



User Guide

450Mbps Wireless N Router
TL-WR940N

Contents

About This Guide	1
Chapter 1. Get to Know About Your Router	2
1. 1. Product Overview.....	3
1. 2. Panel Layout.....	3
1. 2. 1.Top View	3
1. 2. 2.The Back Panel.....	4
Chapter 2. Connect to the Internet	6
2. 1. Position Your Router	7
2. 2. Connect to the Internet.....	7
2. 2. 1.Standard Wireless Router Mode	7
2. 2. 2.Range Extender Mode.....	9
2. 2. 3.Access Point Mode.....	10
Chapter 3. Log In.....	12
Chapter 4. Configure the Router in Standard Wireless Router.....	14
4. 1. Status.....	15
4. 2. WPS.....	16
4. 3. Working Mode.....	18
4. 4. Network	18
4. 4. 1. WAN.....	18
4. 4. 2.MAC Clone.....	26
4. 4. 3. LAN	26
4. 5. Wireless	27
4. 5. 1.Wireless Settings	27
4. 5. 2.Wireless Security	29
4. 5. 3.Wireless MAC Filtering	31
4. 5. 4.Wireless Advanced.....	32
4. 5. 5.Wireless Statistics	33
4. 6. Guest Network.....	34
4. 7. DHCP.....	35
4. 7. 1.DHCP Settings	35
4. 7. 2.DHCP Client List	36

4. 7. 3.	Address Reservation	37
4. 8.	Forwarding	37
4. 8. 1.	Virtual Servers	37
4. 8. 2.	Port Triggering	39
4. 8. 3.	DMZ.....	40
4. 8. 4.	UPnP.....	41
4. 9.	Security	41
4. 9. 1.	Basic Security.....	42
4. 9. 2.	Advanced Security	43
4. 9. 3.	Local Management.....	44
4. 9. 4.	Remote Management	45
4. 10.	Parental Controls	46
4. 11.	Access Control	47
4. 12.	Advanced Routing	50
4. 12. 1.	Static Routing List	50
4. 12. 2.	System Routing Table.....	51
4. 13.	Bandwidth Control.....	52
4. 13. 1.	Control Settings	52
4. 13. 2.	Rule List	52
4. 14.	IP&MAC Binding	53
4. 14. 1.	Binding Settings	53
4. 14. 2.	ARP List	54
4. 15.	Dynamic DNS.....	55
4. 16.	IPv6 Support	57
4. 16. 1.	IPv6 Status	57
4. 16. 2.	IPv6 Setup.....	58
4. 17.	System Tools	64
4. 17. 1.	Time Settings.....	64
4. 17. 2.	Diagnostic	65
4. 17. 3.	Firmware Upgrade	67
4. 17. 4.	Factory Defaults	67
4. 17. 5.	Backup & Restore	67
4. 17. 6.	Reboot	68
4. 17. 7.	Password.....	68
4. 17. 8.	System Log.....	69
4. 17. 9.	Statistics	70
4. 18.	Log out.....	71

Chapter 5. Configure the Router in Access Point Mode 72

5. 1.	Status	73
5. 2.	WPS.....	74
5. 3.	Working Mode	76
5. 4.	Network	76
	5. 4. 1. LAN.....	76
5. 5.	Wireless	77
	5. 5. 1.Wireless Settings	77
	5. 5. 2.Wireless Security	78
	5. 5. 3.Wireless MAC Filtering	80
	5. 5. 4.Wireless Advanced.....	81
	5. 5. 5.Wireless Statistics	82
	5. 5. 6.Throughput Monitor	83
5. 6.	DHCP.....	84
	5. 6. 1.DHCP Settings	84
	5. 6. 2.DHCP Client List	85
	5. 6. 3.Address Reservation	86
5. 7.	System Tools	86
	5. 7. 1.Diagnostic	86
	5. 7. 2.Ping Watch Dog	87
	5. 7. 3.Firmware Upgrade.....	88
	5. 7. 4.Factory Defaults	88
	5. 7. 5.Backup & Restore	89
	5. 7. 6.Reboot.....	89
	5. 7. 7.Password	90
	5. 7. 8.System Log	90
5. 8.	Log Out.....	92

Chapter 6. Configure the Router in Repeater Mode 94

6. 1.	Status	95
6. 2.	Working Mode	96
6. 3.	Network	96
	6. 3. 1. LAN.....	96
6. 4.	Wireless	97
	6. 4. 1.Wireless Settings	97
	6. 4. 2.Wireless Security	98
	6. 4. 3.Wireless MAC Filtering	100
	6. 4. 4.Wireless Advanced.....	101
	6. 4. 5.Wireless Statistics	103
	6. 4. 6.Throughput Monitor	103

6. 5.	DHCP.....	104
6. 5. 1.	DHCP Settings	104
6. 5. 2.	DHCP Client List	105
6. 5. 3.	Address Reservation	105
6. 6.	System Tools	106
6. 6. 1.	Diagnostic	106
6. 6. 2.	Ping Watch Dog	107
6. 6. 3.	Firmware Upgrade.....	108
6. 6. 4.	Factory Defaults	108
6. 6. 5.	Backup & Restore	109
6. 6. 6.	Reboot.....	109
6. 6. 7.	Password	110
6. 6. 8.	System Log	110
6. 7.	Log Out.....	112
FAQ	113



About This Guide

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

When using this guide, please notice that features of the router may vary slightly depending on the model and software version you have, and on your location, language, and Internet service provider. All screenshots, images, parameters and descriptions documented in this guide are used for demonstration only.

Conventions

In this guide the following conventions are used:

Convention	Description
<u>Underlined</u>	Underlined words or phrases are hyperlinks. You can click to redirect to a website or a specific section.
Teal	Contents to be emphasized and texts on the web page are in teal, including the menus, items, buttons and so on.
>	The menu structures to show the path to load the corresponding page. For example, Advanced > Wireless > MAC Filtering means the MAC Filtering function page is under the Wireless menu that is located in the Advanced tab.
 Note:	Ignoring this type of note might result in a malfunction or damage to the device.
 Tips:	Indicates important information that helps you make better use of your device.

More Info

- The latest software, management app and utility are available from the [Download Center](#) at www.tp-link.com/support.
- The Quick Installation Guide can be found where you find this guide or inside the package of the router.
- Specifications can be found on the product page at <http://www.tp-link.com>.
- A Technical Support Forum is provided for you to discuss our products at <http://forum.tp-link.com>.
- Our Technical Support contact information can be found at the [Contact Technical Support](#) page at www.tp-link.com/support.

Chapter 1

Get to Know About Your Router

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

It contains the following sections:

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

1.1. Product Overview

The TP-Link router is designed to fully meet the need of Small Office/Home Office (SOHO) networks and users demanding higher networking performance. The powerful antennas ensure continuous Wi-Fi signal to all your devices while boosting widespread coverage throughout your home, and the built-in Ethernet ports supply high-speed connection to your wired devices.

Moreover, it is simple and convenient to set up and use the TP-Link router due to its intuitive web interface and the powerful Tether app.


1.2. Panel Layout

1.2.1. Top View



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

LED Explanation

LED	Status	Indication
	Orange On	Power is on, but there is no internet connection.
	Blue On	Router mode: The router is connected to the internet.
		Range Extender mode: The router is connected to the host network.
		Access Point mode: At least one of the router's WAN/LAN ports is connected.
	Blinking Slowly	The system is starting up or firmware is being upgraded. Do not disconnect or power off your router.
Blinking Quickly	WPS connection is in progress. This may take up to 3 minutes.	

1.2.2. The Back Panel



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

Item	Description
Power Port	For connecting the router to a power socket via the provided power adapter.
Power On/Off Button	Press this button to power on or off the router.
Reset Button	Press and hold this button until all the LEDs turn on momentarily to reset the router to its factory default settings.

Item	Description
Wi-Fi/WPS Button	Press this button, and immediately press the WPS button on your device. The WPS LED of the router should change from flashing to solid on, indicating successful WPS connection.
	Press and hold this button for more than 5 seconds to turn on or off the wireless function of your router.
Internet Port	For connecting to a DSL/Cable modem, or an Ethernet port.
Ethernet Ports (1/2/3/4)	For connecting your PCs or other wired network devices to the router.
Antennas	Used for wireless operation and data transmitting. Upright them for the best Wi-Fi performance.

Chapter 2

Connect to the Internet

This chapter contains the following sections:

- [Position Your Router](#)
- [Connect to the Internet](#)

2. 1. Position Your Router

- The product should not be located in a place where it will be exposed to moisture or excessive heat.
- Place the router in a location where it can be connected to multiple 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 the router away from strong devices with strong electromagnetic interference, such as Bluetooth devices, cordless phones and microwaves.

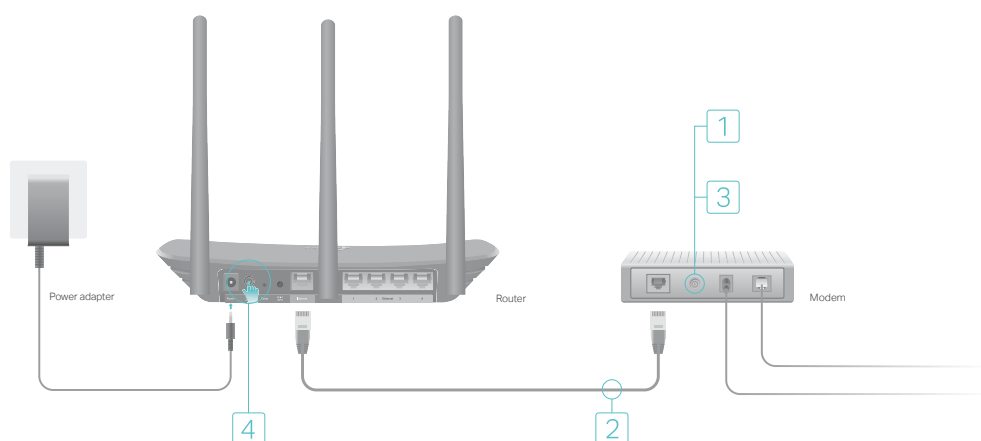
2. 2. Connect to the Internet

2. 2. 1. Standard Wireless Router Mode

The Router provides three working modes: Router, Range Extender and Access Point. You can choose the mode to better suit your network needs and follow the guide to complete the configuration.

1. Follow the steps below to connect your router.

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 WAN port, and then follow Step 4 and 5 to complete the hardware connection.



- 1) Turn off the modem, and remove the backup battery if it has one.
- 2) Connect the modem to the Internet port on your router with an Ethernet cable.
- 3) Turn on the modem, and then wait about **2 minutes** for it to restart.
- 4) Connect the power adapter to the router and turn on the router.

5) Verify that the hardware connection is correct by checking these LEDs.

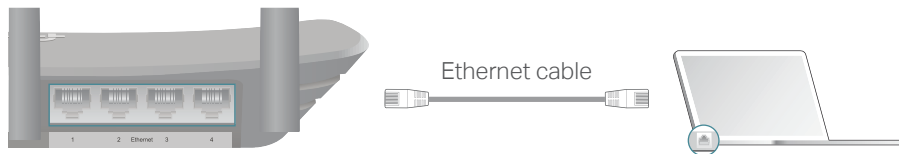


☞ **Tips:** If the Wi-Fi LED is off, press and hold the WPS/Wi-Fi button until it is on.

2. Connect your computer to the router.

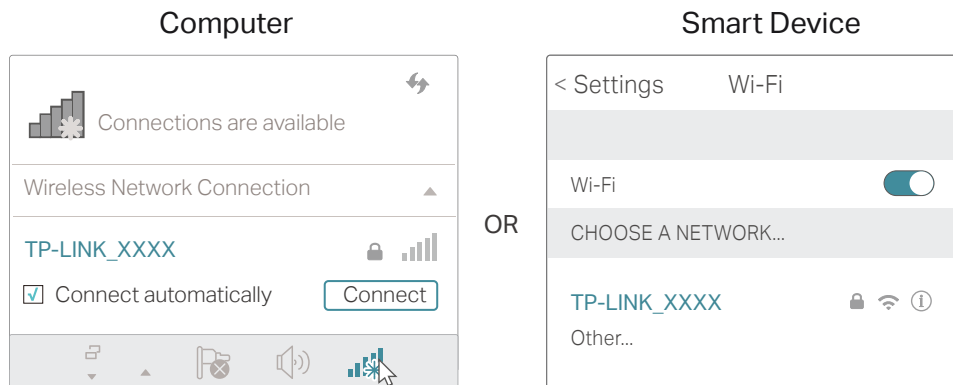
• **Method 1: Wired**

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



• **Method 2: Wirelessly**

- 1) Find the SSID (Network Name) and Wireless Password printed on the label at the bottom of the router.
- 2) Click the network icon of your computer or go to Wi-Fi Settings of your smart device, and then select the SSID to join the network.



• **Method 3: Use the WPS button**

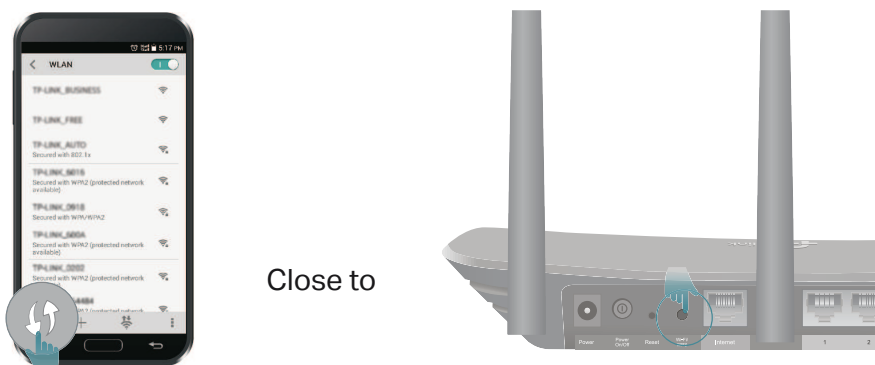
Wireless devices that support WPS, including Android phones, tablets, and most USB network cards, can be connected to your router through this method (not supported by iOS devices).

▀ **Note:**

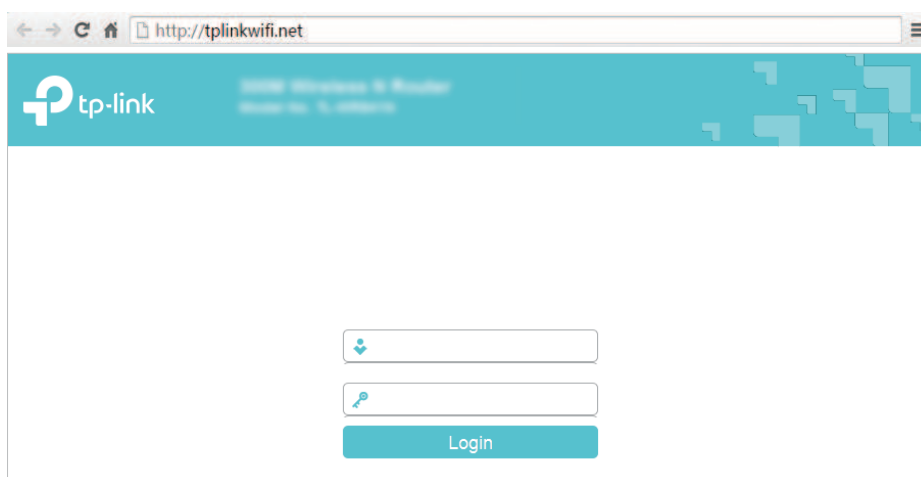
The WPS function cannot be performed if the wireless function of the router is disabled. Also, the WPS function will be disabled if your wireless encryption is WEP. Please make sure the wireless function is enabled and is configured with the appropriate encryption before configuring the WPS.

- 1) Tap the WPS icon on the device's screen. Here we take an Android phone as an example.

- 2) Immediately press the WPS button on your router.



3. Enter <http://tplinkwifi.net> or 192.168.0.1 in the address bar of a web browser. Use [admin](#) for both username and password, and then click [Login](#).



▀ Note: If the above screen does not appear, please refer to [FAQ > Q3](#).

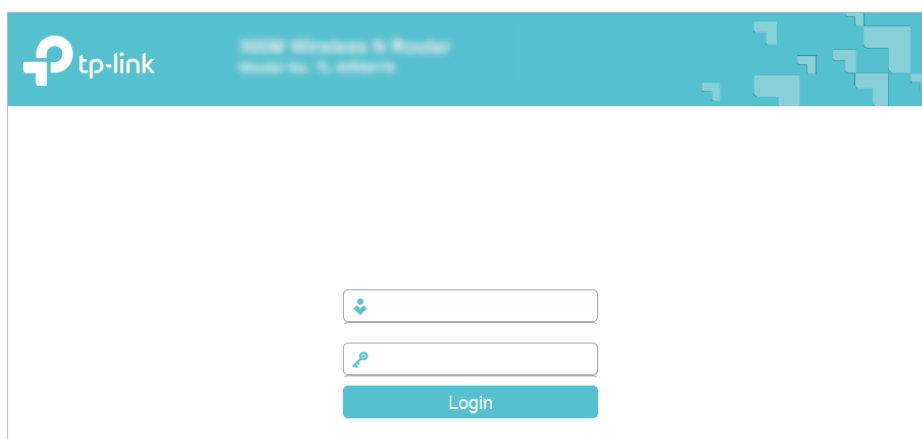
4. After successful login, select [Standard Wireless Router](#) mode and follow [Quick Setup](#) to complete the configuration.
5. [Enjoy!](#) For wireless devices, you may have to reconnect to the wireless network if you have customized the SSID (wireless name) and password during the configuration.

2.2.2. Range Extender Mode

This mode boosts your home wireless coverage.

1. Connect the power adapter to the router and turn on the router.
2. Connect a computer to the router via an Ethernet cable or wirelessly by using the SSID (Network Name) and password printed on the label at the bottom of the router.
3. Enter <http://tplinkwifi.net> in the address bar of a web browser. Use [admin](#) for both username and password, and then click [Login](#).



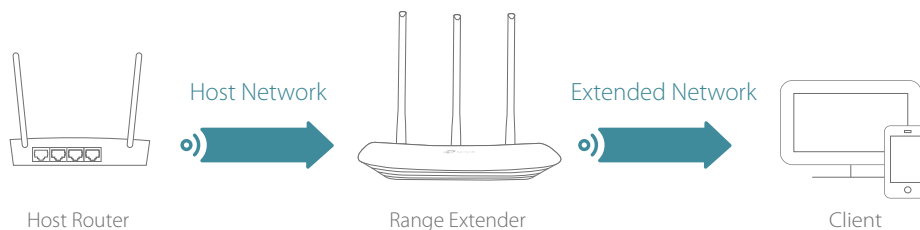


Note: If the above screen does not appear, please refer to [FAQ > Q3](#).

4. After successful login, select **Repeater** mode and follow **Quick Setup** to complete the configuration.

Tips: Click **Survey** to choose your host network and fill in its wireless password.

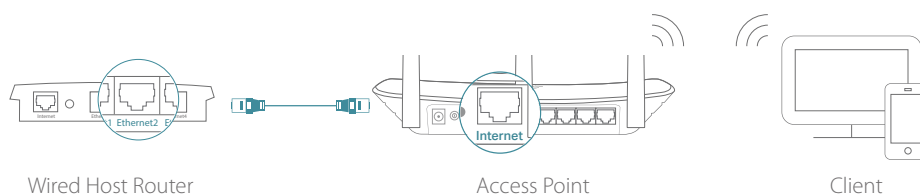
5. **Relocate**: Place the router between your host router and the Wi-Fi dead zone. The location you choose must be within the range of your existing host network.



6. **Enjoy!** The extended network shares the same SSID (wireless name) and password as your host network.

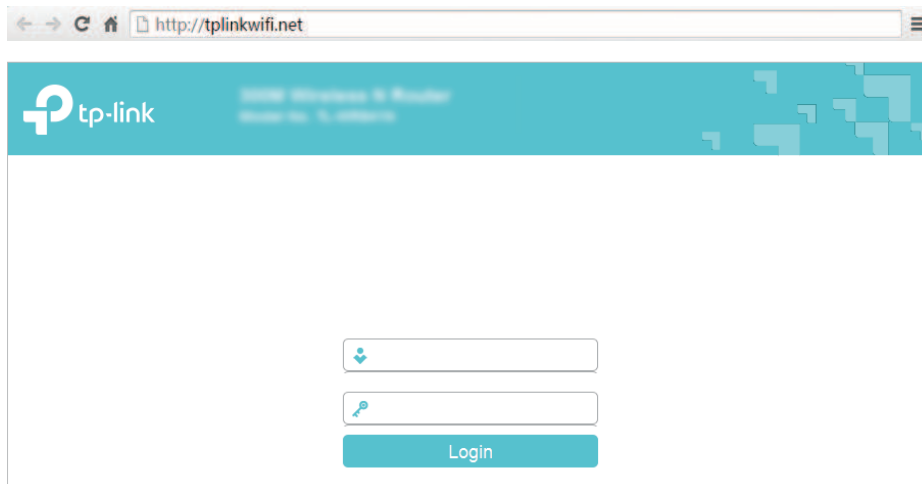
2.2.3. Access Point Mode

This mode transforms your existing wired network to a wireless network.



1. Connect the power adapter to the router and turn on the router.
2. Connect the router to your wired host router's Ethernet port via an Ethernet cable as shown above.
3. Connect a computer to the router via an Ethernet cable or wirelessly by using the SSID (Network Name) and password printed on the label at the bottom of the router.

4. Enter <http://tplinkwifi.net> in the address bar of a web browser. Use **admin** for both username and password, and then click **Login**.



■ Note: If the above screen does not appear, please refer to [FAQ > Q3](#).

5. After successful login, select **Access Point** mode and follow the **Quick Setup** to complete the configuration.

■ Note:

If you want to change the default SSID (Network Name) and the password, please modify them on the Wireless page of Quick Setup.

6. **Enjoy!** Connect to the wireless network by using the SSID (Network Name) and password of the router.

Chapter 3

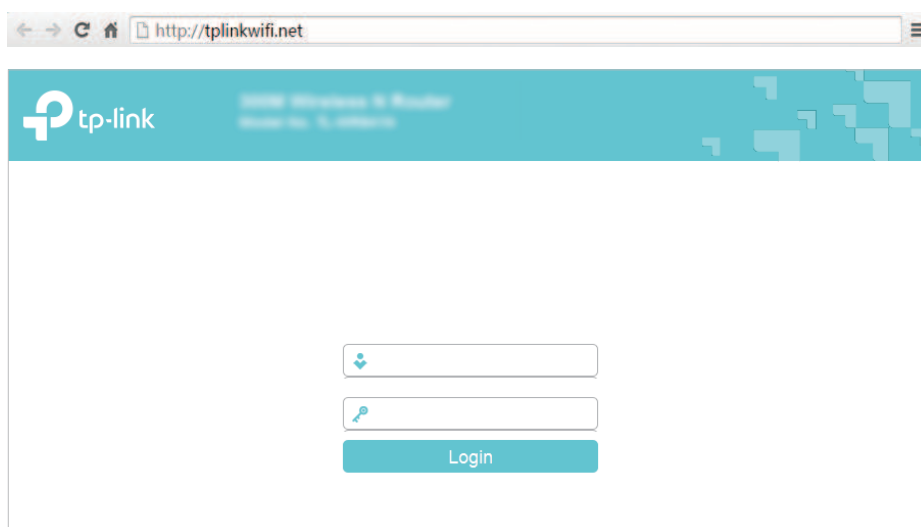
Log In

This chapter introduces how to log in to the web management page of the router.

With the web management page, 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 in to 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. The default one is [admin](#) (all lowercase) for both username and password.



Note:

If the login window does not appear, please refer to the [FAQ > Q3](#).

Chapter 4

Configure the Router in Standard Wireless Router

This chapter presents how to configure the various features of the router working as a standard wireless router.

It contains the following sections:

- [Status](#)
- [WPS](#)
- [Working Mode](#)
- [Network](#)
- [Wireless](#)
- [Guest Network](#)
- [DHCP](#)
- [Forwarding](#)
- [Security](#)
- [Parental Controls](#)
- [Access Control](#)
- [Advanced Routing](#)
- [Bandwidth Control](#)
- [IP&MAC Binding](#)
- [Dynamic DNS](#)
- [IPv6 Support](#)
- [System Tools](#)
- [Log out](#)

4.1. Status

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Status](#). You can view the current status information of the router.

