

User Guide

AC4000 MU-MIMO Tri-Band Wi-Fi Router Archer C4000

REV2.0.0 1910012258

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About This Guide

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

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				
Underlined	Underlined words or phrases are hyperlinks. You can click to redirect to a website or a specific section.				
Teal	Contents to be emphasized and texts on the web page are in teal, including the menus, items, buttons, etc.				
>	The menu structures to show the path to load the corresponding page For example, 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.				
Ø Tips:	Indicates important information that helps you make better use of your device.				
symbols on the web page	 C click to edit the corresponding entry. click to delete the corresponding entry. click to enable or disable the corresponding entry. click to view more information about items on the page. 				

More Info

The latest software, management app and utility can be found at Download Center at http://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 <u>http://forum.tp-link.com</u>.

Our Technical Support contact information can be found at the Contact Technical Support page at <u>http://www.tp-link.com/support</u>.

Chapter 1

Get to Know About Your Router

This chapter introduces what the router can do and shows its appearance. It chapter contains the following sections:

- Product Overview
- Appearance

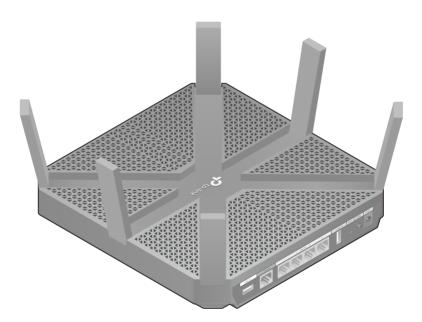
1.1. Product Overview

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. Appearance

1. 2. 1. The Back Panel



The router's ports (view from left to right) are located on the rear panel.

Item	Description
USB 3.0 Port	For connecting to a USB 3.0 device or a USB 3.0 printer. It is also compatible with USB 2.0 devices.
Internet Port	For connecting to a DSL/Cable modem, or an Ethernet jack.
Ethernet Ports (1/2/3/4)	For connecting your PC or other wired devices to the router.
USB 2.0 Port	For connecting to a USB 2.0 device or a USB 2.0 printer.

ltem	Description			
Reset Button Press this button for more than 5 seconds to reset the router to its default settings.				
Power On/Off Button	Press this button for 1 second to power on or off the router.			
Power Port	For connecting the router to power socket via the provided power adapter.			
Antennas	Used for wireless operation and data transmit. Upright them for the best Wi-Fi performance.			

1. 2. 2. The Front Panel



The router's LEDs and buttons (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

Name	Status	Indication
	On	The system has started up successfully.
ပ် (Power)	Flashing	The system is starting up or the firmware is being upgraded. Do not disconnect or power off your router.
	Off	Power is off.
	On	The 2.4GHz wireless band is enabled.
	Off	The 2.4GHz wireless band is disabled.
	On	The 5GHz-1 wireless band is enabled.
중 (5GHz-1 Wireless)	Off	The 5GHz-1 wireless band is disabled.
	On	The 5GHz-2 wireless band is enabled.
중 (5GHz-2 Wireless)	Off	The 5GHz-2 wireless band is disabled.
On		At least one powered-on device is connected to the router's Ethernet port.
년 (Ethernet)	Off	No powered-on device is connected to the router's Ethernet port.
	Blue On	The internet is available.
Ø (Internet)	Orange On	The router's Internet port is connected, but the internet is not available.
	Off	The router's Internet port is unplugged.

Name	Status	Indication		
(WPS)	On/Off	This light remains on for 5 minutes when a WPS connection is established, then turns off.		
	Flashing	WPS connection is in progress. This may take up to 2 minutes.		
	On	The inserted USB device is ready to use.		
•	Flashing	A USB device is being identified.		
	Off	No device is plugged into the USB port.		

Button Explanation

Item	Description			
(Wi-Fi Button)	Press and hold the Wi-Fi button for about 1 second to turn on or off the wireless function of your router.			
(WPS Button)	Press this WPS button for 1 second to enable the WPS function.			
* (LED Button)	Press the LED button for about 1 second to turn on or off the LEDs of your router.			

Chapter 2

Connect the Hardware

This chapter contains the following sections:

- Position Your Router
- <u>Connect Your Router</u>

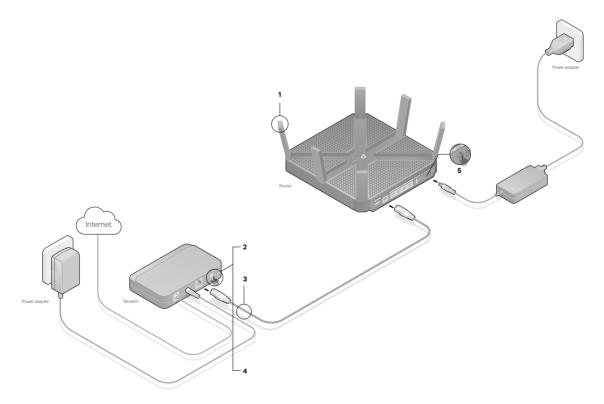
2.1. Position Your Router

- 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 devices with strong electromagnetic interference, such as Bluetooth devices, cordless phones and microwaves.

2.2. Connect Your Router

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 Internet port, and then follow Step 1, 5 and 6 to complete the hardware connection.



- 1. Install the antennas.
- 2. Turn off the modem, and remove the backup battery if it has one.

- 3. Connect the modem to your router's Internet port with an Ethernet cable.
- 4. Turn on the modem, and then wait about 2 minutes for it to restart.
- 5. Connect the power adapter to the router and turn on the router.
- 6. Confirm that the following LEDs are on and solid to verify the hardware is connected correctly.



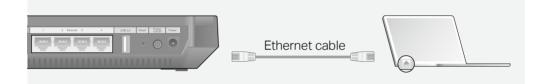
Note:

- If all the LEDs are off, press the LED On/Off button 🐨 for about 1 second, and then check the LEDs again.
- If the 2.4GHz, 5GHz-1, and 5GHz-2 LEDs are off, press the Wi-Fi On/Off button for about 1 second and all the three LEDs should turn solid on.

7. Connect your computer to the router.

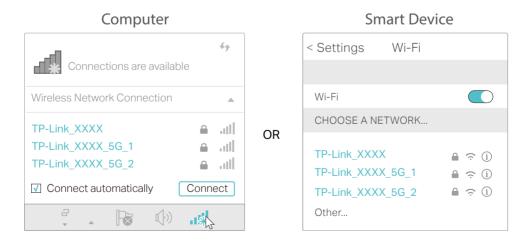
• Method 1: Wired

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.

Note:

• WPS is not supported by iOS devices.

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

- 1) Tab the WPS icon on the device's screen. Here we take an Android phone for instance.
- 2) Within two minutes, press the WPS button on your router.



Chapter 3

Log In to Your Router

With a web-based utility, it is easy to configure and manage the router. The web-based utility can be used on any Windows, Mac OS 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 <u>http://tplinkwifi.net</u>, and create a login password for secure management purposes. Then click Let's Get Started to log in.

← → C ff http://tplinkwifi.net	Ξ
Please create an administrator password to manage your Wireless Router	

Note:

- If the login window does not appear, please refer to the FAQ Section.
- If you have registered a TP-Link ID and bound your cloud router to it, the login password you created here will be invalid. Please log in to the cloud router using your TP-Link ID.

Chapter 4

Set Up Internet Connection

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

It contains the following sections:

- Use Quick Setup Wizard
- Quick Setup via Bluetooth with TP-Link Tether App
- <u>Manually Set Up Your Internet Connection</u>
- Set Up the Router as an Access Point
- <u>Set Up an IPv6 Internet Connection</u>
- <u>Set Up WAN Aggregation</u>

4.1. Use Quick Setup Wizard

The Quick Setup Wizard will guide you to set up your router.

Tips: If you need the IPv6 internet connection, please refer to the section of Set Up an IPv6 Internet Connection.

Follow the steps below to set up your router.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Click Quick Setup on the top of the page. Then follow the step-by-step instructions to connect your router to the internet.
- 3. To enjoy a more complete service from TP-Link (remote management, TP-Link DDNS, and more.), log in with your TP-Link ID or click Resigter Now to get one. Then follow the instructions to bind the cloud router to your TP-Link ID.

Internet Connection Type	Wireless S	ettings	TP-Link Cloud Service
Time Zone		Summary	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
	twork setup successful Cloud functions, please log in with		ernet.
	Semail		
	Password 🖗	5 Forgot password?	
	Log In		
	No TP-Link ID?		
	Register Now		

Note:

- To learn more about the TP-Link Cloud service, please refer to the <u>TP-Link Cloud Service</u> section.
- If you do not want to register a TP-Link ID now, you may click Log In Later to proceed.
- If you have changed the preset wireless network name (SSID) and wireless password during the Quick Setup process, all your wireless devices must use the new SSID and password to connect to the router.

4.2. Quick Setup via Bluetooth with TP-Link Tether App

TP-Link Tether lets you set up the router via Bluetooth, avioding the hassle of rejoining the configured wireless network.

1. Launch the Apple App Store or Google Play store and search "TP-Link Tether" or simply scan the QR code to download and install the app.



2. Enable your phone's Bluetooth (and location for Android).



3. Launch the Tether app. Select TP-Link C4000 and follow the steps to set up the internet connection.



4. Connect your devices to the newly configured wireless networks of the router and enjoy the internet!

4.3. Manually Set Up Your Internet Connection

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

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

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Basic > Internet.
- 3. Select your internet connection type from the drop-down list.

Internet				
Auto Detect				
Internet Connection Type:	Dynamic IP	T		

Note: If you are unsure of what your connection type is, click Auto Detect. Since different connection types require different cables and connection information, you can also refer to the demonstrations in Step 4 to determine your connection type.

- 4. Follow the instructions on the page to continue the configuration. Parameters on the figures are just used for demonstration.
 - 1) If you choose Dynamic IP, you need to select whether to clone the MAC address. Dynamic IP users are usually equipped with a cable TV or fiber cable.

Internet				
Auto Detect				
Internet Connection Type:	Dynamic IP	•		
Do NOT Clone MAC Address Clone Current Computer MA	AC Address			
Note: If you are not sure about to Internet Service Provider (ISP) for		ion Type you hav	re, use Auto De	tect or contact your
				Save

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

Internet		
Auto Detect		
Internet Connection Type:	Static IP 🔹	
IP Address:		
Subnet Mask:		
Default Gateway:		
Primary DNS:		
Secondary DNS:		(Optional)
Note: If you are not sure about which Internet Service Provider (ISP) for as		you have, use Auto Detect or contact your
		Save

3) If you choose PPPoE, enter the Username and Password provided by your ISP. PPPoE users usually have DSL cable modems.

Internet				
Auto Detect				
Internet Connection Type:	PPPoE	•		
Username:				
Password:				
Note: If you are not sure about w	hich Internet Conne	ction Type you have	e, use Auto Detect o	r contact your
Internet Service Provider (ISP) for	assistance.			
				Save

4) If you choose L2TP, enter the Username and Password and choose the Secondary Connection provided by your ISP. Different parameters are needed according to the Secondary Connection you have chosen.

Internet					
Auto Detect					
Internet Connection Type:	L2TP				
Username: Password:					
Secondary Connection:	Oynamic IP	 Static II 			
VPN Server IP/Domain Name:					
Note: If you are not sure about wh Internet Service Provider (ISP) for		ection Type y	rou have, use Aut	to Detect or cont	act your
					Save

5) If you choose PPTP, enter the Username and Password, and choose the Secondary Connection provided by your ISP. Different parameters are needed according to the Secondary Connection you have chosen.

Internet					
Auto Detect					
Internet Connection Type:	РРТР				
Username: Password:					
Secondary Connection:	Oynamic IP	Static IP			
VPN Server IP/Domain Name:					
Note: If you are not sure about wh Internet Service Provider (ISP) for		nection Type y	ou have, use Au	to Detect or co	ntact your
					Save

- 5. Click Save.
- 6. To check your internet connection, click Network Map on the left of the page. After the connection succeeds, the screen will display as follows. Here we take Dynamic IP as an example.

¢	Speed Test	↓ 563.4 KB/s ↑ 23.8 KB/s	<u></u> ²	🥱 🥱 🥱 .4GHz 5GHz-1 5GHz-2
In	ternet		Archer C4000	
Wired Clients	Wireless Clients		Printer	USB Disk
Internet				
Internet Status:	Connected			
Connection Type:	Dynamic IP			
IP Address:	192.168.0.102			

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

🖉 Tips:

- If your internet connection type is BigPond Cable, please go to Advanced > Network > Internet to set your router.
- If you use Dynamic IP and PPPoE and you are provided with any other parameters that are not required on the page, please go to Advanced > Network > Internet to complete the configuration.
- If you still cannot access the internet, refer to the FAQ section for further instructions.

4.4. Set Up the Router as an Access Point

The router can work as an access point, transforming your existing wired network to a wireless one.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > Operation Mode, select Access Point and click Save. The router will reboot and switch to Access Point mode.

