wireless devices that you want to add to the network while the LED is flashing.
	Off	The router is not in the WPS process.
🔌 (USB)	On	The USB device is identified and ready to use.
	Flashing	The USB device is being identified.
	Off	No USB device is plugged into the USB port or the USB device is not identified or USB device has been safely ejected.

**Note:**

After a device is successfully added to the network by WPS function, the WPS LED will keep on for about 5 minutes and then turn off.

### 1.3.2. The Back Panel



The router's back panel shows the connection ports, buttons and antennas (view from left to right). Refer to the following for detailed instructions.

Item	Description
LAN1, LAN2, LAN3, LAN4	These ports (1, 2, 3, 4) connect the router to the local PC(s).
Internet	This port is where you will connect the DSL/cable Modem, or Ethernet.
Power	For connecting the router to power socket via the provided power adapter.
Power On/Off	The switch for the power. Press it to power on or off the router.
Antennas	Used for wireless operation and data transmit. Upright them for the best Wi-Fi performance.

### 1.3.3. The Side Panel



The router's side panel shows the USB ports and buttons (view from left to right). Refer to the following for detailed instructions.

Item	Description
USB 3.0	For connecting to a 3.0 USB storage device or a 3.0 USB printer. It is also compatible with USB 2.0 devices.
WiFi On/Off	For turning on/off the WiFi function.
WPS	The switch for the WPS function. Pressing this button for less than 5 seconds enables the WPS function. If your client devices, such as wireless adapters, that support Wi-Fi Protected Setup, then you can press this button to quickly establish a connection between the router and client devices and automatically configure wireless security for your wireless network.

Item	Description
Reset	<p>The switch for the reset function. There are two ways to reset the router's factory defaults.</p> <p><b>Method one:</b> With the router powered on, press and hold the Reset button for at least 10 seconds until all LEDs light on (wireless LEDs may not light on if the WiFi on/off button is off). And then release the button and wait the router to reboot to its factory default settings.</p> <p><b>Method two:</b> Restore the default setting from <a href="#">12.4. Backup and Restore Configuration Settings</a> of the router's Web-based Management.</p>

## Chapter 2

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# Connect the Hardware

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This chapter contains the following sections:

- *Position Your Router*
- *Connect Your Router*

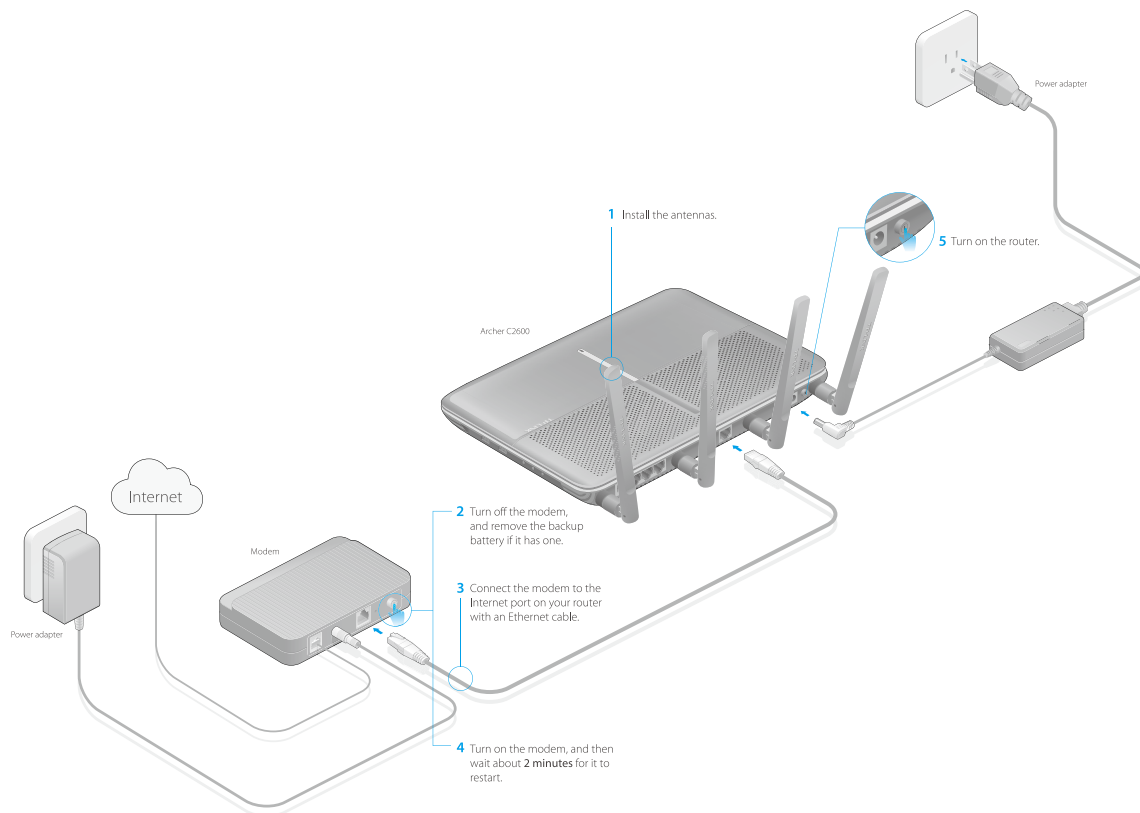
## 2.1. Position Your Router

- The Product should not be located where it will be exposed to moisture or excessive heat.
- Place the router in a location where it can be connected to the 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 router can be placed on a shelf or desktop.
- Keep away from the strong electromagnetic radiation and the device of electromagnetic sensitive.

## 2.2. Connect Your Router

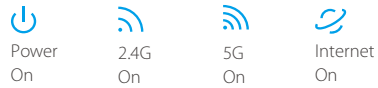
Follow the steps below to connect your router.

1. If your Internet connection is through an Ethernet cable from the wall instead of through a DSL / Cable / Satellite modem, connect the Ethernet cable directly to the router's Internet port, then follow steps 5 and 6 to complete the hardware connection.





- 1) Install the antennas and position them vertically for best signal reception.
- 2) Turn off the modem, and remove the backup battery if it has one.

- 3) Connect the modem to the Internet port on your router with an Ethernet cable.
- 4) Turn on the modem, and then wait about 2 minutes for it to restart.
- 5) Turn on the router.
- 6) Verify that the following LEDs are on and solid before continuing with the configuration.

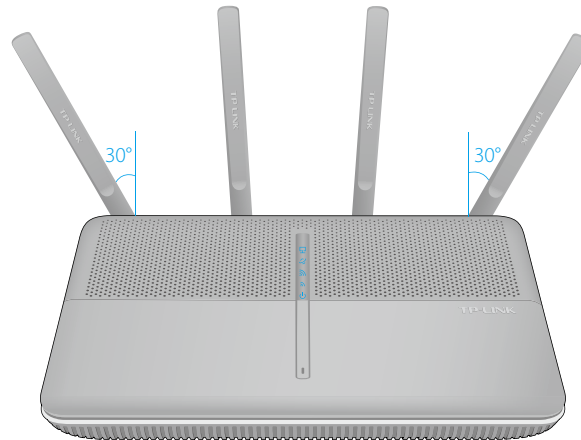


**Note:**

If the 2.4G LED  and 5G LED  are off, please press the Wi-Fi On/Off button on the side panel for 2 seconds and check the LEDs again in a few seconds later.

**Tips:**

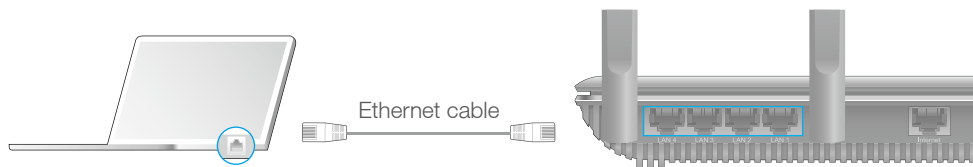
For optimum performance, orient the four antennas as shown in the drawing below.



2. Connect your computer to the router.

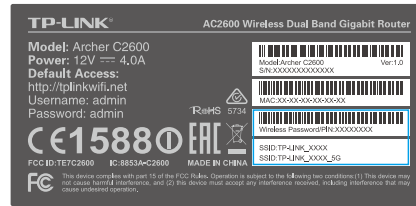
• **Method 1: Wired**

Turn off the Wi-Fi on your computer and connect the devices as shown below.



• **Method 2: Wirelessly**

Connect wirelessly by using the SSID (Network Name) and Wireless Password/PIN printed on the product label at the bottom of the router.



### • Method 3: Use the WPS button

Wireless devices that support WPS, including Android phones, tablets, most USB network cards, can be connected to your router through this method. (WPS is not supported by IOS devices.)

#### ■ Note:

The WPS function cannot be configured if the wireless function of the router is disabled. Also, the WPS function will be disabled if your wireless encryption is WEP. Please make sure the wireless function is enabled and is configured with the appropriate encryption before configuring the WPS.

1. Tap the WPS icon on the device's screen.
2. Immediately press the WPS button on your router.





## Chapter 3

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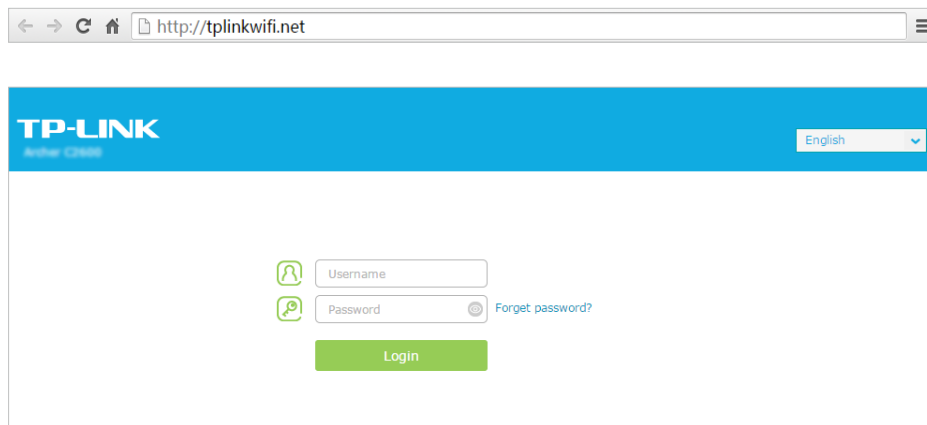
# Log into Your Router

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With a Web-based utility, it is easy to configure and manage the router. The Web-based utility can be used on any Windows, Macintosh or UNIX OS with a Web browser, such as Microsoft Internet Explorer, Mozilla Firefox or Apple Safari.

Follow the steps below to log into your router.

1. Set up the TCP/IP Protocol in [Obtain an IP address automatically](#) mode on your computer.
2. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.



**Note:**

If the login window does not appear, please refer to [FAQ > Q3. I cannot login to the router's web management page, what can I do?](#)

## Chapter 4

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# Set Up Internet Connections

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This chapter introduces how to connect your router to the Internet. The router is equipped with a web-based Quick Setup wizard. It has many ISP information built in, automates many of the steps and verifies that those steps have been successfully completed. Furthermore, you can also set up an IPv6 connection if your ISP provided IPv6 service.

This chapter contains the following sections:

- [\*Quick Setup\*](#)
- [\*Manually Configure Your Internet Connection Settings\*](#)
- [\*Setting Up an IPv6 Internet Connection\*](#)

## 4.1. Quick Setup

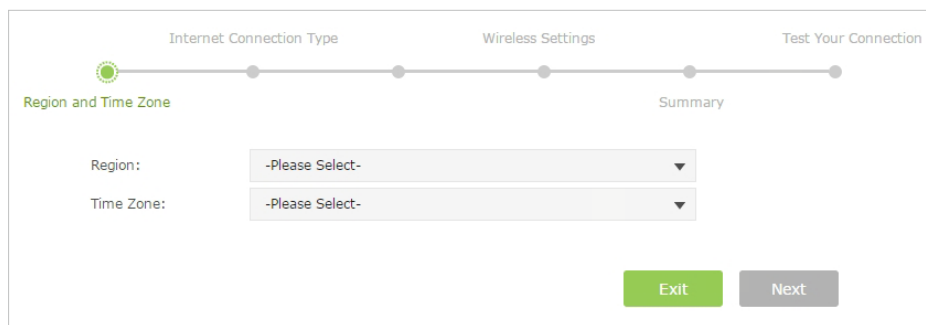
The Quick Setup Wizard will guide you through the process to set up your router to access the Internet.

**Tips:**

If you need the IPv6 Internet connection, please refer to the section of [4.3. Setting Up an IPv6 Internet Connection](#).

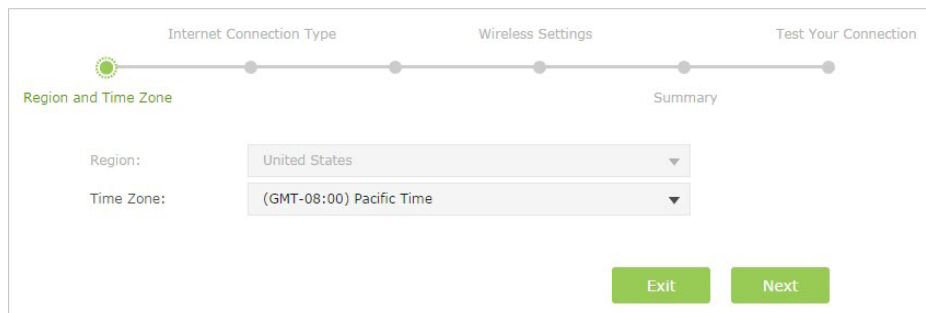
Follow the steps below to set up your router to access the Internet.

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Go to [Quick Setup](#) on the top of the page.
3. Select your Region and Time Zone from the drop-down list and click [Next](#).



**Note:**

Per FCC regulations, all Wi-Fi products marketed in the U.S. must be fixed to the U.S. region only.



4. Click [Auto Detect](#) and the router will detect your connection type automatically.

**Note:**

You can also choose the connection type manually. If you use DSL line and you are only provided an account name and a password by your ISP, choose PPPoE. If you use cable TV or fiber cable, choose Dynamic IP. If you are provided more information such as IP address, Subnet Mask and Default Gateway, choose Static IP. Contact your ISP if you are not sure about the Internet connection information.

Internet Connection Type      Wireless Settings      Test Your Connection

Region and Time Zone      Summary

Auto Detect 6%

Dynamic IP

Static IP

PPPoE

L2TP

PPTP

Back Next

5. In this case, the router automatically detects Dynamic IP as the connection type. Click [Next](#).

Internet Connection Type      Wireless Settings      Test Your Connection

Region and Time Zone      Summary

Auto Detect Dynamic IP

Dynamic IP

Static IP

PPPoE

L2TP

PPTP

Back Next

6. Follow the instructions on the page to decide whether to clone MAC Address. Click [Next](#).

Internet Connection Type      Wireless Settings      Test Your Connection

Region and Time Zone      Summary

If your ISP only allows Internet access to a specific MAC address, you need to Clone that MAC Address to provide access to other devices. If you are not sure, select [Do NOT clone MAC Address](#).

Do NOT Clone MAC Address

Clone Current Computer MAC Address

**Note:** If you select Clone MAC Address. Please make sure the MAC Address of this computer is registered with your ISP before clicking Next.

Back Next

7. Configure your wireless settings and click [Next](#).

Internet Connection Type      Wireless Settings      Test Your Connection

Region and Time Zone      Summary

Wireless 2.4GHz:       Enable Wireless Radio

Wireless Network Name (SSID):      TP-LINK\_8815       Hide SSID

Password:      42532781

Wireless 5GHz:       Enable Wireless Radio

Wireless Network Name (SSID):      TP-LINK\_8814\_5G       Hide SSID

Password:      42532781

Back      Next

**Note:**

1. You may customize your 2.4GHz/5GHz SSID and password. Once done, the wireless connection will disconnect automatically, and you must then use the new SSID/password to regain access to the Internet.
2. Tick [Hide SSID](#) if you want to hide this wireless network name.

**8. Confirm the information and click [Save](#).**

Internet Connection Type      Wireless Settings      Test Your Connection

Region and Time Zone      Summary

Region:      United States

Time Zone:      (GMT-08:00) Pacific Time

Internet Connection Type:      Dynamic IP

2.4GHz Wireless:      On

Wireless Network Name (SSID):      TP-LINK\_8815

Password:      42532781

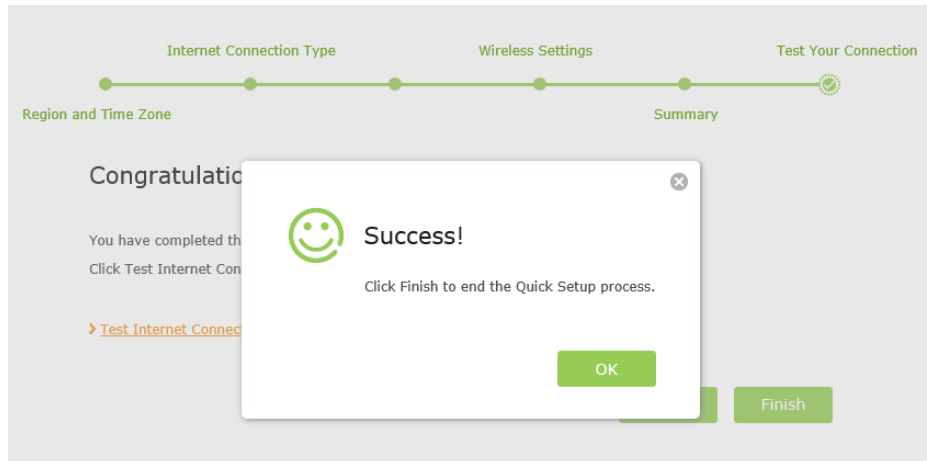
5GHz Wireless:      On

Wireless Network Name (SSID):      TP-LINK\_8814\_5G

Password:      42532781

Back      Save

- 9. Click [Test Internet Connection](#). If you successfully connect to the Internet, the screen will display as follows.**



## 10. Now your computer and WiFi device can connect to the Internet!

### 🔗 Tips:

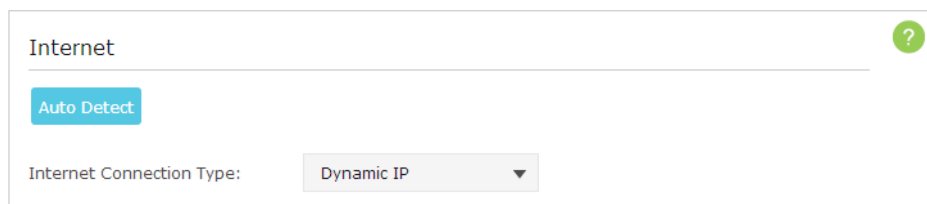
You can connect your computer to the router's LAN port using an Ethernet cable to join the local area network. You can also find and select the wireless network name on your WiFi device to join the WiFi network.

## 4.2. Manually Configure Your Internet Connection Settings

In this part, you can check your current Internet connection settings. You can also modify the settings according to the service information provided by your ISP.

Follow the steps below to check or modify your Internet connection settings.

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Go to *Basic* > *Internet* on the left to enter the setting page.
3. Select your Internet connection type from the drop-down list.

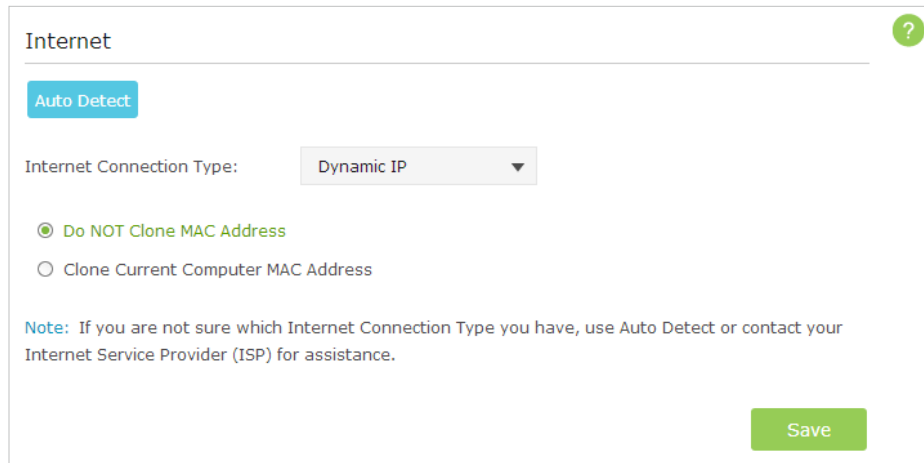


### 📌 Note:

If you are unsure what your connection type is, click [Auto Detect](#). Since different connection types need different cables and connection information, you can also refer to the demonstrations in Step 4 to judge your connection type.