The screenshot displays the 'Status' page of a TP-Link router. It is organized into several sections:

- Firmware Version:** 1.1.1.1
- Hardware Version:** V1.0
- LAN:**
 - MAC Address: DC-4A-08-45-F3-60
 - IP Address: 192.168.0.118
 - Subnet Mask: 255.255.255.0
- Wireless:**
 - Wireless Radio: Enable
 - Name (SSID): TP-LINK_F360
 - Mode: 11bgn mixed
 - Channel Width: Automatic
 - Channel: Auto (Current channel 4)
 - MAC Address: DC-4A-08-45-F3-60
 - WDS Status: Disable
- WAN:**
 - MAC Address: 0C-4A-08-45-F3-61
 - IP Address: 50.68.74.120 (Dynamic IP)
 - Subnet Mask: 255.255.255.0
 - Default Gateway: 50.68.74.1
 - DNS Server: 50.64.50.59, 1.1.1.1
- Traffic Statistics:**

	Received	Sent
Bytes:	0	0
Packets:	0	0
- System Up Time:** 0 days 01:20:00
- Refresh** button

- **Firmware Version** - The version information of the router's firmware.
- **Hardware Version** - The version information of the router's hardware.
- **LAN** - This field displays the current settings of the LAN, and you can configure them on the [Network > LAN](#) page.
 - **MAC address** - The physical address of the router.
 - **IP address** - The LAN IP address of the router.
 - **Subnet Mask** - The subnet mask associated with the LAN IP address.
- **Wireless** - This field displays the basic information or status of the wireless function, and you can configure them on the [Wireless > Wireless Settings](#) page.
 - **Wireless Radio** - Indicates whether the wireless feature is enabled or not.

- **Name (SSID)** - The SSID of the router.
- **Mode** - The current wireless working mode.
- **Channel Width** - The current wireless channel width.
- **Channel** - The current wireless channel.
- **MAC Address** - The physical address of the router.
- **WDS Status** - The status of WDS connection.
- **WAN** - This field displays the current settings of the WAN, and you can configure them on the **Network > WAN** page.
 - **MAC Address** - The physical address of the WAN port.
 - **IP Address** - The current WAN (Internet) IP Address. This field will be blank or 0.0.0.0 if the IP Address is assigned dynamically and there is no internet connection.
 - **Subnet Mask** - The subnet mask associated with the WAN IP Address.
 - **Default Gateway** - The Gateway currently used is shown here. When you use Dynamic IP as the internet connection type, click **Renew** or **Release** here to obtain new IP parameters dynamically from the ISP or release them.
 - **DNS Server** - The IP addresses of DNS (Domain Name System) server.
- **Traffic Statistics** - The router's traffic statistics.
 - **Received (Bytes)** - Traffic in bytes received from the WAN port.
 - **Received (Packets)** - Traffic in packets received from the WAN port.
 - **Sent (Bytes)** - Traffic in bytes sent out from the WAN port.
 - **Sent (Packets)** - Traffic in packets sent out from the WAN port.
- **System Up Time** - The length of the time since the router was last powered on or reset.

Click **Refresh** to get the latest status and settings of the router.

4.2. WPS

WPS (Wi-Fi Protected Setup) can help you to quickly and securely connect to a wireless network. This section will guide you to add a new wireless device to your router's network via WPS.

Note:

The WPS function cannot be performed if the wireless function of the router is disabled. Please make sure the wireless function is enabled before configuration.

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **WPS**.
3. Follow one of the following three methods to connect your client device to the router's Wi-Fi network.

Method ONE: Press the WPS Button on Your Client Device

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

WPS (Wi-Fi Protected Setup)

SSID: **TP-LINK_F360**

WPS Status: **Enabled**

Current PIN: **80834601**

Disable PIN of this device

Add a new device:

2. Select **Press the button of the new device in two minutes** and click **Connect**.

Add A New Device

Enter the new device's PIN.
PIN:

Press the button of the new device in two minutes.

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

Method TWO: Enter the Client's PIN

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

WPS (Wi-Fi Protected Setup)

SSID: **TP-LINK_F360**

WPS Status: **Enabled**

Current PIN: **80834601**

Disable PIN of this device

Add a new device:

2. Select **Enter the new device's PIN**, enter your client device's current PIN in the **PIN** field and click **Connect**.

Add A New Device

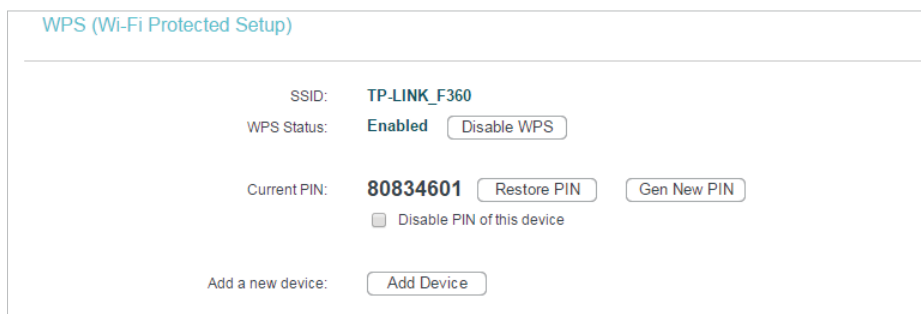
Enter the new device's PIN.
PIN:

Press the button of the new device in two minutes.

3. A success message will appear on the WPS page if the client device has been successfully added to the router's network.

Method Three: Enter the Router's PIN

1. Keep the WPS Status as **Enabled** and get the **Current PIN** of the router.



WPS (Wi-Fi Protected Setup)

SSID: **TP-LINK_F360**

WPS Status: **Enabled**

Current PIN: **80834601**

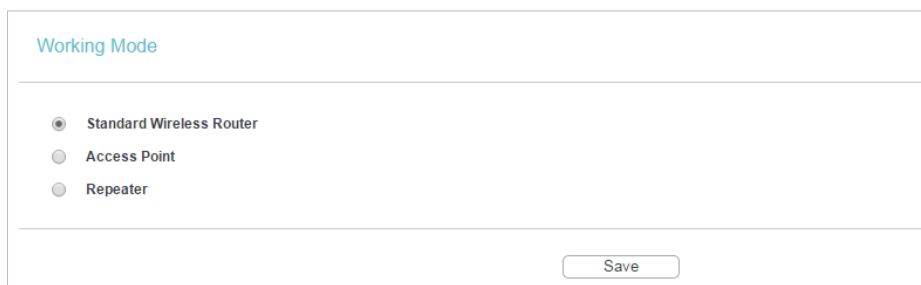
Disable PIN of this device

Add a new device:

2. Enter the router's current PIN on your client device to join the router's Wi-Fi network.

4.3. Working Mode

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **Working Mode**.
3. Select the **Standard Wireless Router** mode as needed and click **Save**.



Working Mode

Standard Wireless Router

Access Point

Repeater

4.4. Network

4.4.1. WAN

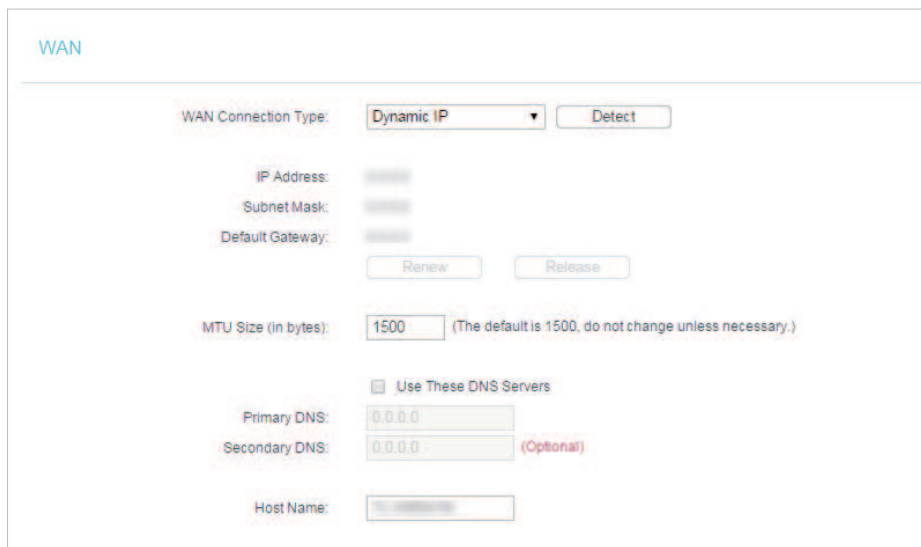
1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **Network > WAN**.
3. Configure the IP parameters of the LAN and click **Save**.

Dynamic IP

If your ISP provides the DHCP service, please select **Dynamic IP**, and the router will automatically get IP parameters from your ISP.

Click **Renew** to renew the IP parameters from your ISP.

Click [Release](#) to release the IP parameters.

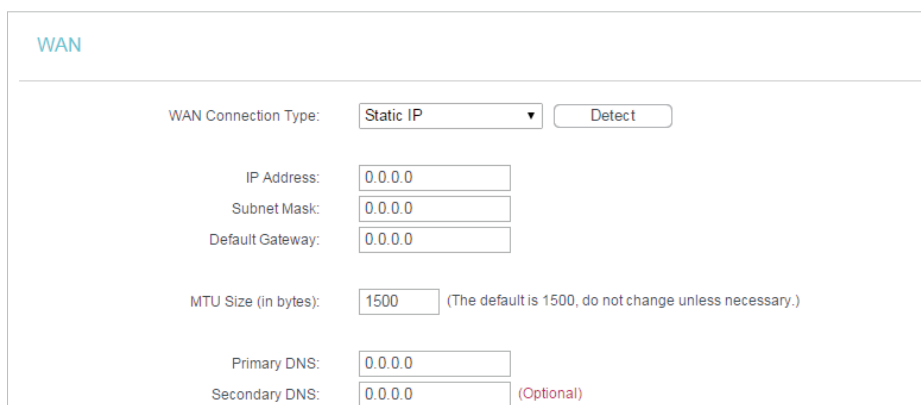


The screenshot shows the WAN configuration interface. The 'WAN Connection Type' is set to 'Dynamic IP'. Below this, there are fields for 'IP Address', 'Subnet Mask', and 'Default Gateway', each with a 'Detect' button. There are also 'Renew' and 'Release' buttons. The 'MTU Size (in bytes)' is set to 1500. There is a checkbox for 'Use These DNS Servers' which is unchecked. Below it are fields for 'Primary DNS' and 'Secondary DNS', both set to 0.0.0.0. There is also a 'Host Name' field.

- **MTU Size** - The normal MTU (Maximum Transmission Unit) value for most Ethernet networks is 1500 Bytes. It is not recommended that you change the default MTU size unless required by your ISP.
- **Use These DNS Servers** - If your ISP provides you one or two DNS addresses, select [Use These DNS Servers](#) and enter the primary and secondary addresses. Otherwise, the DNS servers will be assigned dynamically from your ISP.
- **Host Name** - This option specifies the name of the router.
- **Get IP with Unicast DHCP** - A few ISPs' DHCP servers do not support the broadcast applications. If you cannot get the IP address normally, you can choose this option. (It is rarely required.)

Static IP

If your ISP provides a static or fixed IP address, subnet mask, default gateway and DNS setting, please select [Static IP](#).



The screenshot shows the WAN configuration interface. The 'WAN Connection Type' is set to 'Static IP'. Below this, there are fields for 'IP Address', 'Subnet Mask', and 'Default Gateway', each with a 'Detect' button. The 'MTU Size (in bytes)' is set to 1500. There is a checkbox for 'Use These DNS Servers' which is unchecked. Below it are fields for 'Primary DNS' and 'Secondary DNS', both set to 0.0.0.0. There is also a 'Host Name' field.

- **IP Address** - Enter the IP address in dotted-decimal notation provided by your ISP.

- **Subnet Mask** - Enter the subnet mask in dotted-decimal notation provided by your ISP. Normally 255.255.255.0 is used as the subnet mask.
- **Default Gateway** - Enter the gateway IP address in dotted-decimal notation provided by your ISP.
- **MTU Size** - The normal MTU (Maximum Transmission Unit) value for most Ethernet networks is 1500 Bytes. It is not recommended that you change the default MTU size unless required by your ISP.
- **Primary/Secondary DNS** - (Optional) Enter one or two DNS addresses in dotted-decimal notation provided by your ISP.

PPPoE/Russia PPPoE

If your ISP provides PPPoE connection, select **PPPoE/Russia PPPoE**.

The screenshot shows the WAN configuration interface for a PPPoE/Russia PPPoE connection. The 'WAN Connection Type' is set to 'PPPoE/Russia PPPoE'. Below this, there are fields for 'User Name', 'Password', and 'Confirm Password'. The 'Secondary Connection' is set to 'Disabled'. Under 'WAN Connection Mode', 'Connect on Demand' is selected, with a 'Max Idle Time' of 15 minutes. The 'Connect Automatically' option is also visible, along with a 'Time-based Connecting' section showing a period from 0:00 to 23:59. The 'Connect Manually' option is also present with a 'Max Idle Time' of 15 minutes. At the bottom, there are 'Connect', 'Disconnect', and 'Disconnected!' buttons, along with 'Save' and 'Advanced' buttons.

- **User Name/Password** - Enter the user name and password provided by your ISP. These fields are case-sensitive.
- **Confirm Password** - Enter the Password provided by your ISP again to ensure the password you entered is correct.
- **Secondary Connection** - It's available only for PPPoE connection. If your ISP provides an extra connection type, select **Dynamic IP** or **Static IP** to activate the secondary connection.
- **WAN Connection Mode**
 - **Connect on Demand** - In this mode, the internet connection can be terminated automatically after a specified inactivity period (Max Idle Time) and be re-established when you attempt to access the internet again. If you want to keep your internet connection active all the time, please enter 0 in the **Max Idle Time**

field. Otherwise, enter the number of minutes you want to have elapsed before your internet access disconnects.

- **Connect Automatically** - The connection can be re-established automatically when it is down.
- **Time-based Connecting** - The connection will only be established in the period from the start time to the end time (both are in HH:MM format).
- **Connect Manually** - You can click **Connect/Disconnect** to connect/disconnect immediately. This mode also supports the **Max Idle Time** function as **Connect on Demand** mode. The internet connection can be disconnected automatically after a specified inactivity period (Max Idle Time) and not be able to re-establish when you attempt to access the internet again.

Note:

- Only when you have configured the system time on the **System Tools > Time Settings** page, will the time-based connecting function take effect.
- Sometimes the connection cannot be terminated although you have specified the **Max Idle Time** because some applications are visiting the internet continually in the background.

If you want to do some advanced configurations, please click **Advanced**.

The screenshot shows the 'PPPoE Advanced Settings' configuration page. It contains the following fields and options:

- MTU Size (in bytes):** 1480 (The default is 1480, do not change unless necessary.)
- Service Name:** [Empty text box]
- AC Name:** [Empty text box]
- Use IP Address Specified by ISP**
- ISP Specified IP Address:** 0.0.0.0
- Detect Online Interval:** 0 Seconds (0 ~ 120 seconds, the default is 0, 0 means not detecting.)
- Use The Following DNS Servers**
- Primary DNS:** 0.0.0.0
- Secondary DNS:** 0.0.0.0 (Optional)

At the bottom of the form, there are two buttons: **Save** and **Back**.

- **MTU Size** - The default MTU size is 1480 bytes. It is not recommended that you change the default MTU size unless required by your ISP.
- **Service Name/AC Name** - The service name and AC (Access Concentrator) name should not be configured unless you are sure it is necessary for your ISP. In most cases, leaving these fields blank will work.
- **ISP Specified IP Address** - If your ISP does not automatically assign IP addresses to the router, please select **Use IP address specified by ISP** and enter the IP address provided by your ISP in dotted-decimal notation.
- **Detect Online Interval** - The router will detect Access Concentrator online at every interval. The default value is 0. You can input the value between 0 and 120. The value 0 means no detect.

- **Primary DNS/Secondary DNS** - If your ISP does not automatically assign DNS addresses to the router, please select [Use the following DNS servers](#) and enter the IP address in dotted-decimal notation of your ISP's primary DNS server. If a secondary DNS server address is available, enter it as well.

BigPond Cable

If your ISP provides BigPond cable connection, please select [BigPond Cable](#).

The screenshot shows the WAN configuration interface for a BigPond Cable connection. The 'WAN Connection Type' is set to 'BigPond Cable'. The 'User Name' and 'Password' fields are empty. The 'Auth Server' is set to 'sm-server' and the 'Auth Domain' is empty. The 'MTU Size (in bytes)' is set to '1500' with a note: '(The default is 1500, do not change unless necessary.)'. Under 'Connection Mode', 'Connect Automatically' is selected, and its 'Max Idle Time' is set to '15' minutes. The 'Connect Manually' mode also has a 'Max Idle Time' of '15' minutes. At the bottom, there are 'Connect', 'Disconnect', and 'Disconnected!' buttons, and a 'Save' button at the very bottom.

- **User Name/Password** - Enter the user name and password provided by your ISP. These fields are case-sensitive.
- **Auth Server** - Enter the authenticating server IP address or host name.
- **Auth Domain** - Type in the domain suffix server name based on your location.
- **MTU Size** - The default MTU size is 1480 bytes. It is not recommended that you change the default MTU size unless required by your ISP.
- **Connection Mode**
 - **Connect on Demand** - In this mode, the internet connection can be terminated automatically after a specified inactivity period (Max Idle Time) and be re-established when you attempt to access the internet again. If you want to keep your internet connection active all the time, please enter 0 in the **Max Idle Time** field. Otherwise, enter the number of minutes you want to have elapsed before your internet access disconnects.
 - **Connect Automatically** - The connection can be re-established automatically when it is down.

- **Connect Manually** - You can click **Connect/Disconnect** to connect/disconnect immediately. This mode also supports the **Max Idle Time** function as **Connect on Demand** mode. The internet connection can be disconnected automatically after a specified inactivity period (Max Idle Time) and not be able to re-establish when you attempt to access the internet again.

Note:

Sometimes the connection cannot be terminated although you have specified the **Max Idle Time** because some applications are visiting the internet continually in the background.

L2TP/Russia L2TP

If your ISP provides L2TP connection, please select **L2TP/Russia L2TP**.

WAN

WAN Connection Type: **L2TP/Russia L2TP**

User Name:

Password:

Confirm Password:

Disconnected!

Dynamic IP Static IP

Server IP Address/Name:

IP Address: 0.0.0.0

Subnet Mask: 0.0.0.0

Gateway: 0.0.0.0

DNS: 0.0.0.0, 0.0.0.0

Internet IP Address: 0.0.0.0

Internet DNS: 0.0.0.0, 0.0.0.0

MTU Size (in bytes): (The default is 1460, do not change unless necessary.)

Max Idle Time: minutes (0 means remain active at all times.)

Connection Mode: Connect on Demand
 Connect Automatically
 Connect Manually

- **User Name/Password** - Enter the user name and password provided by your ISP. These fields are case-sensitive.
- **Confirm Password** - Enter the Password provided by your ISP again to ensure the password you entered is correct.
- **Connect/Disconnect** - Click this button to connect or disconnect immediately.
- **Dynamic IP/ Static IP** - Select either as required by your ISP. If **Static IP** is selected, please enter the IP address, subnet mask, gateway and DNS also provided by your ISP.
- **Internet IP Address/ Internet DNS** - The internet IP address and DNS server address assigned by L2TP server.
- **Connection Mode**
 - **Connect on Demand** - In this mode, the internet connection can be terminated automatically after a specified inactivity period (Max Idle Time) and be re-established when you attempt to access the internet again. If you want to keep your internet connection active all the time, please enter 0 in the **Max Idle Time** field. Otherwise, enter the number of minutes you want to have elapsed before your internet access disconnects.
 - **Connect Automatically** - The connection can be re-established automatically when it is down.
 - **Connect Manually** - You can click **Connect/Disconnect** to connect/disconnect immediately. This mode also supports the **Max Idle Time** function as **Connect on Demand** mode. The internet connection can be disconnected automatically after a specified inactivity period (Max Idle Time) and not be able to re-establish when you attempt to access the internet again.

Note:

Sometimes the connection cannot be terminated although you have specified the **Max Idle Time** because some applications are visiting the internet continually in the background.

PPTP/Russia PPTP

If your ISP provides PPTP connection, please select [PPTP/Russia PPTP](#).

The screenshot shows the WAN configuration interface for a PPTP/Russia PPTP connection. The page is titled "WAN" in the top left corner. The "WAN Connection Type" is set to "PPTP/Russia PPTP". Below this, there are three input fields for "User Name:", "Password:", and "Confirm Password:". To the right of these fields are "Connect" and "Disconnect" buttons, and a status indicator that says "Disconnected!". Below the password fields, there are two radio buttons: "Dynamic IP" (which is selected) and "Static IP". Under "Static IP", there are input fields for "Server IP Address/Name:", "IP Address:", "Subnet Mask:", "Gateway:", and "DNS:". Below these, there are input fields for "Internet IP Address:" and "Internet DNS:". Further down, there are input fields for "MTU Size (in bytes):" (set to 1420) and "Max Idle Time:" (set to 15 minutes). At the bottom, there are three radio buttons for "Connection Mode": "Connect on Demand", "Connect Automatically" (which is selected), and "Connect Manually". A "Save" button is located at the very bottom of the form.

- [User Name/Password](#) - Enter the user name and password provided by your ISP. These fields are case-sensitive.
- [Confirm Password](#) - Enter the Password provided by your ISP again to ensure the password you entered is correct.
- [Connect/Disconnect](#) - Click this button to connect or disconnect immediately.
- [Dynamic IP/ Static IP](#) - Select either as required by your ISP. If [Static IP](#) is selected, please enter the IP address, subnet mask, gateway and DNS also provided by your ISP.
- [Internet IP Address/ Internet DNS](#) - The internet IP address and DNS server address assigned by L2TP server.
- [Connection Mode](#)
 - [Connect on Demand](#) - In this mode, the internet connection can be terminated automatically after a specified inactivity period (Max Idle Time) and be re-established when you attempt to access the internet again. If you want to keep your internet connection active all the time, please enter 0 in the [Max Idle Time](#)

field. Otherwise, enter the number of minutes you want to have elapsed before your internet access disconnects.

- **Connect Automatically** - The connection can be re-established automatically when it is down.
- **Connect Manually** - You can click **Connect/Disconnect** to connect/disconnect immediately. This mode also supports the **Max Idle Time** function as **Connect on Demand** mode. The internet connection can be disconnected automatically after a specified inactivity period (Max Idle Time) and not be able to re-establish when you attempt to access the internet again.

Note:

Sometimes the connection cannot be terminated although you have specified the **Max Idle Time** because some applications are visiting the internet continually in the background.

4.4.2. MAC Clone

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **Network > MAC Clone**.
3. Configure the WAN MAC address and click **Save**.

MAC Clone	
WAN MAC Address:	<input type="text" value="0C-4A-08-45-F3-61"/> <input type="button" value="Restore Factory MAC"/>
Your PC's MAC Address:	<input type="text" value="74-D4-35-98-42-A8"/> <input type="button" value="Clone MAC Address"/>
<input type="button" value="Save"/>	

- **WAN MAC Address** - This field displays the current MAC address of the WAN port. If your ISP requires you to register the MAC address, please enter the correct MAC address in this field. Click **Restore Factory MAC** to restore the MAC address of WAN port to the factory default value.
- **Your PC's MAC Address** - This field displays the MAC address of the PC that is managing the router. If the MAC address is required, you can click **Clone MAC Address** and this MAC address will be filled in the **WAN MAC Address** field.

Note:

- You can only use the MAC Address Clone function for PCs on the LAN.
- If you have changed the WAN MAC address when the WAN connection is PPPoE, it will not take effect until the connection is re-established.

4.4.3. LAN

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **Network > LAN**.
3. Configure the IP parameters of the LAN and click **Save**.

LAN

MAC Address: 0C-4A-08-45-F3-60

IP Address: 192.168.0.118

Subnet Mask: 255.255.255.0

IGMP Proxy: Enable

Note:IGMP(Internet Group Management Protocol) works for IPTV multicast stream.The device supports both IGMP proxy with enabled/disabled option and IGMP snooping.

Save

- **MAC Address** - The physical address of the LAN ports. The value can not be changed.
- **IP Address** - Enter the IP address in dotted-decimal notation of your router (factory default - 192.168.0.254).
- **Subnet Mask** - An address code that determines the size of the network. Normally 255.255.255.0 is used as the subnet mask.
- **IGMP Proxy** - The internet Group Management Protocol (IGMP) feature allow you to watch TV on IPTV-supported devices on the LAN .

Note:

- If you have changed the IP address, you must use the new IP address to log in.
- If the new IP address you set is not in the same subnet as the old one, the IP address pool in the DHCP Server will be configured automatically, but the Virtual Server and DMZ Host will not take effect until they are re-configured.

4. 5. Wireless

4. 5. 1. Wireless Settings

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **Wireless > Wireless Settings**.
3. Configure the basic settings for the wireless network and click **Save**.

Wireless Settings

Wireless Network Name: TP-LINK_F360 (Also called the SSID)

Mode: 11bgn mixed

Channel Width: Auto

Channel: Auto

Enable Wireless Router Radio

Enable SSID Broadcast

Enable WDS Bridging

Save

- **Wireless Network Name** - Enter a string of up to 32 characters. The default SSID is TP-Link_XXXX (XXXX indicates the last unique four numbers of each router's MAC address). It is strongly recommended that you change your network name (SSID). This value is case-sensitive. For example, TEST is NOT the same as test.
- **Mode** - Select the desired mode. It is strongly recommended that you keep the default setting **11bgn mixed**, so that all 802.11b/g/n wireless devices can connect to the router.

Note:

If 11bg mixed mode is selected, the **Channel Width** field will turn grey and the value will become 20M, and cannot be changed.