Switch Mode
 Router(Current mode) In this mode, your router connects to internet directly via Dynamic IP, Static IP, PPPoE, L2TP or PPTP, and shares internet access to multiple wired or wireless devices. NAT and DHCP server are enabled by default.
● Access Point
 Access Point In this mode, your router connects to a wired or wireless router via an Ethernet cable and extends the wireless coverage of your existing network. Functions like NAT, Parental Controls and QoS are not supported in this mode.
Save

- 3. After rebooting, connect the router to your existing wired router via an Ethernet cable.
- 4. Connect to the Wi-Fi of the router and log in again to the web management page <u>http://tplinkwifi.net</u>, and click Quick Setup.
- 5. Configure your wireless settings and click Next.

		Summary	
)		
Wireless	Settings		
2.4GHz Wireless:	Enable Wireless Radio		
Network Name (SSID):	TP-Link_5053	□ Hide SSID	
Password:	66378365		
5GHz-1 Wireless	Enable Wireless Radio		
Network Name (SSID):	TP-Link_5053_5G_1	□ Hide SSID	
Password:	66378365		
5GHz-2 Wireless	Enable Wireless Radio		
Network Name (SSID):	TP-Link_5053_5G_2	□ Hide SSID	
Password:	66378365		
		Exit	Next

6. Confirm the information and click Save. Now, you can enjoy Wi-Fi.

•	Summary
Wireless Set	
2.4GHz Wireless	
Network Name (SSID):	TP-Link_5053
Password:	66378365
5GHz-1 Wireless	
Network Name (SSID):	TP-Link_5053_5G_1
Password:	66378365
5GHz-2 Wireless	
Network Name (SSID):	TP-Link_5053_5G_2
Password:	66378365
	Back Save

@ Tips: Functions, such as Parental Controls, Qos and NAT Forwarding, are not supported in the Access Point mode.

4.5. Set Up an IPv6 Internet Connection

Your ISP provides information about one of the following IPv6 internet connection types: PPPoE, Dynamic IP(SLAAC/DHCPv6), Static IP, 6to4 tunnel, Pass-Through (Bridge).

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > IPv6.
- 3. Enable IPv6 and select the internet connection type provided by your ISP.

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

4. Fill in information as required by different connection types. Red blanks must be filled in.

1) Static IP: Fill in blanks and click Save.

Internet	
IPv6:	
Internet Connection Type:	Static IP 💌
IPv6 Address:	
Default Gateway:	
Primary DNS:	
Secondary DNS:	
MTU Size:	1500 bytes. (The default is 1500, do not change unless necessary.)
	Save

2) Dynamic IP (SLAAC/DHCPv6): Click Advanced to input further information if your ISP requires. Click Save.

Internet			
IPv6:			
Internet Connection Type:	Dynamic IP (SLAAC/DHCPv6)	•	
IPv6 Address:			
Primary DNS:	811 		
Secondary DNS:	н		
Renew Release	I		
Advanced			
			Save

3) PPPoE: By default, the router uses the IPv4 account to connect to the IPv6 server. Click Advanced to input further information if your ISP requires. Click Save and then click Connect.

Note: If your ISP provides two separate accounts for the IPv4 and IPv6 connections, please untick the PPPoE same session with IPv4 connection checkbox and manually enter the username and password for the IPv6 connection.

Internet		
IPv6:		
Internet Connection Type:	PPPoE 💌	
	☑ PPPoE same session with IPv4 connection	
IPv6 Address:	::	
Advanced		
Connect Disconnect		
		Save

4) 6to4 Tunnel: An IPv4 internet connection type is a prerequisite for this connection type (Manually Set Up Your Internet Connection). Click Advanced to input further information if your ISP requires. Click Save and then click Connect.

Internet		
IPv6:		
Internet Connection Type:	6to4 Tunnel	
IPv4 Address:	0.0.0.0	
IPv4 Subnet Mask:	0.0.0.0	
IPv4 Default Gateway:	0.0.0.0	
TUNNEL ADDRESS:	ш	
O Advanced		
Connect Disconnect		
		Save

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

Internet			
IPv6:			
Internet Connection Type:	Pass-Through (Bridge)	•	
			Save

5. Configure LAN ports. Windows users are recommended to choose from the first two types. Fill in Address Prefix provided by your ISP, and click Save.

@ Tips: Find Help on the web management page to know more about items.

LAN	
Assigned Type:	O DHCPv6 SLAAC+Stateless DHCP O SLAAC+RDNSS
Address Prefix:	/64
Address:	::/0
	Save

6. Click Status to check whether you have successfully set up an IPv6 connection. The following figure is an example of a successful PPPoE configuration.

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

Tips: Visit the FAQ section if there is no internet connection.

4.6. Set Up WAN Aggregation

WAN Aggregation transforms the LAN1 port to an additional WAN port, and makes a single high-bandwidth data path. Unleash faster internet from ISPs that provide bandwidth rates over 1Gbps and no longer be limited by your networking hardware. Note: Before enabling this feature, make sure that your ISP supports WAN Aggregation and your modem has two WAN ports.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > Network > Internet.
- 3. Toggle on WAN Aggregation to enable it and the router will reboot to apply the settings.

WAN Aggregation		
Note:	When enabled, the LAN1 port of the router will be transformed to an additional WAN port. Connect your wired device to other LAN port if any.	
WAN Aggregation:		

4. Connect the router's WAN port and LAN1 port to your modem's two WAN ports with two Ethernet cables.

Chapter 5

TP-Link Cloud Service

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

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

It contains the following sections:

- Register a TP-Link ID
- <u>Change Your TP-Link ID Information</u>
- Manage the User TP-Link IDs
- Manage the Router via the TP-Link Tether App

5.1. Register a TP-Link ID

If you have skipped the registration during the Quick Setup process, you can:

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Basic > TP-Link Cloud.
- 3. Click Register Now and follow the instructions to register a TP-Link ID.

Ernail Password Forgot password Log In	or more TP-Link Cloud function	ns, please log in with your TP-Link	ID. 🚺	
		🕹 Email		
Log In		Password	ø	Forgot password?
		Log In		
		Register Now	8	

4. After activating your TP-Link ID, come back to the TP-Link Cloud page to log in. The TP-Link ID used to log in to the router for the first time will be automatically bound as an Admin.

Note:

- To learn more about the Admin and User TP-Link ID, refer to Manage the User TP-Link IDs.
- Once the router is bound to your TP-Link ID, you need to log in to the router with the TP-Link ID.
- Once you have registered a TP-Link ID on the web management page, you can only register another TP-Link ID via the Tether APP. Please refer to Manage the Router via the TP-Link Tether App to install the app.
- If you want to unbind the admin TP-Link ID from your router, please go to Basic > TP-Link Cloud, an click Unbind in the Device Information section.

5.2. Change Your TP-Link ID Information

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

- 1. Visit http://tplinkwifi.net, and log in with your TP-Link ID.
- 2. Go to Basic > TP-Link Cloud, and focus on the Account Information section.

> To change your email address:

- 1. Click 🗹 behind the Email.
- 2. Enter the password of your TP-Link ID, then a new email address. And click Save.

Change Em	ail
Password	1
New Ema	ail
	Save
	nail or password to client devices
	Please log in agair wice is connected
to the Interne	et to update

> To change your password:

- 1. Click 🗹 behind the Password.
- 2. Enter the current password, then a new password twice. And click Save.

Change	e Password
P Cu	rrent Password
Nev 🎤	w Password
Low	Middle High
P Cor	nfirm Password
	Save

5.3. Manage the User TP-Link IDs

The TP-Link ID used to log in to the router for the first time will be automatically bound as the Admin account. An admin account can add or remove other TP-Link IDs to or from the same router as Users. All accounts can monitor and manage the router locally or remotely, but user accounts cannot:

• Reset the router to its factory default settings either on the web management page or in the Tether app.

• Add/remove other TP-Link IDs to/from the router.

5. 3. 1. Add TP-Link ID to Manage the Router

1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID.

2. Go to Basic > TP-Link Cloud, and focus on the Bound Accounts section.

3. Click 🕂 Bind , enter another TP-Link ID as needed and click Save.

Note: If you need another TP-Link ID, please register a new one via the Tether app. Refer to <u>Manage the Router via the</u> <u>TP-Link Tether App</u> to install the app and register a new TP-Link ID.

Add Account	8
Email	
Cancel	Save

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

ound	Accou	ints		
				🕀 Bind 😑 Unbind
	ID	Email	Binding Date	Role
	1	Barger, redna.cm	16/11/2016	Admin
	2	shangeunlighting@143.com	16/11/2016	User

5. 3. 2. Remove TP-Link ID(s) from Managing the Router

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID.
- 2. Go to Basic > TP-Link Cloud, and focus on the Bound Accounts section.
- 3. Tick the checkbox(es) of the TP-Link ID(s) you want to remove and click Unbind.

ound	Accou	ints		
				🕂 Bind 😑 Unbind
	ID	Email	Binding Date	Role
	1	Barger, redma.cm	16/11/2016	Admin
•	2	shangeunfighting@163.com	16/11/2016	User

5.4. Manage the Router via the TP-Link Tether App

The Tether app runs on iOS and Android devices, such as smartphones and tablets.

1. Launch the Apple App Store or Google Play store and search "TP-Link Tether" or simply scan the QR code to download and install the app.



- 2. Connect your device to the router's wireless network.
- 3. Launch the Tether app, select the model of your router and log in with your TP-Link ID or the password you set for the router.

4. Manage your router as needed.

Note: If you need to remotely access your router from your smart devices, you need to:

- Log in with your TP-Link ID. If you don't have one, refer to Register a TP-Link ID.
- Make sure your smartphone or tablet can access the internet with cellular data or a Wi-Fi network.

Chapter 6

Guest Network

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

It contains the following sections:

- <u>Create a Network for Guests</u>
- Set Portal Authentication
- <u>Customize Guest Network Options</u>

6.1. Create a Network for Guests

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > Guest Network. Locate the Wireless section.
- 3. Create a guest network as needed.
 - 1) Tick the Enable Guest Network checkbox for the 2.4GHz/5GHz-1/5GH-2 wireless network.
 - 2) Customize the SSID. Don't select Hide SSID unless you want your guests to manually input the SSID for guest network access.
 - 3) Set Security to WPA/WPA2 Personal, keep the default Version and Encryption values, and customize your own password.

Wireless	
2.4GHz Wireless:	Enable Guest Network
Network Name (SSID):	TP-Link_Guest_2135
5GHz-1 Wireless: Network Name (SSID):	TP-Link_Guest_2135_5G_: Hide SSID
5GHz-2 Wireless:	Enable Guest Network
Network Name (SSID):	TP-Link_Guest_2135_5G_: Hide SSID
Security:	No Security WPA/WPA2-Personal Portal
Version:	Auto O WPA-PSK O WPA2-PSK
Encryption:	Auto TKIP AES
Password:	59798835
	Save

4. Click Save. Now your guests can access your guest network using the SSID and password you set!

@ Tips: To view guest network information, go to Advanced > Status and locate the Guest Network section.

6.2. Set Portal Authentication

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

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > Guest Network. Locate the Wireless section.
- 3. Select Portal for Security.

Security:	O No Security O WPA/WPA2-Personal Portal
Authentication Type:	Simple Password 🛛 🔻
Password:	123456789
Authentication Timeout:	1 Hour 🔍
Redirect:	Enable
Login Page	Click to Edit
	Save

- 4. Select the Authentication Type.
 - Simple Password Specify a password for authentication (8-16 alphanumeric or "_" characters are allowed).
 - No Authentication Clients can access the network without any authentication.
- 5. Specify the Authentication Timeout. When a guest's authentication expires, they have to reconnect to the network.
- 6. (Optional) Enable Redirect and enter the desired web link. The newly connected guest will be redirected to the website you have specified.
- 7. (Optional) You can click Click to Edit to personalize the authentication page.
 - Portal Title Up to 31 characters.
 - Terms of Use Up to 1023 characters.
 - Logo Image Upload a JPG or PNG image (less than 100KB) to customize the logo.
 - Background Image Upload a JPG or PNG image (less than 2MB) to customize the background.

8. Click Save.

6.3. Customize Guest Network Options

1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.

- 2. Go to Advanced > Guest Network. Locate the Settings section.
- 3. Customize guest network options according to your needs.

Settings	
□ Allow guests to see each other	
□ Allow guests to access my local network	
	Save

• Allow guests to see each other

Tick this checkbox if you want to allow the wireless clients on your guest network to communicate with each other via methods such as network neighbors and Ping.

• Allow guests to access my local network

Tick this checkbox if you want to allow the wireless clients on your guest network to communicate with the devices connected to your router's LAN ports or main network via methods such as network neighbors and Ping.

4. Click Save. Now you can ensure network security and privacy!

Tips: To view guest network information, go to Advanced > Status and locate the Guest Network section.