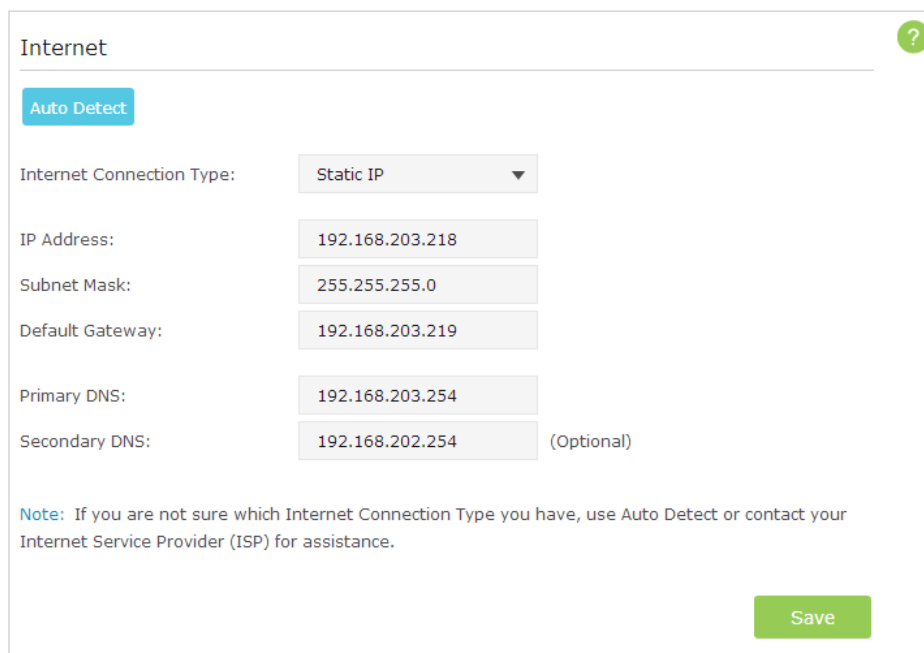
4. Follow the instructions on the page to continue the configuration. Parameters on the figures are just used for demonstration.

- 1) If you choose [Dynamic IP](#), you need to select whether to clone the MAC address. Dynamic IP users are usually equipped with cable TV or fiber cable.



The screenshot shows the 'Internet' configuration page. At the top left is the title 'Internet' and a help icon. Below it is a blue 'Auto Detect' button. The 'Internet Connection Type' dropdown menu is set to 'Dynamic IP'. There are two radio button options: 'Do NOT Clone MAC Address' (which is selected) and 'Clone Current Computer MAC Address'. A note below the options reads: 'Note: If you are not sure which Internet Connection Type you have, use Auto Detect or contact your Internet Service Provider (ISP) for assistance.' A green 'Save' button is located at the bottom right.

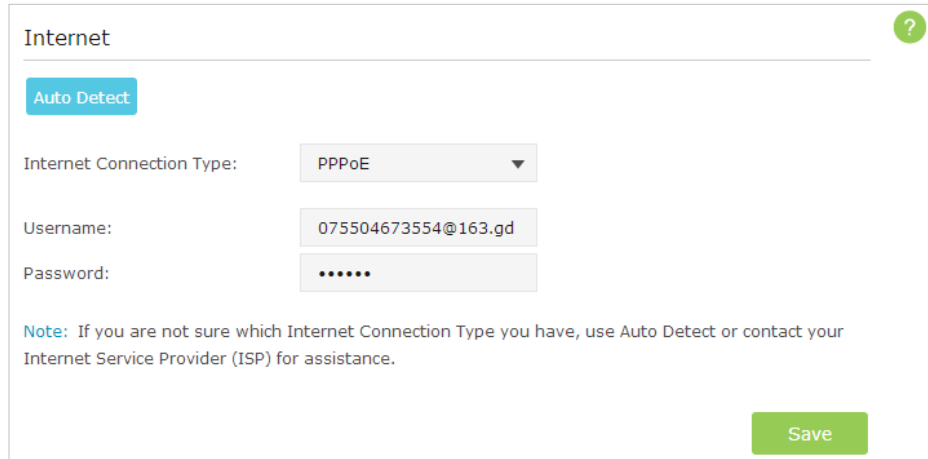
- 2) If you choose **Static IP**, enter the information provided by your ISP in the corresponding fields.



The screenshot shows the 'Internet' configuration page with 'Static IP' selected in the dropdown menu. The 'Auto Detect' button is still present. Below the dropdown are several input fields: 'IP Address' (192.168.203.218), 'Subnet Mask' (255.255.255.0), 'Default Gateway' (192.168.203.219), 'Primary DNS' (192.168.203.254), and 'Secondary DNS' (192.168.202.254) with '(Optional)' to its right. The same note about using Auto Detect or contacting the ISP is present. A green 'Save' button is at the bottom right.

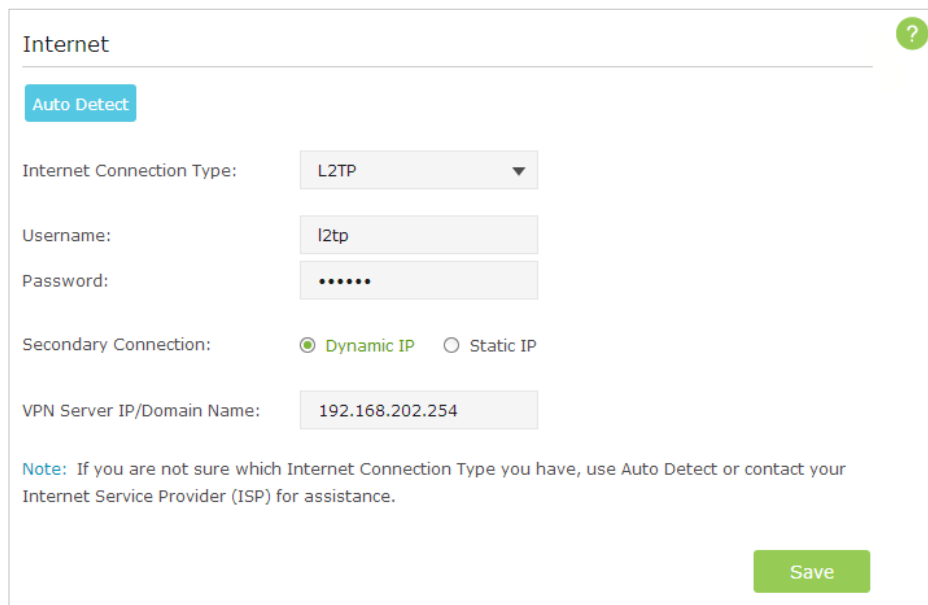
- 3) If you choose **PPPoE**, enter the **username** and **password** provided by your ISP. PPPoE users usually have DSL cable.





The screenshot shows the 'Internet' configuration page. At the top left is the title 'Internet' and a help icon. Below it is a blue 'Auto Detect' button. The 'Internet Connection Type' dropdown is set to 'PPPoE'. The 'Username' field contains '075504673554@163.gd' and the 'Password' field is masked with dots. A note at the bottom states: 'Note: If you are not sure which Internet Connection Type you have, use Auto Detect or contact your Internet Service Provider (ISP) for assistance.' A green 'Save' button is at the bottom right.

- 4) If you choose **L2TP**, enter the **username** and **password** and choose the **Secondary Connection** provided by your ISP. Different parameters are needed according to the Secondary Connection.



The screenshot shows the 'Internet' configuration page with 'L2TP' selected. The 'Internet Connection Type' dropdown is set to 'L2TP'. The 'Username' field contains 'l2tp' and the 'Password' field is masked with dots. The 'Secondary Connection' section has 'Dynamic IP' selected with a radio button, and 'Static IP' is unselected. The 'VPN Server IP/Domain Name' field contains '192.168.202.254'. A note at the bottom states: 'Note: If you are not sure which Internet Connection Type you have, use Auto Detect or contact your Internet Service Provider (ISP) for assistance.' A green 'Save' button is at the bottom right.

- 5) If you choose **PPTP**, enter the **username**, **password** and choose the **Secondary Connection** provided by your ISP. Different parameters are needed according to the Secondary Connection.

### Internet ?

Auto Detect

Internet Connection Type: PPTP

Username: pptp

Password: •••••

Secondary Connection:  Dynamic IP  Static IP

VPN Server IP/Domain Name: 192.168.202.254

Note: If you are not sure which Internet Connection Type you have, use Auto Detect or contact your Internet Service Provider (ISP) for assistance.

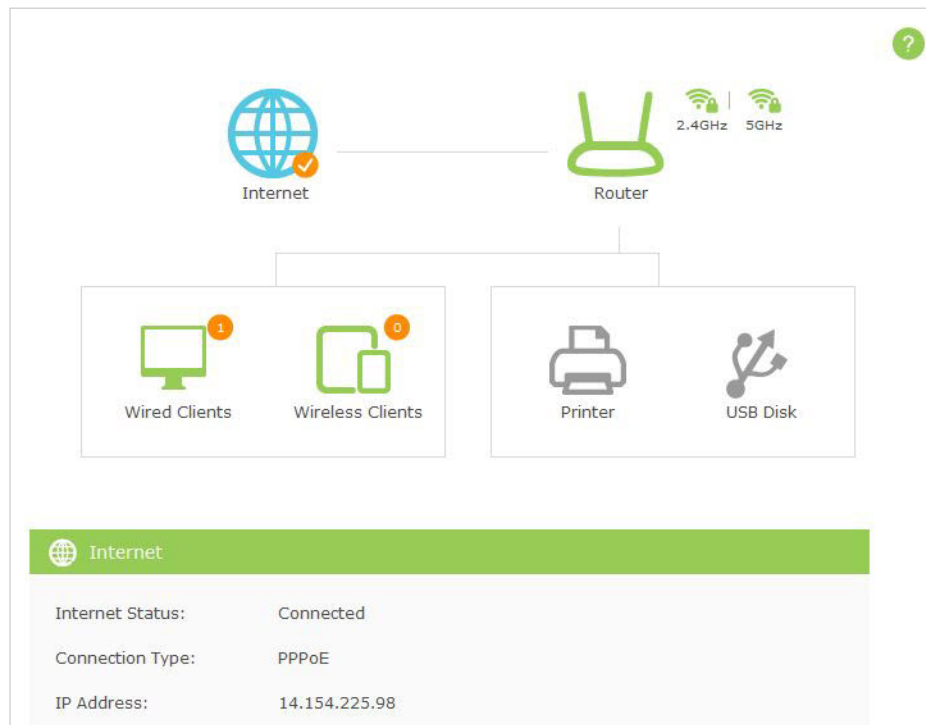
Save

5. Click [Save](#) to make the settings take effect. To check your Internet connection, click [Network Map](#) on the left of the page.

**Note:**

It may take 1-2 minutes to make the settings valid.

6. After the connection succeed, the screen will display as follows. Here we take PPPoE as an example.



**Tips:**

1. If your Internet connection type is [Bigpond Cable](#), please go to [Advanced > Network > Internet](#).
2. If you use [Dynamic IP](#) and [PPPoE](#) and you are provided any other parameters that are not required on the page, please go to [Advanced > Network > Internet](#) to complete the configuration.

3. If you still cannot connect to the Internet, refer to [FAQ](#) for further instructions.

### 4.3. Setting Up an IPv6 Internet Connection

Your ISP provides information about one of the following Internet connection types: PPPoE, Dynamic IP (SLAAC/DHCPv6), Static IP, 6to4 tunnel, Pass-Through (Bridge).

1. Visit <http://tplinkwifi.net>, then log in with the password you set for the router.
2. Go to [Advanced](#) > [IPv6](#) to log into the configuration page.

Internet ?

IPv6:  On

Internet Connection Type:

---

LAN

Assigned Type:  DHCPv6  SLAAC+ Stateless DHCP  SLAAC+ RDNSS

Address Prefix:  /64

Address: FE80::20A:EBFF:FEAC:8815/64

3. Select the Internet connection type provided by ISP.

Internet ?

IPv6:  On

Internet Connection Type:

- Static IP
- Dynamic IP (SLAAC/DHCPv6)
- PPPoE
- 6to4 Tunnel
- Pass-Through (Bridge)

---

LAN

Assigned Type:  DHCPv6  SLAAC+ Stateless DHCP  SLAAC+ RDNSS

Address Prefix:  /64

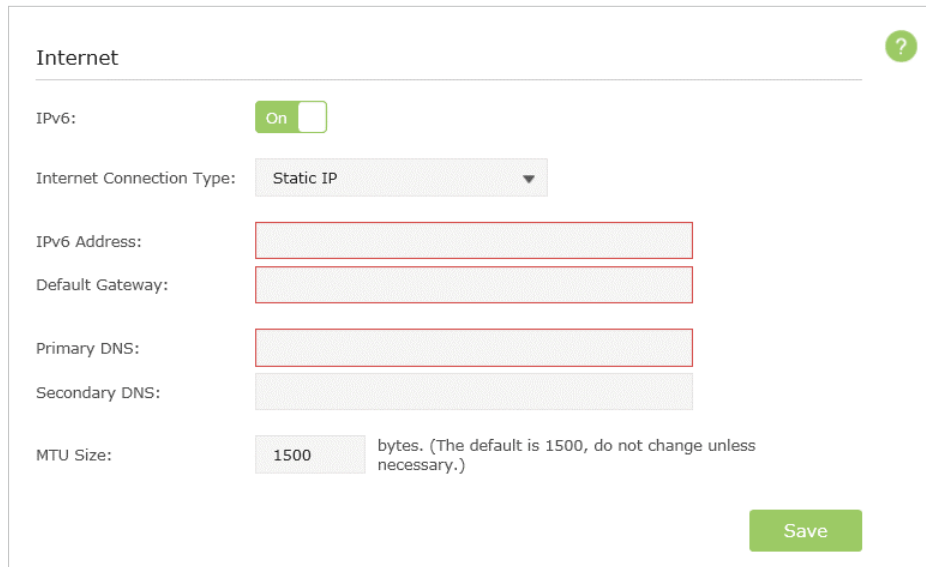
Address: FE80::20A:EBFF:FE0C:2642/64

**Tips:**

If you do not know what your Internet connection type is, contact your ISP or judge according to already known information provided by your ISP.

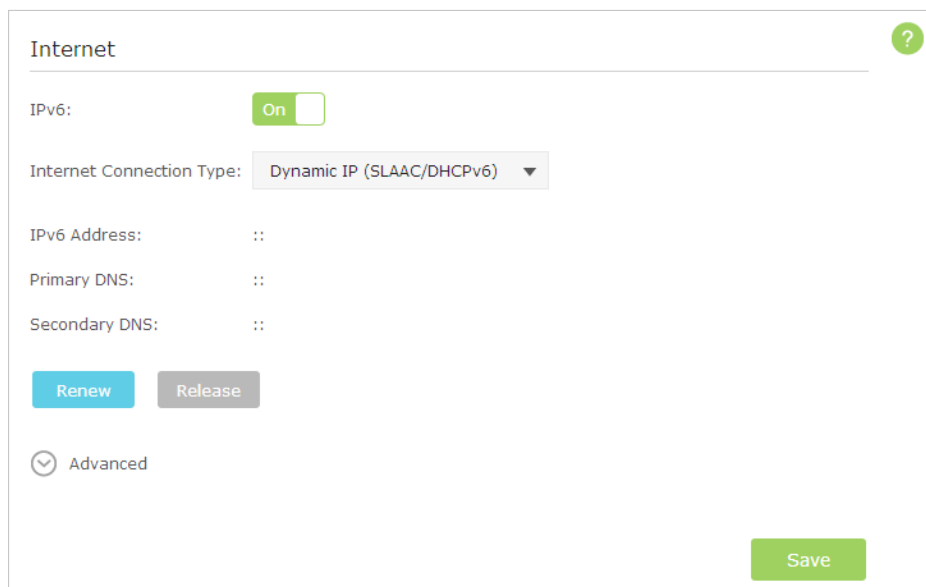
4. Fill in information as required by different connection type. (Red blanks must be filled.)

- 1) **Static IP:** Fill in blanks and click [Save](#).



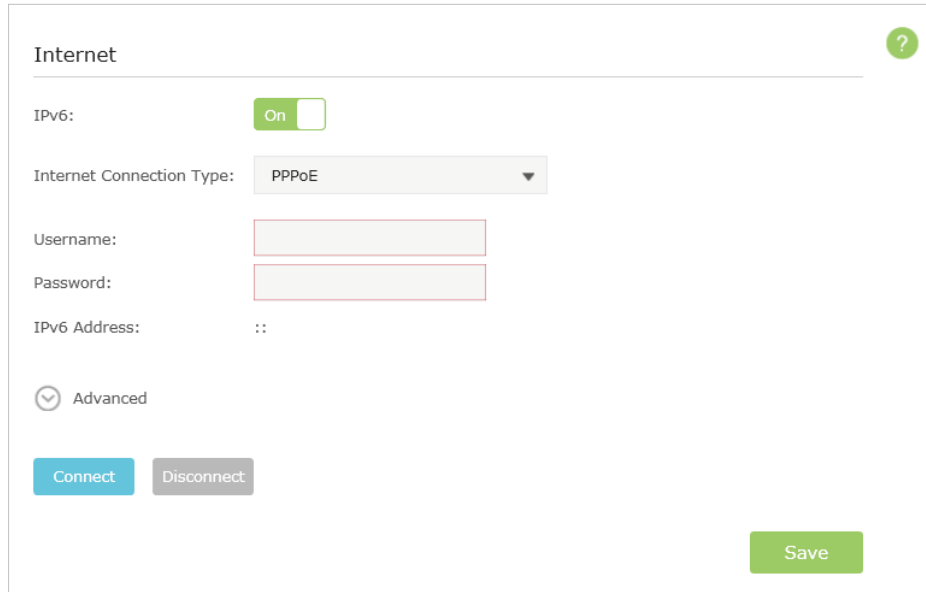
The screenshot shows the 'Internet' configuration window. At the top right is a green question mark icon. The 'IPv6' toggle is set to 'On'. The 'Internet Connection Type' is set to 'Static IP'. Below this are four empty text input fields for 'IPv6 Address', 'Default Gateway', 'Primary DNS', and 'Secondary DNS'. The 'MTU Size' is set to '1500' bytes, with a note: '(The default is 1500, do not change unless necessary.)'. A green 'Save' button is located at the bottom right.

- 2) **Dynamic IP(SLAAC/DHCPv6)**: Click **Advanced** to have more configuration if ISP requires. Click **Save** to save the settings and then click **Renew** to finish the configuration.



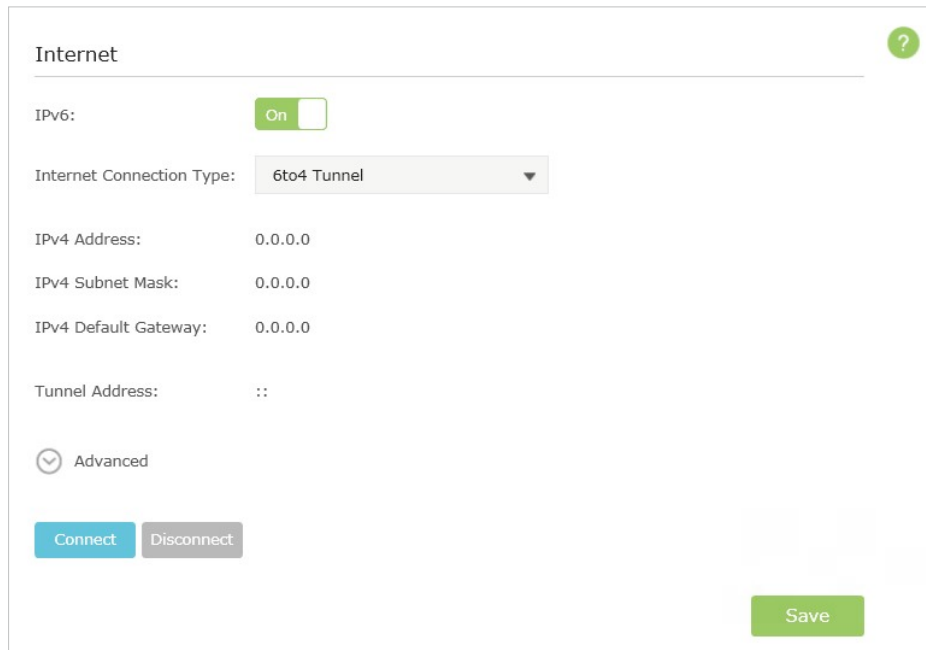
The screenshot shows the 'Internet' configuration window with 'Dynamic IP (SLAAC/DHCPv6)' selected. The 'IPv6' toggle is 'On'. The 'Internet Connection Type' dropdown is set to 'Dynamic IP (SLAAC/DHCPv6)'. The 'IPv6 Address', 'Primary DNS', and 'Secondary DNS' fields all contain '::'. There are 'Renew' and 'Release' buttons. An 'Advanced' section is collapsed. A green 'Save' button is at the bottom right.

- 3) **PPPoE**: Fill in the Username and Password. Click **Advanced** to have more configuration if ISP requires. Click **Save** to save the settings and then click **Connect** to finish the configuration.



The screenshot shows the 'Internet' configuration page. At the top right is a green help icon. The 'IPv6' toggle is turned 'On'. The 'Internet Connection Type' dropdown is set to 'PPPoE'. Below it are empty input fields for 'Username' and 'Password'. The 'IPv6 Address' is set to '::'. There is a 'Advanced' section with a downward arrow icon. At the bottom left are 'Connect' and 'Disconnect' buttons, and at the bottom right is a 'Save' button.

- 4) **6to4 Tunnel:** An IPv4 Internet connection type is a prerequisite for this connection type. (4. 2) Click **Advanced** to have more configuration if ISP requires. Click **Save** to save the settings and then click **Connect** to finish the configuration.



The screenshot shows the 'Internet' configuration page with the 'Internet Connection Type' dropdown set to '6to4 Tunnel'. The 'IPv6' toggle is 'On'. The 'IPv4 Address', 'IPv4 Subnet Mask', and 'IPv4 Default Gateway' are all set to '0.0.0.0'. The 'Tunnel Address' is set to '::'. The 'Advanced' section is expanded, showing a downward arrow icon. The 'Connect' and 'Disconnect' buttons are at the bottom left, and the 'Save' button is at the bottom right.