- **Channel Width** - Select any channel width from the drop-down list. The default setting is **Auto**, which can automatically adjust the channel width for your clients.
- **Channel** - This field determines which operating frequency will be used. The default channel is set to **Auto**. It is not necessary to change the wireless channel unless you notice interference problems with another nearby access point.
- **Enable Wireless Router Radio** - The wireless radio of the router can be enabled or disabled to allow or deny wireless access. If enabled, the wireless clients will be able to access the router.
- **Enable SSID Broadcast** - If enabled, the router will broadcast the wireless network name (SSID).
- **Enable WDS Bridging** - You can select this to enable WDS Bridging, with this function, the router can bridge two or more WLANs.

Note:

If this checkbox is selected, you had better make sure the following settings are correct.

SSID (to be bridged):	<input type="text"/>
BSSID (to be bridged):	<input type="text"/> Example:00-1D-0F-11-22-33
	<input type="button" value="Survey"/>
WDS Mode:	<input type="text" value="Auto"/>
Key type:	<input type="text" value="None"/>
WEP Index:	<input type="text" value="1"/>
Auth type:	<input type="text" value="open"/>
Password:	<input type="text"/>
<input type="button" value="Save"/>	

- **SSID (to be bridged)** - The SSID of the AP your router is going to connect to as a client. You can also use the survey function to select the SSID to join.
- **BSSID (to be bridged)** - The BSSID of the AP your router is going to connect to as a client. You can also use the survey function to select the BSSID to join.
- **Survey** - Click this button, you can search the AP which runs currently.

- **WDS Mode** - This field determines which WDS Mode will be used. It is not necessary to change the WDS mode unless you notice network communication problems with root AP. If you select Auto, then the router will choose the appropriate WDS mode automatically.
- **Key type** - This option should be chosen according to the AP's security configuration. It is recommended that the security type is the same as your AP's security type.
- **WEP Index** - This option should be chosen if the key type is WEP (ASCII) or WEP (HEX). It indicates the index of the WEP key.
- **Auth Type** - This option should be chosen if the key type is WEP (ASCII) or WEP (HEX). It indicates the authorization type of the Root AP.
- **Password** - If the AP your router is going to connect needs password, you need to fill the password in this blank.

4.5.2. Wireless Security

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **Wireless > Wireless Security**.
3. Configure the security settings of your wireless network and click **Save**.

Wireless Security

Disable Security

WPA/WPA2 - Personal(Recommended)

Version:

Encryption:

Wireless Password:

(You can enter ASCII characters between 8 and 63 or Hexadecimal characters between 8 and 64.)

Group Key Update Period: Seconds

(Keep it default if you are not sure, minimum is 30, 0 means no update)

WPA/WPA2 - Enterprise

Version:

Encryption:

Radius Server IP:

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

Radius Password:

Group Key Update Period: (in second, minimum is 30, 0 means no update)

WEP

Type:

WEP Key Format:

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

- **Disable Security** - The wireless security function can be enabled or disabled. If disabled, wireless clients can connect to the router without a password. It's strongly recommended to choose one of the following modes to enable security.
- **WPA-PSK/WPA2-Personal** - It's the WPA/WPA2 authentication type based on pre-shared passphrase.
 - **Version** - Select **Automatic**, **WPA-PSK** or **WPA2-PSK**.
 - **Encryption** - Select **Automatic**, **TKIP** or **AES**.
 - **Wireless Password** - Enter ASCII or Hexadecimal characters. For Hexadecimal, the length should be between 8 and 64 characters; for ASCII, the length should be between 8 and 63 characters.
 - **Group Key Update Period** - Specify the group key update interval in seconds. The value can be 0 or at least 30. Enter 0 to disable the update.
- **WPA /WPA2-Enterprise** - It's based on Radius Server.
 - **Version** - Select **Automatic**, **WPA** or **WPA2**.
 - **Encryption** - Select **Automatic**, **TKIP** or **AES**.
 - **Radius Server IP** - Enter the IP address of the Radius server.
 - **Radius Port** - Enter the port that Radius server used.
 - **Radius Password** - Enter the password for the Radius server.
 - **Group Key Update Period** - Specify the group key update interval in seconds. The value should be 30 or above. Enter 0 to disable the update.
- **WEP** - It is based on the IEEE 802.11 standard.
 - **Type** - The default setting is **Automatic**, which can select Shared Key or Open System authentication type automatically based on the wireless client's capability and request.
 - **WEP Key Format** - Hexadecimal and ASCII formats are provided here. Hexadecimal format stands for any combination of hexadecimal digits (0-9, a-f, A-F) in the specified length. ASCII format stands for any combination of keyboard characters in the specified length.
 - **WEP Key (Password)** - Select which of the four keys will be used and enter the matching WEP key. Make sure these values are identical on all wireless clients in your network.
 - **Key Type** - Select the WEP key length (64-bit, 128-bit or 152-bit) for encryption. **Disabled** means this WEP key entry is invalid.
 - **64-bit** - Enter 10 hexadecimal digits (any combination of 0-9, a-f and A-F. Null key is not permitted) or 5 ASCII characters.
 - **128-bit** - Enter 26 hexadecimal digits (any combination of 0-9, a-f and A-F. Null key is not permitted) or 13 ASCII characters.

- **152-bit** - Enter 32 hexadecimal digits (any combination of 0-9, a-f and A-F. Null key is not permitted) or 16 ASCII characters.

4.5.3. Wireless MAC Filtering

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

I want to:

Deny or allow specific wireless client devices to access my network by their MAC addresses.

For example, you want the wireless client A with the MAC address 00-0A-EB-B0-00-0B and the wireless client B with the MAC address 00-0A-EB-00-07-5F to access the router, but other wireless clients cannot access the router.

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 **Wireless > Wireless MAC Filtering**.
3. Click **Enable** to enable the Wireless MAC Filtering function.
4. Select **Allow the stations specified by any enabled entries in the list to access** as the filtering rule.
5. Delete or disable all entries if there are any entries already.
6. Click **Add New** and fill in the blanks.

Add or Modify Wireless MAC Address Filtering entry

MAC Address:	<input type="text" value="00-0A-EB-00-07-5F"/>
Description:	<input type="text" value="Client B"/>
Status:	<input type="text" value="Enabled"/>

- 1) Enter the MAC address 00-0A-EB-B0-00-0B/00-0A-EB-00-07-5F in the MAC Address field.
 - 2) Enter wireless client A/B in the Description field.
 - 3) Leave the status as **Enabled**.
 - 4) Click **Save** and click **Back**.
7. The configured filtering rules should be listed as the picture shows below.

Filtering Rules

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

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

ID	MAC Address	Status	Description	Modify
1	00-0A-EB-00-0B	Enabled	Client A	Modify Delete
2	00-0A-EB-00-07-5F	Enabled	Client B	Modify Delete

Done! Now only client A and client B can access your network.

4.5.4. Wireless Advanced

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Wireless](#) > [Wireless Advanced](#).
3. Configure the advanced settings of your wireless network and click [Save](#).

Note:

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

Wireless Advanced

Transmit Power:

Beacon Interval: (40-1000)

RTS Threshold: (256-2346)

Fragmentation Threshold: (256-2346)

DTIM Interval: (1-255)

Enable WMM

Enable Short GI

Enable AP Isolation

- **Transmit Power** - Select **High**, **Middle** or **Low** which you would like to specify for the router. **High** is the default setting and recommended.
- **Beacon Interval** - Enter a value between 40-1000 milliseconds for Beacon Interval here. Beacon Interval value determines the time interval of the beacons. The beacons are the packets sent by the router to synchronize a wireless network. The default value is 100.
- **RTS Threshold** - Here you can specify the RTS (Request to Send) Threshold. If the packet is larger than the specified RTS Threshold size, the router will send RTS frames

to a particular receiving station and negotiate the sending of a data frame. The default value is 2346.

- **Fragmentation Threshold** - This value is the maximum size determining whether packets will be fragmented. Setting a low value for the Fragmentation Threshold may result in poor network performance because of excessive packets. 2346 is the default setting and is recommended.
- **DTIM Interval** - This value determines the interval of the Delivery Traffic Indication Message (DTIM). A DTIM field is a countdown field informing clients of the next window for listening to broadcast and multicast messages. When the router has buffered broadcast or multicast messages for associated clients, it sends the next DTIM with a DTIM Interval value. You can specify the value between 1-255 Beacon Intervals. The default value is 1, which indicates the DTIM Interval is the same as Beacon Interval.
- **Enable WMM** - WMM function can guarantee the packets with high-priority messages being transmitted preferentially. It is strongly recommended to enable this function.
- **Enable Short GI** - It is recommended to enable this function, for it will increase the data capacity by reducing the guard interval time.
- **Enable AP Isolation** - This function isolates all connected wireless stations so that wireless stations cannot access each other through WLAN. This function will be disabled if WDS / Bridge is enabled.

4.5.5. Wireless Statistics

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

ID	MAC Address	Current Status	Received Packets	Sent Packets	Configure
1	D0-51-62-27-C0-42	WPA2-PSK	65	33	Deny

- **MAC Address** - The MAC address of the connected wireless client.
- **Current Status** - The running status of the connected wireless client.
- **Received Packets** - Packets received by the wireless client.
- **Sent Packets** - Packets sent by the wireless client.
- **Configure** - The button is used for loading the item to the Wireless MAC Filtering list.
 - **Allow** - If the Wireless MAC Filtering function is enabled, click this button to allow the client to access your network.

- **Deny** - If the Wireless MAC Filtering function is enabled, click this button to deny the client to access your network.

4.6. Guest Network

The Guest Network allows you to provide Wi-Fi access for guests without disclosing your host network. When you have guests in your house, apartment, or workplace, you can create a guest network for them. In addition, you can customize guest network settings to ensure network security and privacy.

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **Guest Network > Wireless Settings**.
3. Enable the **Guest Network** function.
4. Create a network name for your guest network.
5. Select the **Wireless Security** type and create the **Password** of the guest network.
6. Select **Schedule** from the **Access Time** drop-down list and customize it for the guest network.
7. Click **Save**.

The screenshot shows the 'Guest Network Wireless Settings' page. It is divided into two main sections: 'Access And Bandwidth Control' and 'Wireless'.

Access And Bandwidth Control:

- Allow Guest To Access My Local Network:**
- Enable Guest Network Bandwidth Control:**
- Egress Bandwidth For Guest Network:** Kbps (Range:1~100000)
- Ingress Bandwidth For Guest Network:** Kbps (Range:1~100000)

Wireless:

- Guest Network:**
- Network Name:** (Also called the SSID)
- Wireless Security:**
- Version:**
- Encryption:**
- PSK Password:**
(You can enter ASCII characters between 8 and 63 or Hexadecimal characters between 8 and 64.)
- Group Key Update Period:** Seconds (Keep it default if you are not sure, minimum is 30, 0 means no update)
- Access Time:** can not be connected.
 - Everyday Select Days
 - Mon Tue Wed Thu Fri Sat Sun
 - All day-24 Hours
 - Start Time:** (HHMM)
 - End Time:** (HHMM)

Save

- **Allow Guest To Access My Local Network** - If enabled, guests can access the local network and manage it.

- [Enable Guest Network Bandwidth Control](#) - If enabled, the Guest Network Bandwidth Control rules will take effect.
- [Egress Bandwidth For Guest Network](#) - The upload speed through the WAN port for the guest network.
- [Ingress Bandwidth For Guest Network](#) - The download speed through the WAN port for the guest network.
- [Guest Network](#) - Enable or disable this function.
- [Network Name](#) - Enter a value of up to 32 characters. The Network Name (SSID) must be assigned to all wireless devices in your guest network.
- [Wireless Security](#) - You can configure the security of the guest network.
- [Access Time](#) - During this period the wireless devices can access the guest network.

Note:

The range of bandwidth for guest network is calculated according to the setting of Bandwidth Control on the [Bandwidth Control > Control Settings](#) page.

4.7. DHCP

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 addresses for specified client devices.

4.7.1. DHCP Settings

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [DHCP > DHCP Settings](#).
3. Specify DHCP server settings and click [Save](#).

DHCP Settings

DHCP Server: Disable Enable

Start IP Address:

End IP Address:

Address Lease Time: minutes (1~2880 minutes, the default value is 120)

Default Gateway:

Default Domain: (Optional)

Primary DNS: (Optional)

Secondary DNS: (Optional)

- **DHCP Server** - Enable or disable the DHCP server. If disabled, you must have another DHCP server within your network or else you must configure the computer manually.
- **Start IP Address** - Specify an IP address for the DHCP Server to start with when assigning IP addresses. 192.168.0.100 is the default start address.
- **End IP Address** - Specify an IP address for the DHCP Server to end with when assigning IP addresses. 192.168.0.199 is the default end address.
- **Address Lease Time** - The Address Lease Time is the amount of time a network user will be allowed to connect to the router with the current dynamic IP Address. When time is up, the router will automatically assign the same IP address to the user. The range of the time is 1 ~ 2880 minutes. The default value is 120.
- **Default Gateway (Optional)** - It is suggested to input the IP address of the LAN port of the Router. The default value is 192.168.0.254.
- **Default Domain (Optional)** - Input the domain name of your network.
- **Primary DNS (Optional)** - Input the DNS IP address provided by your ISP.
- **Secondary DNS (Optional)** - Input the IP address of another DNS server if your ISP provides two DNS servers.

Note:

To use the DHCP server function of the router, you must configure all computers on the LAN as [Obtain an IP Address automatically](#).

4.7.2. DHCP Client List

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **DHCP > DHCP Client List** to view the information of the clients connected to the router.

ID	Client Name	MAC Address	Assigned IP	Lease Time
1	xxxxxx	xxxxxx:xxxxxx:xxxxxx	192.168.0.100	01:22:00
2	xxxxxx	xxxxxx:xxxxxx:xxxxxx	192.168.0.101	01:55:07

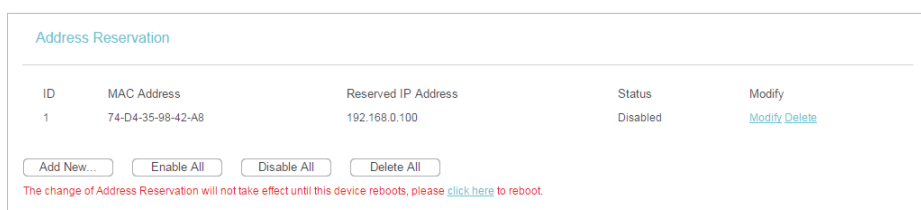
- **Client Name** - The name of the DHCP client.
- **MAC Address** - The MAC address of the DHCP client.
- **Assigned IP** - The IP address that the router has allocated to the DHCP client.
- **Lease Time** - The time of the DHCP client leased. After the dynamic IP address has expired, a new dynamic IP address will be automatically assigned to the user.

You cannot change any of the values on this page. To update this page and show the current connected devices, click [Refresh](#).

4.7.3. Address Reservation

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

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **DHCP > Address Reservation**.
3. Click **Add New** and fill in the blanks.



- 1) Enter the MAC address (in XX-XX-XX-XX-XX-XX format) of the client for which you want to reserve an IP address.
- 2) Enter the IP address (in dotted-decimal notation) which you want to reserve for the client.
- 3) Leave the status as **Enabled**.
- 4) Click **Save**.

4.8. Forwarding

The router's NAT (Network Address Translation) feature makes the devices on the LAN use the same public IP address to communicate on the internet, which protects the local network by hiding IP addresses of the devices. However, it also brings about the problem that external hosts cannot initiatively communicate with the specified devices in the local network.

With the forwarding feature, the router can traverse the isolation of NAT so that clients on the internet can reach devices on the LAN and realize some specific functions.

The 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.

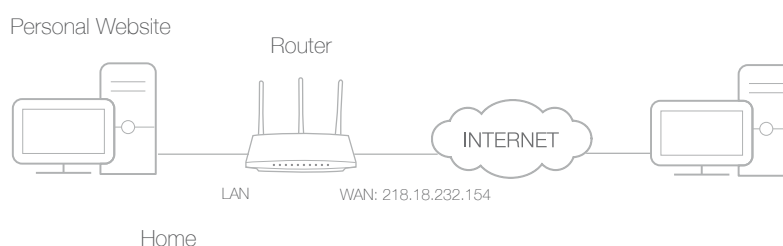
4.8.1. Virtual Servers

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

Virtual Servers can be used to set 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 on the internet can visit my website in some way. My PC is connected to the router with the WAN IP address 218.18.232.154.



1. Set your PC to a static IP address, 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 **Forwarding > Virtual Servers**.
4. Click **Add New**. Select **HTTP** from the **Common Service Port** list. The service port, internal port and protocol will be automatically filled in. Enter the PC's IP address 192.168.0.100 in the **IP Address** field.

Add or Modify a Virtual Server Entry

Service Port:	<input type="text" value="80"/>	<small>(XX-XX or XX)</small>
Internal Port:	<input type="text" value="80"/>	<small>(XX, Enter a specific port number or leave it blank)</small>
IP Address:	<input type="text" value="192.168.0.100"/>	
Protocol:	TCP	
Status:	Enabled	
Common Service Port:	HTTP	

5. Leave the status as **Enabled** and click **Save**.

Note:

- 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.
- If the service you want to use is not in the **Common Service Port** list, you can enter the corresponding parameters manually. You should verify the port number that the service needs.

- You can add multiple virtual server rules if you want to provide several services in a router. Please note that the **Service Port** should not be overlapped.

Done!

Users on 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.

Note:

- If you have changed the default **Service Port**, you should use [http:// WAN IP: Service Port](http://WAN IP: Service Port) to visit the website.
- Some specific service ports are forbidden by the ISP, if you fail to visit the website, please use another service port.

4.8.2. 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, video players and common applications including MSN Gaming Zone, Dialpad, Quick Time 4 players and more.

Follow the steps below to configure the port triggering rules:

- Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
- Go to **Forwarding > Port Triggering**.
- Click **Add New**. Select the desired application from the **Common Applications** list. The trigger port and incoming ports will be automatically filled in. The following picture takes application **MSN Gaming Zone** as an example.

The screenshot shows a web form titled "Add or Modify a Port Triggering Entry". The form contains the following fields and values:

- Trigger Port: 47624
- Trigger Protocol: All
- Incoming Ports: 2300-2400,28800-29000
- Incoming Protocol: All
- Status: Enabled
- Common Applications: MSN Gaming Zone

At the bottom of the form, there are two buttons: "Save" and "Back".

- Leave the status as **Enabled** and click **Save**.

Note:

- You can add multiple port triggering rules as needed.
- The triggering ports can not be overlapped.
- If the application you need is not listed in the **Common Applications** list, please enter the parameters manually. You should verify the incoming ports the application uses first and enter them in **Incoming**

Ports field. You can input at most 5 groups of ports (or port sections). Every group of ports must be set apart with ",". For example, 2000-2038, 2050-2051, 2085, 3010-3030.

4.8.3. 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 hazards. 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 log in normally but cannot join a team with other players. To solve this problem, set your PC as a DMZ host 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 **Forwarding > DMZ**.
4. Select **Enable** and enter the IP address 192.168.0.100 in the **DMZ Host IP Address** filed.

The screenshot shows a web form for configuring DMZ. At the top, the title 'DMZ' is displayed. Below the title, there are two rows of configuration options. The first row is 'Current DMZ Status', which has two radio buttons: 'Enable' (which is selected) and 'Disable'. The second row is 'DMZ Host IP Address', which has a text input field containing the value '192.168.0.100'. At the bottom right of the form, there is a 'Save' button.

5. Click **Save**.

Done!

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

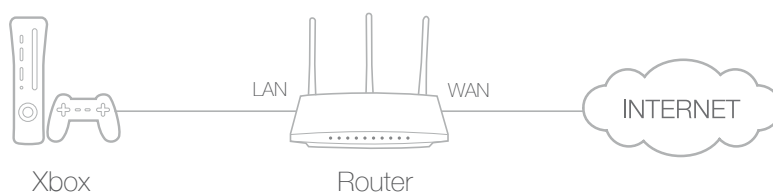
4.8.4. UPnP

The 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 on the local network and the internet 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:

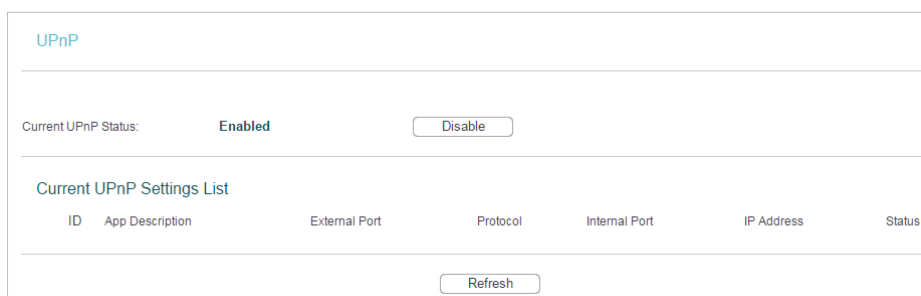
- UPnP is enabled by default in this router.
- Only the application supporting UPnP protocol can use this feature.
- UPnP feature needs the support of operating system (e.g. Windows Vista/ Windows 7/ Windows 8, etc. Some of operating system need to install the UPnP components).

For example, when you connect your Xbox to the router which is 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 **Forwarding > UPnP**.
3. Click **Disable** or **Enable** according to your needs.



4.9. Security

This function allows you to protect your home network from cyber attacks and unauthorized users by implementing these network security functions.

4.9.1. Basic Security

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **Security > Basic Security**, and you can enable or disable the security functions.

The screenshot shows the 'Basic Security' configuration page. It is organized into three main sections: Firewall, VPN, and ALG. Each section contains several options with radio buttons for 'Enable' and 'Disable'. A 'Save' button is located at the bottom of the page.

Section	Option	Enable	Disable
Firewall	SPI Firewall:	<input checked="" type="radio"/>	<input type="radio"/>
VPN	PPTP Passthrough:	<input checked="" type="radio"/>	<input type="radio"/>
	L2TP Passthrough:	<input checked="" type="radio"/>	<input type="radio"/>
	IPSec Passthrough:	<input checked="" type="radio"/>	<input type="radio"/>
ALG	FTP ALG:	<input checked="" type="radio"/>	<input type="radio"/>
	TFTP ALG:	<input checked="" type="radio"/>	<input type="radio"/>
	H323 ALG:	<input checked="" type="radio"/>	<input type="radio"/>
	RTSP ALG:	<input checked="" type="radio"/>	<input type="radio"/>
	SIP ALG:	<input checked="" type="radio"/>	<input type="radio"/>

- **Firewall** - A firewall protects your network from internet attacks.
 - **SPI Firewall** - SPI (Stateful Packet Inspection, also known as dynamic packet filtering) helps to prevent cyber attacks by tracking more state per session. It validates that the traffic passing through the session conforms to the protocol. SPI Firewall is enabled by default.
- **VPN** - VPN Passthrough must be enabled if you want to allow VPN tunnels using IPSec, PPTP or L2TP protocols to pass through the router's firewall.
 - **PPTP Passthrough** - Point-to-Point Tunneling Protocol (PPTP) allows the Point-to-Point Protocol (PPP) to be tunneled through an IP network. If you want to allow PPTP tunnels to pass through the router, you can keep the default (Enabled).
 - **L2TP Passthrough** - Layer 2 Tunneling Protocol (L2TP) is the method used to enable Point-to-Point sessions via the internet on the Layer 2 level. If you want to allow L2TP tunnels to pass through the router, you can keep the default (Enabled).
 - **IPSec Passthrough** - Internet Protocol Security (IPSec) is a suite of protocols for ensuring private, secure communications over Internet Protocol (IP) networks, through the use of cryptographic security services. If you want to allow IPSec tunnels to pass through the router, you can keep the default (Enabled).

- **ALG** - It is recommended to enable Application Layer Gateway (ALG) because ALG allows customized Network Address Translation (NAT) traversal filters to be plugged into the gateway to support address and port translation for certain application layer "control/data" protocols such as FTP, TFTP, H323 etc.
 - **FTP ALG** - To allow FTP clients and servers to transfer data across NAT, keep the default **Enable**.
 - **TFTP ALG** - To allow TFTP clients and servers to transfer data across NAT, keep the default **Enable**.
 - **H323 ALG** - To allow Microsoft NetMeeting clients to communicate across NAT, keep the default **Enable**.
 - **RTSP ALG** - To allow some media player clients to communicate with some streaming media servers across NAT, click **Enable**.
 - **SIP ALG** - To allow some multimedia clients to communicate across NAT, click **Enable**.
3. Click **Save**.

4.9.2. Advanced Security

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **Security > Advanced Security**, and you can protect the router from being attacked by ICMP-Flood, UDP Flood and TCP-SYN Flood.

The screenshot shows the 'Advanced Security' configuration page. At the top, there is a title 'Advanced Security'. Below it, there are several configuration options:

- Packets Statistics Interval (5 ~ 60):** A dropdown menu is set to '10' with 'Seconds' next to it.
- DoS Protection:** Radio buttons for 'Disable' (selected) and 'Enable'.
- Enable ICMP-FLOOD Attack Filtering:** A checkbox that is currently unchecked.
- ICMP-FLOOD Packets Threshold (5 ~ 3600):** A text input field containing '50' with 'Packets/Secs' next to it.
- Enable UDP-FLOOD Filtering:** A checkbox that is currently unchecked.
- UDP-FLOOD Packets Threshold (5 ~ 3600):** A text input field containing '500' with 'Packets/Secs' next to it.
- Enable TCP-SYN-FLOOD Attack Filtering:** A checkbox that is currently unchecked.
- TCP-SYN-FLOOD Packets Threshold (5 ~ 3600):** A text input field containing '50' with 'Packets/Secs' next to it.
- Ignore Ping Packet from WAN Port to Router:** A checkbox that is currently unchecked.
- Forbid Ping Packet from LAN Port to Router:** A checkbox that is currently unchecked.