Chapter 7

USB Settings

This chapter describes how to use the USB ports to share files, media and a printer from the USB storage devices over your home network locally, or remotely through the internet.

The router supports USB external flash drives, hard drives and USB printers.

It contains the following sections:

- <u>Access the USB Storage Device</u>
- Media Sharing
- Printer Sharing
- Time Machine

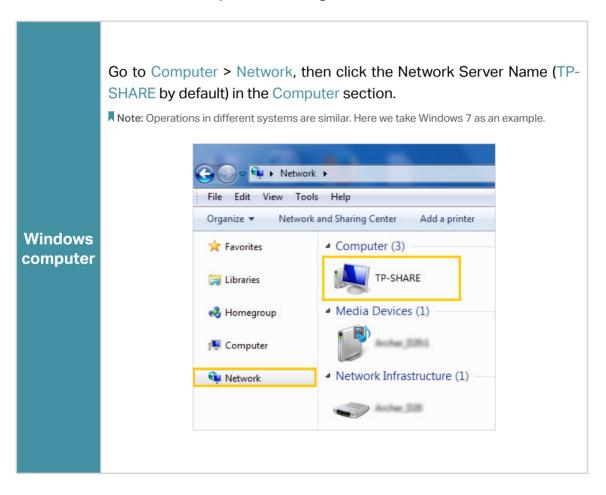
7.1. Access the USB Storage Device

Insert your USB storage device into the router's USB port and then access files stored there locally or remotely.

- Ø Tips:
- If you use USB hubs, make sure no more than 4 devices are connected to the router.
- If the USB storage device requires using bundled external power, make sure the external power has been connected.
- If you use a USB hard drive, make sure its file system is FAT32, exFat, NTFS or HFS+.
- Before you physically disconnect a USB device from the router, safely remove it to avoid data damage: Go to Advanced
 > USB Storage Device > Device Settings and click Remove.

7. 1. 1. Access the USB Device Locally

Insert your USB storage device into the router's USB port and then refer to the following table to access files stored on your USB storage device.



Windows computer	Open the Windows Explorer (or go to Computer) and type the server address \\tplinkwifi.net or ftp://tplinkwifi.net in the address bar, then press Enter.
Mac	 Select Go > Connect to Server. Type the server address smb://tplinkwifi.net. Click Connect. Click Connect. Image: Server Address: Image: Server server: Image: Serv
Tablet	Use a third-party app for network files management.

Tips: You can also access your USB disk by using your Network/Media Server Name as the server address. Refer to To customize the address of the USB disk: to learn more.

7. 1. 2. Access the USB Device Remotely

You can access your USB disk outside the local area network. For example, you can:

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

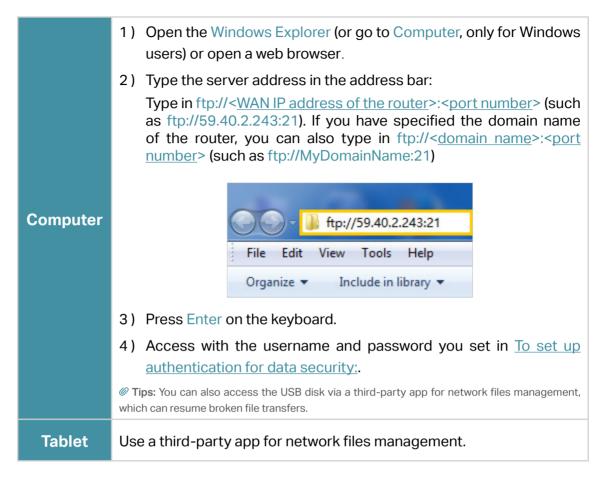
Note: If your ISP assigns a private WAN IP address (such as 192.168.x.x or 10.x.x.x), you cannot use this feature because private addresses are not routed on the Internet.

Follow the steps below to configure remote access settings.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > USB Sharing > USB Storage Device.
- 3. Tick the FTP(Via Internet) checkbox, and then click Save.

etwork/Media	Server Name: T	P-Share	
Enable	Access Method	Address	Port
 ✓ 	Network Neighborhood	\\TP-Share	
 ✓ 	FTP	ftp://192.168.1.1:21	21
•	FTP (Via Internet)	ftp://192.168.0.102:21 Edit	21

4. Refer to the following table to access your USB disk remotely.



@ Tips: Click Set Up a Dynamic DNS Service Account to learn how to set up a domain name for you router.

7. 1. 3. Customize the Access Settings

By default, all the network clients can access all folders on your USB disk. You can customize your sharing settings by setting a sharing account, sharing specific contents and setting a new sharing address on the router's web management page.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > USB Sharing > USB Storage Device.

> To customize the address of the USB disk:

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

1. In the Access Address section, make sure Network Neighborhood is ticked, and enter a Network/Media Server Name as you like, such as MyShare, then click Save.

ork/Media	Server Name:	MyShare	
Enable	Access Method	Address	Port
	Network Neighborhood	\\TP-Share	
✓	FTP	ftp://192.168.1.1:21	21
	FTP (Via Internet)	ftp://192.168.0.102:21 Edit	21

- Now you can access the USB disk by visiting \\MyShare (for Windows) or smb:// MyShare (for Mac).
- > To only share specific content:
- 1. Focus on the Sharing Contents and Security section. Click the ¹ button to specify sharing folders and click Save.

	Θ
Select Folders	
Share All Folders	
KINGSTON DT 101 G2 (7.4 GB)	
Er KINGSTON(G:)	
🖽 🖸 FOUND.000	
🖽 🗋 System Volume Information	
🖽 🔽 1. photos	
🖽 🔽 2. accommodation	
🖽 🗂 З. РРТ	
🗄 🗂 4. videos	
Cancel Save	

- 2. Decide the way you share the folder:
 - Access Authentication: Tick to enable access authentication for sharing folders, and you will be required to log in to the Sharing Account to access the USB disk. Refer to <u>To customize the address of the USB disk</u>: to learn more.
 - Enable Media Sharing: Tick to enable media sharing for sharing folders, and you can view photos, play music and watch movies stored on the USB disk directly from DLNA-supported devices. Click <u>Media Sharing</u> to learn more.

> To set up authentication for data security:

You can set up authentication for your USB device so that network clients will be required to enter username and password when accessing the USB disk.

In the Sharing Contents and Security part, enable Access Authentication. The default accounts are admin and visit. Click ^{II} to customize the username and a password.

ess Authentication:				
Account	Password		Access Permission	Modify
admin		ø	Read and Write	ø
visit	0000	ø	Only Read	Ø

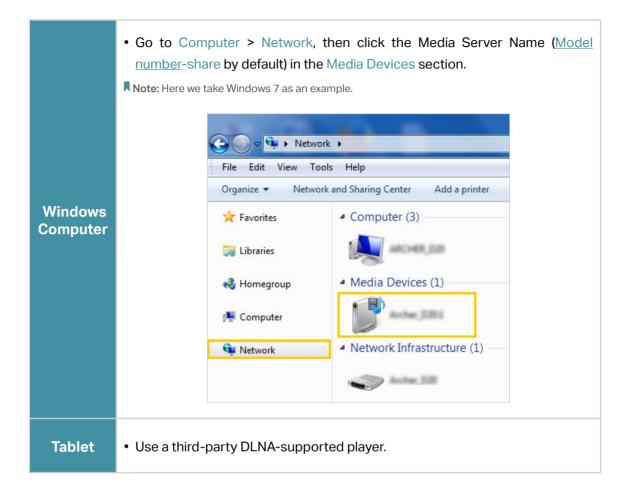
Note: For Windows users, do not set the sharing username the same as the Windows username. Otherwise, Windows credential mechanism may cause the following problems:

- If the sharing password is also the same as the Windows password, authentication will not work since the Windows will automatically use its account information for USB access.
- If the sharing password is different from the Windows password, the Windows will be unable to remember your credentials and you will always be required to enter the sharing password for USB access.
- Due to Windows credential mechanism, you might be unable to access the USB disk after changing Authentication settings. Please log out from the Windows and try to access again. Or you can change the address of the USB disk by referring to <u>To customize the address of the USB disk</u>.

7.2. Media Sharing

The feature of Media Sharing allows you to view photos, play music and watch movies stored on the USB disk directly from DLNA-supported devices, such as your computer, tablet and PS2/3/4.

- 1. When your USB disk is inserted into the router, your DLNA-supported devices (such as your computer and pad) connected to the router can detect and play the media files on the USB disks.
- 2. Refer to the following table for detailed instructions.



7.3. Printer Sharing

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

Note: Printers unlisted on this page may be incompatible with the router: <u>http://www.tp-link.com/common/compatible/print-server/</u>.

1. Install the Driver of the Printer

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

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

2. Connect the Printer

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

3. Install the TP-Link USB Printer Controller Utility

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

1) Visit <u>http://www.tp-link.com/app/usb/</u>.

2) Click PC Utility (for Windows users) or Mac Utility to download the installation file and uncompress it.



3) Open the uncompressed folder, then click TP-Link USB Printer Controller Setup (for Windows users) or TP-Link UDS Printer Controller Installer (for Mac users) to install the utility.

4. Access the Printer

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

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

em Tool	s About			
Configure Server	Auto-Connect for Printing	Connect for Scanning	PZ Disconnect	Request to Connect
🥏 мг	P - Care - MG620	O series		
		Windo	WS	

00	TP-Link USB Printer Controller
🏠 🚵 🖏 🛣 🏤	
V 40 TD-WESHO - 192 168.1.1	
MFP MG6200 series	
L	

Mac

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



Windows

000	TP-Link USB Printer Controller
The 2 × 3	
MFP - C	+ Set Auto-Connect Printer
	- Delete Auto-Connect Printer
	Close

Mac

4) Select the printer you share, then click Apply.

🛹 Add to Auto-Connect Printer List	
< Installed Printer List >	
Printer Name Fax MG6200 series Printer recommended	
Apply	Cancel

Windows

000	TP-Link USB Printer Controller
The test of te	- *
V @ 10-WEBBO-182.16	60.0 Y
🅁 MFP - 🛛 - M	Add to Auto-Connect Printer List
	Installed Printer List
	10.10.180
	MG6200 series
	Stylus Photo 720-f97c12 Deskjet 1000 J110 series Deskjet 1000 J110 series-1
	Apply Cancel

Mac

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

tem Tools	s About				
Configure Server	Auto-Connect for Printing	Connect for Scanning	T Disconnect	Request to Connect	
	P - Come - MG620	0 series [Auto-0	onnected Printer	1	
		W	indows		
0 0			TP-Link USB	Printer Controll	er
	2 %	2			
P	80-192168.1.1	1			
	- MG62	00 series [Au	to-Connected	Printer]	
👌 MFP -					
🍓 MFP -					

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

7.4. Time Machine

Time Machine backs up all files on your Mac computer to a USB storage device connected to your router.

- 1. Visit<u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > USB Sharing > Time Machine.

Time Machine		
Time Machine:	✓ Enable	
Backup Disk:	Select	
	Place select a location for Time Machine backups	
Size Limit for Backups:	0 GB (0 means no limit.)	
	0GB available	
	Save	

- **3.** Tick the checkbox to enable Time Machine.
- 4. Click Select to select a location for Time Machine backups.
- 5. Set the Size Limit for Backups.

Note: 0 means no limit for the space.

6. Click Save.

Chapter 8

HomeCare – Parental Controls, QoS, Antivirus

TP-Link HomeCareTM powered by Trend MicroTM provides a kit of features to help you create a personalized network that caters for the whole family. You can ensure appropriate internet access for everyone with Parental Controls, save bandwidth for the things that matter with QoS and keep your network secure with built-in Antivirus.

It contains the following sections:

- Parental Controls
- <u>QoS</u>
- Antivirus

8.1. Parental Controls

Parental Controls allows you to set up unique restrictions on internet access for each member of your family. You can block inappropriate content, set daily limits for the total time spent online and restrict internet access to certain times of the day.

8. 1. 1. Scenario 1: Setting Up Access Restrictions

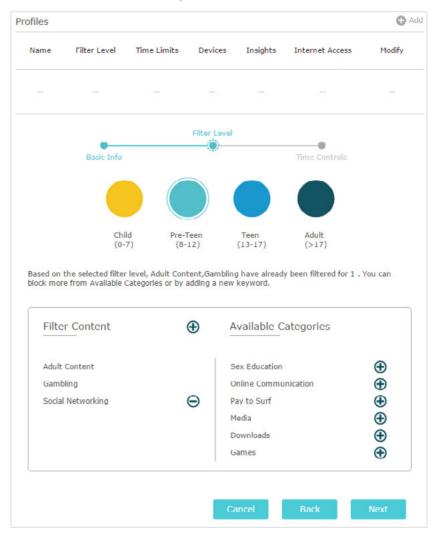
- I want to:Block access to inappropriate online content for my child's
devices, restrict internet access to 2 hours every day and block
internet access during bed time (10 PM to 7 AM) on weekdays.How can I
do that?1. Visit http://tplinkwifi.net, and log in with your TP-Link ID or
the password you set for the router.2. Co to Paoio > Decented Controls or Advanced >
 - 2. Go to Basic > HomeCare > Parental Controls or Advanced > Parental Controls.
 - 3. Click 🕀 Add to create a profile for a family member.
 - Add Profiles Filter Level **Time Limits** Devices Insights Internet Access Modify Name • . Time Controls Basic Info Name: Devices: Add
 - 4. Add basic profile information.