- 5) **Pass-Through (Bridge):** Click **Save** and skip to step 6.

Internet

IPv6:  On

Internet Connection Type: Pass-Through (Bridge)

Save

5. Configure LAN ports. Windows users are recommended to choose from the first two types. Fill in Address Prefix provided by ISP, and click [Save](#) to save the settings.

**Tips:**

Find [Help](#) on the management interface to know more about items.

LAN

Assigned Type:  DHCPv6  SLAAC+ Stateless DHCP  SLAAC+ RDNSS

Address Prefix:  /64

Address: FE80::20A:EBFF:FEAC:881B/64

Save

6. Click [Status](#) to check whether you succeed or not. The following figure is an example of a successful PPPoE configuration.

Internet <span>✓</span>		IPv4   IPv6
MAC Address:	00-0A-EB-AC-25-01	
IP Address:	2001:c68:202:2111::120/64	
Default Gateway:	fe80::edd0:80d2:7f5e:6be7	
Primary DNS:	2001:c68:202:2111::1	
Secondary DNS:	2001:c68:202:2111::2	
Connection Type:	PPPoE	

**Tips:**

Visit [FAQ](#) if there is no Internet connection.

## Chapter 5

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# Guest Network

---

This function allows you to provide Wi-Fi access for guests without disclosing your main network. When you have guests in your house, apartment, or workplace, you can create a guest network for them. In addition, you can limit the network authorities for guests to ensure network security and privacy.

This chapter contains the following sections:

- [\*Create Guest Network\*](#)
- [\*Customize Guest Network Options\*](#)

## 5.1. Create Guest Network

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Advanced](#) > [Guest Network](#).
3. Create a 2.4GHz or 5GHz guest network according to your needs.
  - 1) Enable [Wireless Network 2.4GHz](#) or [Wireless Network 5GHz](#).
  - 2) Set an easy-to-identify SSID. Don't select [Hide SSID](#) unless you want your guests and other people to manually input this SSID for Wi-Fi access.
  - 3) Set [Security](#) to [WPA/WPA2 Personal](#), keep the default [Version](#) and [Encryption](#) values, and set an easy-to-remember [Password](#).

Wireless 2.4GHz | 5GHz

2.4GHz Wireless:  Enable Guest Network

Wireless Network Name (SSID):   Hide SSID

Security:  No Security  WPA/WPA2-Personal

Version:  Auto  WPA-PSK  WPA2-PSK

Encryption:  Auto  TKIP  AES

Password:

[Save](#)

4. Click [Save](#). Now your guests can access your guest network using the SSID and password you set!

### Tips:

To view guest network information, go to [Advanced](#) > [Status](#) and find the Guest Network section.

## 5.2. Customize Guest Network Options

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Go to [Advanced](#) > [Guest Network](#).
3. Customize guest network options according to your needs.

Settings ?

Allow guests to see each other

Allow guests to access my local network

[Save](#)



- [Allow guests to see each other](#)

Select this checkbox to allow the clients in your guest network to access each other.

- [Allow guests to access my local network](#)

Select this checkbox to allow the clients in your guest network to access your local network, not just Internet access.

4. Click [Save](#). Now users in your guest network can enjoy only the network authorities you assigned!

 **Tips:**

To view guest network information, go to [Advanced](#) > [Status](#) and find the [Guest Network](#) section.

## Chapter 6

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# USB Application

---

This chapter describes how to share and access USB devices connected to the router among different clients.

The router only supports USB external flash drives, hard drives and USB printers, and does not support USB 3G/4G modems.

This chapter contains the following sections:

- *Local Storage Sharing*
- *Remote Access via FTP Server*
- *Media Sharing*
- *Printer Sharing*

## 6.1. Local Storage Sharing


Share your USB storage devices with different users on the network.

### 6.1.1. Access the USB disk

#### 1. Connect Your USB Disk


Insert your USB storage device into the router's USB port directly or using a USB cable. Wait several seconds until the USB LED becomes solid on.

 **Tips:**

- If you use USB hubs, make sure no more than four devices are connected to the router.
- If the USB storage device requires using bundled external power, make sure the external power has been connected.
- If you use a USB hard drive, make sure its file system is FAT32, exFat, NTFS and HFS+.
- Before you physically disconnect a USB device from the router, safely remove it to avoid data damage: Go to *Advanced > USB Settings > Device Settings* and click  **Safety Remove**.

#### 2. Access Your USB Disk

By default all the network clients can access all folders on your USB disk. Refer to the following table for access instructions. You can also customize your sharing content and set a sharing account referring to [6.1.2. Customize Your Settings](#).

<b>Windows computer</b>	<ol style="list-style-type: none"> <li>1. Press <b>Windows</b> () + <b>R</b> on the keyboard (or select <b>Start &gt; Run</b>).</li> <li>2. Type the server address <code>\\tplinkwifi.net</code> or <code>ftp://tplinkwifi.net</code> in the dialog box.</li> <li>3. Click <b>OK</b>.</li> </ol>
<b>Mac</b>	<ol style="list-style-type: none"> <li>1. Select <b>Go &gt; Connect to Server</b>.</li> <li>2. Type the server address <code>smb://tplinkwifi.net</code> or <code>ftp://tplinkwifi.net</code>.</li> <li>3. Click <b>Connect</b>.</li> </ol>
<b>Pad</b>	Use a third-party app for network files management.

 **Tips:**

You can also access all folders by using your Network/Media Server Name. Refer to [To Customize the Address of the USB Disk](#) to learn more.

### 6.1.2. Customize Your Settings

#### ➤ To Only Share Specific Content

By default, **Share All** is enabled so all content on the USB disk is shared. If you want to only share specific folders, follow the steps below:

1. Visit <http://tplinkwifi.net>, then log in with the username and password you set for the router.

- Go to [Basic](#) or [Advanced](#) > [USB Settings](#) > [Sharing Access](#). Focus on the [Folder Sharing](#) section. Click the button to disable [Share All](#), then click [Add](#) to add a new sharing folder.

Folder Sharing

Share All:  Off Toggle On to share all files and folders or keep it Off to only share the specified folders.

[+ Add](#) [- Delete](#)

<input type="checkbox"/>	ID	Folder Name	Folder Path	Media Sharing	Volume Name	Active	Modify
--	--	--	--	--	--	--	--

Volume Name:

Folder Path:

Folder Name:

Allow Guest Network Access

Enable Authentication

Enable Write Access

Enable Media Sharing

- Select the [Volume Name](#) and [Folder Path](#), then enter a [Folder Name](#) as you like.
- Decide the way you share the folder:
  - [Allow Guest Network Access](#): If you select this check box, guest network can access to the this folder.
  - [Enable Authentication](#): Select to enable authentication for this folder sharing, and you will be required to use a username and password to access the USB disk. Refer to [To Set up Authentication for Data Security](#) to learn more.
  - [Enable Write Access](#): If you select this check box, network clients can modify this folder.
  - [Enable Media Sharing](#): Select to enable media sharing for this folder, and you can view photos, play music and watch movies stored on the USB disk directly from DLNA-supported devices. Click [Media Sharing](#) to learn more.

- Click [OK](#).

**Tips:**

The router can share 32 volumes at most. You can click on the page to detach the corresponding volume you do not need to share.

➤ **To Set up Authentication for Data Security**

If you enable [Authentication](#), network clients will be required to enter the username and password you set when accessing the USB disk.

1. Visit <http://tplinkwifi.net>, then log in with the username and password you set for the router.
2. Go to [Advanced](#) > [USB Settings](#) > [Sharing Access](#). Focus on the [Sharing Account](#) section.

3. Choose to use the default Account (admin) or use a new account and click [Save](#).
4. Enable [Authentication](#) to apply the account you just set.
  - If you leave [Share All](#) enabled, click the button to enable [Authentication](#) for all folders.

- If [Share All](#) is disabled, enable [Authentication](#) for specific folders.

### ➤ To Customize the Address of the USB Disk

You can customize the server name and use the name to access your USB disk.

1. Visit <http://tplinkwifi.net>, then log in with the username and password you set for the router.
2. Go to [Advanced](#) > [USB Settings](#) > [Sharing Access](#). Focus on the [Sharing Settings](#) section
3. Make sure [Network Neighborhood](#) is ticked, and enter a Network/Media Server Name as you like, such as [My-Share](#), then click [Save](#).

Sharing Settings

Network/Media Server Name:

Enable	Access Method	Link	Port
<input checked="" type="checkbox"/>	Network Neighborhood	\\My-Share	---
<input checked="" type="checkbox"/>	FTP	ftp://192.168.0.1:21	21
<input type="checkbox"/>	FTP (Via Internet)	ftp://0.0.0.0:21 <a href="#">Edit</a>	<input type="text" value="21"/>

4. Now you can access the USB disk with `\\My-Share` (`smb://My-Share` for Mac).

## 6.2. Remote Access via FTP Server

You can access your USB disk outside the local area network.

For example:

- Share photos and other large files with your friends without logging in to (and paying for) a photo-sharing site or email system.
- Get a safe backup for the materials for a presentation.
- Remove the files on your camera's memory card from time to time during the journey.

### Note:

If your ISP assigns a private WAN IP address (such as 192.168.x.x or 10.x.x.x), you cannot use this feature because private addresses are not routed on the Internet.

### 6.2.1. Access the USB disk

#### 1. Connect Your USB Disk

Insert your USB storage device into the router's USB port directly or using a USB cable. Wait several seconds until the USB LED becomes solid on.

#### Tips:

- If you use USB hubs, make sure no more than four devices are connected to the router.
- If the USB storage device requires using bundled external power, make sure the external power has been connected.
- If you use a USB hard drive, make sure its file system is FAT32, exFat, NTFS and HFS+.
- Before you physically disconnect a USB device from the router, safely remove it to avoid data damage: Go to [Advanced](#) > [USB Settings](#) > [Device Settings](#) and click [Safety Remove](#).

#### 2. Enable Authentication for Data Security

It is strongly recommended that you set and apply a sharing account for data security.

- 1) Visit <http://tplinkwifi.net>, then log in with the username and password you set for the router.
- 2) Go to *Advanced* > *USB Settings* > *Sharing Access*.
- 3) Choose to **Use default Account** (admin) or **Use New Account** and click **Save**.

- 4) Enable **Authentication** to apply the sharing account.
  - If you leave **Share All** enabled, click the button to enable **Authentication** for all folders.

- If **Share All** is disabled, enable **Authentication** for specific folders.

### 3. Enable the FTP (via Internet)

Select the check box to enable **FTP (via Internet)**, then click **Save**.

Enable	Access Method	Link	Port
<input type="checkbox"/>	Network Neighborhood	\\TP-Share	---
<input type="checkbox"/>	FTP	ftp://192.168.0.1:21	21
<input checked="" type="checkbox"/>	FTP (Via Internet)	ftp://0.0.0.0:21 <a href="#">Edit</a>	21

### 4. Access Your USB Disk via Internet

Now different clients with Internet connection can access the USB disk:

<b>Computer</b>	<ul style="list-style-type: none"> <li>• To download, open a web browser and type the server address <code>ftp://&lt;WAN IP address of the router&gt;:&lt;port number&gt;</code> (such as <code>ftp://59.40.2.243:21</code>), or if you set up a domain name for your router you can type the server address <code>ftp://&lt;domain name of the router&gt;:&lt;port number&gt;</code> (such as <code>ftp://MyDomainName:21</code>) in the address bar, then press <b>Enter</b> on the keyboard.</li> <li>• To upload, use a third-party app for network files management.</li> </ul>
<b>Pad</b>	<ul style="list-style-type: none"> <li>• Use a third-party app for network files management.</li> </ul>

 **Tips:**

Go to [11.4. Set Up a Dynamic DNS Service Account](#) to learn how to set up a domain name for you router.

## 6.2.2. Customize Your Settings

### ➤ To Only Share Specific Content

By default, **Share All** is enabled so all content on the USB disk is shared. If you want to only share specific folders, follow the steps below:

1. Visit <http://tplinkwifi.net>, then log in with the username and password you set for the router.
2. Go to *Basic* or *Advanced* > *USB Settings* > *Sharing Access*. Focus on the section of **Folder Sharing**. Click the button to disable **Share All**, then click **Add** to add a new sharing folder.
3. Select the **Volume Name** and **Folder Path**, then specify the **Folder Name** as you like.
4. Select **Enable Authentication**. If you allow network clients to modify this folder, select **Enable Write Access**.



### Folder Sharing

Share All:  Off Toggle On to share all files and folders or keep it Off to only share the specified folders.

+ Add - Delete

☐	ID	Folder Name	Folder Path	Media Sharing	Volume Name	Active	Modify
--	--	--	--	--	--	--	--

Volume Name:

Folder Path:  Browse

Folder Name:

Allow Guest Network Access

Enable Authentication

Enable Write Access

Enable Media Sharing

Cancel
OK

5. Click **OK**.

**Tips:**

The router can share 32 volumes at most. You can click on the page to detach the corresponding volume you do not need to share.

## 6.3. Media Sharing

The feature of [Media Sharing](#) allows you to view photos, play music and watch movies stored on the USB disk directly from DLNA-supported devices, such as your computer, pad and PS2/3.

### 6.3.1. Access the USB disk

#### 1. Connect Your USB Disk


Insert your USB storage device into the router's USB port directly or using a USB cable. Wait several seconds until the USB LED becomes solid on.

**Tips:**

- If you use USB hubs, make sure no more than four devices are connected to the router.
- If the USB storage device requires using bundled external power, make sure the external power has been connected.
- If you use a USB hard drive, make sure its file system is FAT32, exFat, NTFS and HFS+.
- Before you physically disconnect a USB device from the router, safely remove it to avoid data damage: Go to [Advanced](#) > [USB Settings](#) > [Device Settings](#) and click [Safety Remove](#).

#### 2. Play the Media on Your USB Disk

Now the DLNA-supported devices (such as your computer and pad) connected to the router can detect and play the media files on the USB disks.

Windows computer	<ol style="list-style-type: none"> <li>1. Open the Windows Media Player.</li> <li>2. Click the media server name (such as <a href="#">Genie Media Servers</a>) under the list of <a href="#">Other Libraries</a>, then you can directly view photos, play music and watch movies that you share on the USB disks.</li> </ol> <div style="text-align: center;">  </div>
	Pad

### 6.3.2. Customize Your Settings

#### ➤ To Only Share Specific Content

By default, [Share All](#) is enabled so all content on the USB disk is shared. If you want to only share specific folders, follow the steps below:

1. Visit <http://tplinkwifi.net>, then log in with the username and password you set for the router.
2. Go to [Advanced](#) > [USB Settings](#) > [Sharing Access](#).
3. Focus on the section of [Folder Sharing](#). Click the button to disable [Share All](#), then click [Add](#) to add a new sharing folder.
4. Select the [Volume Name](#) and [Folder Path](#), then enter a [Folder Name](#) as you like.
5. Select [Enable Media Sharing](#) and click [OK](#).

### Folder Sharing

Share All:  Off Toggle On to share all files and folders or keep it Off to only share the specified folders.

+ Add - Delete

☐	ID	Folder Name	Folder Path	Media Sharing	Volume Name	Active	Modify
--	--	--	--	--	--	--	--

Volume Name:

Folder Path:  Browse

Folder Name:

Allow Guest Network Access

Enable Authentication

Enable Write Access

Enable Media Sharing

Cancel
OK

**Tips:**

The router can share 32 volumes at most. You can click on the page to detach the corresponding volume you do not need to share.

## 6.4. Printer Sharing

The feature of Printer Sharing helps you share a printer with different computers connected to the router.

**Note:**

Printers unlisted may be incompatible with the router. You can check [Printer Compatibility List](#) to verify whether your printer is supported by the router: <http://www.tp-link.com/common/compatible/print-server/>.

### 1. Install the Driver of the Printer

Make sure you have installed the driver of the printer on each computer that needs printer service.

If you do not have the driver, contact the printer manufacturer.

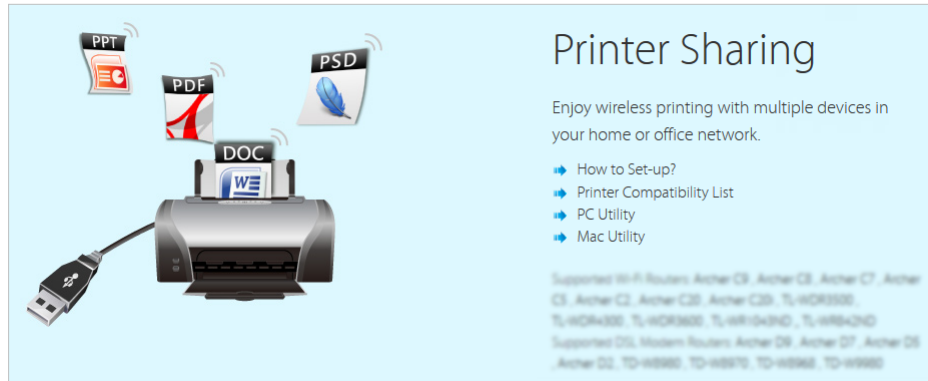
### 2. Connect the Printer

Cable a printer to the USB port with the USB cable. Wait several seconds until the USB LED becomes solid on.

### 3. Install the TP-LINK USB Printer Controller Utility


TP-LINK USB Printer Controller Utility helps you access the shared printer. Download and install the utility on each computer that needs printer service.

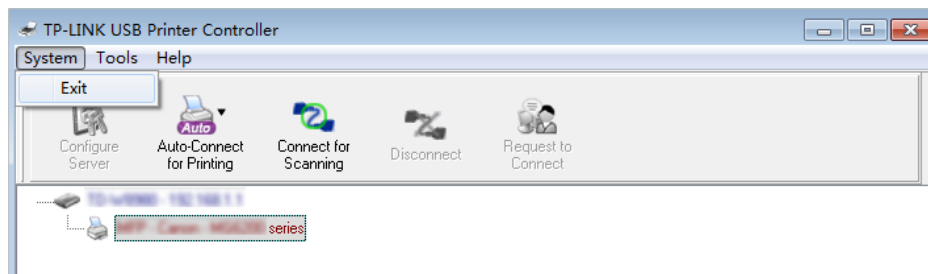
You can get the utility from <http://www.tp-link.com/app/usb/>. PC Utility is for Windows computer and Mac Utility is for Mac computer.



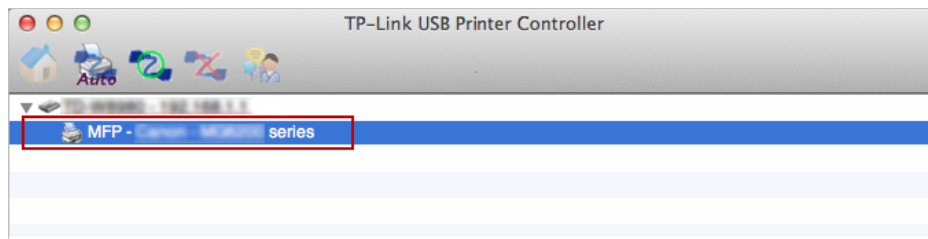
**4. Access the Printer**

You should set the shared printer as **Auto-Connect Printer** on every computer that needs printer service.

- 1) Double-click the icon  on your desktop to launch the USB Printer Controller.
- 2) Highlight the printer you share.

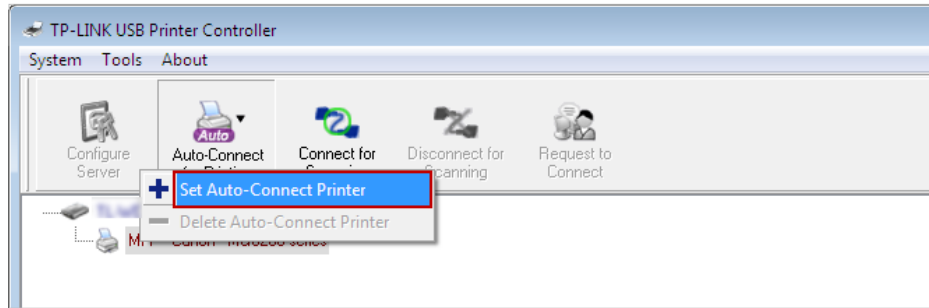


**Windows**

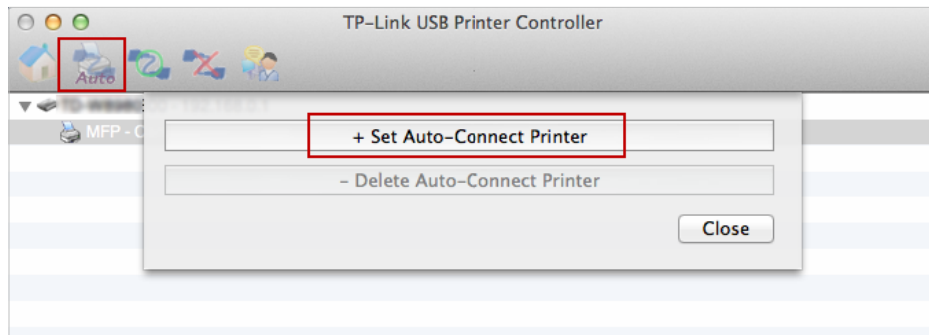


**Mac**

- 3) Click the **Auto-Connect for printing** tab to pull down a list, then select **Set Auto-Connect Printer**.