At the bottom of the page, there are two buttons: 'Save' and 'Blocked DoS Host List'.

- **Packets Statistics Interval (5~60)** - The default value is 10. Select a value between 5 and 60 seconds from the drop-down list. The **Packets Statistics Interval** value indicates the time section of the packets statistics. The result of the statistics is used for analysis by SYN Flood, UDP Flood and ICMP-Flood.
- **DoS Protection** - Denial of Service protection. Select Enable or Disable to enable or disable the DoS protection function. Only when it is enabled, will the flood filters be enabled.

■ **Note:**

Dos Protection will take effect only when the Statistics in [System Tool > Statistics](#) is enabled.

- **Enable ICMP-FLOOD Attack Filtering** - Check the box to enable or disable this function.
- **ICMP-FLOOD Packets Threshold (5~3600)** - The default value is 50. Enter a value between 5 ~ 3600. When the number of the current ICMP-FLOOD packets is beyond the set value, the router will startup the blocking function immediately.
- **Enable UDP-FLOOD Filtering** - Check the box to enable or disable this function.
- **UDP-FLOOD Packets Threshold (5~3600)** - The default value is 500. Enter a value between 5 ~ 3600. When the number of the current UPD-FLOOD packets is beyond the set value, the router will startup the blocking function immediately.
- **Enable TCP-SYN-FLOOD Attack Filtering** - Check the box to enable or disable this function.
- **TCP-SYN-FLOOD Packets Threshold (5~3600)** - The default value is 50. Enter a value between 5 ~ 3600. When the number of the current TCP-SYN-FLOOD packets is beyond the set value, the router will startup the blocking function immediately.
- **Ignore Ping Packet From WAN Port** - The default setting is disabled. If enabled, the ping packet from the internet cannot access the router.
- **Forbid Ping Packet From LAN Port** - The default setting is disabled. If enabled, the ping packet from LAN cannot access the router. This function can be used to defend against some viruses.

3. Click [Save](#).

4. Click [Blocked DoS Host List](#) to display the DoS host table by blocking.

4.9.3. Local Management

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Security > Local Management](#), and you can block computers on the LAN from accessing the router.

The screenshot shows the 'Local Management' section of a router's web interface. Under the 'Management Rules' heading, there are two radio button options. The first option, 'All the PCs on the LAN are allowed to access the Router's Web-Based Utility', is selected. The second option, 'Only the PCs listed can browse the built-in web pages to perform Administrator tasks', is unselected. Below these options are four input fields labeled 'MAC 1:', 'MAC 2:', 'MAC 3:', and 'MAC 4:'. Below these is a field labeled 'Your PC's MAC Address:' containing the value '50-E5-49-1E-06-80' and an 'Add' button. At the bottom of the section is a 'Save' button.

For example, if you want to allow PCs with specific MAC addresses to access the router's web management page locally from inside the network, please follow the instructions below:

- 1) Select [Only the PCs listed can browse the built-in web pages to perform Administrator tasks](#).
- 2) Enter the MAC address of each PC separately. The format of the MAC address is XX-XX-XX-XX-XX-XX (X is any hexadecimal digit). Only the PCs with the listed MAC addresses can use the password to browse the built-in web pages to perform administrator tasks.
- 3) Click [Add](#), and your PC's MAC address will also be listed.
- 4) Click [Save](#).

Note:

If your PC is blocked but you want to access the router again, press and hold the [Reset](#) button to reset the router to the factory defaults.

4.9.4. Remote Management

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Security > Remote Management](#), and you can manage your router from a remote device via the internet.

The screenshot shows the 'Remote Management' section of a router's web interface. It contains two input fields. The first is labeled 'Web Management Port:' and has the value '80'. The second is labeled 'Remote Management IP Address:' and has the value '0.0.0.0'. To the right of the second field is a note: '(Enter 255.255.255.255 for all)'. At the bottom of the section is a 'Save' button.

- [Web Management Port](#) - Web browser access normally uses the standard HTTP service port 80. This router's default remote management web port number is 80.

For higher security, you can change the remote management web port to a custom port by entering a number between 1 and 65534 but do not use the number of any common service port.

- **Remote Management IP Address** - This is the address you will use when accessing your router via a remote device. This function is disabled when the IP address is set to the default value of 0.0.0.0. To enable this function, change 0.0.0.0 to a valid IP address. If it is set to 255.255.255.255, then all the remote devices can access the router from the internet.

Note:

- To access the router, enter your router's WAN IP address in your browser's address bar, followed by a colon and the custom port number. For example, if your router's WAN address is 202.96.12.8, and the port number used is 8080, please enter `http://202.96.12.8:8080` in your browser. Later, you may be asked for the router's password. After successfully entering the username and password, you will be able to access the router's web management page.
- Be sure to change the router's default password for security purposes.

4. 10. Parental Controls

Parental Controls allows you to block inappropriate and malicious websites, and control access to specific websites at specific time for your children's devices.

For example, you want the children's PC with the MAC address 00-11-22-33-44-AA can access www.tp-link.com on Saturday only while the parent PC with the MAC address 00-11-22-33-44-BB is without any restriction.

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **Access Control > Schedule**.
3. Click **Add New** to create a new schedule entry with **Schedule Description** as `Schedule_1`, **Day** as `Sat` and **Time** as `all day-24 hours`, and then click **Save**.

Advance Schedule Settings

Note: The Schedule is based on the time of the Router.

Schedule Description:

Day: Everyday Select Days

Mon Tue Wed Thu Fri Sat Sun

Time: all day-24 hours

Start Time: (HHMM)

Stop Time: (HHMM)

4. Go to **Parental Control**.
5. Select **Enable** and enter the MAC address 00-11-22-33-44-BB in the **MAC Address of Parental PC** field.

6. Click [Add New](#).

7. Enter appropriate parameters in corresponding fields.

The Schedule is based on the time of the Router. The time can be set in "System Tools -> [Time settings](#)".

MAC Address of Children's PC: 00-11-22-33-44-AA

All MAC Address in Current LAN: --Please Select--

Website Description: TP-LINK

Allowed Website Name: www.tp-link.com

Effective Time: schedule_1

The time schedule can be set in "Access Control -> [Schedule](#)".

Status: Enabled

Save Back

- Enter 00-11-22-33-44-AA in the [MAC Address of Children's PC](#) field.
- Enter Allow TP-Link in the [Website Description](#) field.
- Enter [www.tp-link.com](#) in the [Allowed Website Name](#) field.
- Select [Schedule_1](#) you created from the [Effective Time](#) drop-down list.
- In the [Status](#) field, select [Enable](#).

8. Click [Save](#).

Then you can go back to the [Parental Control](#) Settings page to check the following list.

ID	MAC address	Website Description	Schedule	Status	Modify
1	00-11-22-33-44-AA	TP-LINK	schedule_1	<input checked="" type="checkbox"/>	Edit Delete

Add New... Enable All Disable All Delete All

4. 11. Access Control

Access Control is used to deny or allow specific client devices to access your network with access time and content restrictions.

I want to:

Deny or allow specific client devices to access my network with access item and content restrictions.

[For example](#), If you want to restrict the internet activities of host with MAC address 00-11-22-33-44-AA on the LAN to access [www.tp-link.com](#) only, please follow the steps below:

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 [Access Control](#) > [Host](#) and configure the host settings:
 - 1) Click [Add New](#).
 - 2) Select [MAC Address](#) as the mode type. Create a unique description (e.g. [host_1](#)) for the host in the [Host Description](#) field and enter 00-11-22-33-44-AA in the [MAC Address](#) field.

- 3) Click [Save](#).
3. Go to [Access Control](#) > [Target](#) and configure the target settings:
 - 1) Click [Add New](#).
 - 2) Select [Domain Name](#) as the mode type. Create a unique description (e.g. [target_1](#)) for the target in the [Target Description](#) field and enter the domain name, either the full name or the keywords (for example TP-Link) in the [Domain Name](#) field.

Note:

Any domain name with keywords in it (e.g. [www.tp-link.com](#)) will be blocked or allowed.

- 3) Click [Save](#).
4. Go to [Access Control](#) > [Schedule](#) and configure the schedule settings:
 - 1) Click [Add New](#).

- 2) Create a unique description (e.g. `schedule_1`) for the schedule in the **Schedule Description** field and set the day(s) and time period.

Advance Schedule Settings

Note: The Schedule is based on the time of the Router.

Schedule Description:

Day: Everyday Select Days

Mon Tue Wed Thu Fri Sat Sun

Time: all day-24 hours:

Start Time: (HHMM)

Stop Time: (HHMM)

- 3) Click **Save**.

5. Go to **Access Control > Rule** and add a new access control rule.

- 1) Click **Add New**.

- 2) Give a name for the rule in the **Rule Name** field. Select `host_1` from the host drop-down list; select `target_1` from the target drop-down list; select `schedule_1` from the schedule drop-down list.

Add Internet Access Control Entry

Rule Name:

Host: [Click Here To Add New Host List](#)

Target: [Click Here To Add New Target List](#)

Schedule: [Click Here To Add New Schedule](#)

Status:

- 3) Leave the status as **Enabled** as click **Save**.

6. Select **Enable Internet Access Control** to enable Access Control function.

7. Select **Allow the packets specified by any enabled access control policy to pass through the Router** as the default filter policy and click **Save**.

Access Control Rule Management

Enable Internet Access Control

Default Filter Policy

Allow the packets specified by any enabled access control policy to pass through the Router

Deny the packets specified by any enabled access control policy to pass through the Router

Save

Done!

Now only the specific host(s) can visit the target(s) within the scheduled time period.

4. 12. Advanced Routing

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.

4. 12. 1. Static Routing List

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

➤ **To add static routing entries:**

1. Click [Add New](#).

Add or Modify a Static Route Entry

Destination Network:

Subnet Mask:

Default Gateway:

Status:

Save Back

2. Enter the following information.

- **Destination Network** - The Destination Network is the address of the network or host that you want to assign to a static route.

- **Subnet Mask** - The Subnet Mask determines which portion of an IP address is the network portion, and which portion is the host portion.
 - **Default Gateway** - This is the IP address of the default gateway device that allows the contact between the router and the network or host.
3. Select **Enabled** or **Disabled** for this entry on the **Status** drop-down list.
 4. Click **Save**.

You can also do the following operations to modify the current settings.

- Click **Delete** to delete the entry.
- Click **Enable All** to enable all the entries.
- Click **Disable All** to disable all the entries.
- Click **Delete All** to delete all the entries.
- Click **Previous** to view the information on the previous screen and **Next** to view the information on the next screen.

4. 12. 2. System Routing Table

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **Advanced Routing > System Routing Table**, and you can view all the valid route entries in use.

System Routing Table				
ID	Destination Network	Subnet Mask	Gateway	Interface
1	192.168.0.0	255.255.255.0	0.0.0.0	LAN & WLAN
2	239.0.0.0	255.0.0.0	0.0.0.0	LAN & WLAN

- **Destination Network** - The Destination Network is the address of the network or host to which the static route is assigned.
- **Subnet Mask** - The Subnet Mask determines which portion of an IP address is the network portion, and which portion is the host portion.
- **Gateway** - This is the IP address of the gateway device that allows for contact between the Router and the network or host.
- **Interface** - This interface tells you whether the Destination IP Address is on the LAN & WLAN (internal wired and wireless networks), or the WAN (Internet).
- Click **Refresh** to refresh the data displayed.

4. 13. Bandwidth Control

4. 13. 1. Control Settings

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Bandwidth Control](#) > [Control Settings](#).
3. Configure the bandwidth as needed and click [Save](#).

The values you configure for the Egress Bandwidth and Ingress Bandwidth should be less than 100,000Kbps. For optimal control of the bandwidth, please select the right Line Type and consult your ISP for the total egress and ingress bandwidth.

- [Enable Bandwidth Control](#) - Check this box so that the Bandwidth Control settings can take effect.
- [Line Type](#) - Select the right type for you network connection. If you are not sure, please consult your ISP.
- [Egress Bandwidth](#) - The upload speed through the WAN port.
- [Ingress Bandwidth](#) - The download speed through the WAN port.

4. 13. 2. Rule List

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Bandwidth Control](#) > [Rule List](#), and you can view and configure the Bandwidth Control rules.

- [Description](#) - This is the information about the rules such as address range.
- [Egress Bandwidth](#) - This field displays the max and min upload bandwidth through the WAN port. The default is 0.

- **Ingress Bandwidth** - This field displays the max and min download bandwidth through the WAN port. The default is 0.
- **Enable** - This field displays the status of the rule.
- **Modify** - Click **Modify/Delete** to edit/delete the rule.

➤ **To add a Bandwidth control rule:**

1. Click **Add New**.
2. Enter the information as the figure shown below.

3. Click **Save**.

4. 14. IP&MAC Binding

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

4. 14. 1. Binding Settings

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

4. Click **Save**.

➤ **To add IP & MAC Binding entries:**

1. Click **Add New**.
2. Tick the **Bind**.

IP & MAC Binding Settings

Bind:

MAC Address:

IP Address:

3. Enter the MAC address and IP address.

4. Click [Save](#).

➤ **To modify or delete an existing entry:**

1. Find the desired entry in the table.
2. Click [Modify](#) or [Delete](#) in the Modify column.

➤ **To find an existing entry:**

1. Click [Find](#).
2. Enter the MAC address or IP address in the corresponding field.
3. Click [Find](#) on this page as shown below.

Find IP & MAC Binding Entry

MAC Address:

IP Address:

ID	MAC Address	IP Address	Bind	Link
Now the current list is empty.				

4.14.2. ARP List

To manage a device, you can observe the device on the LAN by checking its MAC address and IP address on the ARP list, and you can also configure the items. This page displays the ARP list which shows all the existing IP & MAC Binding entries.

ARP List

ID	MAC Address	IP Address	Status	Configure
1	50-E5-49-1E-06-80	192.168.0.200	Unbound	Load Delete

- **MAC Address** - The MAC address of the listed computer on the LAN.
- **IP Address** - The assigned IP address of the listed computer on the LAN.
- **Status** - Indicates whether or not the MAC and IP addresses are bound.
- **Configure** - Load or delete an item.
 - **Load** - Load the item to the IP & MAC Binding list.
 - **Delete** - Delete the item.
- Click **Bind All** to bind all the current items.
- Click **Load All** to load all items to the IP & MAC Binding list.
- Click **Refresh** to refresh all items.

Note:

An item can not be loaded to the IP & MAC Binding list if the IP address of the item has been loaded before. Error warning will prompt as well. Likewise, **Load All** only loads the items without interference to the IP & MAC Binding list.

4. 15. Dynamic DNS

The router offers the DDNS (Dynamic Domain Name System) feature, which allows the hosting of a website, FTP server, or e-mail server with a fixed domain name (named by yourself) and a dynamic IP address. Thus your friends can connect to your server by entering your domain name no matter what your IP address is. Before using this feature, you need to sign up for DDNS service providers such as www.comexe.cn, www.dyndns.org, or www.noip.com. The Dynamic DNS client service provider will give you a password or key.

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

Comexe DDNS

If the dynamic DNS service provider you select is www.comexe.cn, the following page will appear.

DDNS

Service Provider: Comexe (www.comexe.cn) [Go to register...](#)

Domain Name:

Domain Name:

Domain Name:

Domain Name:

Domain Name:

User Name:

Password:

Enable DDNS

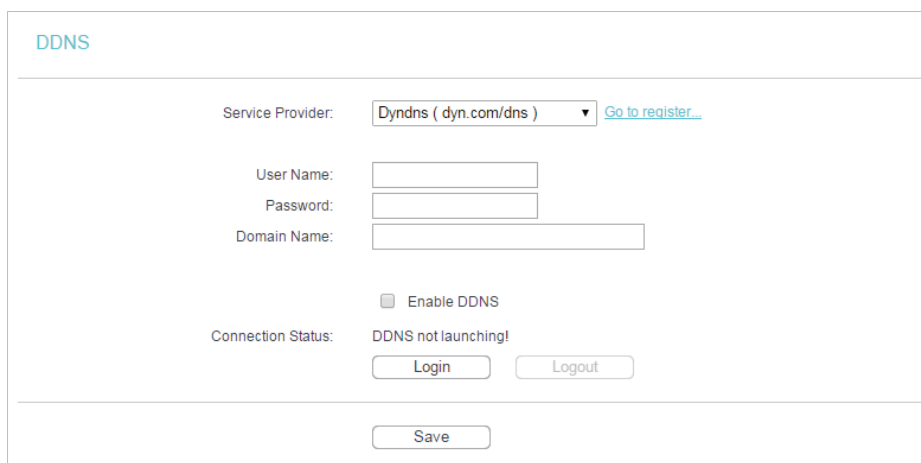
Connection Status: DDNS not launching!

To set up for DDNS, follow these instructions:

1. Enter the **Domain Name** received from your dynamic DNS service provider.
 2. Enter the **User Name** for your DDNS account.
 3. Enter the **Password** for your DDNS account.
 4. Click **Login**.
 5. Click **Save**.
- **Connection Status** - The status of the DDNS service connection is displayed here.
 - **Logout** - Click **Logout** to log out of the DDNS service.

Dyndns DDNS

If the dynamic DNS service provider you select is www.dyn.com, the following page will appear.



The screenshot shows a web interface titled "DDNS". It contains the following elements:

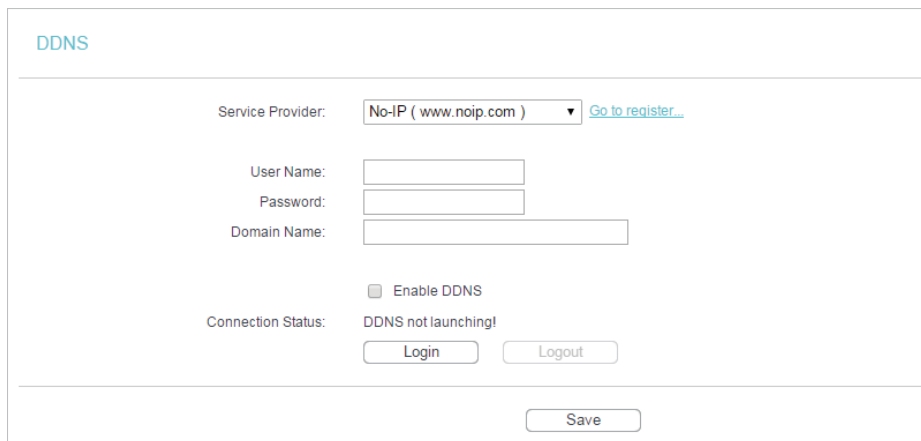
- Service Provider:** A dropdown menu set to "Dyndns (dyn.com/dns)" with a link "[Go to register...](#)".
- User Name:** A text input field.
- Password:** A text input field.
- Domain Name:** A text input field.
- Enable DDNS:** A checkbox that is currently unchecked.
- Connection Status:** Displays "DDNS not launching!".
- Login:** A button.
- Logout:** A button.
- Save:** A button at the bottom of the form.

To set up for DDNS, follow these instructions:

1. Enter the **User Name** for your DDNS account.
 2. Enter the **Password** for your DDNS account.
 3. Enter the **Domain Name** you received from dynamic DNS service provider here.
 4. Click **Login**.
 5. Click **Save**.
- **Connection Status** - The status of the DDNS service connection is displayed here.
 - **Logout** - Click **Logout** to log out of the DDNS service.

No-ip DDNS

If the dynamic DNS service provider you select is www.noip.com, the following page will appear.



The screenshot shows a web interface for configuring DDNS. At the top left, the word "DDNS" is displayed in blue. Below it, there is a form with the following fields and controls:

- Service Provider:** A dropdown menu showing "No-IP (www.noip.com)" with a small downward arrow. To its right is a blue link that says "Go to register..".
- User Name:** A text input field.
- Password:** A text input field.
- Domain Name:** A text input field.
- Enable DDNS:** A checkbox that is currently unchecked.
- Connection Status:** The text "DDNS not launching!" is displayed.
- Login:** A button with the text "Login".
- Logout:** A button with the text "Logout".
- Save:** A button with the text "Save" located at the bottom center of the form.

To set up for DDNS, follow these instructions:

1. Enter the [User Name](#) for your DDNS account.
 2. Enter the [Password](#) for your DDNS account.
 3. Enter the [Domain Name](#) you received from dynamic DNS service provider.
 4. Click [Login](#).
 5. Click [Save](#).
- [Connection Status](#) - The status of the DDNS service connection is displayed here.
 - [Logout](#) - Click [Logout](#) to log out of the DDNS service.

4. 16. IPv6 Support

This function allows you to enable IPv6 function and set up the parameters of the router's Wide Area Network (WAN) and Local Area Network (LAN).

4. 16. 1. IPv6 Status

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [IPv6 Support](#) > [IPv6 Status](#), and you can view the current IPv6 status information of the router.

IPv6 Status	
WAN	
Connection Type:	DHCPv6
IPv6 Address:	
IPv6 Default Gateway:	
Primary IPv6 DNS:	
Secondary IPv6 DNS:	
LAN	
IPv6 Address Assign Type:	RADVD
IPv6 Address:	
Link-local Address:	fe80::e4a:8ff:fe45:f360/64

- **WAN** - This section shows the current IPv6 information of the router's WAN port, including **Connection Type**, **IPv6 Address** information, **IPv6 Default Gateway**, **Primary IPv6 DNS** and **Secondary IPv6 DNS**.
- **LAN** - This section shows the current IPv6 information of the router's LAN port, including **IPv6 Address Assign Type**, **IPv6 Address** and **Link-local Address**.

4. 16. 2. IPv6 Setup

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **IPv6 Support > IPv6 Setup**.

WAN Setup	
Enable IPv6:	<input checked="" type="checkbox"/>
WAN Connection Type:	DHCPv6
IPv6 Address:	
Default Gateway:	
	Renew Release Disconnected!
Primary IPv6 DNS:	<input checked="" type="radio"/> Get IPv6 DNS Server Automatically
Secondary IPv6 DNS:	<input type="radio"/> Use the following IPv6 DNS Servers
LAN Setup	
Address Autoconfiguration Type:	<input checked="" type="radio"/> RADVD <input type="radio"/> DHCPv6 Server
Site Prefix Configuration Type:	<input checked="" type="radio"/> Delegated <input type="radio"/> Static
Lan IPv6 Address:	
Save	

3. Select the **WAN Connection Type** according to your ISP network topology:
 - **SLAAC** - Connections which use RADVD IPv6 address assignment.

- [DHCPv6](#) - Connections which use dynamic IPv6 address assignment.
- [Static IPv6](#) - Connections which use static IPv6 address assignment.
- [PPPoEv6](#) - Connections which use PPPoEV6 that requires a username and password.
- [Tunnel 6to4](#) - Connections which use 6to4 address assignment.

SLAAC

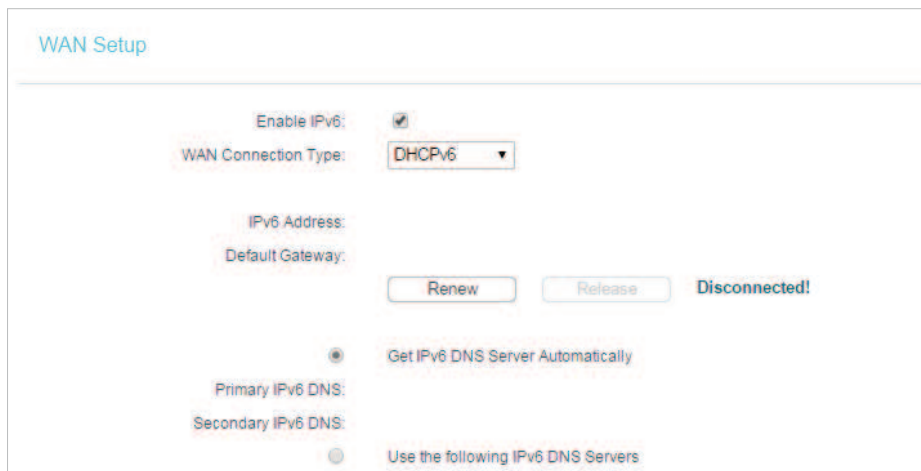
The screenshot shows the 'WAN Setup' configuration page. At the top, 'Enable IPv6' is checked. Below it, 'WAN Connection Type' is set to 'SLAAC'. There are input fields for 'IPv6 Address', 'IPv6 Address Prefix', and 'Default Gateway'. To the right of these fields are 'Connect' and 'Disconnect' buttons. The 'Disconnect' button is highlighted in red, and the text 'Disconnected!' is displayed next to it. Below the 'Default Gateway' field, there are two radio buttons: 'Get IPv6 DNS Server Automatically' (which is selected) and 'Use the following IPv6 DNS Servers'.