- 1) Enter a Name for the profile to make it easier to identify.
- 2) Under Devices, click + .
- Select the devices that belong to this family member. Access restrictions will be applied to these devices. Click Add when finished.

Note: Only devices that have previously been connected to your router's network are listed here. If you are unable to find the device you want to add, connect it to your network and then try again.

4) Click Next.

5. Block content for this profile.



- Select a filter level based on the age of the family member this profile belongs to. Blocked content will then be displayed in the Filter Content list.
- 2) If needed, you can edit the blocked content by clicking

 and
 b to move categories between the Filter Content

 and Available Categories lists.
- 3) You can also block a specific website or application by clicking ⊕ next to Filter Content. Enter a keyword (for example, "Facebook") or a URL (for example, "www.facebook.com"), then click Add.

- 4) Click Next.
- 6. Set time restrictions on internet access.

Level Time Li			nts Internet	Access Modify
•		 .cvcl		
e	Filter L	.evel		
esic Info	•			
			Time Co	ntrols
Enable	30mi	. * . .		 8h
Enable	30mir	2h Y		8h
Enable	From	10:00 PM	\$ 1	To 07:00 AM
Enable				
	ſ	Cancel	Back	Save
	 Enable Enable 	30mir 20mir 30mir 30mir	 ✓ Enable ✓ Enable ✓ Enable ✓ From 10:00 PM 	 ✓ Enable ✓

- Enable Time Limits on Monday to Friday and Saturday & Sunday then set the allowed online time to 2 hours each day.
- 2) Enable Bed Time on Monday to Friday and use the up/ down arrows or enter times in the fields. Devices under this profile will be unable to access the internet during this time period.
- 3) Click Save.
- **Done!** The amount of time your child spends online is controlled and inappropriate content is blocked on their devices.

8. 1. 2. Scenario 2: Monitoring Internet Usage

- I want to: Check which websites my child has visited and how much time they have spent online recently.
- How can I1. Visit http://tplinkwifi.net, and log in with your TP-Link ID ordo that?the password you set for the router.

2. Go to Basic > HomeCare > Parental Controls or Advanced > Parental Controls.

Name	Filter Level	Time Limits	Devices	Insights	Internet Access	Modify
Child	Pre-Teen	2h	1	٥	(1)	0
			Today		-	٩
	Spent Onlin	ne	iosapps.it	unes.app	. 3min	\otimes
			www.bing	.com	3min	\otimes
	/		uk.yahoo.	.com	3min	\otimes
	3min		iTunes		3min	\odot
	511111		Advertise	ment	3min	\odot
			tags.tiqcd	In.com	2min	\odot
			a2.mzstat	tic.com	2min	\otimes
			pubads.g	.doublecli	. 2min	00000000000
			p16-buy.i	tunes.ap	2min	\otimes
			n30-ckdat	tabase.icl	. 1min	0

3. Find the correct profile and click o in the Insights column.

■ Note: If you have not set up a profile for your child yet, you should do that first by clicking
 Add , then follow the steps to create a profile. Refer to <u>Scenario 1: Setting Up</u>
 <u>Access Restrictions</u> for detailed instructions.

4. Use the drop-down menu to view the websites visited and time spent online for any of the last 7 days. Click (b) to view a complete history.

Tips: Click S to block the corresponding content for this profile.

You can now check up on your child's online activities.

Done!

8.2. QoS

QoS (Quality of Service) allows you to prioritize the internet traffic of specific online activities, such as gaming or streaming. Activities set as high priority will be allocated more bandwidth and so continue to run smoothly even when there is heavy traffic on the network. You can also prioritize the connection of specific devices for a set duration.

I want to:	Ensure a fast connection while I play online games with friends on my computer for the next 2 hours.
How can I do that?	 Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
	Go to Basic > HomeCare > QoS or Advanced > QoS.

3. In the Application Priority tab, click Gaming to prioritize this online activity. The default is Standard, with no application prioritized.

QoS					
		Application Priority	Device Priority		
Choose to priorit	ize the online ac	tivity that's most impor	tant to everyone on th	e network.	
ļļļ	(†)	\bigcirc		\bigcirc	\bigcirc
Standard	Gaming	Streaming	Surfing	Chatting	Custom

 In the Device Priority tab, find your computer and toggle on Priority. Click the entry in the Timing column and select 2 hours as the duration you want the device to be prioritized for.

5					
	Applicat	tion Priority	Device Priority		
Гуре	Information	Real-time Rate	Traffic Usage	Priority	Timing
÷	TPLINK-PC	↑ OKB/s ↓ OKB/s	9.8MB		2 hours ~ 2 h 0 min Remaining
Γ	deco_M6	† 0.02KB/s ↓ 0KB/s	14.3MB		_

Done!

You can now enjoy playing games without lag on your computer for the next 2 hours.

8.3. Antivirus

Your router supports built-in Antivirus powered by Trend Micro[™]. It provides malicious content filtering and intrusion prevention for your home network, as well as a quarantine for infected devices. An active database protects every connected device from external threats.

Antivirus includes the following protection:

• Malicious Content Filter

Blocks malicious websites listed in Micro Trend's database. The database is automatically updated so new malicious websites are blocked when they go live.

Intrusion Prevention System

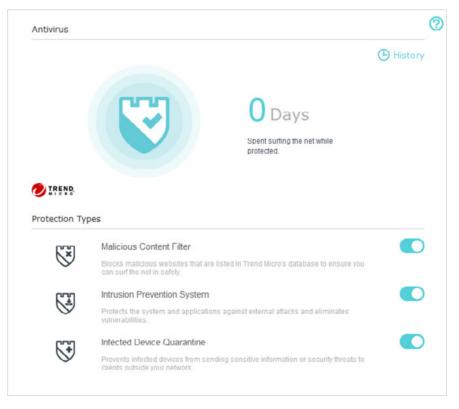
Identifies and blocks potential threats from attackers and fixes vulnerabilities in the network.

• Infected Device Quarantine

Prevents infected devices from sending your sensitive information to clients outside your network or spreading security threats.

> To access your router's Antivirus settings:

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Basic > HomeCare > Antivirus or Advanced > Security > Antivirus.



- 3. Choose the protection types you want to enable. It is recommended to keep them all enabled to ensure the best protection for your network.
- 4. Click (History to view threats that have been detected and resolved.

Chapter 9

Network Security

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

It contains the following sections:

- Protect the Network from Cyber Attacks
- <u>Access Control</u>
- IP & MAC Binding

9.1. Protect the Network from Cyber Attacks

The SPI (Stateful Packet Inspection) Firewall protects the router from cyber attacks and validate the traffic that is passing through the router based on the protocol. This function is enabled by default.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > Security > Firewall. It's recommended to keep the default settings. If necessary, deselect corresponding checkbox and click Save.

Firewall		
	Enable SPI Firewall	
	✓ Allow Pings from the WAN Port	
	✓ Allow Pings from the LAN Port	
		Save

9.2. Access Control

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

I want to:	Block or allow specific client devices to access my network (via wired or wireless).
How can I do that?	 Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
	2. Go to Advanced > Security > Access Control.
	3. Enable Access Control.
	Access Control
	Access Control:
	 Select the access mode to either block (recommended) or allow the device(s) in the list.

To block specific device(s):

1) Select Blacklist and click Save.

Access Mode			
Default Access Mode:	Blacklist	O Whitelist	
			Save

- 2) Select the device(s) to be blocked in the Online Devices table by ticking the checkbox(es).
- 3) Click Block above the Online Devices table. The selected devices will be added to Devices in Blacklist automatically.

	ne Dev					
					👌 Refresh	S Block
	ID	Device Name	IP Address	MAC Address	Connection Type	Modify
•	1	Roses-iPhone	192.168.0.175	1C-1A-C0-3B-28-4B	Wireless	\otimes
	2	ADMIN-PC	192.168.0.157	C0 4A 00 1A C3 45	Wireless	0

To allow specific device(s):

1) Select Whitelist and click Save.

Access Mode			
Default Access Mode:	 Blacklist) Whitelist	
			Save

2) Click Add in the Devices in Whitelist section. Enter the Device Name and MAC Address (You can copy and paste the information from the Online Devices list if the device is connected to your network).

		(🖰 Add 🛛 😑 Deleti
ID	Device Name	MAC Address	Modify
Device Nar MAC Addre		Cancel	ок

3) Click OK.

Done!

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

9.3. IP & MAC Binding

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

I want to: Prevent ARP spoofing and ARP attacks.

How can I do that?

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

IP & MAC Binding		
IP & MAC Binding:		

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

To bind the connected device(s):

Click 🧬 to add the corresponding device to the Binding List.

To bind the unconnected device:

1) Click Add in the Binding List section.

Bind	ing List	t				
					•	Add 🕒 Delete
	ID	MAC Address	IP Address	Description	Status	Modify
-				120	_	
	MAC A		Enable This Entry	(Optional)		
				Cance	I (ж

- 2) Enter the MAC address and IP address that you want to bind. Enter a Description for this binding entry.
- 3) Tick the Enable This Entry checkbox and click OK.

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

Done!

Chapter 10

NAT Forwarding

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

With the forwarding feature the router can penetrate the isolation of NAT and allows devices on the internet to initiatively communicate with devices on the local network, thus realizing some special functions.

The TP-Link router supports 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.

It contains the following sections:

- Share Local Resources on the Internet by Virtual Servers
- Open Ports Dynamically by Port Triggering
- <u>Make Applications Free from Port Restriction by DMZ</u>
- Make Xbox Online Games Run Smoothly by UPnP

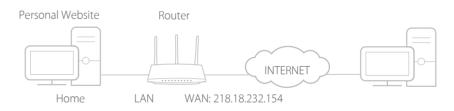
10. 1. Share Local Resources on the Internet by Virtual Servers

When you build up a server on 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 for setting up public services on your local network, such as HTTP, FTP, DNS, POP3/SMTP and Telnet. Different services use different service ports. 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 on my home PC (192.168.0.100). I hope that my friends on the internet can visit my website in some way. The PC is connected to the router with the WAN IP address 218.18.232.154.



How can I do that?

- **1.** Assign a static IP address to your PC, for example 192.168.0.100.
- 2. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 3. Go to Advanced > NAT Forwarding > Virtual Servers.
- 4. Click Add. Click View Existing Services and select HTTP. The External Port, Internal Port and Protocol will be automatically filled in. Enter the PC's IP address 192.168.0.100 in the Internal IP field.
- 5. Click OK.

						🔂 Add	Delete
ID	Service Type	External Port	Internal IP	Internal P	Port Protocol	Status	Modify
 		-					
Ser	vice Type:	НТ	ГР		View Existing S	ervices	
Ext	ernal Port:	80			(XX XX or XX)		
Int	ernal IP:	193	2.168.0.100				
Int	ernal Port:	80			(XX or Blank ,1-	-65535)	
Pro	tocol:	тся	•				
		🗹 Er	able This Entr	Y			
					Cancel	ОК	

🖉 Tips:

- 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 Service Type, 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 External_Port should not be overlapped.

Done!

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

Ø Tips:

- The WAN IP should be a public IP address. For the WAN IP is assigned dynamically by the ISP, it is recommended to apply and register a domain name for the WAN referring to <u>Set Up a Dynamic DNS Service Account</u>. Then users on the internet can use http:// domain name to visit the website.
- If you have changed the default External Port, you should use http:// WAN IP: External Port or http:// domain name: External Port to visit the website.

10.2. Open Ports Dynamically by Port Triggering

Port Triggering can specify a triggering port and its corresponding external ports. When a host on 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 and Quick Time 4 players, etc.

Follow the steps below to configure the Port Triggering rules:

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > NAT Forwarding > Port Triggering and click Add.

- 3. Click View Existing Applications, and select the desired application. The Triggering Port, External Port and Protocol will be automatically filled in. The following picture takes application MSN Gaming Zone as an example.
- 4. Click OK.