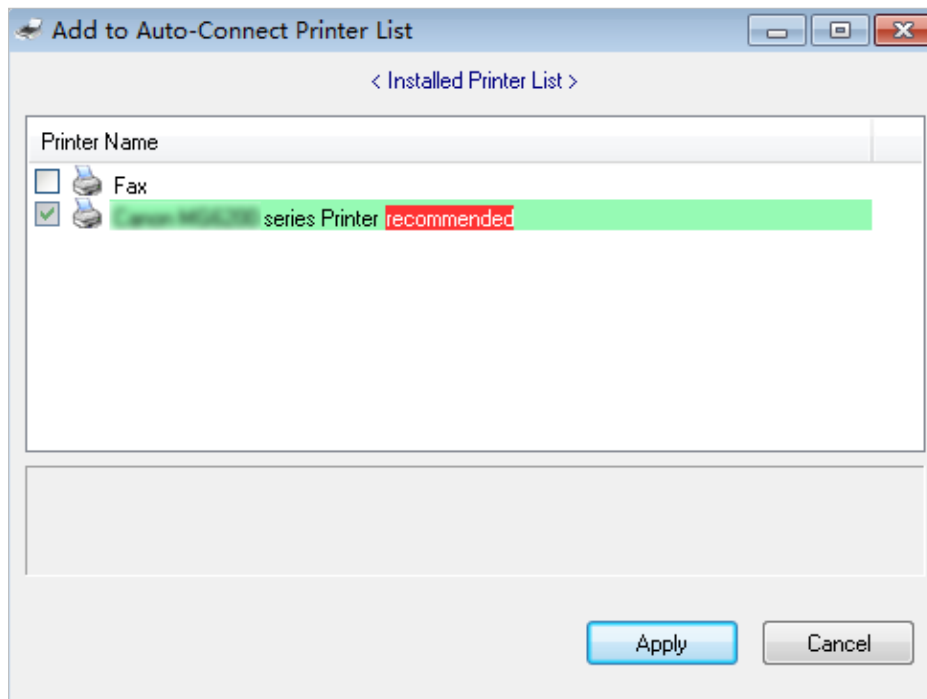


Windows

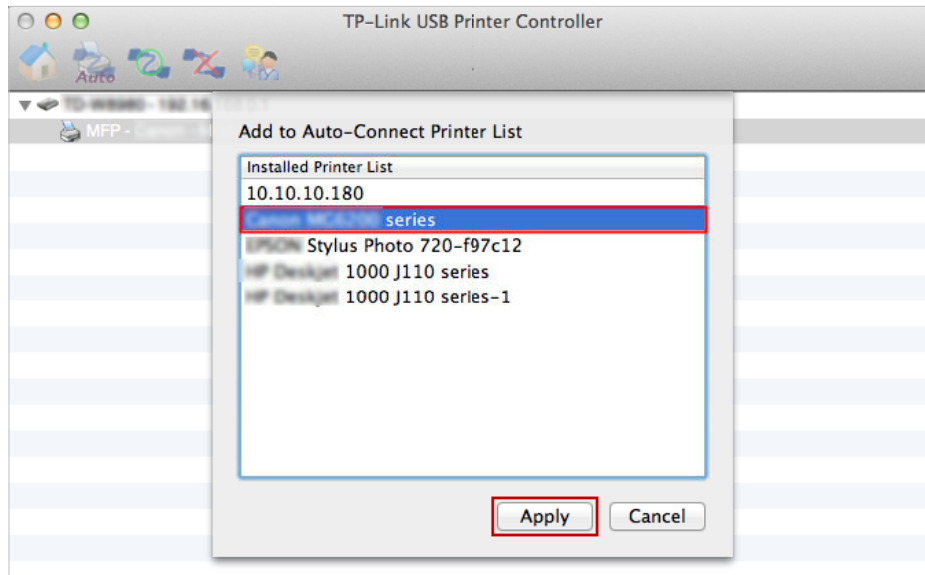


Mac

- 4) Select the printer you share, then click [Apply](#).

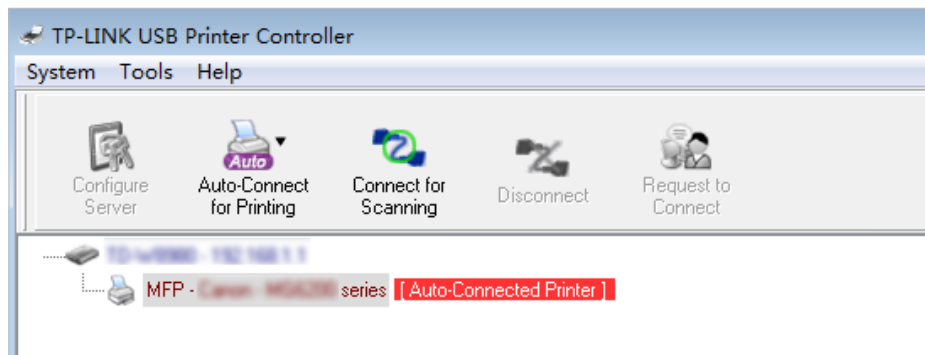


Windows

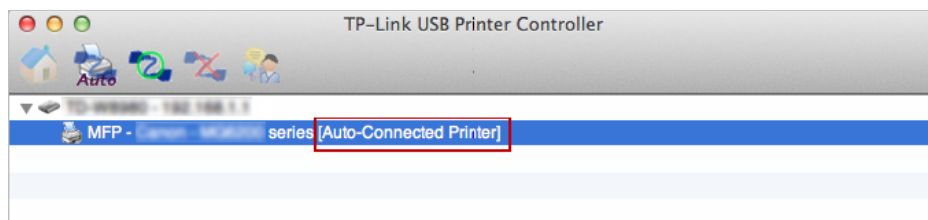


### Mac

- 5) You will see the printer marked as **Auto-Connect Printer**. Now you can print with this printer.



### Windows



### Mac

#### 🔗 Tips:

The Print Server also allows different clients to share the scan feature of MFPs (Multi-Function Printers). To scan with **TP-LINK USB Printer Controller**, right-click the printer and select **Network Scanner**. Then, a scanning window will pop up. Finish the scanning process by following the on-screen instructions.

## Chapter 7

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# Parental Controls

---

This function allows you to block inappropriate, explicit and malicious websites, and controls access to specified websites at specified time.

**I want to:**

Control what types of websites my children or other home network users can visit and even the times of day they are allowed to access the Internet.

*For example,* I want to allow my children's devices (e.g. a computer or a tablet) to access only [www.tp-link.com](http://www.tp-link.com) and [Wikipedia.org](http://Wikipedia.org) from 18:00 (6PM) to 22:00 (10PM) at the weekend and not other times.

**How can I do that?**

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to *Basic* or *Advanced* > *Parental Controls* and enable *Parental Controls*.

Parental Controls ?

Parental Controls:  On

Devices Under Parental Controls

[+ Add](#) [- Delete](#)

<input type="checkbox"/>	ID	Device Name	MAC Address	Internet Access Time	Description	Status	Modify
--	--	--	--	--	--	--	--

Content Restriction

Restriction Policy:  Blacklist  Whitelist

[+ Add a New Keyword to Block](#)

[Save](#)

3. Click [Add](#). And then Click [View Existing Devices](#), and select the access device. Or, input the [Device Name](#) and [MAC Address](#) manually.



Devices Under Parental Controls

+ Add - Delete

<input type="checkbox"/>	ID	Device Name	MAC Address	Internet Access Time	Description	Status	Modify
--	--	--	--	--	--	--	--

Device Name:  [View Existing Devices](#)

MAC Address:

Internet Access Time:

Description:  (Optional)

Enable This Entry

[Cancel](#) [OK](#)

4. Click the icon to set the Internet Access Time. Drag the cursor over the appropriate cell(s) and click **OK**.

System Time: Tue, 6th Jan, 2015 03:07:56 GMT-08:00

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
00:00							
01:00							
02:00							
03:00							
04:00							
05:00							
06:00							
07:00							
08:00							
09:00							
10:00							
11:00							
12:00							
13:00							
14:00							
15:00							
16:00							
17:00							
18:00							
19:00							
20:00							
21:00							
22:00							
23:00							
24:00							

Internet Access Time

[Cancel](#) [Reset](#) [OK](#)

5. Enter a **Description** for the entry. Keep the **Enable This Entry** checkbox available. Click **OK**.

Devices Under Parental Controls

+ Add - Delete

<input type="checkbox"/>	ID	Device Name	MAC Address	Internet Access Time	Description	Status	Modify
--	--	--	--	--	--	--	--

Device Name:  [View Existing Devices](#)

MAC Address:

Internet Access Time:

Description:  (Optional)

Enable This Entry

6. Select the restriction policy.

- 1) In **Blacklist** mode, the controlled devices cannot access any websites containing the specified keywords during the Internet Access Time period.
- 2) In **Whitelist** mode, the controlled devices can only access websites containing the specified keywords during the Internet Access Time period.

Content Restriction

Restriction Policy:  Blacklist  Whitelist

+ Add a New Keyword to Block

7. Click **+ Add a new keyword to Block**. You can add up to 32 keywords for either Blacklist or Whitelist. Below are some sample entries to allow access.

- 1) Enter a web address (e.g. wikipedia.org) or a web address keyword (e.g. wikipedia) to only allow or block access to the websites containing that keyword.
- 2) Specify the domain suffix (eg. .edu or .org) to allow access only to the websites with that suffix.
- 3) If you wish to block all Internet browsing access, do not add any keyword to the **Whitelist**.

8. Enter a keyword or a website and click **Save**.

### Content Restriction

Restriction Policy:  Blacklist  Whitelist

+ Add a New Domain Name to Access

wikipedia.org -

Save

**Done!**

Now you can control your children's Internet access according to your needs.

## Chapter 8

---

# QoS

---

This chapter introduces how to create a QoS rule to specify prioritization of traffic and minimize the impact caused when the connection is under heavy load.

This chapter contains the following sections:

- *Prioritize Internet Traffic with Quality of Service*
- *Update the Database*

## 8. 1. Prioritize Internet Traffic with Quality of Service

QoS (Quality of Service), is designed to ensure the efficient operation of the network when the network overload or congestion.

### I want to:

Specify priority levels for some devices or applications.

**For example**, I have several devices that are connected to my wireless network. I would like to:

- Set my ftp server with faster surfing speed;
- Set my phone an intermediate speed on the Internet;
- Set the WIFI-GUEST with slower surfing speed.

### How can I do that?

1. Enable QoS and set bandwidth allocation.

- 1) Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
- 2) Go to **Advanced** > **QoS** > **Settings**.
- 3) Select the **Enable QoS** checkbox.
- 4) Input the maximum upload and download bandwidth provided by your service provider. 1Mbps is equal to 1000Kbps.
- 5) Click **Advanced** to display the priority setting scrolling bar.
- 6) Drag the scroll bar to set the bandwidth priority percentage.

#### Note:

Add each priority up no more than 100%. High priority is greater than Middle priority, and middle priority is greater than Low priority.

7) Click **Save**.

The screenshot shows the QoS configuration interface. At the top, there is a 'QoS' title and a help icon. Below it, the 'QoS' section has a checked 'Enable QoS' checkbox. Underneath, 'Upload Bandwidth' and 'Download Bandwidth' are both set to '100' with a unit dropdown menu set to 'Mbps'. An 'Advanced' section is expanded, showing three sliders for priority levels: 'High Priority' is set to 60%, 'Middle Priority' is set to 30%, and 'Low Priority' is set to 10%. A green 'Save' button is located at the bottom right of the configuration area.

2. Add QoS Rules.

**Tips:**

In the QoS Rule List field, displays three priority. In the QoS rule field, displays three rule type include [By device](#), [By application](#) and [By physical port](#).

QoS Rule List

High Priority:60%	Middle Priority:30%	Low Priority:10%
<a href="#">Add</a>	<a href="#">Add</a>	<a href="#">Add</a>

QoS Rule

Type:  By Device  By Application  By Physical Port

1) Set a high priority rule for the ftp server.

a. Select [By Application](#) and then select [ftp](#) in the list. Click [OK](#).

QoS Rule

Type:  By Device  By Application  By Physical Port

Application

<input type="checkbox"/> SSH	<input type="checkbox"/> BT	<input type="checkbox"/> HTTPS
<input type="checkbox"/> Telnet	<input type="checkbox"/> Emule	<input type="checkbox"/> SMTP
<input type="checkbox"/> VPN	<input type="checkbox"/> Facebook	<input type="checkbox"/> POP3
<input type="checkbox"/> DNS	<input type="checkbox"/> Vonage	<input checked="" type="checkbox"/> FTP
<input type="checkbox"/> ICMP	<input type="checkbox"/> netTalk	<input type="checkbox"/> PPTP
<input type="checkbox"/> NNTP	<input type="checkbox"/> iTalkBB	<input type="checkbox"/> L2TP
<input type="checkbox"/> MSN	<input type="checkbox"/> GTalk	<input type="checkbox"/> IPsec
<input type="checkbox"/> Skype	<input type="checkbox"/> HTTP	<input type="checkbox"/> Whatsapp

Custom Application >

[Cancel](#) [OK](#)

**Tips:**

If your application isn't listed on the screen, click [Custom Application](#) to add application manually.

Custom Application

Name:

Protocol:

Port:  (XX or XX-XX, 1-65535, at most 5 pairs)

- **Name:** Enter a name for your application.
- **Protocol:** Select the protocol for your application, if you are not sure, select ALL.
- **Port:** Enter the destination port for your application, usually each application has a fixed port, please ensure you enter the correct port. In this case, the destination port for ftp is 21.

## 2) Set a middle priority rule for the phone.

- Select **By Device** and then click **View Existing Devices**.

QoS Rule

Type:  By Device  By Application  By Physical Port

Device Name:

MAC Address:

- Choose the respective device from the list.

Access Devices List

ID	Device Name	IP Address	MAC Address	Operation
1	UNKNOWN	192.168.0.64	00-0A-EB-00-13-01	Choose
2	UNKNOWN	192.168.0.200	50-E5-49-1E-06-80	Choose
3	MYSHARE	192.168.0.4	00-0A-EB-13-01-02	Choose
4	ARCHER_020	192.168.0.20	40-16-9F-BF-51-0C	Choose

- Click **OK**.

QoS Rule

Type:  By Device  By Application  By Physical Port

Device Name:  [View Existing Devices](#)

MAC Address:

[Cancel](#) [OK](#)

3) Set a low priority rule for the WIFI-GUEST.

a. Select **By Physical Port** and then select **WIFI-HOST**. Click **OK**.

QoS Rule

Type:  By Device  By Application  By Physical Port

Port:  LAN1  LAN2  LAN3  
 LAN4  WIFI-HOST  WIFI-GUEST

[Cancel](#) [OK](#)

4) The QoS rules list will display in the table.

QoS Rule List

High Priority:60%	Middle Priority:30%	Low Priority:10%
FTP	...	WIFI-GUEST
<a href="#">Add</a>	<a href="#">Add</a>	<a href="#">Add</a>

**Tips:**

If you want to delete a QoS rule, click to remove the responding rule from the list.

**Done!**

Now QoS is implemented to Prioritize Internet Traffic.

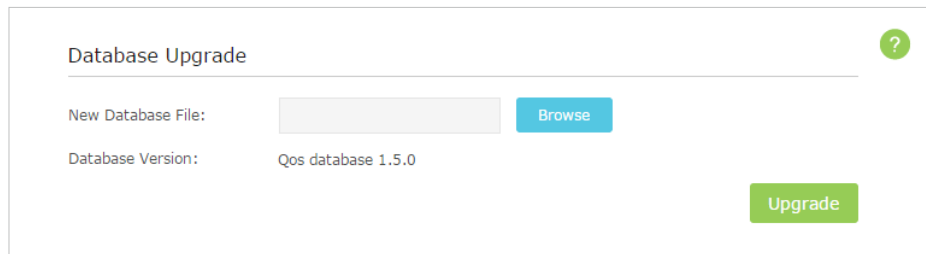
## 8.2. Update the Database

This function can help to add or update the applications of the router support. If the applications you need are not listed in the Application list, you can try to download the



new version and upgrade. New database versions are posted at [www.tp-link.com](http://www.tp-link.com) and can be downloaded for free.

1. Download the latest QoS database from our website ([www.tp-link.com](http://www.tp-link.com)).
2. Go to [Advanced](#) > [QoS](#) > [Database](#). Click [Browse](#) to select the database upgrade file, then click [Upgrade](#). Wait until the upgrade is completed and do not operate during the process.



The screenshot shows a web interface titled "Database Upgrade" with a help icon (question mark) in the top right corner. Below the title, there is a section for "New Database File:" which includes a text input field and a blue "Browse" button. Below that, the "Database Version:" is displayed as "Qos database 1.5.0". At the bottom right of the form, there is a green "Upgrade" button.

## Chapter 9

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# Network Security

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This chapter guides you on how to protect your home network from cyber attacks and unauthorized users by implementing these three network security functions. You can protect your home network against DoS (Denial of Service) attacks from flooding your network with server requests using DoS Protection, block or allow specific client devices to access your network using Access Control, or you can prevent ARP spoofing and ARP attacks using IP & MAC Binding function.

This chapter contains the following sections:

- *Protect the Network from Cyber Attacks*
- *Access Control*
- *IP & MAC Binding*

## 9.1. Protect the Network from Cyber Attacks

The SPI (Stateful Packet Inspection) Firewall and DoS (Denial of Service) Protection protect the router from cyber attacks.

The SPI Firewall can prevent cyber attacks and validate the traffic that is passing through the router based on the protocol. This function is enabled by default, and it's recommended to keep the default setting.

DoS Protection can protect your home network against DoS attacks from flooding your network with server requests. Follow the steps below to configure DoS Protection.

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Advanced > Security > Settings](#).

### DoS Protection

---

DoS Protection:  On

ICMP-FLOOD Attack Filtering: Off ▼

UDP-FLOOD Attack Filtering: Off ▼

TCP-SYN-FLOOD Attack Filtering: Off ▼

Ignore Ping Packet From WAN Port

Forbid Ping Packet From LAN Port

[Save](#)

---

### Blocked DoS Host List

Host Number: 0 [Refresh](#) [Delete](#)

<input type="checkbox"/>	ID	IP Address	MAC Address
--	--	--	--

3. Enable **DoS Protection**.
4. Set the level (**Off**, **Low**, **Middle** or **High**) of protection for **ICMP-FLOOD Attack Filtering**, **UDP-FLOOD Attack Filtering** and **TCP-SYN-FLOOD Attack Filtering**.
  - **ICMP-FLOOD Attack Filtering** - Enable to prevent the Internet Control Message Protocol (ICMP) flood attack.
  - **UDP-FLOOD Attack Filtering** - Enable to prevent the User Datagram Protocol (UDP) flood attack.
  - **TCP-SYN-FLOOD Attack Filtering** - Enable to prevent the Transmission Control Protocol-Synchronize (TCP-SYN) flood attack.

 **Tips:**

The level of protection is based on the traffic packets number. The protection will be triggered immediately when the number of packets exceeds the preset threshold value (the value can be set on [Advanced > System Tools > System Parameters > DoS Protection Level Settings](#)), and the vicious host will be displayed in the [Blocked DoS Host List](#).

5. Select [Ignore Ping Packet From WAN Port](#) if you want to ignore the ping packets from WAN port.
6. Select [Forbid Ping Packet From LAN Port](#) if you want to ignore the ping packets from LAN port.
7. Click [Save](#) to make the settings effective.

## 9.2. 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 a list of allowed devices (Whitelist).

**I want to:** Block or allow specific client devices to access my network (via wired or wireless).

**How can I do that?**

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Advanced > Security > Access Control](#).

Access Control
?

---

Access Control: On

---

Access Mode

Default Access Mode:  Blacklist  Whitelist

Save

---

Devices Online

↻ Refresh
🚫 Block

<input type="checkbox"/>	ID	Device Name	IP Address	MAC Address	Connection Type	Modify
<input type="checkbox"/>	1	UNKNOWN	192.168.0.28	00-0A-EB-13-23-94	Wired	<span style="color: green; font-weight: bold;">🚫</span>
<input type="checkbox"/>	2	UNKNOWN	192.168.0.155	00-14-78-43-45-45	Wired	<span style="color: green; font-weight: bold;">🚫</span>
<input type="checkbox"/>	3	ARCHER_D20	192.168.0.20	40-16-9F-BF-51-0C	Wired	<span style="color: green; font-weight: bold;">🚫</span>
--	4	UNKNOWN	192.168.0.200	50-E5-49-1E-06-80	Wired	<span style="color: gray; font-weight: bold;">🚫</span>
<input type="checkbox"/>	5	UNKNOWN	192.168.0.133	00-0A-EB-14-7B-00	Wired	<span style="color: green; font-weight: bold;">🚫</span>

---

Devices in Blacklist

➕ Add
➖ Delete

<input type="checkbox"/>	ID	Device Name	MAC Address	Modify
--	--	--	--	--

### 3. Enable [Access Control](#).

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

#### To block specific device(s)

- 1) Select [Blacklist](#) and click [Save](#).
- 2) Select the device(s) to be blocked in the [Devices Online](#) table.
- 3) Click [Block](#) above the [Devices Online](#) table. The selected devices will be added to [Devices in Blacklist](#) automatically.

#### To allow specific device(s)

- 1) Select [Whitelist](#) and click [Save](#).
- 2) Click [Add](#).