- [IPv6 Address](#) - The IPv6 address assigned by your ISP dynamically.
- [IPv6 Address Prefix](#) - Display the IPv6 prefix length in dotted-decimal notation provided by your ISP.
- [Default Gateway](#) - Display the default gateway in colon-hexadecimal notation provided by your ISP.
- [Connect](#) - Click [Connect](#) to connect immediately.
- [Disconnect](#) - Click [Disconnect](#) to disconnect immediately.
- [Get IPv6 DNS Server Automatically](#) - If your ISP does not give you any DNS IPv6 address, keep the default selection [Get IPv6 DNS Server Automatically](#), and the DNS servers will be assigned from ISP dynamically.
 - [Primary IPv6 DNS](#) - Enter the DNS IPv6 address in colon-hexadecimal notation provided by your ISP.
 - [Secondary IPv6 DNS](#) - Enter another DNS IPv6 address in colon-hexadecimal notation provided by your ISP.
- [Use the following IPv6 DNS Servers](#) - If your ISP gives you one or two DNS IPv6 addresses, select [Use the following IPv6 DNS Servers](#) and enter the [Primary IPv6 DNS](#) and [Secondary IPv6 DNS](#) in the corresponding fields.

Note:

If you get "Address not found error" when you access a web site, it is likely that your DNS servers are set up improperly. You should contact your ISP to get DNS server addresses.

DHCPv6



The screenshot shows the 'WAN Setup' configuration page for a router. The 'Enable IPv6' checkbox is checked. The 'WAN Connection Type' is set to 'DHCPv6'. The 'IPv6 Address' and 'Default Gateway' fields are empty. Below these fields are 'Renew' and 'Release' buttons, and a 'Disconnected!' status indicator. The 'Get IPv6 DNS Server Automatically' radio button is selected. The 'Primary IPv6 DNS' and 'Secondary IPv6 DNS' fields are empty. Below these fields are two radio buttons: 'Get IPv6 DNS Server Automatically' (selected) and 'Use the following IPv6 DNS Servers'.

- **IPv6 Address** - The IPv6 address assigned by your ISP dynamically.
- **Default Gateway** - Display the default gateway in colon-hexadecimal notation provided by your ISP.
- **Renew** - Click **Renew** to renew the IPv6 parameters from your ISP.
- **Release** - Click **Release** to release the IPv6 parameters from your ISP.
- **Get IPv6 DNS Server Automatically** - If your ISP does not give you any DNS IPv6 address, keep the default selection **Get IPv6 DNS Server Automatically**, and the DNS servers will be assigned from ISP dynamically.
 - **Primary IPv6 DNS** - Enter the DNS IPv6 address in colon-hexadecimal notation provided by your ISP.
 - **Secondary IPv6 DNS** - Enter another DNS IPv6 address in colon-hexadecimal notation provided by your ISP.
- **Use the following IPv6 DNS Servers** - If your ISP gives you one or two DNS IPv6 addresses, select **Use the following IPv6 DNS Servers** and enter the **Primary IPv6 DNS** and **Secondary IPv6 DNS** in the corresponding fields.

Note:

If you get "Address not found error" when you access a web site, it is likely that your DNS servers are set up improperly. You should contact your ISP to get DNS server addresses.

Static IPv6

The screenshot shows the 'WAN Setup' configuration page for a Static IPv6 connection. The 'Enable IPv6' checkbox is checked. The 'WAN Connection Type' is set to 'Static IPv6'. There are input fields for 'IPv6 Address', 'Default Gateway' (marked as optional), 'MTU Size (in bytes)' (set to 1500, with a note that the default is 1500), 'Primary DNS', and 'Secondary DNS' (marked as optional).

- **IPv6 Address** - Enter the IPv6 address in colon-hexadecimal notation provided by your ISP.
- **Default Gateway** - Enter the default gateway in colon-hexadecimal notation provided by your ISP.
- **MTU Size (in bytes)** - The normal MTU (Maximum Transmission Unit) value for most Ethernet networks is 1500 Bytes. For some ISPs, you may need to modify the MTU. But this is rarely required, and should not be done unless you are sure it is necessary for your ISP connection.
- **Primary DNS** - Enter the DNS IPv6 address in colon-hexadecimal notation provided by your ISP.
- **Secondary DNS** - Enter another DNS IPv6 address in colon-hexadecimal notation provided by your ISP.

PPPoEv6

The screenshot shows the 'WAN Setup' configuration page for a PPPoEv6 connection. The 'Enable IPv6' checkbox is checked. The 'WAN Connection Type' is set to 'PPPoEv6'. The 'PPPoE Session' is set to 'Create a new Session'. There are input fields for 'Username', 'Password', and 'Confirm Password'. The 'Address Mode' is set to 'DHCPv6'. There are input fields for 'IPv6 Address', 'IPv6 Address Prefix', and 'Default Gateway'. The 'MTU' is set to 1492, with a note that the default is 1492. The 'Get IPv6 DNS Server Automatically' radio button is selected. There are input fields for 'Primary IPv6 DNS' and 'Secondary IPv6 DNS'. The 'Use the following IPv6 DNS Servers' radio button is selected. The 'Connection Mode' is set to 'Always On'. At the bottom, there are 'Connect', 'Disconnect', and 'Disconnected!' buttons.

- **PPPoE Session** - The PPP session type for IPv6 connection. There are two types:
 - **Share with PPPoEv4** - The PPPoEv6 and PPPoEv4 use the same PPP session.
 - **Create a new Session** - The PPPoEv6 and PPPoEv4 use different PPP sessions. It is default to select this option.
- **Username/Password** - Enter the username and password provided by your ISP. These fields are case-sensitive.
- **Address Mode** - The way to get the IPv6 address and prefix.
 - **SLAAC** - Get the IPv6 address and prefix by router advertisement.
 - **DHCPv6** - Get the IPv6 address and prefix by DHCPv6.
- **IPv6 Address** - The IPv6 address assigned by your ISP dynamically.
- **Default Gateway** - Display the default gateway in colon-hexadecimal notation provided by your ISP.
- **MTU (in bytes)** - The normal MTU (Maximum Transmission Unit) value is 1492 Bytes. For some ISPs, you may need to modify the MTU. But this is rarely required, and should not be done unless you are sure it is necessary for your ISP connection.
- **Get IPv6 DNS Server Automatically** - If your ISP does not give you any DNS IPv6 address, keep the default selection **Get IPv6 DNS Server Automatically**, and the DNS servers will be assigned from ISP dynamically.
 - **Primary IPv6 DNS** - Enter the DNS IPv6 address in colon-hexadecimal notation provided by your ISP.
 - **Secondary IPv6 DNS** - Enter another DNS IPv6 address in colon-hexadecimal notation provided by your ISP.
- **Use the following IPv6 DNS Servers** - If your ISP gives you one or two DNS IPv6 addresses, select **Use the following IPv6 DNS Servers** and enter the **Primary IPv6 DNS** and **Secondary IPv6 DNS** in the corresponding fields.
- **Connection Mode** - The way to connect the ISP.
 - **Always On** - Connect automatically.
 - **Connect Manual** - Connect by the user manually.
- **Connect** - Click **Connect** to connect immediately.
- **Disconnect** - Click **Disconnect** to disconnect immediately.

Tunnel 6to4

The screenshot shows the 'WAN Setup' configuration page. The 'Enable IPv6' checkbox is checked. The 'WAN Connection Type' is set to 'Tunnel 6to4'. The 'Address', 'Subnet Mask', and 'Default Gateway' fields are all set to '0.0.0.0'. The 'Tunnel Address' field is empty. The 'MTU Size (in bytes)' is set to '1480', with a note that the default is 1480 and it should not be changed unless necessary. The 'Use the following IPv6 DNS Servers' checkbox is unchecked. The 'Primary IPv6 DNS' field contains '2001:4860:4860::8888' and the 'Secondary IPv6 DNS' field contains '2001:4860:4860::8844', with a red '(Optional)' label next to the secondary field.

- **Address/Subnet Mask/Default Gateway** - The IPv4 address/ subnet mask/ default gateway assigned, in dotted-decimal notation.
 - **Tunnel Address** - The 6to4 tunnel address created by the device to access the IPv6 network.
 - **MTU Size** - The normal MTU (Maximum Transmission Unit) value for most Ethernet networks is 1480 Bytes. For some ISPs, you may need to modify the MTU. But this is rarely required, and should not be done unless you are sure it is necessary for your ISP connection.
 - **Use the following IPv6 DNS Servers** - If your ISP gives you one or two DNS IPv6 addresses, select **Use the following IPv6 DNS Servers** and enter the **Primary IPv6 DNS** and **Secondary IPv6 DNS** into the correct fields. Otherwise, the DNS servers will be assigned from ISP dynamically.
 - **Primary IPv6 DNS** - Enter the DNS IPv6 address in colon-hexadecimal notation provided by your ISP.
 - **Secondary IPv6 DNS** - Enter another DNS IPv6 address in colon-hexadecimal notation provided by your ISP.
4. Select the **Address Autoconfiguration Type** which determines the way how the router assigns IPv6 address for PCs on the LAN:

The screenshot shows the 'LAN Setup' configuration page. The 'Address Autoconfiguration Type' has two radio buttons: 'RADVD' (selected) and 'DHCPv6 Server'. The 'Site Prefix Configuration Type' has two radio buttons: 'Delegated' (selected) and 'Static'. The 'Lan IPv6 Address' field is empty. A 'Save' button is located at the bottom of the page.

- **Address Autoconfiguration Type** - **RADVD** (Router Advertisement Daemon) and **DHCPv6** (Dynamic Host Configuration Protocol for IPv6) **Server**.
- **Site Prefix Configuration Type** - The type of IPv6 address prefix.

- **Delegated** - Get the IPv6 address prefix from the ISP automatically, and the device will delegate it to the LAN.
- **Static** - Configure the **Site Prefix** and **Site Prefix Length** manually. Please contact your ISP to get more information before you configure them.
- **LAN IPv6 Address** - Display the LAN IPv6 address created by the device.

5. Click **Save**.

4. 17. System Tools

4. 17. 1. Time Settings

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **System Tools > Time Settings** and configure the system time as needed.

The screenshot shows the 'Time Settings' configuration page. It includes a dropdown for 'Time zone' set to '(GMT) Greenwich Mean Time, Dublin, London'. The 'Date' field is set to '1/2/2016' (MM/DD/YY) and the 'Time' field is set to '1:44:07' (HH:MM:SS). There are two 'NTP Server' fields, both set to '0.0.0.0' with '(Optional)' labels. A 'Get GMT' button is located below the NTP server fields. The 'Daylight Saving' section has an unchecked 'Enable DaylightSaving' checkbox. The 'Start' field is set to '2016 Mar Last Sun 1am' and the 'End' field is set to '2016 Oct Last Sun 1am'. A note at the bottom states: 'Note: Click the "GET GMT" to update the time from the internet with the pre-defined servers or entering the customized server (IP Address or Domain Name) in the above frames.' A 'Save' button is at the bottom of the form.

➤ To set time manually:

1. Select your local **time zone**.
2. Enter the **Date** in Month/Day/Year format.
3. Enter the **Time** in Hour/Minute/Second format.
4. Click **Save**.

➤ To set time automatically:

1. Select your local **time zone**.
2. Enter the address or domain of the **NTP Server I** or **NTP Server II**.
3. Click **Get GMT** to get time from the internet if you have connected to the internet.

➤ To set Daylight Saving Time:

1. Select **Enable DaylightSaving**.

2. Select the start time from the drop-down list in the **Start** field.
3. Select the end time from the drop-down list in the **End** field.
4. Click **Save**.

Note:

This setting will be used for some time-based functions such as firewall. You must specify your time zone once you log in to the router successfully; otherwise, time-based functions will not take effect.

4.17.2. Diagnostic

Diagnostic 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 **System Tools > Diagnostic**.

Diagnostic Tools

Diagnostic Parameters

Diagnostic Tool: Ping Traceroute

IP Address/ Domain Name:

Ping Count: (1-50)

Ping Packet Size: (4-1472 Bytes)

Ping Timeout: (100-2000 Milliseconds)

Traceroute Max TTL: (1-30)

Diagnostic Results

This device is ready.

- **Diagnostic Tool** - Select one diagnostic tool.
 - **Ping** - This diagnostic tool troubleshoots connectivity, reachability, and name resolution to a given host or gateway.
 - **Tracerouter** - This diagnostic tool tests the performance of a connection.

Note:

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

- **IP Address/Domain Name** - Enter the destination IP address (such as 192.168.0.1) or Domain name (such as www.tp-link.com).
 - **Pings Count** - The number of Ping packets for a Ping connection.
 - **Ping Packet Size** - The size of Ping packet.
 - **Ping Timeout** - Set the waiting time for the reply of each Ping packet. If there is no reply in the specified time, the connection is overtime.
 - **Traceroute Max TTL** - The max number of hops for a Traceroute connection.
3. Click **Start** to check the connectivity of the internet.
 4. The **Diagnostic Results** page displays the diagnosis result. If the result is similar to the following figure, the connectivity of the internet is fine.

```

Diagnostic Results
-----
Pinging 192.168.0.1 with 64 bytes of data:

Reply from 192.168.0.1: bytes=64 time=1 TTL=64 seq=1
Reply from 192.168.0.1: bytes=64 time=1 TTL=64 seq=2
Reply from 192.168.0.1: bytes=64 time=1 TTL=64 seq=3
Reply from 192.168.0.1: bytes=64 time=1 TTL=64 seq=4

Ping statistics for 192.168.0.1
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss)
Approximate round trip times in milliseconds:
Minimum = 1, Maximum = 1, Average = 1
  
```

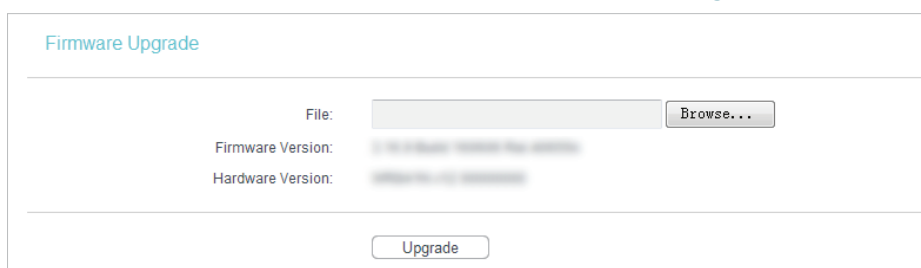
Note:

Only one user can use this tool at one time. Options "Number of Pings", "Ping Size" and "Ping Timeout" are used for the Ping function. Option "Tracert Hops" is used for the Tracert function.

4. 17. 3. Firmware Upgrade

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

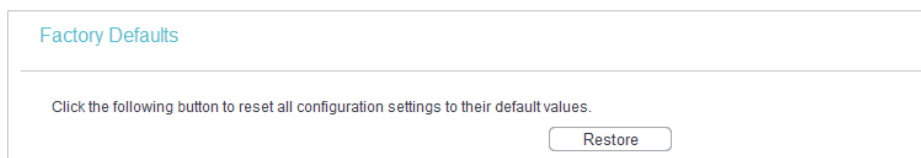
1. Download the latest firmware file for the router from our website www.tp-link.com.
2. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
3. Go to [System Tools > Firmware Upgrade](#).
4. Click [Browse](#) to locate the downloaded firmware file, and click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



The screenshot shows the 'Firmware Upgrade' page. It features a 'File:' label followed by a text input field and a 'Browse...' button. Below this, there are labels for 'Firmware Version:' and 'Hardware Version:' with corresponding text input fields. At the bottom of the page, there is an 'Upgrade' button.

4. 17. 4. Factory Defaults

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [System Tools > Factory Defaults](#). Click [Restore](#) to reset all settings to the default values.



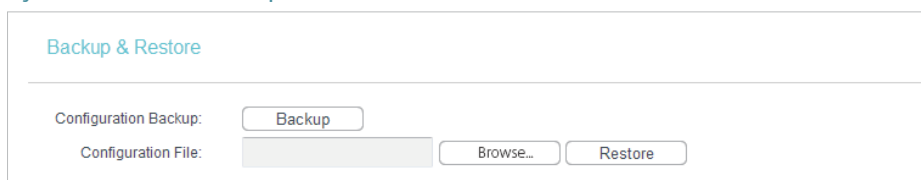
The screenshot shows the 'Factory Defaults' page. It contains a text instruction: 'Click the following button to reset all configuration settings to their default values.' Below this instruction is a 'Restore' button.

- The default [Username](#): admin
- The default [Password](#): admin
- The default [IP Address](#): 192.168.0.1
- The default [Subnet Mask](#): 255.255.255.0

4. 17. 5. Backup & Restore

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

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



The screenshot shows the 'Backup & Restore' page. It has two sections: 'Configuration Backup:' with a 'Backup' button, and 'Configuration File:' with a text input field, a 'Browse...' button, and a 'Restore' button.

➤ **To backup configuration settings:**

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

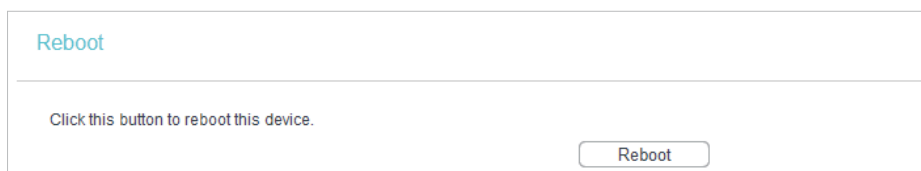
➤ **To restore configuration settings:**

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

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

4.17.6. Reboot

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



Reboot

Click this button to reboot this device.

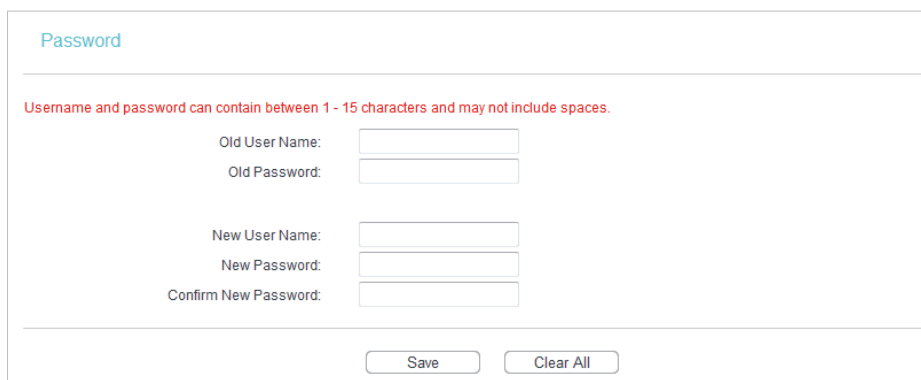
Reboot

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

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

4.17.7. Password

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **System Tools > Password**, and you can change the factory default username and password of the router.



Password

Username and password can contain between 1 - 15 characters and may not include spaces.

Old User Name:

Old Password:

New User Name:

New Password:

Confirm New Password:

Save Clear All

It is strongly recommended that you change the default username and password of the router, for all users that try to access the router's web management page or Quick Setup will be prompted for the router's username and password.

Note: The new username and password must not exceed 15 characters and not include any spacing.

3. Click [Save](#).

4. 17. 8. System Log

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [System Tools > System Log](#), and you can view the logs of the router.

- [Auto Mail Feature](#) - Indicates whether the auto mail feature is enabled or not.
- [Mail Settings](#) - Set the receiving and sending mailbox address, server address, validation information as well as the timetable for Auto Mail Feature.

- **From** - Your mail box address. The router will connect it to send logs.
- **To** - Recipient's mail address. The destination mailbox which will receive logs
- **SMTP Server** - Your smtp server. It corresponds with the mailbox filled in the **From** field. You can log on the relevant website for help if you are not clear with the address.
- **Authentication** - Most SMTP Server requires Authentication. It is required by most mailboxes that need user name and password to log in.

Note: Only when you select Authentication, do you have to enter the username and password in the following fields.

- **User Name** - Your mail account name filled in the From field. The part behind @ is included.
- **Password** - Your mail account password.
- **Confirm The Password** - Enter the password again to confirm.
- **Enable Auto Mail Feature** - Select it to mail logs automatically. You could mail the current logs either at a specified time everyday or by intervals, but only one could be the current effective rule. Enter the desired time or intervals in the corresponding field.

Click **Save** to apply your settings.

Click **Back** to return to the previous page.

- **Log Type** - By selecting the log type, only logs of this type will be shown.
- **Log Level** - By selecting the log level, only logs of this level will be shown.
- **Refresh** - **Refresh** the page to show the latest log list.
- **Save Log** - Click to save all the logs in a "txt" file.
- **Mail Log** - Click to send an email of current logs manually according to the address and validation information set in Mail Settings.
- **Clear Log** - All the logs will be deleted from the router permanently, not just from the page.

Click **Next** to go to the next page, or click **Previous** to return to the previous page.

4.17.9. Statistics

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **System Tools > Statistics**, and you can view the statistics of the router, including total traffic and the value of the last Packet Statistic Interval in seconds.

- **Current Statistics Status** - Enable or Disable. The default value is disabled. To enable, click the Enable button. If disabled, the function of DoS protection in Security settings will be disabled.
- **Packets Statistics Interval (5-60)** - The default value is 10. Select a value between 5 and 60 in the drop-down list. The Packets Statistic Interval indicates the time section of the packets statistic.
- **Sorted Rules** – Choose how displayed statistics are sorted.
- Select **Auto-refresh** to refresh automatically. Click **Refresh** to refresh immediately.
- Click **Reset All** to reset the values of all the entries to zero.
- Click **Delete All** to delete all entries in the table.

Statistics Table

IP/MAC Address	The IP and MAC address are displayed with related statistics.	
Total	Packets	The total number of packets received and transmitted by the router.
	Bytes	The total number of bytes received and transmitted by the router.
Current	Packets	The total number of packets received and transmitted in the last Packets Statistic interval seconds.
	Bytes	The total number of bytes received and transmitted in the last Packets Statistic interval seconds.
	ICMP Tx	The number of the ICMP packets transmitted to WAN per second at the specified Packets Statistics interval. It is shown like "current transmitting rate / Max transmitting rate".
	UDP Tx	The number of UDP packets transmitted to the WAN per second at the specified Packets Statistics interval. It is shown like "current transmitting rate / Max transmitting rate".
	TCP SYN Tx	The number of TCP SYN packets transmitted to the WAN per second at the specified Packets Statistics interval. It is shown like "current transmitting rate / Max transmitting rate".
Modify	Reset	Reset the value of the entry to zero.
	Delete	Delete the existing entry in the table.

4. 18. Log out

Click **Logout** at the bottom of the main menu, and you will log out of the web management page and return to the login window.

Chapter 5

Configure the Router in Access Point Mode

This chapter presents how to configure the various features of the router working as an Access Point.

It contains the following sections:

- [Status](#)
- [WPS](#)
- [Working Mode](#)
- [Network](#)
- [Wireless](#)
- [DHCP](#)
- [System Tools](#)
- [Log Out](#)

5.1. Status

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Status](#). You can view the current status information of the router in Access Point Mode.

The screenshot displays the 'Status' page of a TP-Link router in Access Point Mode. The page is organized into several sections:

- Status:** Shows Firmware Version and Hardware Version.
- Wired:** Displays MAC Address (00-0A-EB-13-09-19), IP Address (192.168.0.1), and Subnet Mask (255.255.255.0).
- Wireless:** Shows Working Mode (Access Point), Wireless Network Name (TP-LINK_0919), Channel (Auto (Current channel 1)), Mode, Channel Width (Automatic), Max Tx Rate (300Mbps), and MAC Address (00-0A-EB-13-09-19).
- Traffic Statistics:** A table showing Bytes and Packets for Received and Sent traffic, all currently at 0.
- System Up Time:** 0 days 02:43:33, with a Refresh button.

- **Firmware Version** - The version information of the router's firmware.
- **Hardware Version** - The version information of the router's hardware.
- **Wired** - This field displays the current settings of the LAN, and you can configure them on the [Network > LAN](#) page.
 - **MAC address** - The physical address of the router.
 - **IP address** - The LAN IP address of the router.
 - **Subnet Mask** - The subnet mask associated with the LAN IP address.
- **Wireless** - This field displays the basic information or status of the wireless function, and you can configure them on the [Wireless > Wireless Settings](#) page.
 - **Working Mode** - The current wireless working mode in use.
 - **Wireless Network Name** - The SSID of the router.

- **Channel** - The current wireless channel.
- **Mode** - The current wireless mode which the router works on.
- **Channel Width** - The current wireless channel width.
- **MAC Address** - The physical address of the router.
- **Traffic Statistics** - The router's traffic statistics.
 - **Received (Bytes)** - Traffic in bytes received from the WAN port.
 - **Received (Packets)** - Traffic in packets received from the WAN port.
 - **Sent (Bytes)** - Traffic in bytes sent out from the WAN port.
 - **Sent (Packets)** - Traffic in packets sent out from the WAN port.
- **System Up Time** - The length of the time since the router was last powered on or reset.

Click **Refresh** to get the latest status and settings of the router.

5.2. WPS

WPS (Wi-Fi Protected Setup) can help you to quickly and securely connect to a wireless network. This section will guide you to add a new wireless device to your router's network quickly via WPS.