							🔂 Add	Delet
ID	Application	Triggering Port	Triggering Protocol	Extern	al Port	External Protocol	Status	Modify
		-		-				
Appli	cation :	MSN	l Gaming Zone		View	Existing Appl	ications	
Trigg	ering Port:	476	24		(XX,1	-65535)		
Trigg	ering Protocol:	ALL		Ŧ				
Exter	rnal Port:	230	0-2400,28800	-29000		r XX-XX,1-65 5 pairs)	535,at	
Exter	rnal Protocol:	ALL		Ŧ				
		🕑 Ena	able This Entry					
						ancel	ОК	

Ø Tips:

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

10.3. Make Applications Free from Port Restriction by DMZ

When a PC is set to be a DMZ (Demilitarized Zone) host on 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: When DMZ 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 login normally but cannot join a team with other players. To solve this problem, set your PC as a DMZ host with all ports open.				
How can I do that?	1. Assign a static IP address to your PC, for example 192.168.0.100.				
	2. Visit <u>http://tplinkwifi.net</u> , and log in with your TP-Link ID or the password you set for the router.				
	 Go to Advanced > NAT Forwarding > DMZ and select Enable DMZ. 				
	4. Enter the IP address 192.168.0.100 in the DMZ Host IP Address filed.				
	DMZ				
	DMZ: C Enable DMZ				
	DMZ Host IP Address: 192.168.0.100				
	Save				

5. Click Save.

Done!

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

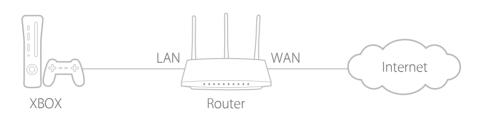
10.4. Make Xbox Online Games Run Smoothly by UPnP

The UPnP (Universal Plug and Play) protocol allows 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 thus 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 has connected to the internet to play online games, UPnP will send request to the router to open the corresponding ports allowing the following data penetrating the NAT to transmit. Therefore, you can play Xbox online games without a hitch.



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

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

UPnP					
UPnP:		D			
UPnP	Service List				
Total Cli	ents: O				🖰 Refresh
ID	Service Description	External Port	Protocol	Internal IP Address	Internal Port
			-		

Chapter 11

VPN Server

The VPN (Virtual Private Networking) Server allows you to access your home network in a secured way through internet when you are out of home. The router offers two ways to setup VPN connection: OpenVPN and PPTP (Point to Point Tunneling Protocol) VPN.

OpenVPN is somewhat complex but with greater security and more stable. It is suitable for restricted environment, such as campus network and company intranet.

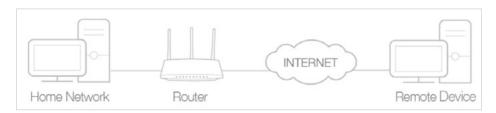
PPTP VPN is more easily used and its speed is faster, it's compatible with most operating systems and also supports mobile devices. Its security is poor and your packets may be cracked easily, and PPTP VPN connection may be prevented by some ISP.

It contains the following sections, please choose the appropriate VPN server connection type as needed.

- <u>Use OpenVPN to Access Your Home Network</u>
- <u>Use PPTP VPN to Access Your Home Network</u>

11.1. Use OpenVPN to Access Your Home Network

In the OpenVPN connection, the home network can act as a server, and the remote device can access the server through the router which acts as an OpenVPN Server gateway. To use the VPN feature, you should enable OpenVPN Server on your router, and install and run VPN client software on the remote device. Please follow the steps below to set up an OpenVPN connection.



Step1. Set up OpenVPN Server on Your Router

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > VPN Server > OpenVPN, and select Enable VPN Server.

OpenVPN			
Note: No certificate curre	ntly, please Generate one befo	e enabling VPN Server.	
	Enable VPN Server		
Service Type:	● UDP ○ TCP		
Service Port:	1194		
VPN Subnet/Netmask:	10.8.0.0	255.255.255.0	
Client Access:	Home Network Only) Internet and Home Network	
			Save

Note:

- Before you enable VPN Server, we recommend you configure Dynamic DNS Service (recommended) or assign a static IP address for router's WAN port and synchronize your System Time with internet.
- The first time you configure the OpenVPN Server, you may need to Generate a certificate before you enable the VPN Server.
- 3. Select the Servive Type (communication protocol) for OpenVPN Server: UDP, TCP.
- 4. Enter a VPN Service Port to which a VPN device connects, and the port number should be between 1024 and 65535.
- 5. In the VPN Subnet/Netmask fields, enter the range of IP addresses that can be leased to the device by the OpenVPN server.

- 6. Select your Client Access type. Select Home Network Only if you only want the remote device to access your home network; select Internet and Home Network if you also want the remote device to access internet through the VPN Server.
- 7. Click Save.
- 8. Click Generate to get a new certificate.

Certificate	
Generate the certificate.	Generate

Note: If you have already generated one, please skip this step, or click Generate to update the certificate.

9. Click Export to save the OpenVPN configuration file which will be used by the remote device to access your router.

Configuration File	
Export the configuration.	Export

Step 2. Configure OpenVPN Connection on Your Remote Device

1. Visit <u>http://openvpn.net/index.php/download/community-downloads.html</u> to download the OpenVPN software, and install it on your device where you want to run the OpenVPN client utility.

Note: You need to install the OpenVPN client utility on each device that you plan to apply the VPN function to access your router. Mobile devices should download a third-party app from Google Play or Apple App Store.

- 2. After the installation, copy the file exported from your router to the OpenVPN client utility's "config" folder (for example, C:\Program Files\OpenVPN\config on Windows). The path depends on where the OpenVPN client utility is installed.
- 3. Run the OpenVPN client utility and connect it to OpenVPN Server.

11.2. Use PPTP VPN to Access Your Home Network

PPTP VPN Server is used to create a VPN connection for remote device. To use the VPN feature, you should enable PPTP VPN Server on your router, and configure the PPTP connection on the remote device. Please follow the steps below to set up a PPTP VPN connection.

Step 1. Set up PPTP VPN Server on Your Router

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > VPN Server > PPTP VPN, and select Enable VPN Server.

PPTP VPN				
	Enable VPN Serve	er		
Client IP Address:	10.0.0.11	- 10.0.0. 20	(up to 10 clients)	
Advanced				
Allow Samba (Network Place	e) access:	~		
Allow NetBIOS passthrough	:	~		
Allow Unencrypted connection	ons:	~		
				Save

Note: Before you enable VPN Server, we recommend you configure Dynamic DNS Service (recommended) or assign a static IP address for router's WAN port and synchronize your System Time with internet.

- 3. In the Client IP Address filed, enter the range of IP addresses (up to 10) that can be leased to the devices by the PPTP VPN server.
- 4. Click Advanced to set the PPTP connection permission according to your needs.
 - Select Allow Samba (Network Place) access to allow your VPN device to access your local Samba server.
 - Select Allow NetBIOS passthrough to allow your VPN device to access your Samba server using NetBIOS name.
 - Select Allow Unencrypted connections to allow unencrypted connections to your VPN server.
- 5. Click Save.
- 6. Configure the PPTP VPN connection account for the remote device, you can create up to 16 accounts.

Acco	unt Li	st (up to 16 users)		
				🕂 Add 😑 Delete
	ID	Username	Password	Modify
-				
	Usern Passw		Cano	zel OK
	1	admin	admin	0

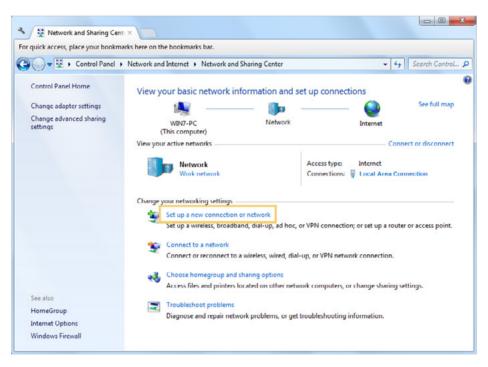
1) Click Add.

- 2) Enter the Username and Password to authenticate devices to the PPTP VPN Server.
- 3) Click OK.

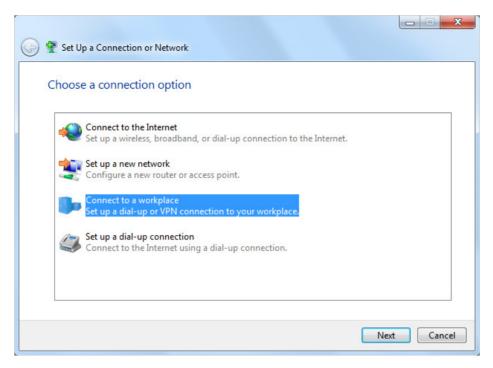
Step 2. Configure PPTP VPN Connection on Your Remote Device

The remote device can use the Windows built-in PPTP software or a third-party PPTP software to connect to PPTP Server. Here we use the Windows built-in PPTP software as an example.

- 1. Go to Start > Control Panel > Network and Internet > Network and Sharing Center.
- 2. Select Set up a new connection or network.



3. Select Connect to a workplace and click Next.



4. Select Use my Internet connection (VPN).

🚱 🌆 Connect to a Workplace	
How do you want to connect?	
Use my Internet connection (VPN) Connect using a virtual private network (VPN) connection through the Internet.	
ing 🔮 🕪	
Dial directly Connect directly to a phone number without going through the Internet.	
ing ing ing	
What is a VPN connection?	
	Cancel

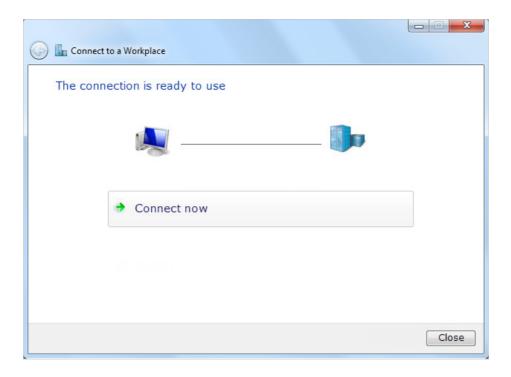
5. Enter the internet IP address of the router (for example: 218.18.1.73) in the Internet address field. Click Next.

3	Connect to a Workplace		
	Type the Internet add	ress to connect to	
	Your network administrator	can give you this address.	
	Internet address:	218.18.1.73	
	Destination name:	VPN Connection	
	This option allows a	o use this connection nyone with access to this computer to use this connection. just set it up so I can connect later	
		Nex	t Cancel

6. Enter the User name and Password you have set for the PPTP VPN server on your router, and click Connect.

Connect to a Workp	lace	
Type your user na		
User name:	admin	
Password:	••••	
	Show characters Remember this password	
Domain (optional):		
		Connect Cancel

7. The PPTP VPN connection is created and ready to use.



Chapter 12

Customize Your Network Settings

This chapter guides you on how to configure advanced network features.

It contains the following sections:

- <u>Change the LAN Settings</u>
- Set Up Link Aggregation
- <u>Configure to Support IPTV Service</u>
- <u>Specify DHCP Server Settings</u>
- <u>Set Up a Dynamic DNS Service Account</u>
- <u>Create Static Routes</u>
- <u>Specify Wireless Settings</u>
- <u>Use WPS for Wireless Connection</u>
- <u>Schedule Your Wireless Function</u>

12.1. Change the LAN Settings

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

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > Network > LAN.
- 3. Type in a new IP Address appropriate to your needs. And leave the Subnet Mask as the default settings.

LAN		
MAC Address:	50-C7-BF-02-EA-DC	
IP Address:	192.168.0.1	
Subnet Mask:	255.255.255.0	

4. Click Save.

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

12.2. Set Up Link Aggregation

The Link Aggregation feature combines two ports together to make a single highbandwidth data path, thus sustaining a higher-speed and more stable wired network.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > Network > LAN.
- 3. Tick the Enable checkbox to enable Link Aggregation.

Link Aggregation	
Link Aggregation:	✓ Enable Only support static link aggregation
Link Aggregation Ports:	LAN1
	✓ LAN2
	✓ LAN3
	LAN4
Note: Select two ports. I	LAN ports used for IPTV or WAN Aggregation cannot be selected.
	Save

4. Specify two ports for Link Aggregation.

Note: LAN ports used for IPTV or WAN aggregation cannot be selected.

5. Click Save.

12.3. Configure to Support IPTV Service

l want to:	Configure IPTV setup to enable Internet/IPTV/Phone service provided by my internet service provider (ISP).
How can I do that?	 Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
	2. Go to Advanced > Network > IPTV.
	 3. If your ISP provides the networking service based on IGMP technology, e.g., British Telecom(BT) and Talk Talk in UK: 1) Tick the IGMP Proxy checkbox and select the IGMP Version, either V2 or V3, as required by your ISP.
	IPTV IGMP Snooping: □ Enable IGMP Proxy: ♥ Enable IGMP Version: V2 ♥

2) Click Save.

 After configuring IGMP proxy, IPTV can work behind your router now. You can connect your set-top box to any of the router's Ethernet port.

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

- 1) Tick Enable IPTV.
- 2) Select the appropriate Mode according to your ISP.
 - Select Bridge if your ISP is not listed and no other parameters are required.
 - Select Custom if your ISP is not listed but provides necessary parameters.