Devices in Whitelist

+ Add - Delete

<input type="checkbox"/>	ID	Device Name	MAC Address	Modify
--	--	--	--	--

Device Name:

MAC Address:

<input type="checkbox"/>	1	UNKNOWN	00-0A-EB-14-7B-00	<input type="checkbox"/> <input type="checkbox"/>
--	2	UNKNOWN	50-E5-49-1E-06-80	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	3	ARCHER_D20	40-16-9F-BF-51-0C	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	4	UNKNOWN	00-14-78-43-45-45	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	5	UNKNOWN	00-0A-EB-13-23-94	<input type="checkbox"/> <input type="checkbox"/>

3) Enter the **Device Name** and **MAC Address** (You can copy and paste the information from the following list if the device is connected to your network).

4) Click **OK**.

**Done!**

Now you can block or allow specific client devices to access your network (via wired or wireless) using the **Blacklist** or **Whitelist**.

### 9.3. IP & MAC Binding

IP & MAC Binding, namely, ARP (Address Resolution Protocol) Binding, is used to bind network device's IP address to its MAC address. This will prevent ARP Spoofing and other ARP attacks by denying network access to an device with matching IP address in the Binding list, but unrecognized MAC address.

**I want to:**

Prevent ARP spoofing and ARP attacks.

**How can I do that?**

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **Advanced > Security > IP & MAC Binding**.
3. Enable **IP & MAC Binding**.

Settings ?

ARP Binding:  On

ARP List

ARP Entry Number: 5 Refresh

ID	MAC Address	IP Address	Bound	Modify
1	00-0A-EB-13-23-94	192.168.0.28	Unbound	
2	00-14-78-43-45-45	192.168.0.155	Unbound	
3	40-16-9F-BF-51-0C	192.168.0.20	Unbound	
4	50-E5-49-1E-06-80	192.168.0.200	Unbound	
5	00-0A-EB-14-7B-00	192.168.0.133	Unbound	

Binding List + Add - Delete

<input type="checkbox"/>	ID	MAC Address	IP Address	Description	Status	Modify
--	--	--	--	--	--	--

#### 4. Bind your device(s) according to your need.

##### To bind the connected device(s)

- 1) Select the device(s) to be bound in the [ARP List](#).
- 2) Click to add to the [Binding List](#).

##### To bind the unconnected device

- 1) Click [Add](#).

Binding List + Add - Delete

<input type="checkbox"/>	ID	MAC Address	IP Address	Description	Status	Modify
--	--	--	--	--	--	--

MAC Address:

IP Address:

Description:  (Optional)

Enable This Entry

- 2) Enter the [MAC address](#) and [IP address](#) that you want to bind.

- 3) Select the checkbox to enable the entry and click [OK](#).

**Done!**

Now you don't need to worry about ARP spoofing and ARP attacks.

## Chapter 10

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# NAT Forwarding

---

Router's NAT (Network Address Translation) feature makes the devices in the LAN use the same public IP address to communicate in the Internet, which protect the local network by hiding IP addresses of the devices. However, it also brings about the problem that external host cannot initiatively communicate with the specified device in the local network.

With forwarding feature the router can penetrate the isolation of NAT and allows the external hosts in the Internet to initiatively communicate with the devices in the local network, thus to realize some special functions.

TP-LINK router includes four forwarding rules. If two or more rules are set, the priority of implementation from high to low is Virtual Servers, Port Triggering, UPNP and DMZ.

This chapter contains the following sections:

- *Share Local Resources in the Internet by Virtual Server*
- *Open Ports Dynamically by Port Triggering*
- *Make Applications Free from Port Restriction by DMZ*
- *Make Xbox Online Games Run Smoothly by UPnP*



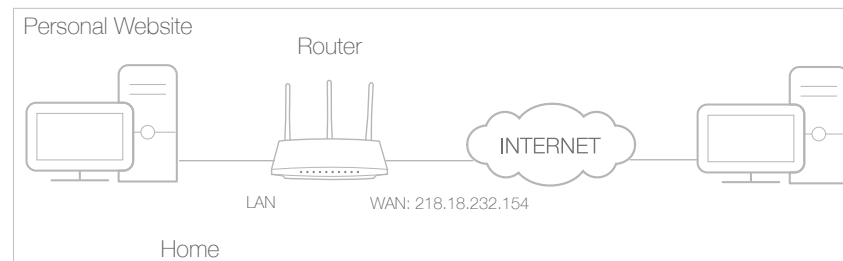
## 10.1. Share Local Resources in the Internet by Virtual Server

When you build up a server in the local network and want to share it on the Internet, Virtual Server can realize the service and provide it to the Internet users. At the same time virtual server can keep the local network safe as other services are still invisible from the Internet.

Virtual server can be used for setting up public services in your local network, such as HTTP, FTP, DNS, POP3/SMTP and Telnet. Different service uses different service port. Port 80 is used in HTTP service, port 21 in FTP service, port 25 in SMTP service and port 110 in POP3 service. Please verify the service port number before the configuration.

**I want to:** Share my personal website I've built in local network with my friends through the Internet.

**For example,** the personal website has been built in my home PC (192.168.0.100). I hope that my friends in the Internet can visit my website in some way. The PC is connected to the router with the WAN IP address 218.18.232.154.



**How can I do that?**

1. Assign a static IP address to your PC, for example 192.168.0.100.
2. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
3. Go to [Advanced](#) > [NAT Forwarding](#) > [Virtual Servers](#), click [Add](#).
4. Click [View Existing Services](#), and select [HTTP](#). The external port, internal port and protocol will be automatically filled with contents. Enter the PC's IP address 192.168.0.100 in the [Internal IP](#) field.
5. Click [OK](#) to save the settings.

Virtual Servers

+ Add - Delete

ID	Service Type	External Port	Internal IP	Internal Port	Protocol	Status	Modify
--	--	--	--	--	--	--	--

Service Type: HTTP [View Existing Services](#)

External Port: 80 (XX-XX or XX)

Internal IP: 192.168.0.100

Internal Port: 80 (XX or Blank ,1-65535)

Protocol: TCP

Enable This Entry

Cancel OK

**Tips:**

1. It is recommended to keep the default settings of **Internal Port** and **Protocol** if you are not clear about which port and protocol to use.
2. If the service you want to use is not in the **Service Type**, you can enter the corresponding parameters manually. You should verify the port number that the service need.
3. You can add multiple virtual server rules if you want to provide several services in a router. Please note that the **External Port** should not be overlapped.

**Done!**

Users in the Internet can enter [http:// WAN IP](http://WAN IP) (in this example: [http:// 218.18.232.154](http://218.18.232.154)) to visit your personal website.

**Tips:**

1. WAN IP should be a public IP address. For the WAN IP is assigned dynamically by ISP, it is recommended to apply and register a domain name for the WAN refer to [11.4. Set Up a Dynamic DNS Service Account](#). Then you can use [http:// domain name](http://domain name) to visit the website.
2. If you have changed the default **External Port**, you should use [http:// WAN IP: External Port](http://WAN IP: External Port) or [http:// domain name: External Port](http://domain name: External Port) to visit the website.

## 10.2. Open Ports Dynamically by Port Triggering

Port triggering can specify a triggering port and its corresponding external ports. When a host in the local network initiates a connection to the triggering port, all the external ports will be opened for subsequent connections. The router can record the IP address of the host. When the data from the Internet return to the external ports, the router can forward them to the corresponding host. Port triggering is mainly applied to online games, VoIPs and video players. Common applications include MSN Gaming Zone, Dialpad and Quick Time 4 players, etc.

Follow the steps below to configure the port triggering rules:

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to *Advanced* > *NAT Forwarding* > *Port Triggering* and click *Add*.
3. Click *View Existing Applications*, and select the desired application. The external port, internal port and protocol will be automatically filled with contents. The following picture takes application *MSN Gaming Zone* as an example.
4. Click *OK* to save the settings.

Port Triggering

+ Add - Delete

<input type="checkbox"/>	ID	Application	Triggering Port	Triggering Protocol	External Port	External Protocol	Status	Modify
--	--	--	--	--	--	--	--	--

Application: MSN Gaming Zone [View Existing Applications](#)

Triggering Port: 47624 (XX,1-65535)

Triggering Protocol: ALL

External Port: 2300-2400,28800-29000 (XX or XX-XX,1-65535,at most 5 pairs)

External Protocol: ALL

Enable This Entry

Cancel OK

#### 📌 Tips:

1. You can add multiple port triggering rules according to your network need.
2. The triggering ports can not be overlapped.
3. If the application you need is not listed in the Existing Applications list, please enter the parameters manually. You should verify the external ports the application uses first and enter them into External Port field according to the format the page displays.

## 10.3. Make Applications Free from Port Restriction by DMZ

When a PC is set to be a DMZ (Demilitarized Zone) host in the local network, it is totally exposed to the Internet, which can realize the unlimited bidirectional communication between internal hosts and external hosts. The DMZ host becomes a virtual server with all ports opened. When you are not clear about which ports to open in some special applications, such as IP camera and database software, you can set the PC to be a DMZ host.

#### 📌 Note:

DMZ is more applicable in the situation that users are not clear about which ports to open. When it is enabled, the DMZ host is totally exposed to the Internet, which may bring some potential safety hazard. If DMZ is not in use, please disable it in time.

**I want to:** Make the home PC join the Internet online game without port restriction.

**For example,** due to some port restriction, when playing the online games, you can login normally but cannot join a team with other players. To solve this problem, set your PC as a DMZ with all ports opened.

**How can I do that?**

1. Assign a static IP address to your PC, for example 192.168.0.100.
2. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
3. Go to *Advanced* > *NAT Forwarding* > *DMZ* and select the checkbox to enable DMZ.

4. Enter the IP address 192.168.0.100 in the *DMZ Host IP Address* field.
5. Click *Save* to save the settings.

**Done!**

The configuration is completed. You've set your PC to a DMZ host and now you can make a team to game with other players.

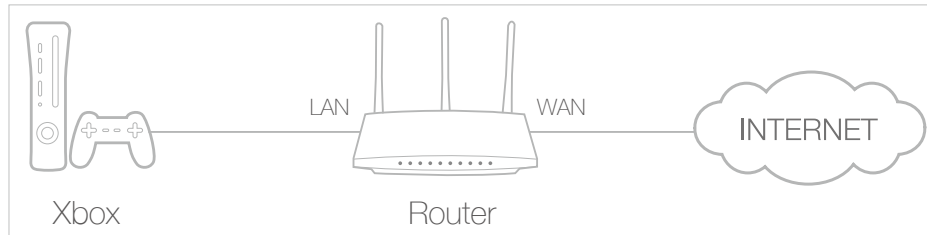
## 10.4. Make Xbox Online Games Run Smoothly by UPnP

UPnP (Universal Plug and Play) protocol allows the applications or host devices to automatically find the front-end NAT device and send request to it to open the corresponding ports. With UPnP enabled, the applications or host devices in the both sides of NAT device can freely communicate with each other realizing the seamless connection of the network. You may need to enable the UPnP if you want to use applications for multiplayer gaming, peer-to-peer connections, real-time communication (such as VoIP or telephone conference) or remote assistance, etc.

**Tips:**

1. UPnP is enabled by default in this router.
2. Only the application supporting UPnP protocol can use this feature.
3. UPnP feature needs the support of operating system (e.g. Windows Vista/ Windows 7/ Windows 8, etc. Some of operating system need to install the UPnP components).

For example, when you connect your Xbox to the router which has connected to the Internet to play online games, UPnP will send request to the router to open the corresponding ports allowing the following data penetrating the NAT to transmit. Therefore, you can play Xbox online games without a hitch.



If necessary, you can follow the steps to change the status of UPnP.

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router;
2. Go to *Advanced* > *NAT Forwarding* > *UPnP* and toggle on or off according to your needs.

UPnP ?

---

UPnP:  On

UPnP Service List

Client Number: 0 Refresh

ID	Service Description	External Port	Protocol	Internal IP Address	Internal Port
--	--	--	--	--	--

## Chapter 11

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# Customize Your Network Settings

---

This chapter guides you on how to configure advanced networking features that are available for this router.

This chapter contains the following sections:

- *Change the LAN Settings*
- *Configure to Support IPTV Service*
- *Specify DHCP Server Settings*
- *Set Up a Dynamic DNS Service Account*
- *Create Static Routes*
- *Specify Wireless Settings*
- *Use WPS for Wireless Connection*

## 11.1. Change the LAN Settings

The router is preset with a default LAN IP 192.168.0.1, which you can use to log in to its web-based management page. The LAN IP address together with the Subnet Mask also defines the subnet that the connected devices are on. If the IP address conflicts with another device on your local network or your network requires a specific IP subnet, you can change it.

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Advanced](#) > [Network](#) > [LAN](#) page.
3. Type in a new IP Address appropriate to your needs.

The screenshot shows the LAN configuration page. At the top left is the title 'LAN' and a green help icon. Below it, the MAC Address is displayed as 00-0A-EB-0C-26-42. The IP Address field contains 192.168.0.1. The Subnet Mask field contains 255.255.255.0. A green 'Save' button is located at the bottom right of the form.

4. Leave the [Subnet Mask](#) as the default settings.
5. Click [Save](#).

**Note:**

If you have set the Virtual Server, DMZ or DHCP address reservation, and the new LAN IP address is not in the same subnet with the old one, then you should reconfigure them.

## 11.2. Configure to Support IPTV Service

**I want to:** Configure IPTV setup to enable Internet /IPTV /Phone service provided by my Internet Service Provider (ISP).

**How can I do that?**

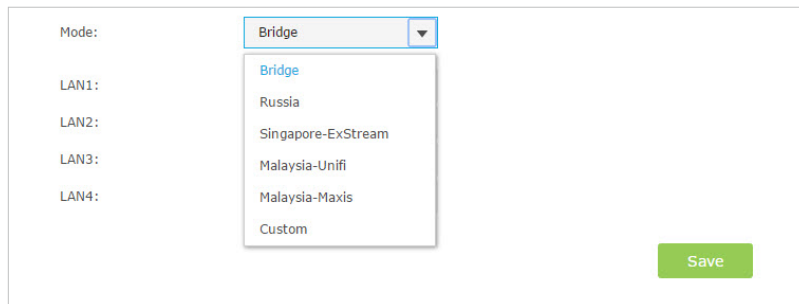
1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Advanced](#) > [Network](#) > [IPTV](#) to open the configuration page.
3. **If your ISP provide the networking service based on IGMP technology**, e.g., British Telecom(BT) and Talk Talk in UK:
  - 1) Select the [IGMP Proxy](#) checkbox and select the [IGMP Version](#), either V2 or V3, according to information provided by your ISP.



- 2) Click [Save](#).
- 3) After configuring IGMP proxy, IPTV can work behind your router now. You can connect your set-top box to any of the router's LAN port.

**If IGMP is not the technology your ISP apply to provide IPTV service:**

- 1) Select the [Enable IPTV](#) check box.
- 2) Select the appropriate [Mode](#) according to your ISP. Select [Bridge](#) if your ISP is not listed and no other parameters are required, and then skip to Step 4. Select [Custom](#) if your ISP is not listed but provides necessary parameters.



- 3) After you have selected a mode, the necessary parameters are predetermined. You can perform other configuration, e.g. enter the [IPTV Multicast VLAN ID](#) and select the [IPTV Multicast VLAN Priority](#) in [Russia](#) mode according to your ISP.
- 4) For [Russia](#), [Singapore-ExStream](#), [Malaysia-Unifi](#) and [Malaysia-Maxis](#) mode, connect device to the predetermined LAN port. For [Bridge](#) and [Custom](#) mode, select the [LAN](#) type and connect the set-top box to the corresponding port.
- 5) Click [Save](#).

**Done!**

Your IPTV setup is done now! You may need other configurations on your set-top box before enjoying your TV.

[Tips](#)

Qos and IPTV cannot be enabled at the same time.



## 11.3. Specify DHCP Server Settings

By default, the DHCP (Dynamic Host Configuration Protocol) Server is enabled and the router acts as a DHCP server; it dynamically assigns TCP/IP parameters to client devices from the IP Address Pool. You can change the settings of DHCP Server if necessary, and you can reserve LAN IP address for specified client device.

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Advanced](#) > [Network](#) > [DHCP Server](#).

### Settings

DHCP Server:  Enable DHCP Server

IP Address Pool:  -

Address Lease Time:  minutes. (2-2880. The default value is 120.)

Default Gateway:  (Optional)

Primary DNS:  (Optional)

Secondary DNS:  (Optional)

[Save](#)

---

### Address Reservation

[+ Add](#) [- Delete](#)

<input type="checkbox"/>	ID	MAC Address	Reserved IP Address	Description	Status	Modify
<input type="checkbox"/>	--	--	--	--	--	--

---

### DHCP Client List

Client Number: 0 [Refresh](#)

ID	Client Name	MAC Address	Assigned IP Address	Lease Time
--	--	--	--	--

➤ **To specify the IP address that the router assigns:**

1. Make sure that the [Enable DHCP Server](#) checkbox is selected.
2. Enter the starting and ending IP address in the [IP Address Pool](#).
3. Enter other parameters if the ISP offers, the Default Gateway is automatically filled the same as the LAN IP address of the router.
4. Click [Save](#) to make the settings effective.

➤ **To reserve an IP address for a specified client device:**

1. Click the [Add](#) button.

Address Reservation

+ Add - Delete

<input type="checkbox"/>	ID	MAC Address	Reserved IP Address	Description	Status	Modify
<input type="checkbox"/>	--	--	--	--	--	--

MAC Address:  [View Existing Devices](#)

IP Address:

Description:

Enable This Entry

Cancel OK

2. Click [View Existing Devices](#) or enter the [MAC address](#) of the client device.
3. Enter the [IP address](#) to set to the client device.
4. Enter the [Description](#) for the rule.
5. Select the [Enable This Entry](#) checkbox.
6. Click [OK](#).

The IP address reservation is configured successfully, and you can see the rule shown as below.

Address Reservation

+ Add - Delete

<input type="checkbox"/>	ID	MAC Address	Reserved IP Address	Description	Status	Modify
<input type="checkbox"/>	1	74-D4-39-24-DA-E4	192.168.0.100	ingrid	💡	✏️ 🗑️

## 11.4. Set Up a Dynamic DNS Service Account

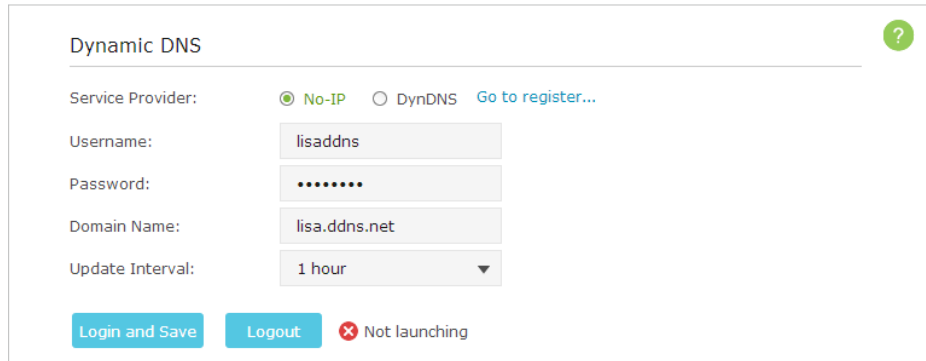
Most ISPs (Internet service providers) assign a dynamic IP address to the router and you can use this IP address to access your router remotely. However, the IP address can change any time and you don't know when it changes. In this case, you might need the DDNS (Dynamic Domain Name Server) feature on the router to allow you and your friends to access your router and local servers (FTP, HTTP, etc.) using domain name, in no need of checking and remembering the IP address.

**Note:**

DDNS does not work if the ISP assigns a private WAN IP address (such as 192.168.1.x) to the router.

To set up DDNS, please follow the instructions below:

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Advanced](#) > [Network](#) > [Dynamic DNS](#).
3. Select the [DDNS service provider](#) (NO-IP or DynDNS). If you don't have a DDNS account, select a service provider and click [Go to register](#).



4. Enter the username, password and domain name of the account (such as lisadns.ddns.net).
5. Click [Login and Save](#).

**Tips:**

If you want to use a new DDNS account, please [Logout](#) first, then login with the new account.

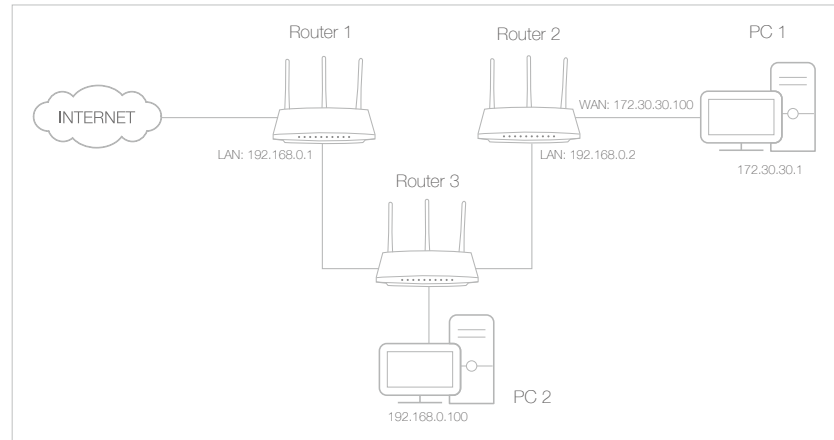
## 11.5. Create Static Routes

Static routing is a form of routing that is configured manually by a network administrator or a user by adding entries into a routing table. The manually-configured routing information guides the router in forwarding data packets to the specific destination.

**I want to:**

Visit multiple networks and multiple servers at the same time.

[For example](#), in a small office, my PC can surf the Internet, but I also want to visit my company's network. Now I have a switch and another router. I connect the devices as shown in the following figure so that the physical connection between my PC and my company's server is achieved. To surf the Internet and visit my company's network at the same time, I need to configure the static routing.