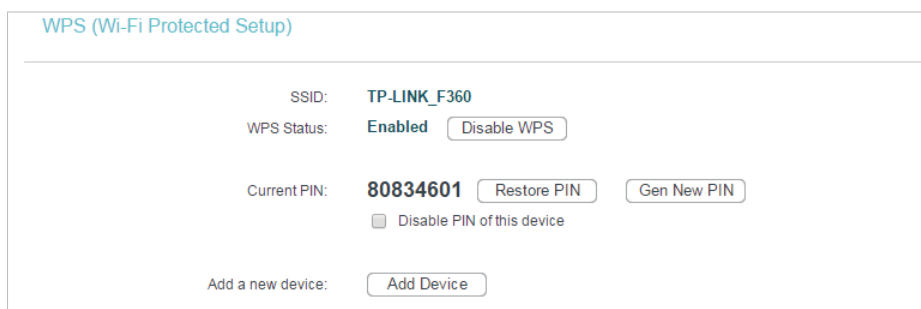
Note:

The WPS function cannot be performed if the wireless function of the router is disabled. Please make sure the wireless function is enabled before configuration.

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **WPS**.
3. Follow one of the following three methods to connect your client device to the router's Wi-Fi network.

Method ONE: Press the WPS Button on Your Client Device

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



The screenshot displays the WPS (Wi-Fi Protected Setup) configuration interface. At the top, the title is "WPS (Wi-Fi Protected Setup)". Below this, the SSID is listed as "TP-LINK_F360". The WPS Status is set to "Enabled", with a "Disable WPS" button next to it. The Current PIN is "80834601", with "Restore PIN" and "Gen New PIN" buttons. There is a checkbox labeled "Disable PIN of this device" which is currently unchecked. At the bottom, there is an "Add a new device:" label and an "Add Device" button.

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

Add A New Device

Enter the new device's PIN.
PIN:

Press the button of the new device in two minutes.

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

Method TWO: Enter the Client's PIN

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

WPS (Wi-Fi Protected Setup)

SSID: **TP-LINK_F360**

WPS Status: **Enabled**

Current PIN: **80834601**

Disable PIN of this device

Add a new device:

2. Select [Enter the new device's PIN](#), enter your client device's current PIN in the [PIN](#) field and click [Connect](#).

Add A New Device

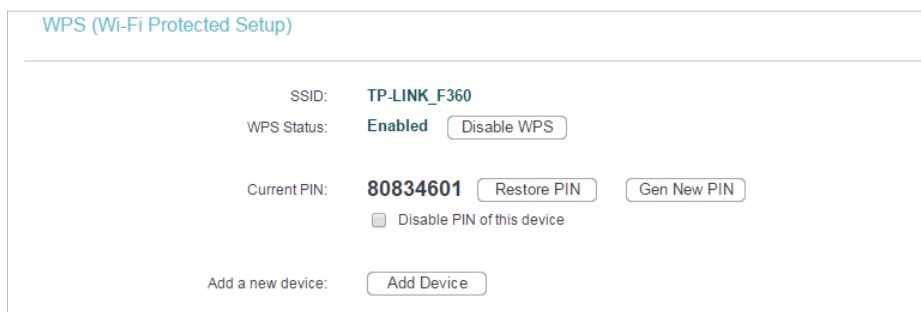
Enter the new device's PIN.
PIN:

Press the button of the new device in two minutes.

3. A success message will appear on the WPS page if the client device has been successfully added to the router's network.

Method Three: Enter the Router's PIN

1. Keep the WPS Status as **Enabled** and get the **Current PIN** of the router.



WPS (Wi-Fi Protected Setup)

SSID: **TP-LINK_F360**

WPS Status: **Enabled**

Current PIN: **80834601**

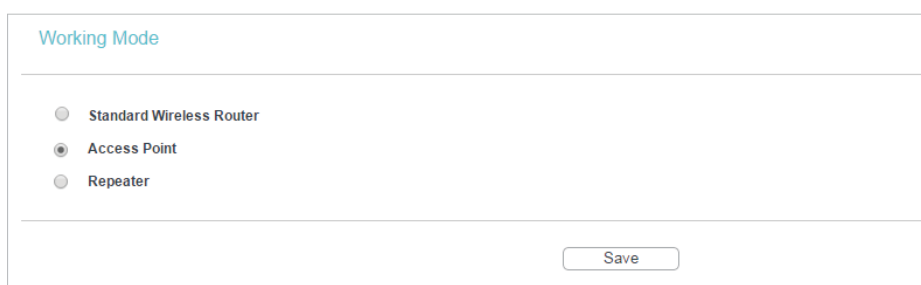
Disable PIN of this device

Add a new device:

2. Enter the router's current PIN on your client device to join the router's Wi-Fi network.

5.3. Working Mode

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **Working Mode**.
3. Select **Access Point** and click **Save**.



Working Mode

Standard Wireless Router

Access Point

Repeater

5.4. Network

5.4.1. LAN

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **Network > LAN**.
3. Configure the IP parameters of the LAN and click **Save**.

LAN

MAC Address: 00-0A-EB-13-09-19

Type:

IP Address:

Subnet Mask:

Gateway:

Note: The IP parameters cannot be configured if you have chosen Smart IP (DHCP)
(In this situation the device will help you configure the IP parameters automatically as you need).

- **MAC Address** - The physical address of the LAN ports. The value can not be changed.
- **Type** - Either select **Smart IP(DHCP)** to get IP address from DHCP server, or **Static IP** to configure IP address manually.
- **IP Address** - Enter the IP address in dotted-decimal notation if your select **Static IP** (factory default - 192.168.0.254).
- **Subnet Mask** - An address code that determines the size of the network. Normally 255.255.255.0 is used as the subnet mask.
- **Gateway** - The gateway should be in the same subnet as your IP address.

Note:

- If you have changed the IP address, you must use the new IP address to log in.
- If you select **Smart IP(DHCP)**, the DHCP server of the router will not start up.
- If the new IP address you set is not in the same subnet as the old one, the IP Address pool in the DHCP Server will be configured automatically, but the Virtual Server and DMZ Host will not take effect until they are re-configured.

5. 5. Wireless

5. 5. 1. Wireless Settings

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **Wireless > Wireless Settings**.
3. Configure the basic settings for the wireless network and click **Save**.

Wireless Settings

Wireless Network Name: (Also called the SSID)

Channel:

Mode:

Channel Width:

Enable Wireless Radio

Enable SSID Broadcast

- **Wireless Network Name** - Enter a string of up to 32 characters. The default SSID is TP-Link_XXXX (XXXX indicates the last unique four numbers of each router's MAC address). It is strongly recommended that you change your network name (SSID). This value is case-sensitive. For example, TEST is NOT the same as test.
- **Channel** - This field determines which operating frequency will be used. The default channel is set to **Auto**. It is not necessary to change the wireless channel unless you notice interference problems with another nearby access point.
- **Mode** - Select the desired mode. It is strongly recommended that you keep the default setting **11bgn mixed**, so that all 802.11b/g/n wireless devices can connect to the router.

Note:

If 11bg mixed mode is selected, the **Channel Width** field will turn gray and the value will become 20M and cannot be changed.

- **Channel Width** - Select any channel width from the drop-down list. The default setting is **Auto**, which can automatically adjust the channel width for your clients.
- **Enable Wireless Radio** - The wireless radio of the router can be enabled or disabled to allow or deny wireless access. If enabled, the wireless clients will be able to access the router.
- **Enable SSID Broadcast** - If enabled, the router will broadcast the wireless network name (SSID).

5.5.2. Wireless Security

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **Wireless > Wireless Security**.
3. Configure the security settings of your wireless network and click **Save**.

Wireless Security

Disable Security

WPA/WPA2 - Personal(Recommended)

Version:

Encryption:

Wireless Password:
(You can enter ASCII characters between 8 and 63 or Hexadecimal characters between 8 and 64.)

Group Key Update Period: Seconds
(Keep it default if you are not sure, minimum is 30. 0 means no update)

WPA/WPA2 - Enterprise

Version:

Encryption:

Radius Server IP:

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

Radius Password:

Group Key Update Period: (In second, minimum is 30. 0 means no update)

WEP

Type:

WEP Key Format:

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

- **Disable Security** - The wireless security function can be enabled or disabled. If disabled, wireless clients can connect to the router without a password. It's strongly recommended to choose one of the following modes to enable security.
- **WPA-PSK/WPA2-Personal** - It's the WPA/WPA2 authentication type based on pre-shared passphrase.
 - **Version** - Select **Automatic**, **WPA-PSK** or **WPA2-PSK**.
 - **Encryption** - Select **Automatic**, **TKIP** or **AES**.
 - **Wireless Password** - Enter ASCII or Hexadecimal characters. For Hexadecimal, the length should be between 8 and 64 characters; for ASCII, the length should be between 8 and 63 characters.
 - **Group Key Update Period** - Specify the group key update interval in seconds. The value can be 0 or at least 30. Enter 0 to disable the update.
- **WPA /WPA2-Enterprise** - It's based on Radius Server.
 - **Version** - Select **Automatic**, **WPA** or **WPA2**.
 - **Encryption** - Select **Automatic**, **TKIP** or **AES**.
 - **Radius Server IP** - Enter the IP address of the Radius server.
 - **Radius Port** - Enter the port that Radius server used.
 - **Radius Password** - Enter the password for the Radius server.

- **Group Key Update Period** - Specify the group key update interval in seconds. The value should be 30 or above. Enter 0 to disable the update.
- **WEP** - It is based on the IEEE 802.11 standard.
 - **Type** - The default setting is **Automatic**, which can select Shared Key or Open System authentication type automatically based on the wireless client's capability and request.
 - **WEP Key Format** - Hexadecimal and ASCII formats are provided here. Hexadecimal format stands for any combination of hexadecimal digits (0-9, a-f, A-F) in the specified length. ASCII format stands for any combination of keyboard characters in the specified length.
 - **WEP Key (Password)** - Select which of the four keys will be used and enter the matching WEP key. Make sure these values are identical on all wireless clients in your network.
 - **Key Type** - Select the WEP key length (64-bit, 128-bit or 152-bit) for encryption. **Disabled** means this WEP key entry is invalid.
 - **64-bit** - Enter 10 hexadecimal digits (any combination of 0-9, a-f and A-F. Null key is not permitted) or 5 ASCII characters.
 - **128-bit** - Enter 26 hexadecimal digits (any combination of 0-9, a-f and A-F. Null key is not permitted) or 13 ASCII characters.
 - **152-bit** - Enter 32 hexadecimal digits (any combination of 0-9, a-f and A-F. Null key is not permitted) or 16 ASCII characters.

5.5.3. Wireless MAC Filtering

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

I want to: Deny or allow specific wireless client devices to access my network by their MAC addresses.

For example, you want the wireless client A with the MAC address 00-0A-EB-B0-00-0B and the wireless client B with the MAC address 00-0A-EB-00-07-5F to access the router, but other wireless clients cannot access the router

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 **Wireless > Wireless MAC Filtering**.
3. Click **Enable** to enable the Wireless MAC Filtering function.

4. Select **Allow the stations specified by any enabled entries in the list to access** as the filtering rule.
5. Delete all or disable all entries if there are any entries already.
6. Click **Add New** and fill in the blank.

Add or Modify Wireless MAC Address Filtering entry

MAC Address:

Description:

Status:

- 1) Enter the MAC address 00-0A-EB-B0-00-0B/00-0A-EB-00-07-5F in the MAC Address field.
 - 2) Enter wireless client A/B in the Description field.
 - 3) Select **Enabled** in the Status drop-down list.
 - 4) Click **Save** and click **Back**.
7. The configured filtering rules should be listed as the picture shows below.

Filtering Rules

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

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

ID	MAC Address	Status	Description	Modify
1	00-0A-EB-B0-00-0B	Enabled	Client A	Modify Delete
2	00-0A-EB-00-07-5F	Enabled	Client B	Modify Delete

Done!

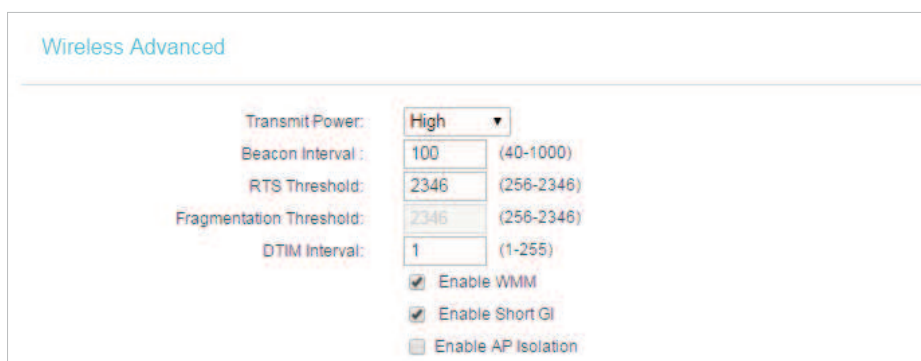
Now only client A and client B can access your network.

5.5.4. Wireless Advanced

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

Note:

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



Wireless Advanced

Transmit Power:	High	
Beacon Interval :	100	(40-1000)
RTS Threshold:	2346	(256-2346)
Fragmentation Threshold:	2346	(256-2346)
DTIM Interval:	1	(1-255)

Enable WMM
 Enable Short GI
 Enable AP Isolation

- **Transmit Power** - Select **High**, **Middle** or **Low** which you would like to specify for the router. **High** is the default setting and recommended.
- **Beacon Interval** - Enter a value between 40-1000 milliseconds for Beacon Interval here. Beacon Interval value determines the time interval of the beacons. The beacons are the packets sent by the router to synchronize a wireless network. The default value is 100.
- **RTS Threshold** - Here you can specify the RTS (Request to Send) Threshold. If the packet is larger than the specified RTS Threshold size, the router will send RTS frames to a particular receiving station and negotiate the sending of a data frame. The default value is 2346.
- **Fragmentation Threshold** - This value is the maximum size determining whether packets will be fragmented. Setting a low value for the Fragmentation Threshold may result in poor network performance because of excessive packets. 2346 is the default setting and is recommended.
- **DTIM Interval** - This value determines the interval of the Delivery Traffic Indication Message (DTIM). A DTIM field is a countdown field informing clients of the next window for listening to broadcast and multicast messages. When the router has buffered broadcast or multicast messages for associated clients, it sends the next DTIM with a DTIM Interval value. You can specify the value between 1-255 Beacon Intervals. The default value is 1, which indicates the DTIM Interval is the same as Beacon Interval.
- **Enable WMM** - WMM function can guarantee the packets with high-priority messages being transmitted preferentially. It is strongly recommended to enable this function.
- **Enable Short GI** - It is recommended to enable this function, for it will increase the data capacity by reducing the guard interval time.
- **Enable AP Isolation** - This function isolates all connected wireless stations so that wireless stations cannot access each other through WLAN. This function will be disabled if WDS/Bridge is enabled.

5. 5. 5. Wireless Statistics

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

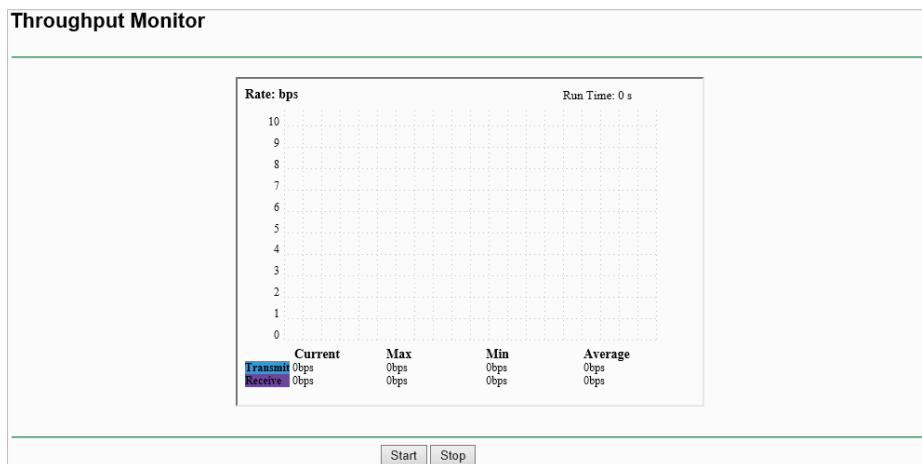
2. Go to **Wireless > Wireless Statistics** to check the data packets sent and received by each client device connected to the router.

Wireless Statistics					
Current Connected Wireless Stations numbers: 1					<input type="button" value="Refresh"/>
ID	MAC Address	Current Status	Received Packets	Sent Packets	Configure
1	D0-51-62-27-C0-42	WPA2-PSK	65	33	<input type="button" value="Deny"/>
		<input type="button" value="Previous"/>	<input type="button" value="Next"/>		

- **MAC Address** - The MAC address of the connected wireless client.
- **Current Status** - The running status of the connected wireless client.
- **Received Packets** - Packets received by the wireless client.
- **Sent Packets** - Packets sent by the wireless client.
- **Configure** - The button is used for loading the item to the Wireless MAC Filtering list.
 - **Allow** - If the Wireless MAC Filtering function is enabled, click this button to allow the client to access your network.
 - **Deny** - If the Wireless MAC Filtering function is enabled, click this button to deny the client to access your network.

5.5.6. Throughput Monitor

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **Wireless > Throughput Monitor** to view the wireless throughput information.



- **Rate** - The unit for the Throughput.
- **Run Time** - How long the Throughput Monitor runs.
- **Transmit** - Wireless transmit rate information.
- **Receive** - Wireless receive rate information.

Click **Start / Stop** to start or stop wireless throughput monitor.

5.6. DHCP

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 addresses for specified client devices.

5.6.1. DHCP Settings

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **DHCP > DHCP Settings**.
3. Specify DHCP server settings and click **Save**.

DHCP Settings

DHCP Server: Disable Enable

Start IP Address:

End IP Address:

Address Lease Time: minutes (1~2880 minutes, the default value is 120)

Default Gateway:

Default Domain: (Optional)

Primary DNS: (Optional)

Secondary DNS: (Optional)

- **DHCP Server** - Enable or disable the DHCP server. If disabled, you must have another DHCP server within your network or else you must configure the computer manually.
- **Start IP Address** - Specify an IP address for the DHCP Server to start with when assigning IP addresses. 192.168.0.100 is the default start address.
- **End IP Address** - Specify an IP address for the DHCP Server to end with when assigning IP addresses. 192.168.0.199 is the default end address.
- **Address Lease Time** - The Address Lease Time is the amount of time a network user will be allowed to connect to the router with the current dynamic IP Address. When time is up, the user will be automatically assigned a new dynamic IP address. The range of the time is 1 ~ 2880 minutes. The default value is 120.

- **Default Gateway (Optional)** - It is suggested to input the IP address of the LAN port of the router. The default value is 192.168.0.254.
- **Default Domain (Optional)** - Input the domain name of your network.
- **Primary DNS (Optional)** - Input the DNS IP address provided by your ISP.
- **Secondary DNS (Optional)** - Input the IP address of another DNS server if your ISP provides two DNS servers.

Note:

- To use the DHCP server function of the router, you must configure all computers on the LAN as **Obtain an IP Address automatically**.
- When you choose **Smart IP (DHCP)** in **Network > LAN**, the DHCP Server function will be disabled. You will see the page as below.

DHCP Settings

DHCP Server: Disable Enable

Start IP Address:

End IP Address:

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

Default Gateway: (Optional)

Default Domain: (Optional)

Primary DNS: (Optional)

Secondary DNS: (Optional)

5.6.2. DHCP Client List

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **DHCP > DHCP Client List** to view the information of the clients connected to the router.

DHCP Client List

ID	Client Name	MAC Address	Assigned IP	Lease Time
1	xxxxxx	xxxx:xxxx:xxxx:xxxx:xxxx:xxxx	192.168.0.100	01:22:00
2	xxxxxx	xxxx:xxxx:xxxx:xxxx:xxxx:xxxx	192.168.0.101	01:55:07

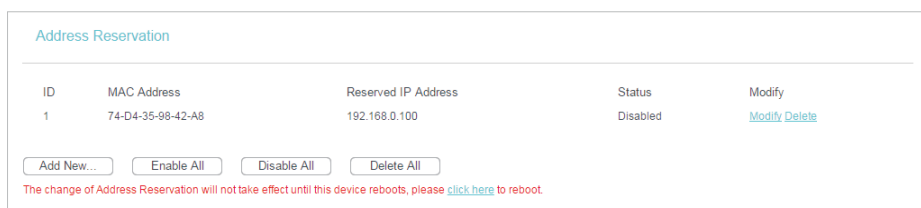
- **Client Name** - The name of the DHCP client.
- **MAC Address** - The MAC address of the DHCP client.
- **Assigned IP** - The IP address that the router has allocated to the DHCP client.
- **Lease Time** - The time of the DHCP client leased. After the dynamic IP address has expired, a new dynamic IP address will be automatically assigned to the user.

You cannot change any of the values on this page. To update this page and show the current attached devices, click [Refresh](#).

5.6.3. Address Reservation

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

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [DHCP > Address Reservation](#).
3. Click [Add New](#) and fill in the blank.



ID	MAC Address	Reserved IP Address	Status	Modify
1	74-D4-35-98-42-A8	192.168.0.100	Disabled	Modify Delete

[Add New...](#) [Enable All](#) [Disable All](#) [Delete All](#)

The change of Address Reservation will not take effect until this device reboots, please [click here](#) to reboot.

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

5.7. System Tools

5.7.1. Diagnostic

Diagnostic 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 [System Tools > Diagnostic](#).

Diagnostic Tools

Diagnostic Parameters

Diagnostic Tool: Ping Traceroute

IP Address/ Domain Name:

Ping Count: (1-50)

Ping Packet Size: (4-1472 Bytes)

Ping Timeout: (100-2000 Milliseconds)

Traceroute Max TTL: (1-30)

Diagnostic Results

This device is ready.

- **Diagnostic Tool** - Select one diagnostic tool.
 - **Ping** - This diagnostic tool troubleshoots connectivity, reachability, and name resolution to a given host or gateway.
 - **Tracerouter** - This diagnostic tool tests the performance of a connection.

Note:

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

- **IP Address/Domain Name** - Enter the destination IP address (such as 192.168.0.1) or Domain name (such as www.tp-link.com).
 - **Pings Count** - The number of Ping packets for a Ping connection.
 - **Ping Packet Size** - The size of Ping packet.
 - **Ping Timeout** - Set the waiting time for the reply of each Ping packet. If there is no reply in the specified time, the connection is overtime.
 - **Traceroute Max TTL** - The max number of hops for a Traceroute connection.
3. Click **Start** to check the connectivity of the internet.
 4. The **Diagnostic Results** page displays the diagnosis result. If the result is similar to the following figure, the connectivity of the internet is fine.

```

Diagnostic Results
-----
Pinging 192.168.0.1 with 64 bytes of data:

Reply from 192.168.0.1: bytes=64 time=1 TTL=64 seq=1
Reply from 192.168.0.1: bytes=64 time=1 TTL=64 seq=2
Reply from 192.168.0.1: bytes=64 time=1 TTL=64 seq=3
Reply from 192.168.0.1: bytes=64 time=1 TTL=64 seq=4

Ping statistics for 192.168.0.1
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss)
Approximate round trip times in milliseconds:
Minimum = 1, Maximum = 1, Average = 1

```

Note:

Only one user can use this tool at one time. Options "Number of Pings", "Ping Size" and "Ping Timeout" are used for the Ping function. Option "Tracert Hops" is used for the Tracert function.

5.7.2. Ping Watch Dog

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

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **System Tools > Ping Watch Dog**. Configure the settings and click **Save**.

Ping Watch Dog Utility

Enable:

IP Address:

Interval: (10-300) seconds

Delay: (60-300) seconds

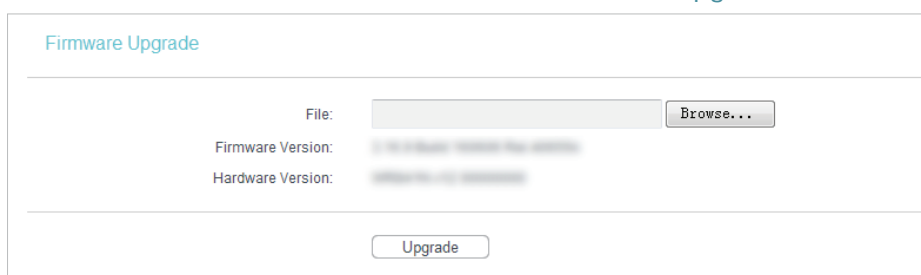
Fail Count: (1-65535)

- **Enable** - Turn on/off Ping Watch Dog.
- **IP Address** - The IP address of the target host where the Ping Watch Dog Utility is sending ping packets.
- **Interval** - Time interval between two ping packets which are sent out continuously.
- **Delay** - Time delay before first ping packet is sent out when the router is restarted.
- **Fail Count** - Upper limit of the ping packets the router can drop continuously. If this value is overrun, the router will restart automatically.

5.7.3. Firmware Upgrade

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

1. Download the latest firmware file for the router from our website 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 [System Tools > Firmware Upgrade](#).
4. Click [Browse](#) to locate the downloaded firmware file, and click [Upgrade](#).