IPTV:	Enable
ISP Profile:	Bridge 💌
	Vietnam-Viettel
LAN5:	Portugal-MEO
LANG:	Portugal-Vodafone
LAN7:	Australia-NBN
LAN8:	New Zealand-UFB
	Bridge
	Custom

- 3) After you have selected a mode, the necessary parameters, including the LAN port for IPTV connection, are predetermined. If not, select the LAN type to determine which port is used to support IPTV service.
- 4) Click Save.
- 5) Connect the set-top box to the corresponding LAN port which is predetermined or you have specified in Step 3.

Your IPTV setup is done now! You may need to configure your set-top box before enjoying your TV.

Tips: Qos and IPTV cannot be enabled at the same time.

12.4. Specify DHCP Server Settings

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

1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.

Done!

- 2. Go to Advanced > Network > DHCP Server.
- > To specify the IP address that the router assigns:

Settings			
DHCP Server:	✓ Enable DHCP Serve	r	
IP Address Pool:	192.168.0.100	- 192.168.0.199	
Address Lease Time:	120 minute	es. (1-2880. The default value is 120.)	
Default Gateway:	192.168.0.1	(Optional)	
Primary DNS:		(Optional)	
Secondary DNS:		(Optional)	
			Save

- 1. Tick the Enable DHCP Server checkbox.
- 2. Enter the starting and ending IP addresses in the IP Address Pool.
- 3. Enter other parameters if the ISP offers. The Default Gateway is automatically filled in and is the same as the LAN IP address of the router.
- 4. Click Save.

> To reserve an IP address for a specified client device:

1. Click Add in the Address Reservation section.

				🕂 Ad	d 😑 Delete
ID	MAC Address	Reserved IP Address	Description	Status	Modify
				12	312
IP Addres Descriptio		Enable This Entry	Cancel	ок	

- 2. Click View Exsiting Devices or enter the MAC address of the client device.
- 3. Enter the IP address to reserve for the client device.

- 4. Enter the Description for this entry.
- 5. Tick the Enable This Entry checkbox and click OK.

12.5. Set Up a Dynamic DNS Service Account

Most ISPs assign a dynamic IP address to the router and you can use this IP address to access your router remotely. However, the IP address can change from time to time and you don't know when it changes. In this case, you might apply the DDNS (Dynamic Domain Name Server) feature on the router to allow you and your friends to access your router and local servers (FTP, HTTP, etc.) using a domain name without checking and remembering the IP address.

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

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > Network > Dynamic DNS.
- 3. Select the DDNS Service Provider: TP-Link, NO-IP or DynDNS. It is recommended to select TP-Link so that you can enjoy TP-Link's superior DDNS service. Otherwise, please select NO-IP or DynDNS. If you don't have a DDNS account, you have to register first by clicking Go to register.

Dynamic DN	S				
Service Provider:	• TP-Link	○ NO-IP ○ DynD	NS		
Current Domain	Name:				
Domain Nam	ne List				
				🕂 Registe	r 😑 Delete
	Domain Name	Registered Date	Status	Operation	Modify
				-	

Note: To enjoy TP-Link's DDNS service, you have to log in with a TP-Link ID. If you have not logged in with one, click Log in.

Dynamic DNS	
Service Provider:	TP-Link ONO-IP ODynDNS
DDNS Unavailable	
To use our superior TP-LI service provider.	NK DDNS service, please <u>Log in</u> with your TP-LINK Cloud account, or choose another

4. Click Register in the Domain Name List if you have selected TP-Link, and enter the Domain Name as needed.

Oynamic DNS					
ervice Provider:	TP-Link	○ NO-IP ○	DynDNS		
urrent Domain Nar	ne:				
)omain <mark>N</mark> ame	_ist				
Domain Name	ist			🕂 Registe	er 😑 Del
Domain Name	list main Name	Registered D	ate Status	e Registe	er 🔵 Dele Modify

If you have selected NO-IP or DynDNS, enter the username, password and domain name of your account.

Dynamic DNS			
Service Provider:	🔿 TP-Link 🏾 🦲	NO-IP O DynDNS	Go to register
Username:			
Password:			
Domain Name:			
Update Interval:	1 hour		
WAN IP binding:	Disable	Enable	

5. Click Login and Save.

@ Tips: If you want to use a new DDNS account, please click Logout first, and then log in with a new account.

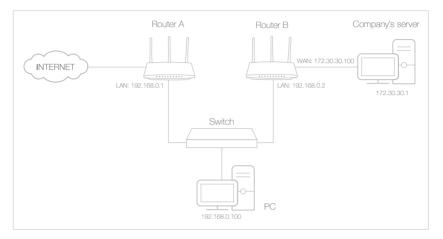
12.6. Create Static Routes

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

I want to:

Visit multiple networks and servers at the same time.

For example, in a small office, my PC can surf the internet through Router A, but I also want to visit my company's network. Now I have a switch and Router B. I connect the devices as shown in the following figure so that the physical connection between my PC and my company's server is established. To surf the internet and visit my company's network at the same time, I need to configure the static routing.



- Change the routers' LAN IP addresses to two different IP addresses on the same subnet. Disable Router B's DHCP function.
 - 2. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for Router A.
 - 3. Go to Advanced > Network > Static Routing.
 - **4.** Click Add and finish the settings according to the following explanations:

							🔂 Add	Delete
	ID	Network Destination	Subnet Mask	Default Gateway	Interface	Description	Status	Modify
	Ne	twork Destination	172.30.3	1.1				
Subnet Mask:		255.255.	255.255.255.255					
	De	fault Gateway:	teway: 192.168.0.2					
	Int	terface:						
Description:		company	's network					
			💌 Enable T	his Entry				
					_			_

Network Destination: The destination IP address that you want to assign to a static route. This IP address cannot be on the same

How can I do that? subnet with the WAN IP or LAN IP of Router A. In the example, the IP address of the company network is the destination IP address, so here enter 172.30.30.1.

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

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

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

Description: Enter a description for this static routing entry.

- 5. Click OK.
- 6. Check the System Routing Table below. If you can find the entry you've set, the static routing is set successfully.

ive I	Routes Number: 1			5
D	Network Destination	Subnet Mask	Gateway	Interface
1	172.30.31.1	255.255.255.0	192.168.0.2	lan

Done!

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

12.7. Specify Wireless Settings

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

Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.

> To enable or disable the wireless function:

- 1. Go to Basic > Wireless.
- 2. The wireless radio is enabled by default. If you want to disable the wireless function of the router, just untick the Enable Wireless Radio checkbox. In this case, all the wireless settings will be invalid.
- > To change the wireless network name (SSID) and wireless password:
- 1. Go to Basic > Wireless.
- 2. Create a new SSID in Network Name (SSID) and customize the password for the network in Password. The value is case-sensitive.

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

> To hide SSID:

- 1. Go to Basic > Wireless.
- 2. Select Hide SSID, and your SSID won't display when you scan for local wireless networks on your wireless device and you need to manually join the network.

> To use the smart connect function:

The smart connect function lets you to enjoy a more high-speed network by assigning your devices to best wireless bands based on actual conditions to balance network demands.

- 1. Go to Advanced > Wireless > Wireless Settings.
- 2. Enable Smart Connect.

Smart Connect		
Smart Connect:		

3. Keep the default values or set a new SSID and password, and click Save. This SSID and password will be applied for the 2.4GHz and 5GHz wireless networks.

> To change the security option:

- 1. Go to Advanced > Wireless > Wireless Settings.
- 2. Select the wireless network 2.4GHz, 5GHz-1 or 5GHz-2.
- 3. Select an option from the Security drop-down list. We recommend you don't change the default settings unless necessary. If you select other options, configure the related parameters according to the help page.

In addition

 Mode - Select a transmission mode according to your wireless client devices. It is recommended to just leave it as default.

- Channel Width Select a channel width (bandwidth) for the wireless network.
- Channel Select an operating channel for the wireless network. It is recommended to leave the channel to Auto, if you are not experiencing the intermittent wireless connection issue.
- Transmit Power Select either High, Middle or Low to specify the data transmit power. The default and recommended setting is High.

> To enable the Airtime Fairness feature:

The Airtime Fairness feature can improve the overall network performance by sacrificing a little bit of network time on your slow devices. Enable Airtime Fairness when you wish to sacrifice some of the networking time from the slow devices, so that your faster devices can achieve better quality of service.

For example, you have a gaming computer next to the router in the living room, and a slower family computer upstairs. Enable the airtime fairness feature so that your gaming computer can perform as optimally as possible.

1. Go to Advanced > Wireless > Wireless Settings.

- 2. Select the wireless network 2.4GHz, 5GHz-1 or 5GHz-2.
- 3. Check the box for Enable Airtime Fairness.
- 4. Click Save.

12.8. Use WPS for Wireless Connection

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

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Make sure the Wi-Fi of your router is on and go to Advanced > Wireless > WPS.

12.8.1. Push the WPS Button

Click Start WPS on the screen. Within two minutes, press the WPS button on your device. Success will appear on the above screen and the **P** LED of the router should change from pulsing white to solid on, indicating successful WPS connection.



12.8.2. Connect via the Router's PIN

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

Method Two	PIN		
Router's PIN	○ Client's PIN		
Router's PIN:			
Router's PIN:	59798835	Generate	Default

Note:

- If you want to enable/disable the WPS feature, go to System Tools > System Parameters > WPS, tick or untick the Enable WPS checkbox.
- PIN (Personal Identification Number) is an eight-character identification number preset to each router. WPS supported devices can connect to your router with the PIN. The default PIN is printed on the label of the router.

12.8.3. Connect via the Client's PIN

Enter the PIN of your device and click Connect. Then your device will get connected to the router.

Method TwoPIN		
○ Router's PIN	's PIN	
Enter the client's PIN:		
Connect		

12.9. Schedule Your Wireless Function

The wireless network can be automatically off at a specific time when you do not need the wireless connection.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > Wireless > Wireless Schedule.
- 3. Enable the Wireless Off Time Schedule feature.

Wireless Schedule	
Wireless Off Time Schedule:	

4. Click Add to specify a wireless off period during which you need the wireless off automatically, and click Save.

Wirel	ess Off	Гіme		
				🕂 Add 🕒 Delete
	ID	Wireless Off Time	Repeat	Modify
	From: To: Repeat	s Off Time: -Please Select- -Please Select- : • Every Day S The latest rule of repetition days is app		
			Cancel	Save

Note:

- The Effective Time Schedule is based on the time of the router. You can go to Advanced > System Tools > Time Settings to modify the time.
- The wireless network will be automatically turned on after the time period you set.

Chapter 13

Manage the Router

This chapter will show you the configuration for managing and maintaining your router. It contains the following sections:

- <u>Set Up System Time</u>
- <u>Control the LED</u>
- <u>Test the Network Connectivity</u>
- <u>Test Your Internet Speed</u>
- Upgrade the Firmware
- Backup and Restore Configuration Settings
- Set the Router to Reboot Regularly
- <u>Change the Login Password</u>
- Password Recovery
- Local Management
- <u>Remote Management</u>
- <u>System Log</u>
- Monitor the Internet Traffic Statistics

13.1. Set Up System Time

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

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > System Tools > Time Settings.

> To get time from the internet:

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

System Time		
Current Time:	10:50:29 AM, 08/17/2017	
24-Hour Time:		
Set Time:	• Get from the Internet) Get from PC () Manually
Time Zone:	(GMT+08:00) Beijing, Hone	Kong, Perth, Singapore 🔹
NTP Server I:	time.nist.gov	
NTP Server II:	time-nw.nist.gov	(Optional)
Obtain		
Obtain		
		Save

- 2. Select your local Time Zone from the drop-down list.
- 3. In the NTP Server I fileId, enter the IP address or domain name of your desired NTP Server.
- 4. (Optional) In the NTP Server II fileId, enter the IP address or domain name of the second NTP Server.
- 5. Click Obtain to get the current Internet time and click Save.

> To get time from your computer:

1. In the Set Time field, select Get from PC.

System Time	
Current Time: 24-Hour Time:	10:52:44 AM, 08/17/2017
Set Time: PC Time:	 Get from the Internet Get from PC Manually 10:52:42 AM, 08/17/2017
re time.	Save

2. The time of your computer will then be displayed and click Save.

> To manually set the date and time:

1. In the Set Time field, select Manually.

Current Time:	10:55:41 AM, 08/17/2017	
24-Hour Time:		
Set Time:	○ Get from the Internet ○ Get from	PC Manually
Date:	08/17/2017	MM/DD/YYYY)
	10 • : 47 • : 09 • (H	HH/MM/SS)

- 2. Set the current Date (In MM/DD/YYYY format).
- 3. Set the current Time (In HH/MM/SS format).
- 4. Click Save.

> To set up Daylight Saving Time:

1. Select Enable Daylight Saving Time.

Daylight Saving T	ïme								
	💌 Enal	ble Dayl	ight S	aving Ti	ime				
Start:	2017	Mar	•	2nd	•	Sun	•	2 AM	
End:	2017	Nov	•	1st	•	Sun	•	2 AM	
Running Status:									
-									

- 2. Select the correct Start date and time when daylight saving time starts at your local time zone.
- 3. Select the correct End date and time when daylight saving time ends at your local time zone.
- 4. Click Save.