## How can I do that?

1. Change the router's LAN IP addresses to two different IP addresses on the same subnet. Disable Router 2's DHCP function.
2. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
3. Go to *Network > Advanced Routing*.
4. Click **Add** to add a new static routing entry.

Static Routing ?

**+ Add** **- Delete**

<input type="checkbox"/>	ID	Network Destination	Subnet Mask	Default Gateway	Interface	Description	Status	Modify
--	--	--	--	--	--	--	--	--

5. Finish the settings according to the following explanations:

Network Destination:

Subnet Mask:

Default Gateway:

Interface:

Description:

Enable This Entry

**Cancel** **OK**

**Network Destination:** The destination IP address that you want to assign to a static route. This IP address cannot be on the same subnet with the WAN IP or LAN IP of the router. In the example, the IP address of the company network is the destination IP

address, so here enters 172.30.30.1.

**Subnet Mask:** Determines the destination network with the destination IP address. If the destination is a single IP address, enter 255.255.255.255; otherwise, enter the subnet mask of the corresponding network IP. In the example, the destination network is a single IP, so here enters 255.255.255.255.

**Default Gateway:** The IP address of the gateway device to which the data packets will be sent. This IP address must be on the same subnet with the router's IP which sends out the data. In the example, the data packets will be sent to the LAN port of Router 2 and then to the Server, so the default gateway should be 192.168.0.2.

**Interface:** Determined by the port (WAN/LAN) that sends out the data packets. In the example, the data is sent to the gateway through the LAN port, so LAN should be selected.

**Description:** Enter a description for this static routing entry.

6. Click **OK** to save the settings.

ID	Network Destination	Subnet Mask	Default Gateway	Interface	Description	Status	Modify
1	172.30.30.1	255.255.255.255	192.168.0.2	LAN	company's network		

7. Check the **System Routing Table** below. If you can find the entry you set in the **System Routing Table**, the static routing is set successfully.

ID	Destination Network	Subnet Mask	Gateway	Interface
1	0.0.0.0	0.0.0.0	192.168.1.1	wan
2	172.30.30.1	255.255.255.255	192.168.0.2	lan
3	192.168.0.0	255.255.255.0	0.0.0.0	lan
4	192.168.0.2	255.255.255.255	0.0.0.0	lan
5	192.168.1.0	255.255.255.0	0.0.0.0	wan

**Done!**

Open a web browser on your PC. Enter the company server's IP address to visit the company network.

## 11.6. Specify Wireless Settings

The router's wireless network name (SSID) and password, and security option are preset in the factory. The preset SSID and password can be found on the product label. You can customize the wireless settings according to your needs.

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to *Basic* > *Wireless*.

### ➤ To enable or disable the wireless function of 2.4GHz or 5GHz:

The wireless radio is enabled by default, if you want to disable the wireless function of the router, just clear the [Enable Wireless Radio](#) checkbox. In this case, all the wireless settings will be invalid.

### ➤ To change the wireless network name (SSID) and wireless password of 2.4GHz or 5GHz:

Create a new SSID in [Wireless Network Name \(SSID\)](#) and customize the password for the network in [Password](#). The default SSID is TP-LINK\_XXXX for 2.4GHz, TP-LINK\_XXXX\_5G for 5GHz, and the value is case-sensitive.

#### ■ Note:

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

### ➤ To hide SSID of 2.4GHz or 5GHz:

Select [Hide SSID](#), and your SSID will not broadcast. Your SSID won't display when you scan for local wireless network list on your wireless device and you need to manually join the network.

### ➤ To change the working region for the router:

1. Go to *Advanced* > *Wireless* > *Wireless Settings*.
2. Select the [Region](#) from the drop-down list and click [Save](#).

■ Note: Per FCC regulations, all Wi-Fi products marketed in the U.S. is locked to the U.S. region.

➤ **To change the security option:**

1. Go to [Advanced](#) > [Wireless](#) > [Wireless Settings](#).
2. Select the wireless network [2.4GHz](#) or [5GHz](#).
3. Select an option from the [Security](#) dropdown list. The router provides four security options, No Security, WPA/WPA2 - Personal (Recommended), WPA/WPA2 - Enterprise and WEP. We recommend you don't change the default settings unless necessary. If you select other options, configure the related parameters according to the help page.

**In addition**

- **Mode** - Select a transmission mode according to your wireless client devices. [802.11b/g/n mixed](#), [802.11g/n mixed](#) or [802.11n only](#) for [2.4GHz](#); and [802.11a/n/ac mixed](#), [802.11n/ac mixed](#) or [802.11ac only](#) for [5GHz](#). It is recommended to just leave it as default.
- **Channel Width** - Select a channel width (bandwidth) for the wireless network.
- **Channel** - 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.
- **Transmit Power** - Select either [High](#), [Middle](#) or [Low](#) to specify the data transmit power. The default and recommended setting is [High](#).

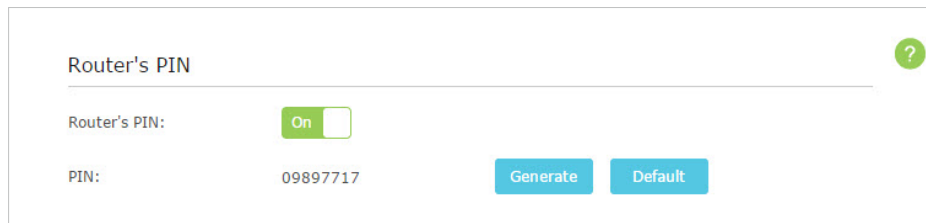
## 11.7. Use WPS for Wireless Connection

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

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Advanced](#) > [Wireless](#) > [WPS](#) .

### 11.7.1. Set the Router's PIN

Router's PIN is enabled by default to allow wireless devices to connect to the router using the PIN. You can use the default one or generate a new one.



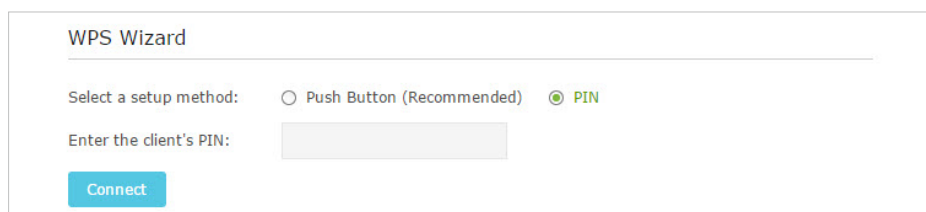
**Note:**

1. If you want to enable/disable the WPS feature, go to [System Tools](#) > [System Parameters](#) > [WPS](#), select or clear the Enable WPS check box.
2. PIN (Personal Identification Number) is an eight-character identification number preset to each router. WPS supported devices can connect to your router with the PIN. The default PIN is labeled on the bottom of the router.

### 11.7.2. Use the WPS Wizard for Wi-Fi Connections

1. Select a setup method:

- **Push Button(Recommended):** Click the [Connect](#) button on the screen. Within two minutes, push the WPS button on the client device.
- **PIN:** Enter the client's PIN, and click [Connect](#).



2. [Success](#) will appear on the above screen and the WPS LED on the router will keep on for five minutes if the client has been successfully added to the network.



## Chapter 12

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# Manage the Router

---

This chapter will show you the configuration for managing and maintaining your router.

This chapter includes the following sections:

- *Set Up System Time*
- *Test the Network Connectivity*
- *Upgrade the Firmware*
- *Backup and Restore Configuration Settings*
- *Change the Administrator Account*
- *Password Recovery*
- *Local Management*
- *Remote Management*
- *System Log*
- *Monitor the Internet Traffic Statistics*
- *Control LEDs*

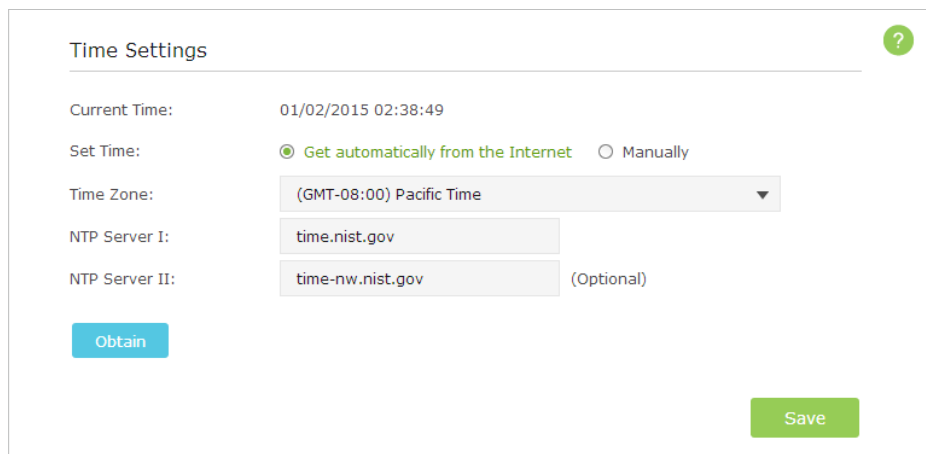
## 12. 1. Set Up System Time

System time is the time displayed while the router is running. The system time you configure here will be used for other time-based functions like Parental Controls. You can manually set how to get the system time.

Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router. Go to *Advanced* > *System Tools* > *Time Settings*.

➤ **To automatically synchronize the time:**

1. In the **Set Time** field, select **Get automatically from the Internet**.



The screenshot shows the 'Time Settings' page. At the top right is a green help icon. The 'Current Time' is 01/02/2015 02:38:49. The 'Set Time' section has two radio buttons: 'Get automatically from the Internet' (selected) and 'Manually'. The 'Time Zone' is a dropdown menu showing '(GMT-08:00) Pacific Time'. The 'NTP Server I' field contains 'time.nist.gov'. The 'NTP Server II' field contains 'time-nw.nist.gov' with '(Optional)' to its right. There is a blue 'Obtain' button and a green 'Save' button.

2. Select your local **Time Zone** from the drop-down menu.
3. In the **NTP Server I** field, enter the IP address or domain name of your desired NTP Server.
4. In the **NTP Server II** field, enter the IP address or domain name of the second NTP Server. (Optional)
5. Click **Obtain**.
6. Click **Save** to make the settings effective.

➤ **To manually set the date and time:**

1. In the **Set Time** field, select **Manually**.

2. Set the current **Date** (In **MM/DD/YYYY** format).
3. Set the current **Time** (In **HH/MM/SS** format).
4. Click **Save** to make the settings effective.

➤ **To set up Daylight Saving Time:**

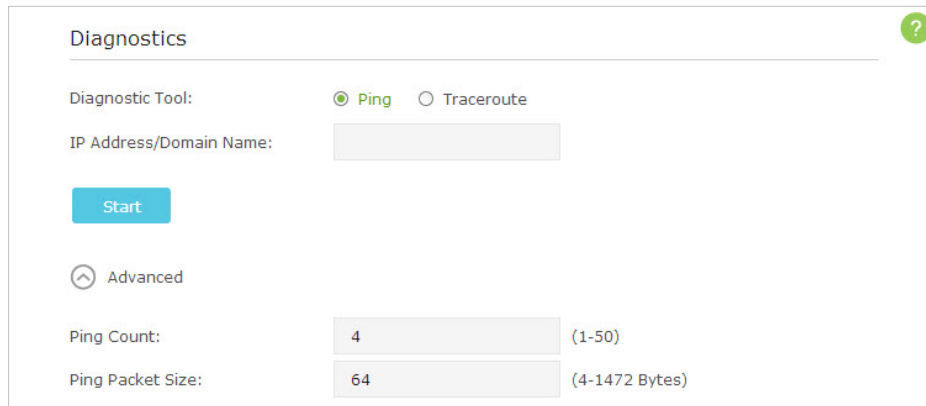
1. Select **Enable Daylight Saving Time**.

2. Select the correct **Start** date and time when daylight saving time starts at your local time zone.
3. Select the correct **End** date and time when daylight saving time ends at your local time zone.
4. Click **Save** to make the settings effective.

## 12.2. Test the Network Connectivity

Diagnostics is used to test the connectivity between the router and the host or other network devices.

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **Advanced > System Tools > Diagnostics**.



Diagnostics ?

Diagnostic Tool:  Ping  Traceroute

IP Address/Domain Name:

**Start**

Advanced

Ping Count:  (1-50)

Ping Packet Size:  (4-1472 Bytes)

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

- 1) Choose **Ping** or **Traceroute** as the diagnostic tool to test the connectivity;
  - **Ping** is used to test the connectivity between the router and the tested host, and measure the round-trip time.
  - **Traceroute** is used to display the route (path) your router has passed to reach the tested host, and measure transit delays of packets across an Internet Protocol network.
- 2) Enter the **IP Address** or **Domain Name** of the tested host.

### 4. Click **Start** to begin the diagnostics.

#### Tips:

Click **Advanced**, you can modify the ping count, ping packet size or the Traceroute Max TTL. It's recommended to keep the default value.

The figure below indicates the proper connection between the router and the Yahoo server (www.Yahoo.com) tested through **Ping**.

```

PING www.Yahoo.com (116.214.12.74): 64 data bytes
Reply from 116.214.12.74: bytes=64 ttl=50 seq=1 time=51.640 ms
Reply from 116.214.12.74: bytes=64 ttl=50 seq=2 time=53.671 ms
Reply from 116.214.12.74: bytes=64 ttl=50 seq=3 time=56.045 ms
Reply from 116.214.12.74: bytes=64 ttl=50 seq=4 time=57.857 ms

--- Ping Statistic "www.Yahoo.com" ---
Packets: Sent=4, Received=4, Lost=0 (0.00% loss)
Round-trip min/avg/max = 51.640/54.803/57.857 ms
  
```

The figure below indicates the proper connection between the router and the Yahoo server (www.Yahoo.com) tested through **Traceroute**.

```

traceroute to www.Yahoo.com (116.214.12.74), 20 hops max, 38 byte packets
 1 219.133.12.1 (219.133.12.1) 19.556 ms 22.274 ms 22.024 ms
 2 113.106.38.77 (113.106.38.77) 30.115 ms 22.649 ms 20.931 ms
 3 * * *
 4 183.56.65.14 (183.56.65.14) 26.210 ms 29.428 ms 28.272 ms
 5 * 202.97.60.25 (202.97.60.25) 29.272 ms 25.461 ms
 6 202.97.60.46 (202.97.60.46) 27.335 ms 27.616 ms 28.272 ms
 7 202.97.60.149 (202.97.60.149) 22.805 ms 24.024 ms 24.711 ms
 8 202.97.6.30 (202.97.6.30) 47.610 ms 54.452 ms 61.137 ms
 9 r4105-s2.tp.hinet.net (220.128.6.110) 51.171 ms 50.515 ms 56.107 ms
10 220.128.11.190 (220.128.11.190) 60.950 ms 60.200 ms 60.419 ms

```

## 12.3. Upgrade the Firmware

TP-LINK is dedicated to improving and enriching the product features, giving you 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](http://www.tp-link.com) and upgrade the firmware to the latest version.

### Note:

1. Make sure the latest firmware file is matched with the hardware version (as shown in the webpage).
2. Make sure that you have a stable connection between the router and your computer. It is NOT recommended to upgrade the firmware wirelessly.
3. Make sure you remove any USB storage device connected to the router before the firmware upgrade to prevent data loss.
4. Backup your router configuration.
5. Do NOT turn off the router during the firmware upgrade.

Follow the steps to upgrade the firmware.

1. Download the latest firmware file for the router from our website [www.tp-link.com](http://www.tp-link.com).
2. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
3. Go to [Advanced](#) > [System Tools](#) > [Firmware Upgrade](#).
4. Click [Browse](#) to locate the downloaded new firmware file, and click [Upgrade](#).

5. Wait a few moments for the upgrading and rebooting.

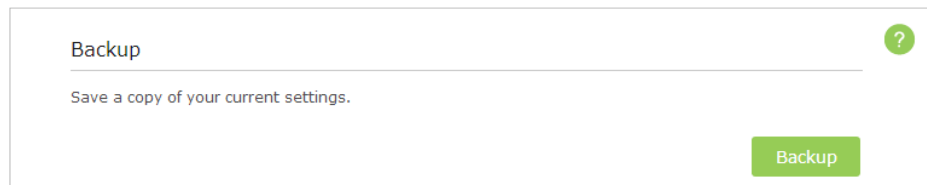
## 12.4. Backup and Restore Configuration Settings

The configuration settings are stored as a configuration file in the router. You can backup the configuration file to your computer for future use and restore the router to a previous settings from the backup file when needed. Moreover, if necessary you can erase the current settings and reset the router to the default factory settings.

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Advanced](#) > [System Tools](#) > [Backup & Restore](#).

### ➤ To backup configuration settings:

Click [Backup](#) to save a copy of the current settings to your local computer. A '.bin' file of the current settings will be stored to your computer.



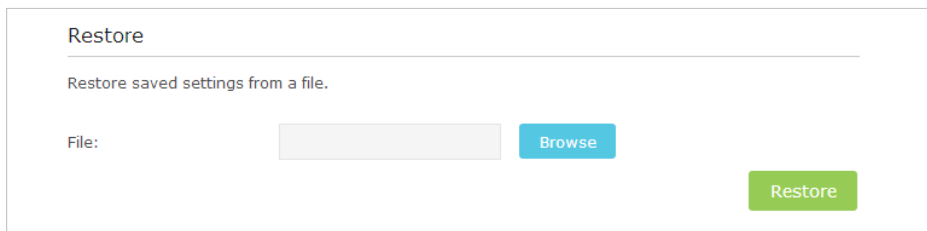
Backup

Save a copy of your current settings.

Backup

### ➤ To restore configuration settings:

1. Click [Browse](#) to locate the backup configuration file stored on your computer, and click [Restore](#).



Restore

Restore saved settings from a file.

File:  [Browse](#)

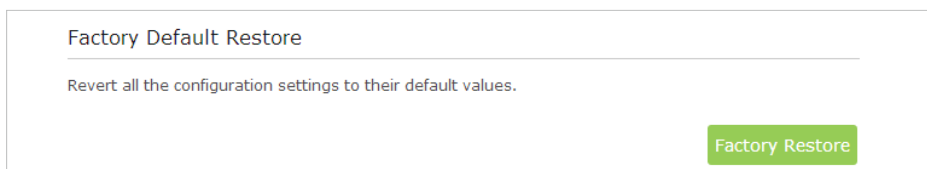
Restore

2. Wait a few moments for the restoring and rebooting.

**Note:** During the restoring process, do not turn off or reset the router.

### ➤ To reset the router to factory default settings:

1. Click [Factory Restore](#) to reset the router.



Factory Default Restore

Revert all the configuration settings to their default values.

Factory Restore

2. Wait a few moments for the reset and reboot.

**Note:**

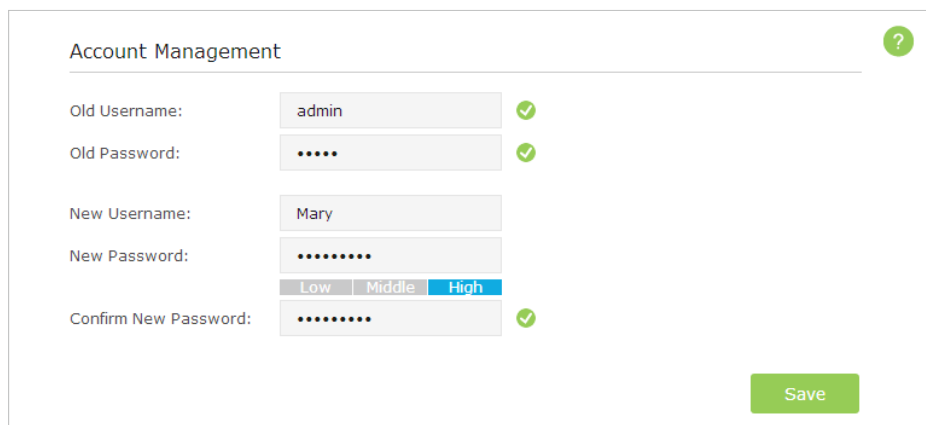
1. During the resetting process, do not turn off or reset the router.

2. We strongly recommend you backup the current configuration settings before resetting the router.

## 12.5. Change the Administrator Account

The account management feature allows you to change your login username and password of the web-based management page.

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router before.
2. Go to [Advanced](#) > [System Tools](#) > [Administration](#) and complete the settings in [Account Management](#) section.



The screenshot shows the 'Account Management' web interface. It contains the following fields and controls:

- Old Username:** Input field with 'admin' and a green checkmark.
- Old Password:** Input field with masked characters and a green checkmark.
- New Username:** Input field with 'Mary'.
- New Password:** Input field with masked characters and a strength indicator below it showing 'Low', 'Middle', and 'High' tabs, with 'High' selected.
- Confirm New Password:** Input field with masked characters and a green checkmark.
- Save:** A green button at the bottom right.

3. Enter the old username and old password. Enter the new username and enter the new password twice (both case-sensitive). Click [Save](#).

Use the new username and password for the following logins.

## 12.6. Password Recovery

This feature allows you to recover your login username and password in case you forget them.

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Advanced](#) > [System Tools](#) > [Administration](#) and complete the settings in [Password Recovery](#) section.

Password Recovery

Enable Password Recovery

From:

To:

SMTP Server:

Enable Authentication

Username:

Password:

3. Select the [Enable Password Recovery](#) checkbox.
4. Specify a [mailbox \(From\)](#) to send the recovery letter and enter its [SMTP Server](#) address. Specify a [mailbox \(To\)](#) to receive the recovery letter. If the mailbox (From) to send the recovery letter requires encryption, select [Enable Authentication](#) and enter its username and password.