Firmware Upgrade

File: [Browse...](#)

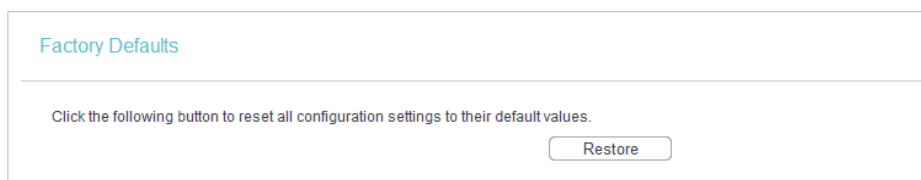
Firmware Version:

Hardware Version:

[Upgrade](#)

5.7.4. Factory Defaults

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [System Tools > Factory Defaults](#). Click [Restore](#) to reset all settings to the default values.



Factory Defaults

Click the following button to reset all configuration settings to their default values.

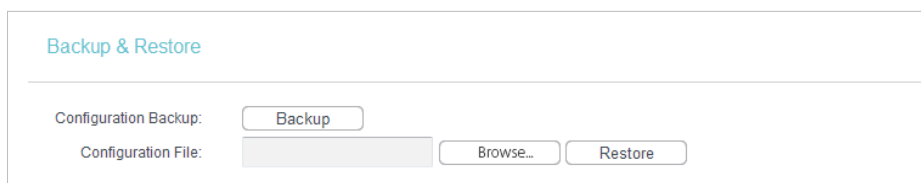
[Restore](#)

- The default [Username](#): admin
- The default [Password](#): admin
- The default [IP Address](#): 192.168.0.254
- The default [Subnet Mask](#): 255.255.255.0

5.7.5. Backup & Restore

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

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



- To backup configuration settings:

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

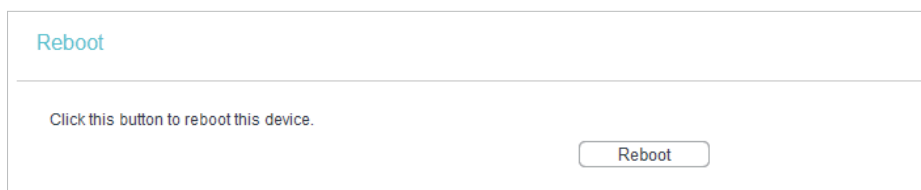
- To restore configuration settings:

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

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

5.7.6. Reboot

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



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

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

5.7.7. Password

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [System Tools > Password](#), and you can change the factory default username and password of the router.

Password

Username and password can contain between 1 - 15 characters and may not include spaces.

Old User Name:

Old Password:

New User Name:

New Password:

Confirm New Password:

It is strongly recommended that you change the default username and password of the router, for all users that try to access the router's web-based utility or Quick Setup will be prompted for the router's username and password.

Note:

The new username and password must not exceed 15 characters and not include any spacing.

3. Click [Save](#).

5.7.8. System Log

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [System Tools > System Log](#), and you can view the logs of the router.

System Log

Auto Mail Feature: **Disabled**

Log Type: **ALL** Log Level: **ALL**

Log is Empty.

Time =
H-Ver = : S-Ver =
L = 192.168.0.118 : M = 255.255.255.0
W1 = DHCP : W = 0.0.0.0 : M = 0.0.0.0 : G = 0.0.0.0

Current No. **1** Page

- [Auto Mail Feature](#) - Indicates whether the auto mail feature is enabled or not.
- [Mail Settings](#) - Set the receiving and sending mailbox address, server address, validation information as well as the timetable for Auto Mail Feature.

Mail Account Settings

From:

To:

SMTP Server:

Authentication

User Name:

Password:

Confirm The Password:

Enable Auto Mail Feature

Everyday, mail the log at : (HH:MM)

Mail the log every hours

- **From** - Your mail box address. The router will connect it to send logs.
- **To** - Recipient's mail address. The destination mailbox which will receive logs.
- **SMTP Server** - Your smtp server. It corresponds with the mailbox filled in the **From** field. You can log on the relevant website for help if you are not clear with the address.
- **Authentication** - Most SMTP Server requires Authentication. It is required by most mailboxes that need user name and password to log in.

Note:

Only when you select Authentication, do you have to enter the user name and password in the following fields.

- **User Name** - Your mail account name filled in the From field. The part behind @ is included.
- **Password** - Your mail account password.
- **Confirm The Password** - Enter the password again to confirm.
- **Enable Auto Mail Feature** - Select it to mail logs automatically. You could mail the current logs either at a specified time everyday or by intervals, but only one could be the current effective rule. Enter the desired time or intervals in the corresponding field.

Click **Save** to apply your settings.

Click **Back** to return to the previous page.

- **Log Type** - By selecting the log type, only logs of this type will be shown.
- **Log Level** - By selecting the log level, only logs of this level will be shown.
- **Refresh** - **Refresh** the page to show the latest log list.

- [Save Log](#) - Click to save all the logs in a txt file.
- [Mail Log](#) - Click to send an email of current logs manually according to the address and validation information set in Mail Settings.
- [Clear Log](#) - All the logs will be deleted from the router permanently, not just from the page.

Click [Next](#) to go to the next page, or click [Previous](#) to return to the previous page.

5. 8. Log Out

Click [Logout](#) at the bottom of the main menu, and you will log out of the web page and return to the login window.

Chapter 6

Configure the Router in Repeater Mode

This chapter presents how to configure the various features of the router working as a Repeater.

It contains the following sections:

- [Status](#)
- [Working Mode](#)
- [Network](#)
- [Wireless](#)
- [DHCP](#)
- [System Tools](#)
- [Log Out](#)

6.1. Status

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Status](#). You can view the current status information of the router in Repeater Mode.

The screenshot displays the 'Status' page of a TPLINK router. It is divided into several sections:

- Status:** Shows Firmware Version and Hardware Version.
- Wired:** Shows MAC Address (00-0A-EB-13-09-19), IP Address (192.168.0.1), and Subnet Mask (255.255.255.0).
- Wireless:** Shows Working Mode (WDS Repeater), Wireless Name of Root AP, Channel (1), Mode, Channel Width (Automatic), Max Tx Rate (300Mbps), MAC Address (00-0A-EB-13-09-19), and Repeater Status (Init...).
- Traffic Statistics:** A table showing Bytes and Packets Received and Sent, all currently at 0.
- System Up Time:** 0 days 00:17:18.

A 'Refresh' button is located at the bottom right of the page.

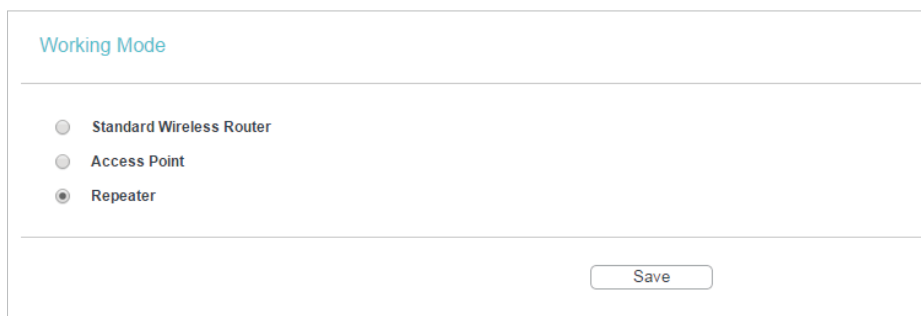
- **Firmware Version** - The version information of the router's firmware.
- **Hardware Version** - The version information of the router's hardware.
- **Wired** - This field displays the current settings of the LAN, and you can configure them on the [Network > LAN](#) page.
 - **MAC address** - The physical address of the router.
 - **IP address** - The LAN IP address of the router.
 - **Subnet Mask** - The subnet mask associated with the LAN IP address.
- **Wireless** - This field displays the basic information or status of the wireless function, and you can configure them on the [Wireless > Wireless Settings](#) page.
 - **Working Mode** - The current operation mode.
 - **Wireless Name of Root AP** - The SSID of the root router.

- **Channel** - The current wireless channel.
- **Mode** - The current wireless working mode.
- **Channel Width** - The current wireless channel width.
- **MAC Address** - The physical address of the router.
- **Traffic Statistics** - The router's traffic statistics.
 - **Received (Bytes)** - Traffic in bytes received from the WAN port.
 - **Received (Packets)** - Traffic in packets received from the WAN port.
 - **Sent (Bytes)** - Traffic in bytes sent out from the WAN port.
 - **Sent (Packets)** - Traffic in packets sent out from the WAN port.
- **System Up Time** - The length of the time since the router was last powered on or reset.

Click **Refresh** to get the latest status and settings of the router.

6.2. Working Mode

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **Working Mode**.
3. Select **Repeater** as needed and click **Save**.



Working Mode

Standard Wireless Router

Access Point

Repeater

Save

6.3. Network

6.3.1. LAN

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **Network > LAN**.
3. Configure the IP parameters of the LAN and click **Save**.

LAN

MAC Address: 00-0A-EB-13-09-19

Type: Smart IP(DHCP) ▾

IP Address: 192.168.0.1

Subnet Mask: 255.255.255.0 ▾

Gateway: 0.0.0.0

Note: The IP parameters cannot be configured if you have chosen Smart IP (DHCP)
(In this situation the device will help you configure the IP parameters automatically as you need).

Save

- **MAC Address** - The physical address of the LAN ports. The value can not be changed.
- **Type** - Either select **Smart IP(DHCP)** to get IP address from DHCP server, or **Static IP** to configure IP address manually.
- **IP Address** - Enter the IP address in dotted-decimal notation if your select **Static IP** (factory default - 192.168.0.254).
- **Subnet Mask** - An address code that determines the size of the network. Normally 255.255.255.0 is used as the subnet mask.
- **Gateway** - The gateway should be in the same subnet as your IP address.

Note:

- If you have changed the IP address, you must use the new IP address to log in.
- If you select **Smart IP(DHCP)**, the DHCP server of the router will not start up.
- If the new IP address you set is not in the same subnet as the old one, the IP Address pool in the DHCP Server will be configured automatically, but the Virtual Server and DMZ Host will not take effect until they are re-configured.

6. 4. Wireless

6. 4. 1. Wireless Settings

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **Wireless > Wireless Settings**.
3. Configure the basic settings for the wireless network and click **Save**.

Wireless Name of Root AP:

MAC Address of Root AP:

Mode: 11bgn mixed ▾

Channel Width: Auto ▾

WDS Mode: Auto ▾

Enable Wireless Radio

Survey

- **Wireless Name of Root AP** - The SSID of AP that you want to connect to.
- **MAC Address of Root AP** - The MAC address of AP that you want to connect to.
- **Mode** - Select the desired mode. It is strongly recommended that you keep the default setting **11bgn mixed**, so that all 802.11b/g/n wireless devices can connect to the router.

Note:

If 11bgn mixed mode is selected, the **Channel Width** field will turn grey and the value will become 20M, and cannot be changed.

- **Channel Width** - Select any channel width from the drop-down list. The default setting is **Auto**, which can automatically adjust the channel width for your clients.
- **WDS Mode** - This field determines which WDS Mode will be used. It is not necessary to change the WDS mode unless you notice network communication problems with root AP. If you select **Auto**, then router will choose the appropriate WDS mode automatically.
- **Enable Wireless Router Radio** - The wireless radio of the router can be enabled or disabled to allow or deny wireless access. If enabled, the wireless clients will be able to access the router.
- **Survey** - Click this button, and the **AP List** page will appear. Find the SSID of the Access Point you want to connect to, and click **Connect** in the corresponding row. The target network's SSID and MAC address will be automatically filled into the corresponding box.

AP List

AP Count: 43

ID	BSSID	SSID	Signal	Channel	Security	Choose
1	88-63-DF-93-9E-E5	mengmeng	40dB	11	WPA2-PSK	Connect
2	00-0A-EB-42-52-35	TP-LINK_5235	40dB	10	WPA2-PSK	Connect
3	40-16-9F-70-B0-C4	TP-LINK_B0C4	39dB	2	WPA2-PSK	Connect
4	00-0A-EB-13-01-01	TP-LINK_0101	38dB	1	WPA-PSK/WPA2-PSK	Connect
5	88-63-DF-96-A1-61	TP-LINK_0303	37dB	11	WPA2-PSK	Connect
6	88-63-DF-96-A2-23	à"jæ²jæce%çççè.ä**	37dB	11	WPA2-PSK	Connect

6.4.2. Wireless Security

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **Wireless > Wireless Security**.
3. Configure the security settings of your wireless network and click **Save**.

Wireless Security

Disable Security

WPA/WPA2 - Personal(Recommended)

Version:

Encryption:

Wireless Password:
(You can enter ASCII characters between 8 and 63 or Hexadecimal characters between 8 and 64.)

Group Key Update Period: Seconds
(Keep it default if you are not sure, minimum is 30, 0 means no update)

WPA/WPA2 - Enterprise

Version:

Encryption:

Radius Server IP:

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

Radius Password:

Group Key Update Period: (in second, minimum is 30, 0 means no update)

WEP

Type:

WEP Key Format:

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

- **Disable Security** - The wireless security function can be enabled or disabled. If disabled, wireless clients can connect to the router without a password. It's strongly recommended to choose one of the following modes to enable security.
- **WPA-PSK/WPA2-Personal** - It's the WPA/WPA2 authentication type based on pre-shared passphrase.
 - **Version** - Select **Automatic**, **WPA-PSK** or **WPA2-PSK**.
 - **Encryption** - Select **Automatic**, **TKIP** or **AES**.
 - **Wireless Password** - Enter ASCII or Hexadecimal characters. For Hexadecimal, the length should be between 8 and 64 characters; for ASCII, the length should be between 8 and 63 characters.
 - **Group Key Update Period** - Specify the group key update interval in seconds. The value can be 0 or at least 30. Enter 0 to disable the update.
- **WPA /WPA2-Enterprise** - It's based on Radius Server.
 - **Version** - Select **Automatic**, **WPA** or **WPA2**.
 - **Encryption** - Select **Automatic**, **TKIP** or **AES**.
 - **Radius Server IP** - Enter the IP address of the Radius server.
 - **Radius Port** - Enter the port that Radius server used.
 - **Radius Password** - Enter the password for the Radius server.

- **Group Key Update Period** - Specify the group key update interval in seconds. The value should be 30 or above. Enter 0 to disable the update.
- **WEP** - It is based on the IEEE 802.11 standard.
 - **Type** - The default setting is **Automatic**, which can select Shared Key or Open System authentication type automatically based on the wireless client's capability and request.
 - **WEP Key Format** - Hexadecimal and ASCII formats are provided here. Hexadecimal format stands for any combination of hexadecimal digits (0-9, a-f, A-F) in the specified length. ASCII format stands for any combination of keyboard characters in the specified length.
 - **WEP Key (Password)** - Select which of the four keys will be used and enter the matching WEP key. Make sure these values are identical on all wireless clients in your network.
 - **Key Type** - Select the WEP key length (64-bit, 128-bit or 152-bit) for encryption. **Disabled** means this WEP key entry is invalid.
 - **64-bit** - Enter 10 hexadecimal digits (any combination of 0-9, a-f and A-F. Null key is not permitted) or 5 ASCII characters.
 - **128-bit** - Enter 26 hexadecimal digits (any combination of 0-9, a-f and A-F. Null key is not permitted) or 13 ASCII characters.
 - **152-bit** - Enter 32 hexadecimal digits (any combination of 0-9, a-f and A-F. Null key is not permitted) or 16 ASCII characters.

6.4.3. Wireless MAC Filtering

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

I want to:

Deny or allow specific wireless client devices to access my network by their MAC addresses.

How can I do that?

For example, you want the wireless client A with the MAC address 00-0A-EB-B0-00-0B and the wireless client B with the MAC address 00-0A-EB-00-07-5F to access the router, but other wireless clients cannot access the router

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **Wireless > Wireless MAC Filtering**.
3. Click **Enable** to enable the Wireless MAC Filtering function.

4. Select **Allow the stations specified by any enabled entries in the list to access** as the filtering rule.
5. Delete all or disable all entries if there are any entries already.
6. Click **Add New** and fill in the blank.

Add or Modify Wireless MAC Address Filtering entry

MAC Address:

Description:

Status:

- 1) Enter the MAC address 00-0A-EB-B0-00-0B/00-0A-EB-00-07-5F in the MAC Address field.
 - 2) Enter wireless client A/B in the Description field.
 - 3) Leave the status as **Enabled**.
 - 4) Click **Save** and click **Back**.
7. The configured filtering rules should be listed as the picture shows below.

Filtering Rules

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

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

ID	MAC Address	Status	Description	Modify
1	00-0A-EB-B0-00-0B	Enabled	Client A	Modify Delete
2	00-0A-EB-00-07-5F	Enabled	Client B	Modify Delete

Done!

Now only client A and client B can access your network.

6.4.4. Wireless Advanced

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

Note:

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

Wireless Advanced

Transmit Power: High

Beacon Interval: 100 (40-1000)

RTS Threshold: 2346 (256-2346)

Fragmentation Threshold: 2346 (256-2346)

DTIM Interval: 1 (1-255)

Enable WMM

Enable Short GI

Enable AP Isolation

Save

- **Transmit Power** - Select **High**, **Middle** or **Low** which you would like to specify for the router. **High** is the default setting and recommended.
- **Beacon Interval** - Enter a value between 40-1000 milliseconds for Beacon Interval here. Beacon Interval value determines the time interval of the beacons. The beacons are the packets sent by the Router to synchronize a wireless network. The default value is 100.
- **RTS Threshold** - Here you can specify the RTS (Request to Send) Threshold. If the packet is larger than the specified RTS Threshold size, the Router will send RTS frames to a particular receiving station and negotiate the sending of a data frame. The default value is 2346.
- **Fragmentation Threshold** - This value is the maximum size determining whether packets will be fragmented. Setting a low value for the Fragmentation Threshold may result in poor network performance because of excessive packets. 2346 is the default setting and is recommended.
- **DTIM Interval** - This value determines the interval of the Delivery Traffic Indication Message (DTIM). A DTIM field is a countdown field informing clients of the next window for listening to broadcast and multicast messages. When the Router has buffered broadcast or multicast messages for associated clients, it sends the next DTIM with a DTIM Interval value. You can specify the value between 1-255 Beacon Intervals. The default value is 1, which indicates the DTIM Interval is the same as Beacon Interval.
- **Enable WMM** - WMM function can guarantee the packets with high-priority messages being transmitted preferentially. It is strongly recommended to enable this function.
- **Enable Short GI** - It is recommended to enable this function, for it will increase the data capacity by reducing the guard interval time.
- **Enable AP Isolation** - This function isolates all connected wireless stations so that wireless stations cannot access each other through WLAN. This function will be disabled if WDS/Bridge is enabled.

6.4.5. Wireless Statistics

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Wireless > Wireless Statistics](#) to check the data packets sent and received by each client device connected to the router.

ID	MAC Address	Current Status	Received Packets	Sent Packets	Configure
1	D0-51-62-27-C0-42	WPA2-PSK	65	33	Deny

- **MAC Address** - The MAC address of the connected wireless client.
- **Current Status** - The running status of the connected wireless client.
- **Received Packets** - Packets received by the wireless client.
- **Sent Packets** - Packets sent by the wireless client.
- **Configure** - The button is used for loading the item to the Wireless MAC Filtering list.
 - **Allow** - If the Wireless MAC Filtering function is enabled, click this button to allow the client to access your network.
 - **Deny** - If the Wireless MAC Filtering function is enabled, click this button to deny the client to access your network.

6.4.6. Throughput Monitor

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Wireless > Throughput Monitor](#) to view the wireless throughput information.



- **Rate** - The unit for the Throughput.
- **Run Time** - How long Throughput Monitor runs.

- **Transmit** - Wireless transmit rate information.
- **Receive** - Wireless receive rate information.

Click **Start / Stop** to start or stop wireless throughput monitor.

6.5. DHCP

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 addresses for specified client devices.

6.5.1. DHCP Settings

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **DHCP > DHCP Settings**.
3. Specify DHCP server settings and click **Save**.

DHCP Settings

DHCP Server: Disable Enable

Start IP Address:

End IP Address:

Address Lease Time: minutes (1~2880 minutes, the default value is 120)

Default Gateway:

Default Domain: (Optional)

Primary DNS: (Optional)

Secondary DNS: (Optional)

- **DHCP Server** - Enable or disable the DHCP server. If disabled, you must have another DHCP server within your network or else you must configure the computer manually.
- **Start IP Address** - Specify an IP address for the DHCP Server to start with when assigning IP addresses. 192.168.0.100 is the default start address.
- **End IP Address** - Specify an IP address for the DHCP Server to end with when assigning IP addresses. 192.168.0.199 is the default end address.
- **Address Lease Time** - The Address Lease Time is the amount of time a network user will be allowed to connect to the router with the current dynamic IP Address. When time is up, the user will be automatically assigned a new dynamic IP address. The range of the time is 1 ~ 2880 minutes. The default value is 120.
- **Default Gateway (Optional)** - It is suggested to input the IP address of the LAN port of the router. The default value is 192.168.0.254.

- **Default Domain (Optional)** - Input the domain name of your network.
- **Primary DNS (Optional)** - Input the DNS IP address provided by your ISP.
- **Secondary DNS (Optional)** - Input the IP address of another DNS server if your ISP provides two DNS servers.

Note:

- To use the DHCP server function of the router, you must configure all computers on the LAN as **Obtain an IP Address automatically**.
- When you choose **Static IP** in **Network > LAN**, the DHCP Server function will be disabled.

6.5.2. DHCP Client List

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **DHCP > DHCP Client List** to view the information of the clients connected to the router.

ID	Client Name	MAC Address	Assigned IP	Lease Time
1	xxxxxx	xxxxxx:xxxxxx:xxxxxx	192.168.0.100	01:22:00
2	xxxxxx	xxxxxx:xxxxxx:xxxxxx	192.168.0.101	01:55:07

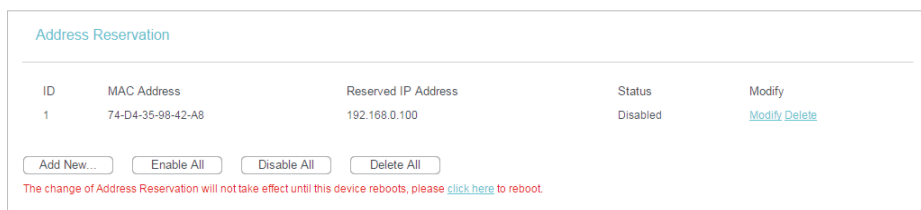
- **Client Name** - The name of the DHCP client.
- **MAC Address** - The MAC address of the DHCP client.
- **Assigned IP** - The IP address that the router has allocated to the DHCP client.
- **Lease Time** - The time of the DHCP client leased. After the dynamic IP address has expired, a new dynamic IP address will be automatically assigned to the user.

You cannot change any of the values on this page. To update this page and show the current attached devices, click [Refresh](#).

6.5.3. Address Reservation

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

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **DHCP > Address Reservation**.
3. Click **Add New** and fill in the blank.



ID	MAC Address	Reserved IP Address	Status	Modify
1	74-D4-35-98-42-A8	192.168.0.100	Disabled	Modify Delete

The change of Address Reservation will not take effect until this device reboots, please [click here](#) to reboot.

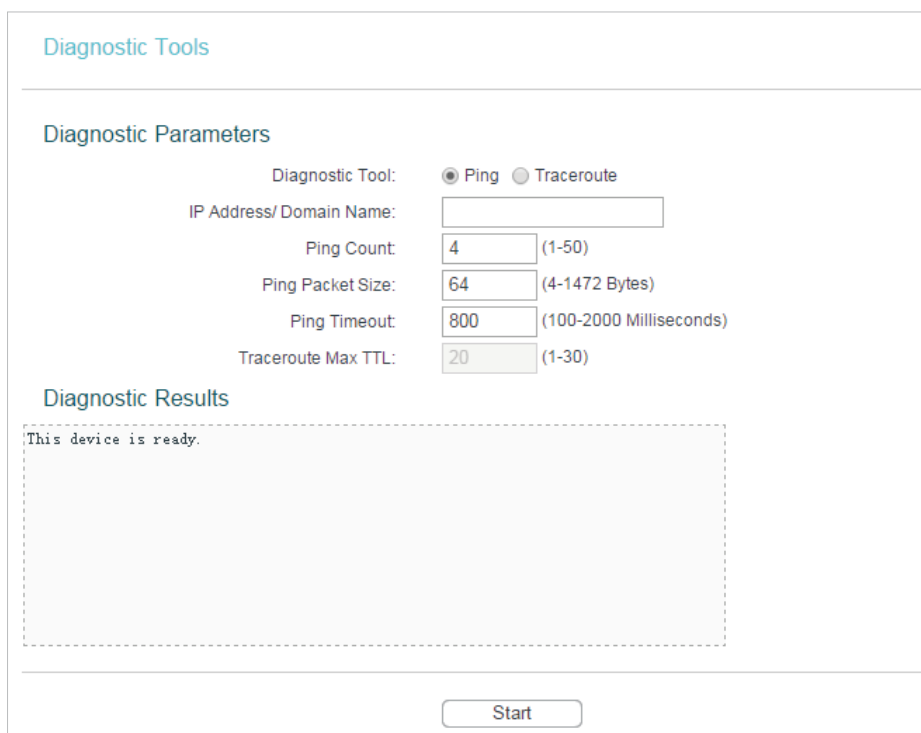
- 1) Enter the MAC address (in XX-XX-XX-XX-XX-XX format) of the client for which you want to reserve an IP address.
- 2) Enter the IP address (in dotted-decimal notation) which you want to reserve for the client.
- 3) Leave the status as **Enabled**.
- 4) Click **Save**.