13.2. Control the LED

The LED of the router indicates its activities and status. You can enable the Night Mode feature to specify a time period during which the LED is off.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > System Tools > LED Control.
- 3. Enable Night Mode.
- 4. Specify a time period in the LED Off Time filed, and the LED will be off during this period every day.
- 5. Click Save.

LED Control				
LED Status:				
Night Mode				
Note: Before enablin	g Night Mode, plea	ise make sure the S	ystem Time is correct.	
Current Time:	11:07:15 A	AM, 08/17/2017		
Night Mode: (everyday)	Enable			
LED Off Time:	From:	10:00 PM 🜲		
	To:	06:00 AM 🌲	next day	
				Save

13.3. Test the Network Connectivity

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

1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.

2. Go to Advanced > System Tools > Diagnostics.

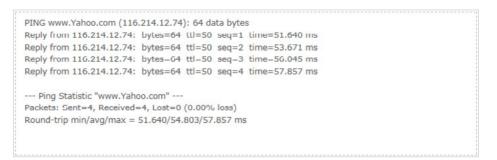
3. Enter the information with the help of page tips:

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

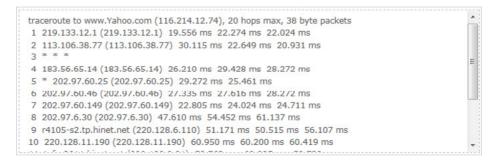
4. Click Start to begin the diagnostics.

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

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



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

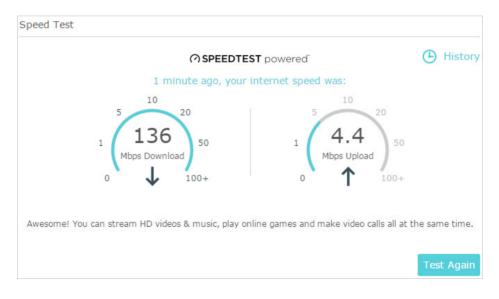


13.4. Test Your Internet Speed

Speed Test provides an easy way to monitor your network speed. It reveals the current upload and download speeds received from your provider and gives practical advice about the activities you can enjoy.

> To test your internet speed:

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Basic > Network Map and click speed Test
- 3. If it is the first time you run a test, the router will start the test automatically. Otherwise, click Test Again.



Note:

- To run a speed test, your router must be connected to the internet.
- For a more accurate result, make sure no apps or programs are running on devices on your network.

> To view history of internet speeds:

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Basic > Network Map and click speed Test .
- 3. Click 🕒 History to view a record of previous speed test results.

Speed Test History		😑 Clear All
06/06/2017 11:37AM	↓ 136Mbps	↑ 4.4Mbps
02/02/2017 08:11AM	↓ 136.5Mbps	↑ 4.3Mbps
02/02/2017 08:11AM	↓ 132.5Mbps	↑ 4.5Mbps

13.5. Upgrade the Firmware

TP-Link aims at providing better network experience for users.

We will inform you through the web management page if there's any update firmware available for your router. Also, the latest firmware will be released at the TP-Link official website <u>www.tp-link.com</u>, and you can download it from the <u>Support</u> page for free.

Note:

- Make sure you remove all attached USB devices from the router before the firmware upgrade to prevent data loss.
- Backup your router configuration before firmware upgrade.
- Do NOT turn off the router during the firmware upgrade.

13.5.1. Online Upgrade

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. When the latest firmware is available for your router, the update icon will display in the top-right corner of the page. Click the icon to go to the Firmware Upgrade page.

Alternatively, you can go to Advanced > System Tools > Firmware Upgrade, and click Check for upgrade to see whether the latest firmware is released.

1.0.0 Bull 20100524 vol.30074	
	Check for upgrade
	1.0.0 Bull/20100524 vol.30074

3. Focus on the Online Upgrade section, and click Upgrade.

Online Upgrade	
Latest Version:	1.1.1.0 Bull 100708 Bul 200800
1. set for its far (3)	
	Upgrade

4. Wait a few minutes for the upgrade and reboot to complete.

Tips: If there's a new and important firmware update for your router, you will see the notification (similar as shown below) on your computer as long as a web browser is opened. Click Upgrade Now, and log into the web management page with the username and password you set for the router. You will see the Firmware Upgrade page.



13. 5. 2. Manual Upgrade

- 1. Download the latest firmware file for the router from <u>www.tp-link.com</u>.
- 2. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 3. Go to Advanced > System Tools > Firmware Upgrade.
- 4. Focus on the Device Information section. Make sure the downloaded firmware file is matched with the Hardware Version.
- 5. Focus on the Manual Upgrade section. Click Browse to locate the downloaded new firmware file, and click Upgrade.

Manual Upgrade		
New Firmware File:	Browse	
		Upgrade

6. Wait a few minutes for the upgrade and reboot to complete.

Note: If you fail to upgrade the firmware for the router, please contact our Technical Support.

13.6. Backup and Restore Configuration Settings

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

a previous settings from the backup file when needed. Moreover, if necessary you can erase the current settings and reset the router to the default factory settings.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > System Tools > Backup & Restore.

> To backup configuration settings:

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

Backup

> To restore configuration settings:

1. Click Browse to locate the backup configuration file stored on your computer, and click Restore.

Restore			
Restore saved settin	gs from a file.		
File:		Browse	
			Restore

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

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

> To reset the router except your login password and TP-Link ID:

1. Click Restore under the Factory Default Restore session.

Factory Default Restore	
Restore all configuration settings to default values, except your login and cloud account inform	ation.
	Restore

2. Wait a few minutes for the resetting and rebooting.

Note:

- During the resetting process, do not turn off the router.
- After reset, you can still use the current login password or the TP-Link ID to log in to the web management page.

> To reset the router to factory default settings:

1. Click Factory Restore to reset the router.

Factory Default Restore	
Revert all the configuration settings to their default values.	
	Factory Restore

2. Wait a few minutes for the resetting and rebooting.

- Note:
- During the resetting process, do not turn off or reset the router.
- We strongly recommend you backup the current configuration settings before resetting the router.

13.7. Set the Router to Reboot Regularly

The Scheduled Reboot feature cleans the cache to enhance the running performance of the router.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > System Tools > Reboot Schedule.
- 3. Check the box to enable Reboot Schedule.

Note: Before enabling	Reboot Schedule, please make sure the <u>System Time</u> is correct.
Current Time:	3:50:02 PM, 08/17/2017
Reboot Schedule:	✓ Enable
Rebuut Schedule:	
Reboot Time:	03: 00 AM 🜲
Repeat:	Every Week 💌 Monday 💌
Repeat:	Every Week V Monday V

- 4. Specify the Reboot Time when the router reboots and Repeat to decide how often it reboots.
- 5. Click Save.

13.8. Change the Login Password

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

Note: If you are using a TP-Link ID to log in to the web management page, the account management feature will be disabled. To manage the TP-Link ID, go to Basic > TP-Link Cloud.

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

2. Go to Advanced > System Tools > Administration and focus on the Account Management section.

t		
Low Middle High		
	Low Middle High	Low Middle High

- 3. Enter the old password, then a new password twice (both case-sensitive). Click Save.
- 4. Use the new password for future logins.

13.9. Password Recovery

This feature allows you to recover the login password you set for you router in case you forget it.

Note: If you are using a TP-Link ID to log in to the web management page, the Password Recovery feature will be disabled. To manage the TP-Link ID, go to Basic > TP-Link Cloud.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > System Tools > Administration and focus on the Password Recovery section.
- 3. Tick the Enable Password Recovery checkbox.
- 4. Specify a mailbox (From) for sending the recovery letter and enter its SMTP Server address. Specify a mailbox (To) for receiving the recovery letter. If the mailbox (From) to send the recovery letter requires encryption, select Enable Authentication and enter its username and password.

Tips:

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

Password Recov	ery	
	Enable Password Recovery	
From:		
To:		
SMTP Server:		
	Enable Authentication	
Username:		
Password:		
	Test Email	Save

5. Click Save.

You can click Test Email to test whether the configuration is successful.

To recover the login password, please visit <u>http://tplinkwifi.net</u>, click Forgot Password? on the login page and follow the instructions to set a new password.

13. 10. Local Management

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

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > System Tools > Administration and complete the settings In Local Management section as needed.
- > Allow all LAN connected devices to manage the router:

Toggle on Unrestricted LAN Access.

Local Management	
Unrestricted LAN Access:	Toggle On to enable the management for all devices on LAN or keep it Off to enable the management for a specific device.

- Allow specific devices to manage the router:
- 1. Toggle off Access for All LAN Connected Devices.
- 2. Click Add.

ocal Ma	nagement				
Inrestricte	ed LAN Acces	L	oggle On to enable the managem AN or keep it Off to enable the m evice.		
				🕂 Add	😑 Delete
	ID	MAC Address	Description	Status	Modify
M	AC Address:		Scan		
D	escription:				
		🗌 Enab	le This Entry		
			Cano	cel Save	
	1	14-CF-92-13-6D-7	3 Your PC!	0	C i

- 3. Click Scan and select the device to manage the router from the Existing Devices list, or enter the MAC address of the device manually.
- 4. Specify a Description for this entry.
- 5. Tick the Enable This Entry checkbox and click OK.

13.11. Remote Management

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

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > System Tools > Administration and complete the settings in Remote Management section as needed.

Remote Management		
	Disable Remote Management	
	 Enable Remote Management for All Devices 	
	 Enable Remote Management for Specified Devices 	
Web Management Port:		
Remote Management IP Address:		
		Save

> Forbid all devices to manage the router remotely:

Select Disable Remote Management and click Save.

- > Allow all devices to manage the router remotely:
- 1. Select Enable Remote Management for All Devices.
- 2. Enter Web Management Port (1024-65535 or 80).
- 3. Click Save.

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

- Ø Tips:
- You can find the WAN IP address of the router on Basic > Network Maps > Internet.
- The router's WAN IP is usually a dynamic IP. Please refer to <u>Set Up a Dynamic DNS Service Account</u> if you want to log in to the router through a domain name.
- > Allow specific devices to manage the router remotely:
- 1. Select Enable Remote Management for Specified Devices.
- 2. Enter Web Management Port (1024-65535 or 80).
- 3. In Remote Management IP address, enter the IP address of the remote device to manage the router.
- 4. Click Save.

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

Tips: The router's WAN IP is usually a dynamic IP. Please refer to <u>Set Up a Dynamic DNS Service Account</u> if you want to log in to the router through a domain name.

13.12. System Log

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

- > To save the system log locally:
- 1. Visit <u>http://tplinkwifi.net</u>, and log in your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > System Tools > System Log.
- 3. Choose the type and level of the system logs as needed.
- 4. Click Save Log to save the system logs to a local disk.

				👌 Refresh 🛛 😑 Delete Al	
ID	Time	Туре	Level	Log Content	
1 2	2016-06-24 04:28:31	Local Management	NOTICE	[19000] Accessable mode change: Devices in the list.	
2 2	2016-06-24 04:25:12	Locale	INFO	[16605] Language is changed to 'en_US'	
3 2	2016-06-24 04:25:12	Locale	DEBUG	[16605] Explorer language is 'zh_CN'	
4 2	2016-06-24 04:25:02	Locale	INFO	[16435] Language is changed to 'en_US'	
5 2	2016-06-24 04:25:02	Locale	DEBUG	[16435] Explorer language is 'zh_CN'	
6 2	2016-06-24 04:24:58	Locale	INFO	[16283] Language is changed to 'en_US'	
7 2	2016-06-24 04:24:58	Locale	DEBUG	[16283] Explorer language is 'zh_CN'	

> To send the system log to a mailbox at a fixed time:

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

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > System Tools > System Log.
- 3. Click Mail Settings.
- 4. Enter the information required:

Mail Settings	
From:	
То:	
SMTP Server:	
	Enable Authentication
Username:	
Password:	
	✓ Enable Auto Mail
	● Log at 00 ▼ : 00 ▼ (HH:MM) everyday
	O Log every 24 hours
	Save

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

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

4) Select Enable Authentication.

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

- 5) Username: Enter the email address used for sending the system log.
- 6) Password: Enter the password to login the sender's email address.
- 7) Select Enable Auto Mail.

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

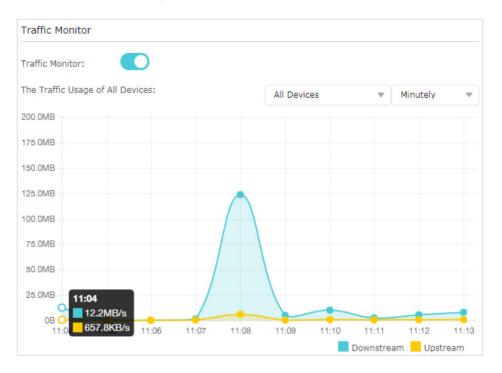
- 8) Set a fixed time. The recipient will receive the system log sent at this time every day.
- 5. Click Save.