Tips:

- SMTP server is available for users in most webmail systems. For example, the SMTP server address of Gmail is smtp.gmail.com. You can refer to their Help page to learn the SMTP server address.
- Generally, Enable Authentication should be selected if the login of the mailbox requires username and password.

5. Click [Save](#) to make the settings effective.

You can click [Test Mail](#) to test whether the configuration is successful. To recover your login username and password, please refer to [FAQ > Q2. How to retrieve the username and password of the web management page?](#)

## 12.7. Local Management

This feature allows you to limit the number of client devices on your LAN from accessing the router using the MAC address-based authentication.

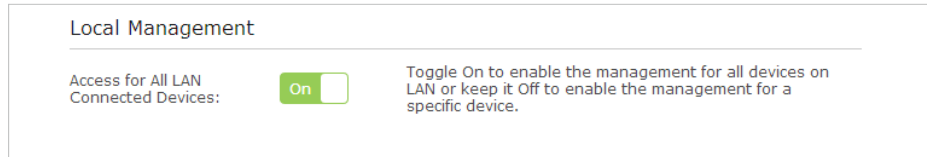
1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Advanced > System Tools > Administration](#) and complete the settings In [Local Management](#) section according to your needs.

- **Allow all LAN connected devices to manage the router:**

Toggle on [Access for All LAN Connected Devices](#).

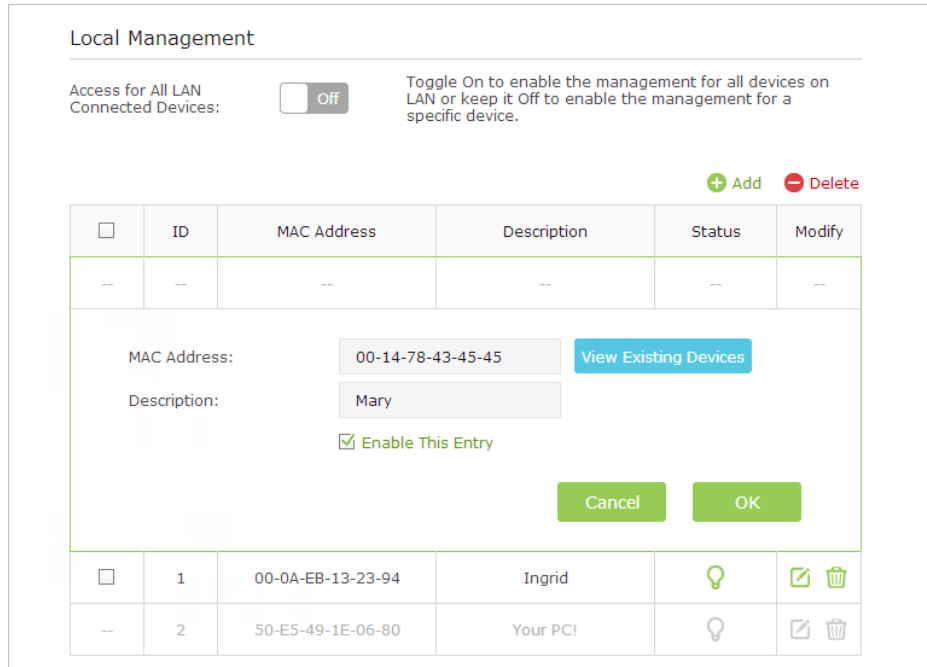
Tips: This function is enabled by default.





- **Allow specific devices to manage the router:**

- 1) Toggle off [Access for All LAN Connected Devices](#).
- 2) Click [Add](#).



- 3) Click [View Existing Devices](#) and select the device to manage the router from the Existing Devices list, or enter the MAC address of the device manually.
- 4) Specify a [Description](#) for this entry.
- 5) Select the [Enable This Entry](#) checkbox.
- 6) Click [OK](#) to make the settings effective.

## 12.8. Remote Management

This feature allows you to control remote devices' authority to manage the router.

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Advanced](#) > [System Tools](#) > [Administration](#) and complete the settings In [Remote Management](#) section according to your needs.

- **Forbid all devices to manage the router remotely:**  
Select [Disable Remote Management](#) and click [Save](#).

The screenshot shows the 'Remote Management' configuration page. At the top, the title 'Remote Management' is followed by a horizontal line. Below this, there are three radio button options:
 

- Disable Remote Management** (highlighted in green)
- Enable Remote Management for All Devices
- Enable Remote Management for Specified Devices

 Below the radio buttons, there are two input fields:
 

- 'Web Management Port:' followed by an empty text box.
- 'Remote Management IP Address:' followed by an empty text box.

 At the bottom right of the form, there is a green 'Save' button.

- **Allow all devices to manage the router remotely:**
  - 1) Select [Enable Remote Management for All Devices](#).

The screenshot shows the 'Remote Management' configuration page. At the top, the title 'Remote Management' is followed by a horizontal line. Below this, there are three radio button options:
 

- Disable Remote Management
- Enable Remote Management for All Devices** (highlighted in green)
- Enable Remote Management for Specified Devices

 Below the radio buttons, there are two input fields:
 

- 'Web Management Port:' followed by a text box containing the value '1024'.
- 'Remote Management IP Address:' followed by an empty text box.

 At the bottom right of the form, there is a green 'Save' button.

- 2) Enter [Web Management Port](#) (1024-65535 or 80).
- 3) Click [Save](#).

Devices on the Internet can log in to <http://Router's WAN IP address:port number> (such as <http://113.116.60.229:1024>) to manage the router.

**Tips:**

1. You can find the WAN IP address of the router on [Basic > Network Maps > Internet](#).
2. The router's WAN IP is usually a dynamic IP. Please refer to [Set up a Dynamic DNS Service Account](#) if you want to log in to the router through a domain name.

- **Allow specific devices to manage the router remotely:**
  - 1) Select [Enable Remote Management for Specified Devices](#).
  - 2) Enter [Web Management Port](#) (1024-65535 or 80).
  - 3) In [Remote Management IP address](#), enter the IP address of the remote device to manage the router.
  - 4) Click [Save](#).

### Remote Management

Disable Remote Management  
 Enable Remote Management for All Devices  
 Enable Remote Management for Specified Devices

Web Management Port:

Remote Management IP Address:

[Save](#)

Devices using this WAN IP can manage the router by logging in to <http://Router's WAN IP:port number> (such as <http://113.116.60.229:1024>).

 **Tips:**

The router's WAN IP is usually a dynamic IP. Please refer to [11.4. Set Up a Dynamic DNS Service Account](#) if you want to log in to the router through a domain name.

## 12.9. System Log

When the router does not work properly, you can save the system log and send it to the technical support for troubleshooting.

➤ **To Save the System Log in Local:**

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Advanced](#) > [System Tools](#) > [System Log](#).
3. Choose the type and level of the system log to your need.
4. Click [Save Log](#) to save the system log to local.

### System Log ?

Log Filter: Type=  and Level=

[Refresh](#) [Delete All](#)

ID	Time	Type	Level	Log Content
--	--	--	--	--

Mail Settings

[Mail Log](#)
[Save Log](#)

➤ **To Send the System Log to a Mailbox at a Fixed Time:**

For example, I want to check my router's working status at a fixed time every day. However, it's too troublesome to login to the web interface every time I want to go checking. It would be great if the system log could be sent to my mailbox at 8 a.m. every day.

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to *Advanced* > *System Tools* > *System Log*.
3. Click *Mail Settings*.

Mail Settings

From:

To:

SMTP Server:

Enable Authentication

Enable Auto Mail

Save

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

Mail Settings

From:

To:

SMTP Server:

Enable Authentication

Username:

Password:

Enable Auto Mail

Log at  :  (HH:MM) everyday

Log every  hours

Save

- 1) **From:** Enter the email address used to send the system log.
- 2) **To:** Enter the recipient's email address, which can be the same to or different from the sender's email address.
- 3) **SMTP Server:** Enter the SMTP server address.

☞ **Tips:** SMTP server is available for users in most webmail systems. For example, the SMTP server address of Hotmail is smtp-mail.outlook.com. You can refer to their Help page to learn the SMTP server address.

4) Select **Enable Authentication**.

☞ **Tips:** Generally, Enable Authentication should be selected if the login of the mailbox requires username and password.

5) **Username:** Enter the email address used to send the system log.

6) **Password:** Enter the password to login the sender's email address.

7) Select **Enable Auto Mail**.

☞ **Tips:** The router will send the system log to the designated email address if this option is enabled.

8) Set a fixed time. The recipient will receive the system log sent at this time every day.

5. Click **Save**.

## 12. 10. Monitor the Internet Traffic Statistics

The Traffic Statistics page displays the network traffic of the LAN, WAN and WLAN sent and received packets, allows you to monitor the volume of Internet traffic statistics.

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.

2. Go to **Advanced > System Tools > Traffic Statistics**.

3. Toggle on **Traffic Statistics**, and then you can monitor the traffic statistics in **Traffic Statistics List** section.

☞ **Tips:** This function is enabled by default.

Traffic Statistics ?

Traffic Statistics:  On

Traffic Statistics List

↻ Refresh
↻ Reset All
🗑 Delete All

IP Address/MAC Address	Total Packets	Total Bytes	Current Packets	Current Bytes	Modify
192.168.0.200/ 50-E5-49-1E-06-80	0	0	0	0	↻ 🗑
192.168.0.20/ 40-16-9F-BF-51-0C	1	594	0	0	↻ 🗑
192.168.0.155/ 00-14-78-43-45-45	1	346	0	0	↻ 🗑
192.168.0.1/ 00-0A-EB-13-09-19	1	594	0	0	↻ 🗑
192.168.0.123/ C4-E9-84-23-06-C6	1	594	0	0	↻ 🗑
192.168.0.4/ 00-0A-EB-13-01-02	2	412	0	0	↻ 🗑
192.168.0.100/ C8-85-50-5D-02-40	0	0	0	0	↻ 🗑
192.168.0.184/ C8-85-50-5D-02-40	0	0	0	0	↻ 🗑

< 1 2 >

Click [Refresh](#) to update the statistic information on the page.

Click [Reset All](#) to reset all statistic values in the list to zero.

Click [Delete All](#) to delete all statistic information in the list.

Click  to reset the statistic information of the specific device.

Click  to delete the specific device item in the list.

## 12.11. Control LEDs

The router LEDs indicate router activities and behavior. You can turn on or turn off the router from the web-based management page.

Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.

### ➤ To turn on or turn off the LEDs:

Click the [LED](#) icon on the top right of the page.

### ➤ To turn off LEDs during Night Mode Period:

1. Go to [Advanced](#) > [System Tools](#) > [System Parameters](#).

2. In the [LED](#) section, select the [Enable Night Mode](#) checkbox.

3. Specify a time period in the [Night Mode Period](#) according to your needs, and the LEDs will be off during the period.

4. Click [Save](#) to make the settings effective.

LED

---

Night mode:  [Enable Night Mode](#)

Night Mode Period:  :  to  :  (HH:MM)

[Save](#)

# FAQ

## Q1. What can I do if I forgot my wireless password?

The default password is labeled at the back of the router. If the password has been altered, please connect the router to the computer using a cable and follow the steps below:

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to *Advanced* > *Basic* > *Wireless*, locate the password on the loading page, and mark down your new password for future use.

## Q2. How to retrieve the username and password of the web management page?

The default username and password of the web management page are [admin](#) (in lower case). If the password has been altered, please follow the steps below:

**If you have altered the login username and password, and Password Recovery is enabled:**

**Note:** Ensure the Internet access is available before using this method.

1. Visit <http://tplinkwifi.net>;
2. Click [Forget password](#) > [Send Code](#), the verification code will be sent to the mailbox you set when enabling Password Recovery;
3. Login to your mailbox to copy the verification code;
4. Paste the verification code on the window which pops up in Step 2;
5. Click [Confirm](#) (the login username and password will be reset as [admin](#) after the click);
6. Enter [admin](#) (in lower case) as both username and password to login.

**Tips:** Please refer to [12.6. Password Recovery](#) to learn how to configure Password Recovery.

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

1. Reset the router to factory default settings: Press and hold the Reset button for at least 10 seconds and then release;
2. Visit <http://tplinkwifi.net>;
3. Enter [admin](#) (in lower case) as both username and password to login.

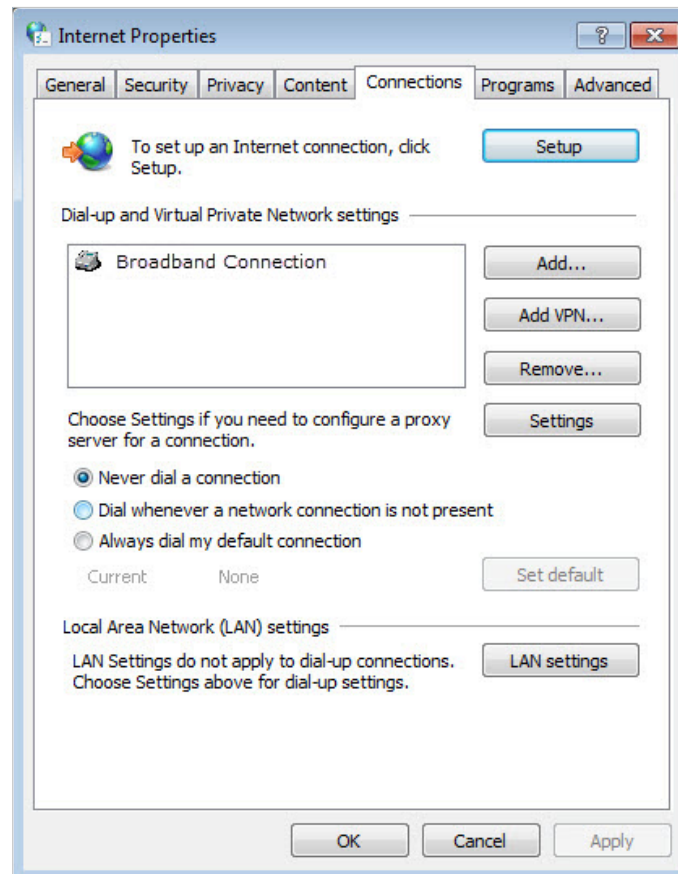
**Note:** You'll need to reconfigure the router to surf the Internet once the router is reset, and please mark down your new password for future use.

## Q3. I cannot login to the router's web management page, what can I do?

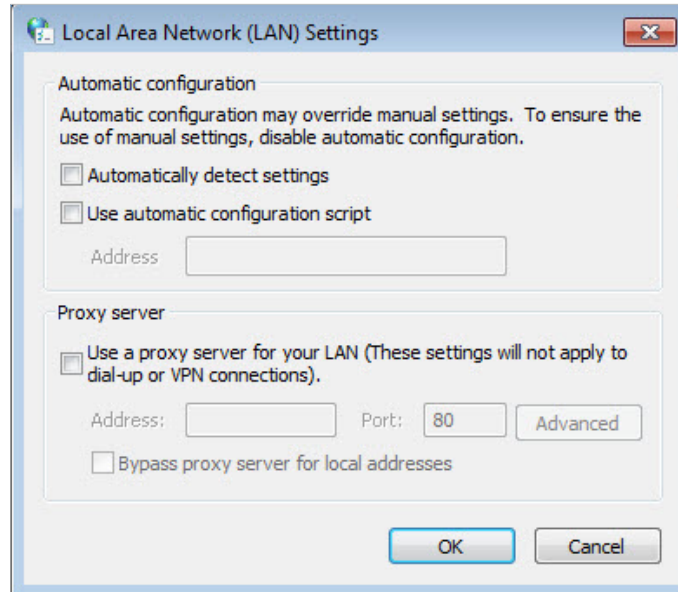
This can happen for a variety of reasons, please try the methods below and try again.



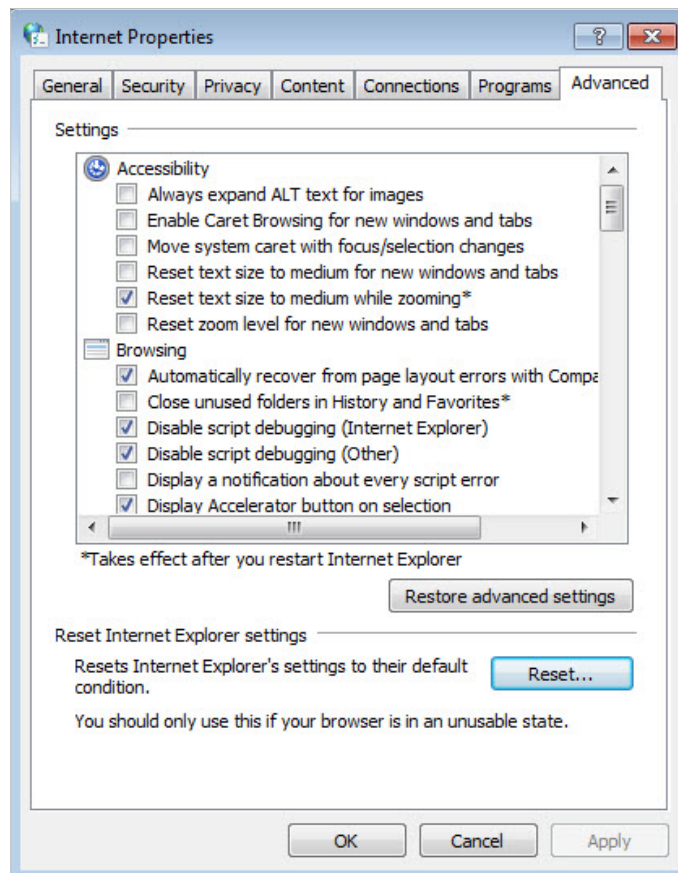
1. Make sure the router connects to the computer correctly and the corresponding LED indicator(s) light up.
2. Make sure the IP address of your computer is configured as [Obtain an IP address automatically](#) and [Obtain DNS server address automatically](#).
3. Make sure the <http://tplinkwifi.net> you input is right.
4. Check your computer's settings:
  - 1) Go to [Start](#) > [Control Panel](#) > [Network and Internet](#), and click [View network status and tasks](#);
  - 2) Click [Internet Options](#) on the bottom left;
  - 3) Click [Connections](#), select [Never dial a connection](#);



- 4) Click [LAN settings](#), deselect the following three options and click [OK](#);



5) Go to *Advanced* > *Restore advanced settings*, click *OK* to save the settings.



5. Change a web browser or computer and login again.
6. Reset the router to factory default settings: Press and hold the Reset button for at least 10 seconds and then release.
  - **Note:** You'll need to reconfigure the router to surf the Internet once the router is reset.

Open a web browser and login again. If login still fails, please contact the technical support.

#### Q4.How to use the WDS Bridging function to extend my wireless network?

For example, my house covers a large area. The wireless network coverage of the router I'm using (the root router) is limited. I want to use an extended router to extend the wireless network of the root router.

Note:

- WDS bridging only requires configuration on the extended router;
- WDS bridging function can be enabled either in 2.4GHz frequency or 5GHz frequency for a dual-band router. We use the WDS bridging function in 2.4GHz frequency as an example.

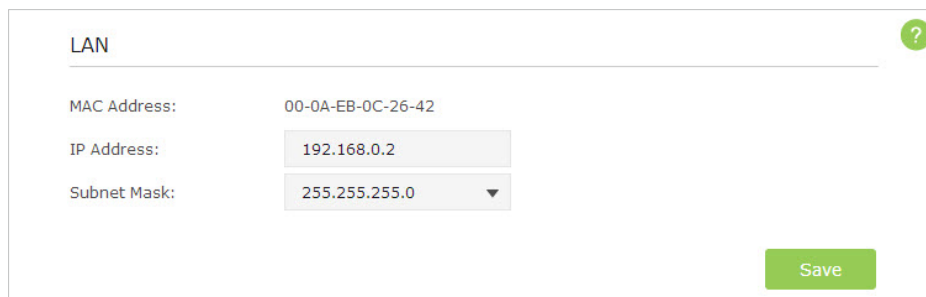
1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.

2. Configure the IP address of the router:

1) Go to *Advanced > Network > LAN*, configure the IP address of the extended router to be in the same subnet with the root router; (For example, the IP address of the root router is 192.168.0.1, the IP address of the extended router can be 192.168.0.2~192.168.0.254. We take 192.168.0.2 as example.)

2) Click *Save*.

Note: Login to the web management page again if the IP address of the router is altered.



LAN	?
MAC Address:	00-0A-EB-0C-26-42
IP Address:	192.168.0.2
Subnet Mask:	255.255.255.0 ▼
<input type="button" value="Save"/>	

3. Survey the SSID to be bridged:

1) Go to *Advanced > System Tools > System Parameters* to load the 2.4GHz WDS , click *Enable WDS Bridging*;

2) Click *Survey*, locate the root router's SSID and click *Choose* (Here we take TP-LINK\_2512 as example);

3) If the root router has wireless password, you should enter the wireless password of the root router;

4) Click *Save*.

2.4GHz WDS

WDS Bridging:  Enable WDS Bridging

SSID(to be bridged):

MAC Address(to be bridged):  Example: 00-1D-0F-11-22-33

WDS Mode:

Security:  None  WPA-PSK/WPA2-PSK  WEP

Password:

#### 4. Disable DHCP:

- 1) Go to [Network](#) > [DHCP Server](#);
- 2) Deselect Enable DHCP Server;
- 3) Click [Save](#).