6. 6. System Tools

6. 6. 1. Diagnostic

Diagnostic 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 **System Tools > Diagnostic**.



Diagnostic Tools

Diagnostic Parameters

Diagnostic Tool: Ping Traceroute

IP Address/ Domain Name:

Ping Count: (1-50)

Ping Packet Size: (4-1472 Bytes)

Ping Timeout: (100-2000 Milliseconds)

Traceroute Max TTL: (1-30)

Diagnostic Results

This device is ready.

- **Diagnostic Tool** - Select one diagnostic tool.

- **Ping** - This diagnostic tool troubleshoots connectivity, reachability, and name resolution to a given host or gateway.
- **Tracerouter** - This diagnostic tool tests the performance of a connection.

📌 **Note:**

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

- **IP Address/Domain Name** - Enter the destination IP address (such as 192.168.0.1) or Domain name (such as www.tp-link.com).
- **Pings Count** - The number of Ping packets for a Ping connection.
- **Ping Packet Size** - The size of Ping packet.
- **Ping Timeout** - Set the waiting time for the reply of each Ping packet. If there is no reply in the specified time, the connection is overtime.
- **Traceroute Max TTL** - The max number of hops for a Traceroute connection.

3. Click **Start** to check the connectivity of the internet.

4. The **Diagnostic Results** page displays the diagnosis result. If the result is similar to the following figure, the connectivity of the internet is fine.

```

Diagnostic Results
-----
Pinging 192.168.0.1 with 64 bytes of data:

Reply from 192.168.0.1: bytes=64 time=1 TTL=64 seq=1
Reply from 192.168.0.1: bytes=64 time=1 TTL=64 seq=2
Reply from 192.168.0.1: bytes=64 time=1 TTL=64 seq=3
Reply from 192.168.0.1: bytes=64 time=1 TTL=64 seq=4

Ping statistics for 192.168.0.1
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss)
Approximate round trip times in milliseconds:
Minimum = 1, Maximum = 1, Average = 1

```

📌 **Note:**

Only one user can use this tool at one time. Options "Number of Pings", "Ping Size" and "Ping Timeout" are used for the Ping function. Option "Tracert Hops" is used for the Tracert function.

6.6.2. Ping Watch Dog

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

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **System Tools > Ping Watch Dog**. Configure the settings and click **Save**.

Ping Watch Dog Utility

Enable:

IP Address:

Interval: (10-300) seconds

Delay: (60-300) seconds

Fail Count: (1-65535)

- **Enable** - Turn on/off Ping Watch Dog.
- **IP Address** - The IP address of the target host where the Ping Watch Dog Utility is sending ping packets.
- **Interval** - Time interval between two ping packets which are sent out continuously.
- **Delay** - Time delay before first ping packet is sent out when the router is restarted.
- **Fail Count** - Upper limit of the ping packets the router can drop continuously. If this value is overrun, the router will restart automatically.

6.6.3. Firmware Upgrade

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

1. Download the latest firmware file for the router from our website 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 [System Tools](#) > [Firmware Upgrade](#).
4. Click [Browse](#) to locate the downloaded firmware file, and click [Upgrade](#).

Firmware Upgrade

File:

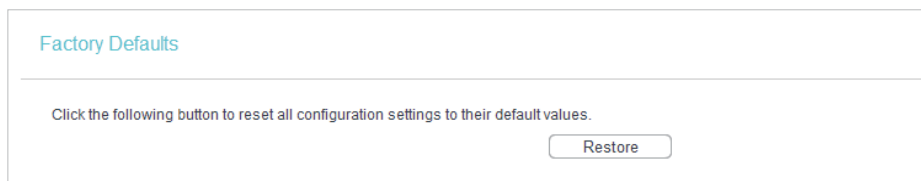
Firmware Version:

Hardware Version:

6.6.4. Factory Defaults

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

2. Go to **System Tools > Factory Defaults**. Click **Restore** to reset all settings to the default values.

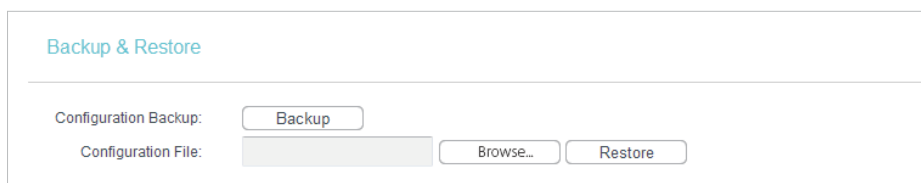


- The default **Username**: admin
- The default **Password**: admin
- The default **IP Address**: 192.168.0.254
- The default **Subnet Mask**: 255.255.255.0

6.6.5. Backup & Restore

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

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



á To backup configuration settings:

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

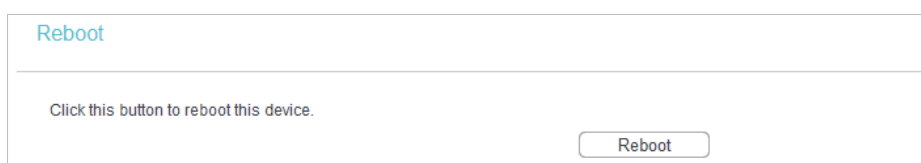
á To restore configuration settings:

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

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

6.6.6. Reboot

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

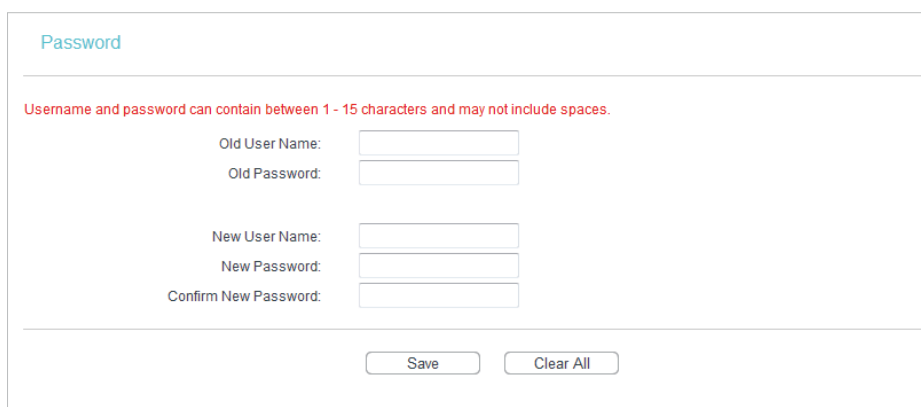


Some settings of the router will take effect only after rebooting, including:

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

6.6.7. Password

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **System Tools > Password**, and you can change the factory default username and password of the router.



The screenshot shows the 'Password' configuration page. At the top, there is a title 'Password' in blue. Below the title, a red warning message states: 'Username and password can contain between 1 - 15 characters and may not include spaces.' The form contains six input fields: 'Old User Name:', 'Old Password:', 'New User Name:', 'New Password:', and 'Confirm New Password:'. At the bottom of the form, there are two buttons: 'Save' and 'Clear All'.

It is strongly recommended that you change the default username and password of the router, for all users that try to access the router's web management page or Quick Setup will be prompted for the router's username and password.

Note:

The new username and password must not exceed 15 characters and not include any spacing.

3. Click **Save**.

6.6.8. System Log

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

- **Auto Mail Feature** - Indicates whether the auto mail feature is enabled or not.
- **Mail Settings** - Set the receiving and sending mailbox address, server address, validation information as well as the timetable for Auto Mail Feature.

- **From** - Your mail box address. The router will connect it to send logs.
- **To** - Recipient's mail address. The destination mailbox which will receive logs.
- **SMTP Server** - Your smtp server. It corresponds with the mailbox filled in the **From** field. You can log in to the relevant website for help if you are not clear with the address.
- **Authentication** - Most SMTP Server requires Authentication. It is required by most mailboxes that need user name and password to log in.

Note:

Only when you select Authentication, do you have to enter the user name and password in the following fields.

- [User Name](#) - Your mail account name filled in the From field. The part behind @ is included.
- [Password](#) - Your mail account password.
- [Confirm The Password](#) - Enter the password again to confirm.
- [Enable Auto Mail Feature](#) - Select it to mail logs automatically. You could mail the current logs either at a specified time everyday or by intervals, but only one could be the current effective rule. Enter the desired time or intervals in the corresponding field.

Click [Save](#) to apply your settings.

Click [Back](#) to return to the previous page.

- [Log Type](#) - By selecting the log type, only logs of this type will be shown.
- [Log Level](#) - By selecting the log level, only logs of this level will be shown.
- [Refresh](#) - [Refresh](#) the page to show the latest log list.
- [Save Log](#) - Click to save all the logs in a "txt" file.
- [Mail Log](#) - Click to send an email of current logs manually according to the address and validation information set in Mail Settings.
- [Clear Log](#) - All the logs will be deleted from the router permanently, not just from the page.

Click [Next](#) to go to the next page, or click [Previous](#) to return to the previous page.

6.7. Log Out

Click [Logout](#) at the bottom of the main menu, and you will log out of the web page and return to the login window.

FAQ

Q1. What should I do if I forget my wireless password?

The default wireless password is printed on the label of the router. If the password has been altered, please connect your computer to the router using an Ethernet 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 [Wireless](#) > [Wireless Security](#) to retrieve or reset your wireless password.

Q2. What should I do if I forget my login password of the web management page?

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

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

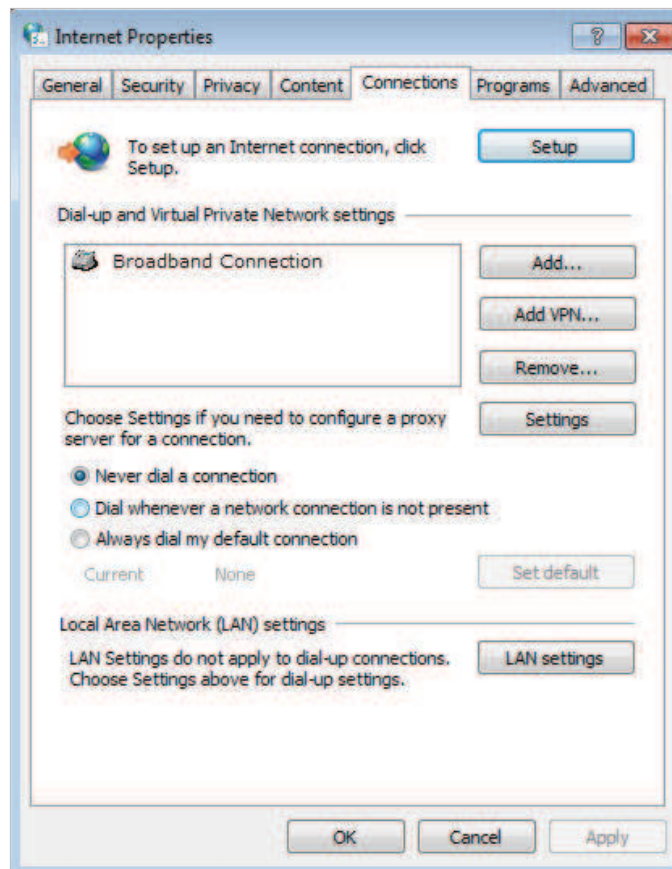
1. Please press and hold the Reset button for about 7 seconds to reset the router.
2. Visit <http://tplinkwifi.net>, and enter [admin](#) (in lowercase) as both username and password to log in.

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.

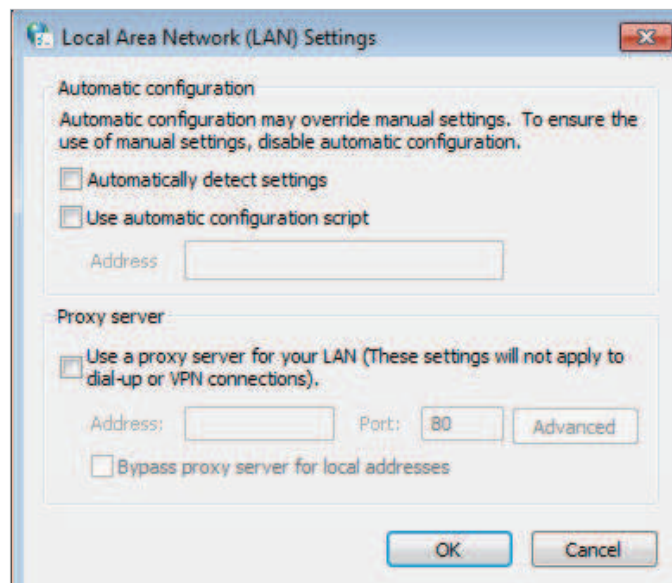
Q3. What should I do if I cannot access the router's web management page?

This can happen for a variety of reasons. Please try the following:

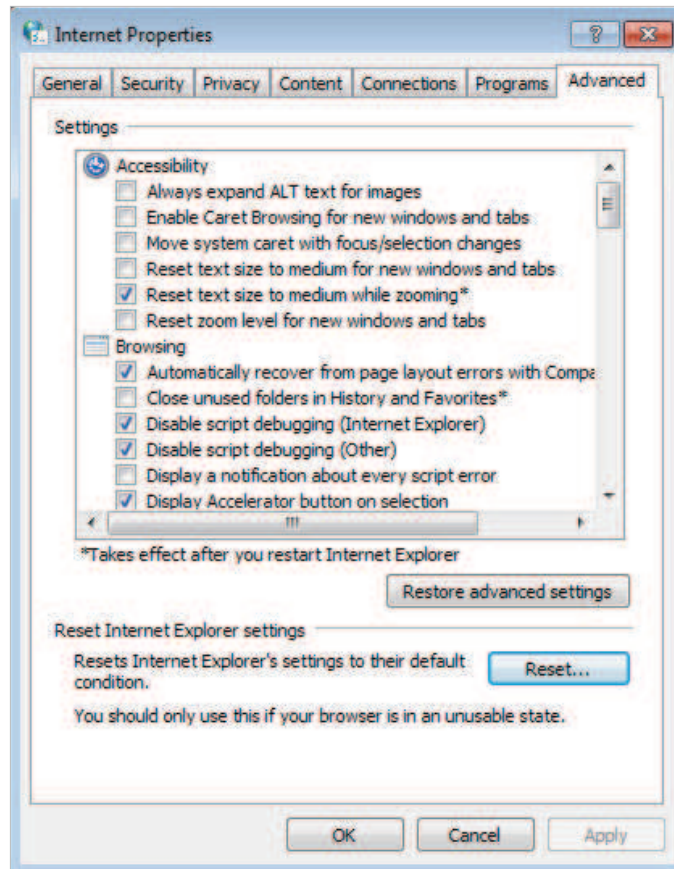
- Make sure your computer has connected to the router correctly and the corresponding LED light up.
- Make sure the IP address of your computer is configured as [Obtain an IP address automatically](#) and [Obtain DNS server address automatically](#).
- Verify that <http://tplinkwifi.net> or [192.168.0.1](#) is correctly entered in the web browser.
- Check your computer's settings:
 1. Go to [Start](#) > [Control Panel](#) > [Network and Internet](#), and click [View network status and tasks](#).
 - 1) Click [Internet Options](#) on the bottom left.
 - 2) Click [Connections](#) and select [Never dial a connection](#).



3) Click [LAN settings](#) and deselect the following three options, and click [OK](#).



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



- Use another web browser or computer to log in again.
- Reset the router to its factory default settings and try again.
- If the login still fails, please contact the technical support.

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

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

Note:

- WDS bridging only requires configuration on the extended router.
1. Visit <http://tplinkwifi.net>, and log in to with the username and password you set for the router.
 2. Configure the IP address of the router:
 - 1) Go to **Network > LAN**, and set the IP address of the extended router to be in the same subnet with the host router; (for example, if the IP address of the host router is 192.168.0.1, the IP address of the extended router should be 192.168.0.2~192.168.0.254. Here we take 192.168.0.2 for example).

2) Click [Save](#).

Note: Log in to the web management page again if the IP address of the router has been altered.

LAN

MAC Address: 0C-4A-08-45-F3-60

IP Address: 192.168.0.1

Subnet Mask: 255.255.255.0

IGMP Proxy: Enable

Note:IGMP(Internet Group Management Protocol) works for IPTV multicast stream.The device supports both IGMP proxy with enabled/disabled option and IGMP snooping.

Save

3. Survey the SSID to be bridged:

- 1) Go to [Wireless](#) > [Wireless Settings](#) and click [Enable WDS Bridging](#).
- 2) Click [Survey](#), locate the host router's SSID and click [Choose](#) (here we take TP-Link_2512 for example).
- 3) If the host router is set with a wireless password, you should enter its wireless password.
- 4) Click [Save](#).

Wireless Settings

Wireless Network Name: TP-Link_2512 (Also called the SSID)

Mode: 11bgn mixed

Channel Width: Auto

Channel: Auto

Enable Wireless Router Radio

Enable SSID Broadcast

Enable WDS Bridging

SSID (to be bridged):

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

Survey

WDS Mode: Auto

Key type: None

WEP Index: 1

Auth type: open

Password:

Save

4. Disable DHCP: Go to [DHCP](#), select [Disable](#), and click [Save](#).

Now you can go to [Status](#) to check the WDS status. When the [WDS status](#) is [Run](#), it means WDS bridging is successfully built.


Q5. What should I do if I cannot access the Internet after the configuration?

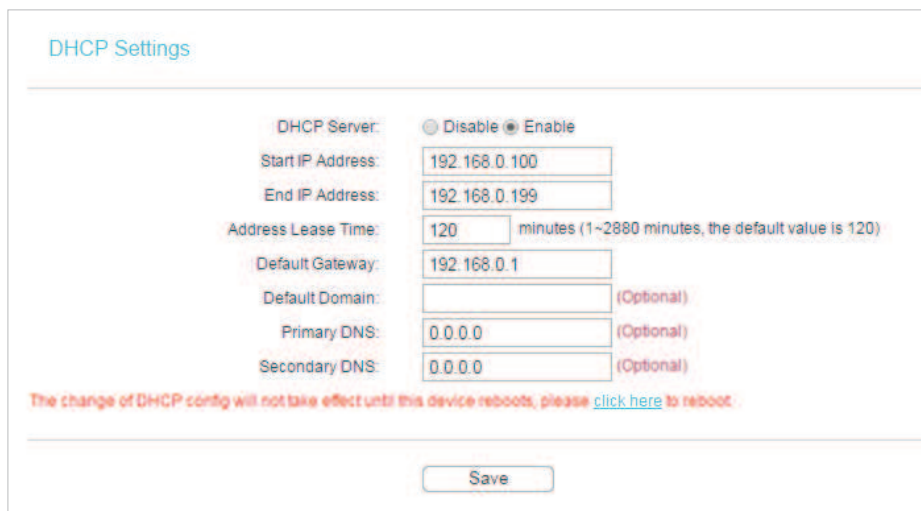
1. Visit <http://tplinkwifi.net>, and log in to with the username and password you set for the router.
2. Go to [Status](#) to check WAN status:

If the IP address is a valid one, please try the following:

- Your computer might not recognize any DNS server addresses. Please manually configure DNS server.

- 1) Go to [DHCP](#).
- 2) Enter 8.8.8.8 as Primary DNS, and click [Save](#).

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



DHCP Settings

DHCP Server: Disable Enable

Start IP Address:

End IP Address:

Address Lease Time: minutes (1~2880 minutes, the default value is 120)

Default Gateway:

Default Domain: (Optional)

Primary DNS: (Optional)

Secondary DNS: (Optional)

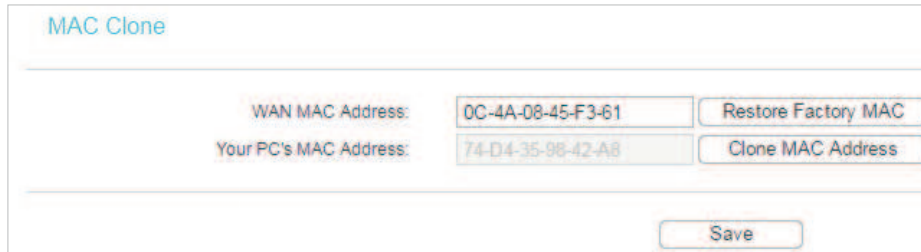
The change of DHCP config will not take effect until this device reboots, please [click here](#) to reboot.

- Restart the modem and the router.
 - 1) Power off your modem and the router, and leave them off for 1 minute.
 - 2) Power on your modem first, and wait about 2 minutes.
 - 3) Power on the router, and wait another 1 or 2 minutes and check the internet access.
- Reset the router to its factory default settings and reconfigure the router.
- Upgrade the firmware of the router.
- Check the TCP/IP settings on the particular device if all other devices can get internet from the router.

If the IP address is 0.0.0.0, please try the following:

- Make sure the physical connection between the router and the modem is established.
- 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 **Network > MAC Clone**, select **Clone MAC Address** and click **Save**.



 **Tips:**

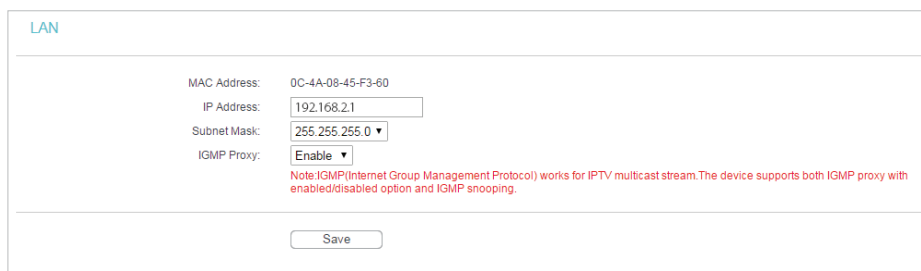
- Some ISP may register the MAC address of your computer when you access the internet for the first time through their Cable modem. If you add a router into your network to share your internet connection, the ISP will not accept it as the MAC address is changed, so we need to clone your computer's MAC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

- **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, which may conflict 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 this 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 **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**.

- **Restart the modem and the router.**
 - 1) Power off your modem and the router, and leave them off for 1 minute.
 - 2) Power on your modem first, and wait about 2 minutes.
 - 3) Power on the router, and wait another 1 or 2 minutes and check the internet access.
- **Double check the Internet Connection Type.**

- 1) Confirm your Internet Connection Type, which can be got from the ISP.
- 2) Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
- 3) Go to [Network](#) > [WAN](#).
- 4) Select your [WAN Connection Type](#) and fill in other parameters.

- 5) Click [Save](#).
- 6) Restart the modem and the router.

- Please upgrade the firmware of the router.

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

Q6. What should I do if I cannot find my wireless network or I cannot connect the wireless network?

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

- Make sure the wireless function of your device is enabled if you're using a laptop with a built-in wireless adapter. You can refer to the relevant document or contact the laptop's manufacturer.
- 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 [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 network.

2) Exit the wireless configuration tool (the TP-Link Utility, for example).

3) Select and right click [My Computer](#) on Desktop, and select [Manage](#) to open Computer Management window.

4) Go to [Services and Applications > Services](#), and 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 [Start](#) and make sure the Service status is [Started](#). And then click [OK](#).

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

- Check the WLAN LED indicator on your wireless router.
- Make sure your computer/device is still in the range of your router/modem. Move closer if it is currently too far away.

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

- **Authenticating problem/password mismatch:**

1) Sometimes you will be asked to type in a PIN when you connect to the wireless network for the first time. This PIN is different from the Wireless Password/Network Security Key. Usually you can only find it on the label of your router.




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

3) If it continues to show the note [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.

- **Windows unable to connect to XXXX / Can not join this network / Taking longer than usual to connect to this network:**
 - Check the wireless signal strength of your network. It is weak (1~3 bars), please move the router closer and try again.
 - Change the wireless channel of the router to 1, 6, or 11 to reduce interference from other networks.
 - Re-install or update the driver for your wireless adapter of the computer.

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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.

RF Exposure Information

This device meets the EU requirements (1999/5/EC Article 3.1a) on the limitation of exposure of the general public to electromagnetic fields by way of health protection.

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

Canadian Compliance Statement

This device 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

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

Radiation Exposure Statement:

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

Déclaration d'exposition aux radiations:

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

Industry Canada Statement

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

Korea Warning Statements:

당해 무선설비는 운용중 전파혼신 가능성이 있음.

NCC Notice & BSMI Notice:

注意！

依據 低功率電波輻射性電機管理辦法

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

第十四條 低功率射頻電機之使用不得影響飛航安全及干擾合法通行；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。

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.
- Adapter shall be installed near the equipment and shall be easily accessible.

- The plug considered as disconnect device of adapter.
-  Use only power supplies which are provided by manufacturer and in the original packing of this product. If you have any questions, please don't hesitate to contact us.

Explanations of the symbols on the product label

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