13. 13. Monitor the Internet Traffic Statistics

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

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > System Tools > Traffic Monitor.

3. Toggle on Traffic Monitor, and then you can monitor the traffic usage of all the connected devices or a single device.



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:

- 1. Connect your computer to the router using an Ethernet cable.
- 2. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 3. Go to Basic > Wireless to retrieve or reset your wireless password.

Q2. What should I do if I forget my web management password?

- If you are using a TP-Link ID to log in, or you have enabled the Password Recovery feature of the router, click Forgot password on the login page and then follow the instructions to reset it.
- Alternatively, press and hold the Reset button of the router until the Power LED binks to reset it, and then visit http://tplinkwifi.net to create a new login password.

Note:

Please refer to <u>Password Recovery</u> to learn how to configure Password Recovery.

• 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 can't log in to the router's web management page?

This can happen for a variety of reasons. Please try the methods below to log in again.

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

eneral	Security	Privacy	Content	Connections	Programs	Advanced
1	To set up Setup.	an Inter	net connec	tion, click	Set	up
Dial-up	and Virtua	Private N	Network se	ttings		8
٨	Broadbar	nd Conn	ection		Add	ł
					Add V	'PN
					Remo	ve
	e Settings for a conr		ed to config	gure a proxy	Sett	ings
O Ne	ever dial a d	onnectio	n			
O Dia	al wheneve	r a netwo	ork connect	tion is not pres	ent	
O Ah	ways dial m	y default	connection	ı		
Curi	rent	None			Set de	efault
Local A	rea Netwo	rk (LAN) s	ettings -			
			to dial-up r dial-up se	connections. ettings.	LAN se	ttings

4) Click LAN settings and deselect the following three options and click OK.

	figuration may override manual settings. To ensure the settings, disable automatic configuration.
Automatica	ally detect settings
Use autom	atic configuration script
Address	
roxy server	
	y server for your LAN (These settings will not apply to
	PN connections).

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

lnterne	t Properti	es				?
General	Security	Privacy	Content	Connections	Programs	Advanced
Setting	s					
	Enable Move : Reset Reset Browsing Autom Close : Disable	s expand Caret Br system ca text size text size zoom leve atically re unused for e script de e script de	aret with fo to medium to medium el for new v ecover fron olders in His ebugging (I ebugging ((new windows a cus/selection d for new window while zooming* windows and ta n page layout e story and Favor internet Explore	hanges ws and tabs bs rrors with Co rites* er)	ompa
4	Display	/ Accelera	ator button	on selection		*
*Tal	kes effect a	after you	restart Int	ernet Explorer		
				Restore	advanced s	ettings
Rese cond	ition.	Explorer	's settings	to their default	Rest	
			Ok	Ca	incel	Apply

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

Note: You'll need to reconfigure the router to surf the internet once the router is reset.

Q4. What should I do if I can't access the internet even though the configuration is finished?

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > Status to check internet status:

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

💮 Internet 😒	IPv4 IPv6
MAC Address:	50-C7-BF-02-EA-DD
IP Address:	58.61.172.101
Subnet Mask:	255.255.255.255
Default Gateway:	58.61.172.1
Primary DNS:	202.96.134.33
Secondary DNS:	202.96.128.86
Connection Type:	PPPoE

- Your computer might not recognize any DNS server addresses. Please manually configure the DNS server.
 - 1) Go to Advanced > Network > DHCP Server.
 - 2) Enter 8.8.8.8 as Primary DNS, click Save.
 - Tips: 8.8.8.8 is a safe and public DNS server operated by Google.

DHCP Server:	Enable DHCP Server		
IP Address Pool:	192.168.0.100	- 192.168.0.199	
Address Lease Time:	120 minute	s. (1-2880. The default value is 120.)	
Default Gateway:	192.168.0.2	(Optional)	
Primary DNS:	8.8.8.8	(Optional)	
Secondary DNS:		(Optional)	

- Restart the modem and the router.
 - 1) Power off your modem and router, and leave them off for 1 minute.
 - 2) Power on your modem first, and wait about 2 minutes until it gets a solid cable or Internet light.
 - 3) Power on the router.
 - 4) Wait another 1 or 2 minutes and check the internet access.
- Reset the router to 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.

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

💮 Internet 😣	IPv4 IPv6
MAC Address:	50-C7-BF-02-EA-DD
IP Address:	0.0.0.0
Subnet Mask:	0.0.0.0
Default Gateway:	0.0.0.0
Primary DNS:	0.0.0
Secondary DNS:	0.0.0
Connection Type:	PPPoE

- Make sure the physical connection between the router and the modem is proper.
- Clone the MAC address of your computer.
 - 1) Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
 - 2) Go to Advanced > Network > Internet and focus on the MAC Clone section.
 - 3) Choose an option as needed (enter the MAC address if Use Custom MAC Address is selected), and click Save.

MAC Clone	
Use Default MAC Address	
O Use Current Computer MAC Address	
O Use Custom MAC Address	
	Save

Ø Tips:

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

• 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 existing ADSL modem/router. If so, the router is not able to communicate with your modem and 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 <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2) Go to Advanced > Network > LAN.
- 3) Modify the LAN IP address as the follow picture shows. Here we take 192.168.2.1 as an example.
- 4) Click Save.

LAN		
MAC Address:	50-C7-BF-02-EA-DC	
IP Address:	192.168.2.1	
Subnet Mask:	255.255.255.0 💌	

- Restart the modem and the router.
 - 1) Power off your modem and router, and leave them off for 1 minute.
 - 2) Power on your modem first, and wait about 2 minutes until it get a solid cable or Internet light.
 - 3) Power on the router.
 - 4) 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 learned from the ISP.
 - 2) Visit <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
 - 3) Go to Advanced > Network > Internet.
 - 4) Select your Internet Connection Type and fill in other parameters.
 - 5) Click Save.

IPv4			
Internet Connection Type:	Dynamic IP	•	
IP Address:	Static IP Dynamic IP		
Subnet Mask:	PPPoE		
Default Gateway:	BigPond Cable		
	L2TP		
Primary DNS:	РРТР		
Secondary DNS:	0.0.0.0		
Release	WAN port is unplugged.		
Advanced			

6) Restart the modem and the router again.

• 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.

Q5. What should I do if I can't 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 built-in wireless adapter. You can refer to the relevant document or contact the laptop 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) Click Troubleshoot and windows might be able to fix the problem by itself.
 - On Windows XP
 - 1) If you see the message Windows cannot configure this wireless connection, this is usually because windows configuration utility is disabled or you are running another wireless configuration tool to connect the wireless.
 - 2) Exit the wireless configuration tool (the TP-Link Utility, for example).

- 3) Select and right click on My Computer on desktop, select Manage to open Computer Management window.
- 4) Expand Services and Applications > Services, find and locate Wireless Zero Configuration in the Services list on the right side.
- 5) Right click Wireless Zero Configuration, and then select Properties.
- 6) Change Startup type to Automatic, click on Start button and make sure the Service status is Started. And then click OK.

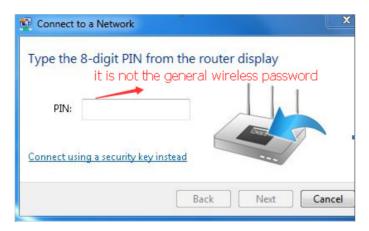
If you can find other wireless network except your own, please follow the steps below:

- Check the WLAN LED indicator on your wireless router/modem.
- Make sure your computer/device is still in the range of your router/modem. Move it closer if it is currently too far away.
- Go to Advanced > Wireless > Wireless Settings, and check the wireless settings. Double check your wireless Network Name and SSID is not hided.

Wireless Settings	2.4GHz 5GHz-1 5GHz-2
	✓ Enable Wireless Radio
Network Name (SSID):	TP-LINK_42D5
Security:	WPA/WPA2-Personal (Recommended)
Version:	Auto O WPA-PSK O WPA2-PSK
Encryption:	Auto O TKIP O AES
Password:	19363226
Mode:	802.11b/g/n mixed 🔍
Channel Width:	Auto
Channel:	Auto
Transmit Power:	○ Low ○ Middle
Airtime Fairness Feature:	Enable Airtime Fairness
	Save

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

- Authenticating problem/password mismatch:
 - Sometimes you will be asked to type in a PIN number when you connect to the wireless network for the first time. This PIN number is different from the Wireless Password/Network Security Key, usually you can only find it on the label of your router.



- 2) If you cannot find the PIN or PIN failed, you may choose Connecting using a security key instead, and then type in the Wireless Password/Network Security Key.
- 3) If it continues to show note of 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. If 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 compliance information statement

FC

Product Name: AC4000 MU-MIMO Tri-Band Wi-Fi Router

Model Number: Archer C4000

Component Name	Model
I.T.E. Power	HKA06012050-7G

Responsible party:

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

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

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

Tel: +1 626 333 0234

Fax: +1 909 527 6803

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

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

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

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

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

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

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

FCC RF Radiation Exposure Statement

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

"To comply with FCC RF exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 28 cm from all persons and must not be colocated or operating in conjunction with any other antenna or transmitter."

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

Issue Date: 2017.12.28

FCC compliance information statement

FC

Product Name: Switching Adapter

Model Number: HKA06012050-7G Responsible party: TP-Link USA Corporation, d/b/a TP-Link North America, Inc. Address: 145 South State College Blvd. Suite 400, Brea, CA 92821 Website: http://www.tp-link.com/us/ Tel: +1 626 333 0234 Fax: +1 909 527 6803 E-mail: sales.usa@tp-link.com

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

• Reorient or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio/ TV technician for help.

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

1) This device may not cause harmful interference.

2) This device must accept any interference received, including interference that may cause undesired operation.

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

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

Issue Date: 2017-12-28

CE Mark Warning

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

OPERATING FREQUENCY (the maximum transmitted power)

2400MHz-2483.5MHz(20dBm)

5150MHz-5250MHz(23dBm)

5250MHz-5350MHz(23dBm)

5470MHz-5725MHz(30dBm)

EU declaration of conformity

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

The original EU declaration of conformity may be found at

http://www.tp-link.com/en/ce

RF Exposure Information

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

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

Restricted to indoor use.

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, meme si le brouillage est susceptible d'en compromettre le fonctionnement

This radio transmitter (IC: 8853A-C4000/ Model: Archer C4000) has been approved by Industry Canada to operate with the antenna types listed below with the maximum

permissible gain indicated. Antenna types not included in this list below, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (IC: 8853A-C4000/ Model: Archer C4000) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste ci-dessous et dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Antenna	Three External Non-detachable Omni-Directional Antennas @2.4G & 5GHz
	Three External Non-detachable Omni-Directional Antennas @5GHz

Caution:

- 1. The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
- 2. For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate.

The high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Avertissement:

- 1. Le dispositif fonctionnant dans la bande 5150-5250 MHz est réservé uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;
- 2. Le gain maximal d'antenne permis pour les dispositifs avec antenne(s) amovible(s) utilisant les bandes 5250-5350 MHz et 5470-5725 MHz doit se conformer à la limitation P.I.R.E.;
- 3. Le gain maximal d'antenne permis pour les dispositifs avec antenne(s) amovible(s) utilisant la bande 5725-5850 MHz doit se conformer à la limitation P.I.R.E spécifiée pour l'exploitation point à point et non point à point.

En outre, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

Les produits utilisant la technique d'atténuation DFS (sélection dynamique des fréquences) sur les bandes 5250- 5350 MHz, 5470-5600MHz et 5650-5725MHz.

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 25cm 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 25 cm de distance entre la source de rayonnement et votre corps.

Industry Canada Statement

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

Korea Warning Statements:

당해 무선설비는 운용중 전파혼신 가능성이 있음.

NCC Notice & BSMI Notice:

注意!

依據 低功率電波輻射性電機管理辦法

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

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

安全諮詢及注意事項

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

	限用物質及其化學符號					
產品元件名	鉛	鎘	汞	六價鉻	多溴聯苯	多溴二苯醚
稱	Pb	Cd	Hg	CrVI	PBB	PBDE
PCB O		0	0	0	0	0
外殻 〇		0	0	0	0	0
電源適配器 –		\bigcirc	0	0	\bigcirc	0
備考1. "超出0.1 wt %" 及 "超出0.01 wt %" 系指限用物質之百分比含量超出百分比含量基準值。						
備考2. "〇"系指該項限用物質之百分比含量未超出百分比含量基準值。						
備考3."-'	系指該項限用物質為排除項目。					

限用物質含有情況標示聲明書



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

EHC

Safety Information

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

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

For EU/EFTA, this product can be used in the following countries:

[AT	BE	BG	CH	CY	CZ	DE	DK
[EE	EL	ES	FI	FR	HR	HU	IE
[IS	IT	LI	LT	LU	LV	MT	NL
[NO	PL	PT	RO	SE	SI	SK	UK

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

Explanations of the symbols on the product label