Settings

DHCP Server:  Enable DHCP Server

IP Address Pool:  -

Address Lease Time:  minutes. (2-2880. The default value is 120.)

Default Gateway:  (Optional)

Primary DNS:  (Optional)

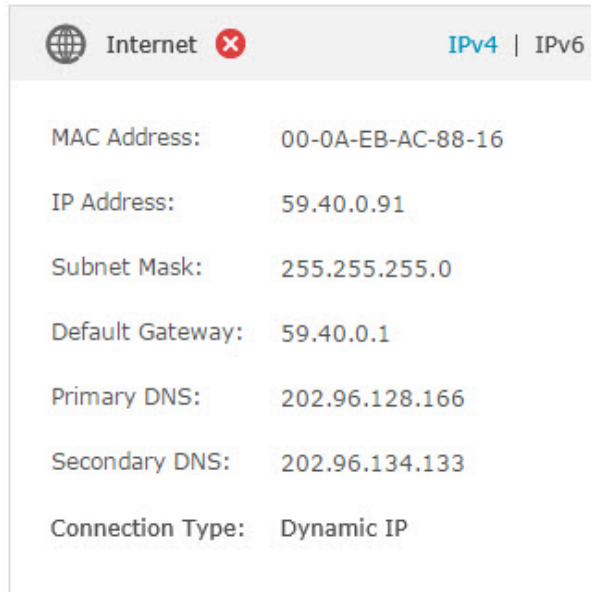
Secondary DNS:  (Optional)

Now you can login to the web management page, click [Advanced](#) > [Status](#) > [Wireless](#) to check the WDS status. When the WDS status is [Run](#), it means WDS bridging is successfully built.

#### Q5. I cannot access the Internet even though the configuration is finished, what can I do?

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Advanced](#) > [Status](#) to check Internet status:

As the follow picture shows, if IP Address is a valid IP address, please try the methods below and try again:

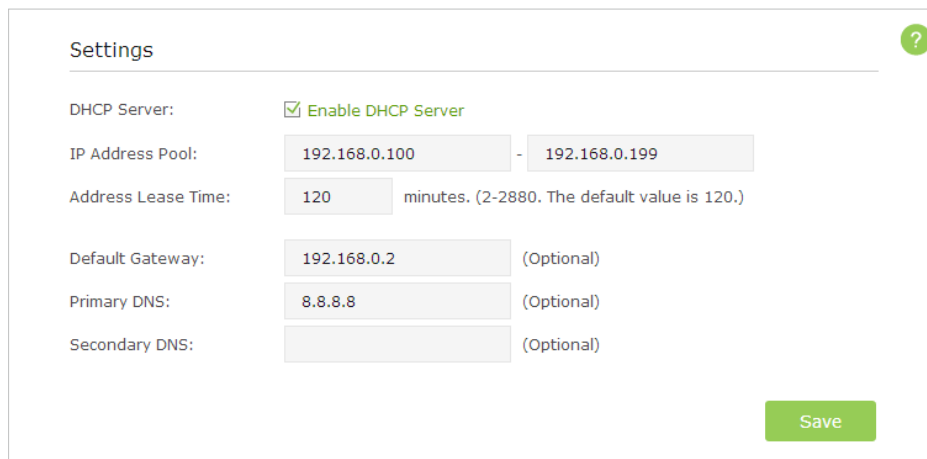


1. Your computer might not recognize any DNS server addresses, please manually configure DNS server.

1) Go to *Advanced* > *Network* > *DHCP Server*;

2) Enter 8.8.8.8 as Primary DNS, click *Save*.

 **Tips:** 8.8.8.8 is a safe and public DNS server operated by Google.



2. Power cycle the modem and the TP-LINK router.

1) Power off your modem and TP-LINK router, leave them off for 1 minute;

2) Power on your modem first, wait about 2 minutes until it get a solid cable or Internet light;

3) Power back TP-LINK router;

4) Wait another 1 or 2 minutes and check the Internet access.

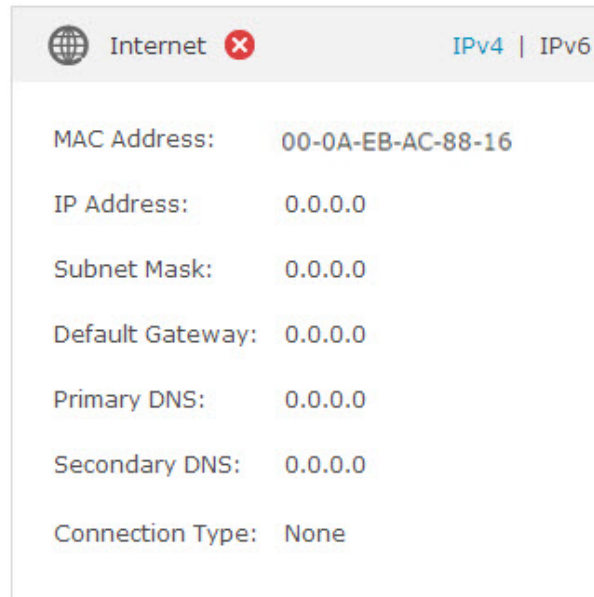
3. Reset the router to factory default settings and reconfigure.

**Note:** You'll have to reconfigure the router to access the Internet once the router is reset.

- 1) Reset the router to factory default settings: press and hold the RESET button for at least 10 seconds and then release;
- 2) Reconfigure the router with the help of [4. 1. Quick Setup](#).

4. Please refer to [12. 3. Upgrade the Firmware](#) to upgrade the firmware of the router.

**As the follow picture shows, if the IP Address is 0.0.0.0, please try the methods below and try again:**



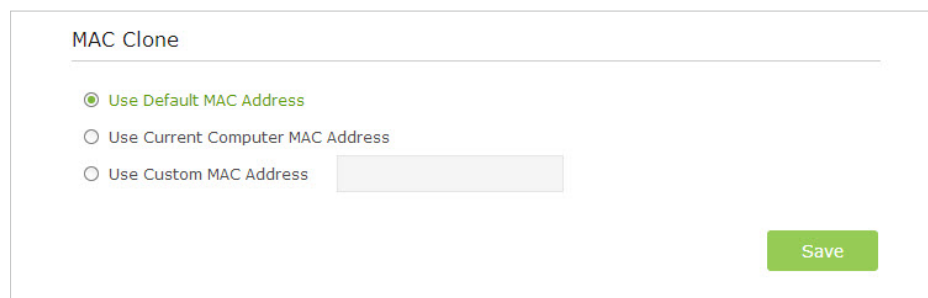
MAC Address:	00-0A-EB-AC-88-16
IP Address:	0.0.0.0
Subnet Mask:	0.0.0.0
Default Gateway:	0.0.0.0
Primary DNS:	0.0.0.0
Secondary DNS:	0.0.0.0
Connection Type:	None

1. Check the physical connection.

Make sure the physical connection between the router and the modem is proper.

2. Clone the MAC address of your computer.

- 1) Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router;
- 2) Go to [Advanced](#) > [Network](#) > [Internet](#);
- 3) Choose an option to your need (Enter the MAC address if [Use Custom MAC Address](#) is selected), and click [Save](#).



MAC Clone

Use Default MAC Address

Use Current Computer MAC Address

Use Custom MAC Address

[Save](#)

🔗 Tips:

- Some ISP will register the MAC address of your computer when you access the Internet for the first time through their Cable modem, if you add a router into your network to share your Internet connection, the ISP will not accept it as the MAC address is changed, so we need to clone your computer's MAC address to the router.
- The MAC addresses of a computer in wired connection and wireless connection are different.

### 3. Modify the LAN IP address of the router.

📌 Note:

Most TP-LINK routers use 192.168.0.1/192.168.1.1 as their default LAN IP address, it may be conflicting with the IP range of your existent ADSL modem/router. If so, the router is not able to communicate with your modem and cause you can't access the Internet. To resolve the problem, we need to change the LAN IP address of the router to avoid such conflict, for example, 192.168.2.1.

- 1) Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router;
- 2) Go to *Advanced* > *Network* > *LAN*;
- 3) Modify the LAN IP address as the follow picture shows. Here we take 192.168.2.1 as an example;
- 4) Click *Save*.



LAN

MAC Address: 00-0A-EB-0C-26-42

IP Address: 192.168.2.1

Subnet Mask: 255.255.255.0

Save

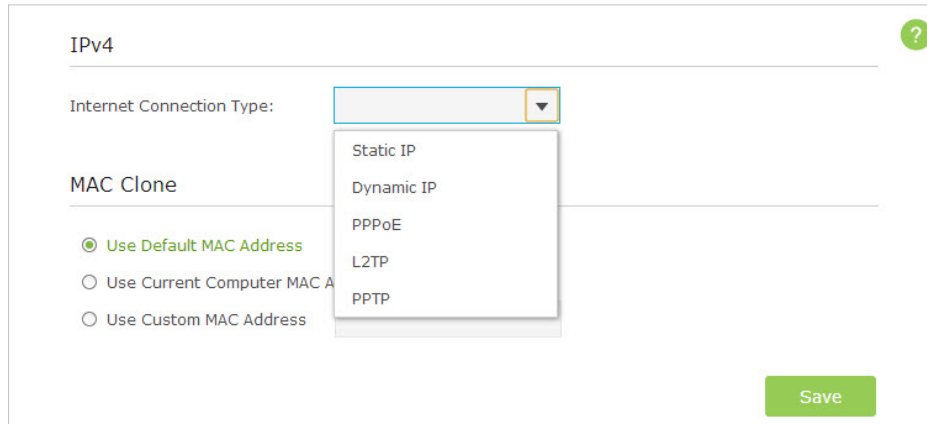
### 4. Power cycle the modem and the TP-LINK router.

- 1) Power off your modem and TP-LINK router, leave them off for 1 minute;
- 2) Power on your modem first, wait about 2 minutes until it get a solid cable or Internet light;
- 3) Power back TP-LINK router;
- 4) Wait another 1 or 2 minutes and check the Internet access.

### 5. Double check the Internet Connection Type.

- 1) Confirm your Internet Connection Type, which can be learned from the ISP;
- 2) Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router;
- 3) Go to *Advanced* > *Network* > *Internet*;
- 4) Select your *Internet Connection Type* and fill in other parameters with the help of page tips;

5) Click [Save](#).



6) Power cycle the modem and the TP-LINK router again.

3. Please refer to [12.3. Upgrade the Firmware](#) to upgrade the firmware of the router.
4. Check the TCP/IP settings on the particular device if all other devices can get Internet from the router.

If you've tried every method above but cannot access the Internet, please contact the technical support.

## **Q6. I cannot find my wireless network or I cannot connect the wireless network, what can I do?**

**If you fail to find any wireless network, please follow the steps below:**

1. Make sure the wireless function is enabled if you're using a laptop with built-in wireless adapter. You can refer to the relevant document or contact the laptop manufacturer.
2. Make sure the wireless adapter driver is installed successfully and the wireless adapter is enabled.

### **• On Windows 7**

- 1) If you see the message [No connections are available](#), it is usually because the wireless function is disabled or blocked somehow;
- 2) Clicking on [Troubleshoot](#) and windows might be able to fix the problem by itself.

### **• On Windows XP**

- 1) If you see the message [Windows cannot configure this wireless connection](#), this is usually because windows configuration utility is disabled or you are running another wireless configuration tool to connect the wireless;
- 2) Exit the wireless configuration tool( the TP-LINK Utility, for example);
- 3) Select and right click on [My Computer](#) on desktop, select [Manage](#) to open Computer Management window;



- 4) Expand [Services and Applications](#) > [Services](#), find and locate [Wireless Zero Configuration](#) in the Services list on the right side;
- 5) Right click [Wireless Zero Configuration](#), and then select [Properties](#);
- 6) Change [Startup type](#) to [Automatic](#), click on Start button and make sure the Service status is Started. And then click [OK](#);
- 7) Connect to wireless network.

**If you can find other wireless network except your own, please follow the steps below:**

1. Check the WLAN LED indicator on your wireless router/modem;
2. Make sure your computer/device is still in the range of your router/modem, move closer if it is currently too far away;
3. Go to [Advanced](#) > [Wireless](#) > [Wireless Settings](#), and check the wireless router settings, double check your Wireless Network Name, make sure the Region is selected correctly and wireless is not hidden;

**Note:** Different countries have different laws about wireless channel. For example, USA allows 2.4GHz channel from 1 to 11, while UK allows from 1 to 13. If you select the Region as UK or the Channel as 12/13 while you are in USA, your computer might not be able to pick up the signal.

The screenshot shows a web-based settings interface for a wireless router. At the top, there is a 'Settings' header with a question mark icon. Below it, the 'Region' is set to 'United States' in a dropdown menu, with a green 'Save' button to its right. The 'Wireless' section is highlighted in blue, with '2.4GHz | 5GHz' options. Under 'Wireless', there is a checked box for 'Enable Wireless Radio'. The 'Wireless Network Name (SSID)' is 'TP-LINK\_2642', with a 'Hide SSID' checkbox. The 'Security' is set to 'WPA/WPA2 - Personal(Recommended)'. The 'Version' is 'Auto', and the 'Encryption' is 'Auto'. The 'Password' is '09897717'. The 'Mode' is '802.11b/g/n mixed', 'Channel Width' is 'Auto', and 'Channel' is 'Auto'. The 'Transmit Power' is set to 'High'. A green 'Save' button is at the bottom right.

4. Connect to wireless network.

If you can find your wireless network but fail to connect, please follow the steps below:

- Authenticating problem, password mismatch:

1. Sometimes it will ask you to type in a PIN number when you connect to the wireless network for the first time. This PIN number is different from the Wireless Password/ Network Security Key, usually you can only find it on the back of your wireless router;



2. If you cannot find the PIN or PIN failed, you may choose [Connecting using a security key instead](#), and then type in the [Wireless Password/Network Security Key](#);

3. If it continues on saying [Network Security Key Mismatch](#), it is suggested to confirm the wireless password of your wireless router;

■ Note: Wireless Password/Network Security Key is case sensitive.

4. Connect to wireless network.

- Windows was unable to connect to XXXX /Can not join this network/Taking longer than usual to connect to this network:

1. Check the wireless signal strength of your network, if it is weak (1~3 bars), please move the router closer and try again;

2. Change the wireless Channel of the router to 1,6,or 11 to reduce interference from other networks;

3. Re-install or update the driver for your wireless adapter of the computer;

4. Connect to wireless network.

# Specifications

Hardware	
Ethernet Ports	4 10/100/1000Mbps LAN Ports 1 10/100/1000Mbps WAN Port
USB Port	2 USB 3.0 Ports
Button	WPS Button, Reset Button, Wireless On/Off Button, LED On/Off Button, Power On/Off Button
External Power Supply	12V/4A
Dimensions (W x D x H)	10.4x7.8x1.5 in. (263.8x197.8x37.3mm)
Antenna	4 Dual Band Detachable Antennas
Wireless	
Wireless Standards	IEEE 802.11ac/n/a 5GHz, IEEE 802.11b/g/n 2.4GHz
Frequency	2.4GHz, 5GHz
Signal Rate	1733Mbps at 5GHz, 800Mbps at 2.4GHz
Transmit Power	CE: <20dBm(2.4GHz), <23dBm(5GHz) FCC: <30dBm
Reception Sensitivity	5GHz: 11a 6Mbps: -91dBm; 11a 54Mbps: -73dBm; 11n HT20: -69dBm; 11n HT40: -67dBm; 11ac HT20: -66dBm; 11ac HT40: -61dBm; 11ac HT80: -58dBm 2.4GHz: 11g 54Mbps: -76dBm; 11n HT20: -73dBm; 11n HT40: -71dBm
Wireless Function	Enable/Disable Wireless Radio, WDS Bridge, WMM, Wireless Statistics
Wireless Security	64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA-PSK2 encryptions
Software	
WAN Type	Dynamic IP/Static IP/PPPoE/PPTP(Dual Access)/L2TP(Dual Access)/Bigpond
DHCP	Server, Client, DHCP Client List, Address Reservation
Quality of Service	WMM, Bandwidth Control
Port Forwarding	Virtual Server, Port Triggering, UPnP, DMZ
Dynamic DNS	DynDns, Comexe, NO-IP
VPN	PPTP, L2TP, IPSec
Access Control	Parental Control, Local Management Control, Host list, Access Schedule, Rule Management
Firewall Security	DoS, SPI Firewall, IP Address Filter/Domain Filter, IP and MAC Address Binding
Protocols	Supports IPv4 and IPv6
USB Sharing	Supports Samba(Storage)/FTP Server/Media Server/Printer Server
Management	Access Control, Local Management, Remote Management
Guest Network	2.4GHz guest network x 1, 5GHz guest network x 1
Environment	
Operating Temperature	0°C~40°C (32°F ~104°F)
Storage Temperature	-40°C~70°C (-40°F ~158°F)
Operating Humidity	10%~90% non-condensing
Storage Humidity	5%~90% non-condensing

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## FCC STATEMENT



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."

## 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.

### National Restrictions

This device is intended for home and office use in all EU countries (and other countries following the EU directive 1999/5/EC) without any limitation except for the countries mentioned below:

Country	Restriction	Reason/remark
Bulgaria	None	General authorization required for outdoor use and public service
France	Outdoor use limited to 10 mW e.i.r.p. within the band 2454-2483.5 MHz	Military Radiolocation use. Refarming of the 2.4 GHz band has been ongoing in recent years to allow current relaxed regulation. Full implementation planned 2012
Italy	None	If used outside of own premises, general authorization is required
Luxembourg	None	General authorization required for network and service supply(not for spectrum)
Norway	Implemented	This subsection does not apply for the geographical area within a radius of 20 km from the centre of Ny-Ålesund
Russian Federation	None	Only for indoor applications

### 5150-5250 MHz

Country	Restriction	Reason/remark
Bulgaria	Not implemented	Planned
Croatia	License required	Military Radiolocation use. Refarming of the 2.4 GHz band has been ongoing in recent years to allow current relaxed regulation. Full implementation planned 2012
Italy		General authorization required if used outside own premises
Luxembourg	None	General authorization required for network and service supply (not for spectrum)
Russian Federation	No info	

### 5250-5350 MHz

Country	Restriction	Reason/remark
Bulgaria	Not implemented	Planned
Croatia	License required	
Italy		General authorization required if used outside own premises
Luxembourg	None	General authorization required for network and service supply (not for spectrum)
Russian Federation	No info	

## 5470-5725MHz

Country	Restriction	Reason/remark
Bulgaria	Not implemented	Planned
France		Relevant+ provisions for the implementation of DFS mechanism described in ETSI standard EN 301 893 V1.3.1 and subsequent versions
Italy		General authorization required if used outside own premises
Luxembourg	None	General authorization required for network and service supply (not for spectrum)
Russian Federation	No info	
Turkey	Not implemented	Defence systems

Note: Please don't use the product outdoors in France.

### Canadian Compliance Statement

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

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

Cet appareil est conforme aux norms CNR exemptes de licence d'Industrie Canada. Le fonctionnement est soumis aux deux conditions suivantes:

1. cet appareil ne doit pas provoquer d'interférences et
2. cet appareil doit accepter toute interférence, y compris celles susceptibles de provoquer un fonctionnement non souhaité de l'appareil.

This device has been designed to operate with the antennas listed below, and having a maximum gain of 3 dBi. Antennas not included in this list or having a gain greater than 3 dBi are strictly prohibited for use with this device. The required antenna impedance is 50 ohms.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.

### Industry Canada Statement

Complies with the Canadian ICES-003 Class B specifications.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This device complies with RSS 210 of Industry Canada. This Class B device meets all the requirements of the Canadian interference-causing equipment regulations.

Cet appareil numérique de la Classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

## 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行；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。

減少電磁波影響，請妥適使用。

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。



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



Safety Information

- When product has power button, the power button is one of the way to shut off the product; when there is no power button, the only way to completely shut off power is to disconnect the product or the power adapter from the power source.



- Don't disassemble the product, or make repairs yourself. You run the risk of electric shock and voiding the limited warranty. If you need service, please contact us.
- Avoid water and wet locations.

This product can be used in the following countries:

AT	BG	BY	CA	CZ	DE	DK	EE
ES	FI	FR	GB	GR	HU	IE	IT
LT	LV	MT	NL	NO	PL	PT	RO
RU	SE	SK	TR	UA	US		

## DECLARATION OF CONFORMITY

For the following equipment:

Product Description: AC2600 Wireless Dual Band Gigabit Router

Model No.: **Archer C2600**

Trademark: **TP-LINK**

We declare under our own responsibility that the above products satisfy all the technical regulations applicable to the product within the scope of Council Directives:

Directives 1999/5/EC, Directives 2004/108/EC, Directives 2006/95/EC, Directives 1999/519/EC, Directives 2011/65/EU

The above product is in conformity with the following standards or other normative documents

**EN 300 328 V1.8.1**

**EN 301 489-1 V1.9.2 & EN 301 489-17 V2.2.1**

**EN 55022: 2010 + AC: 2011**

**EN 55024: 2010**

**EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 + A2: 2013**

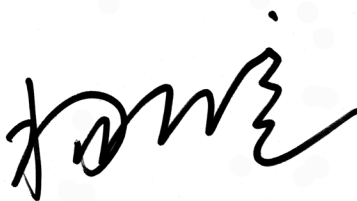
**EN 50385: 2002**

**EN 301 893 V1.7.1**

*The product carries the CE Mark:*

**CE 1588** 

Person responsible for making this declaration:



Yang Hongliang  
Product Manager of International Business

Date of issue: 2015/08/21