

User Guide

BE9300 Tri-Band Wi-Fi 7 Router Archer BE550

© 2024 TP-Link 1910013872 REV2.0.0

Contents

Abou	ut This Guide	1
Chap	pter 1. Get to Know About Your Router	3
1. 1.	Product Overview	
1. 2.	Appearance	4
	1. 2. 1.Front Panel	4
	1. 2. 2.Back Panel	6
Chap	pter 2. Connect the Hardware	7
2. 1.	Position Your Router	8
2.2.	Connect Your Router	8
Chap	pter 3. Log In to Your Router	10
Chap	pter 4. Set Up Internet Connection	12
4. 1.	Use Quick Setup Wizard	13
4. 2.	Quick Setup Via TP-Link Tether App	
4.3.	Manually Set Up Your Internet Connection	
4.4.	Set Up the Router as an Access Point	
4. 5.	Set Up an IPv6 Internet Connection	1/
Chap	pter 5. TP-Link Cloud Service	23
5. 1.	Register a TP-Link ID	24
5. 2.	Change Your TP-Link ID Information	
5.3.	Manage the User TP-Link IDs	
	5. 3. 1.Add TP-Link ID to Manage the Router	
	5. 3. 2.Remove TP-Link ID(s) from Managing the Router	
5. 4.	Manage the Router via the TP-Link Tether App	27
Chap	pter 6. Network Map	28
Chap	pter 7. Wireless Settings	33
7.1.	Specify Wireless Settings	34
7.2.	Create Multiple Wireless Networks	37
7.3.	Schedule Your Wireless Function	40

7.4.	Use WPS for Wireless Connection	41
	7. 4. 1.Connect via the Client's PIN	41
	7. 4. 2.Connect via the Router's PIN	41
	7. 4. 3.Push the WPS Button	42
7.5.	Advanced Wireless Settings	42
Chap	ter 8. Guest Network	44
8. 1.	Create a Network for Guests	45
8.2.	Customize Guest Network Options	46
Chap	ter 9. IoT Network	47
Chap	ter 10.USB Settings	49
10.1.	Access the USB Storage Device	50
	10. 1. 1.Access the USB Device Locally	50
	10. 1. 2.Access the USB Device Remotely	51
	10. 1. 3.Customize the Access Settings	53
10.2.	Media Sharing	55
10. 3.	Time Machine	56
Chap	ter 11.HomeShield	58
11.1.	Network Check	59
11.2.		
	QoS	
11.4.	More Features	63
Chap	ter 12.EasyMesh with Seamless Roaming	65
12.1.	Add a Router as a Satellite Device	66
	Add a Range Extender as a Satellite Device	
12.3.	Manage Devices in the EasyMesh Network	71
Chap	ter 13.Network Security	73
13.1.	Protect the Network from Cyber Attacks	74
	Access Control	
	IP & MAC Binding	
	ALG	
13.5.	Device Isolation.	80
Chap	ter 14.NAT Forwarding	82

14.1.	Share Local Resources on the Internet by Port Forwarding	83
14.2.	Open Ports Dynamically by Port Triggering	
14.3.	Make Applications Free from Port Restriction by DMZ	86
14.4.	Make Xbox Online Games Run Smoothly by UPnP	87
Chap	ter 15.VPN Server&VPN Merge	89
15. 1.	Use OpenVPN to Access Your Home Network	90
15.2.	Use PPTP VPN to Access Your Home Network	92
15.3.	Use L2TP/IPSec VPN to Access Your Home Network	96
15.4.	Use WireGuard VPN to Access Your Home Network	104
15.5.	Use VPN Merge (Multi-VPN Clients) to Access Remote VPN Servers	107
Chap	ter 16.Customize Your Network Settings	115
16. 1.	Change the Internet Settings	116
16.2.	Change the LAN Settings	
16.3.	Flow Controller	119
16.4.	Configure to Support IPTV Service	120
16.5.	Specify DHCP Server Settings	121
16.6.	Set Up a Dynamic DNS Service Account	123
16.7.	Create Static Routes	125
Chap	ter 17.Manage the Router	128
17.1.	Update the Firmware	129
	17. 1. 1.Auto Update	129
	17. 1. 2.Online Update	129
	17. 1. 3.Local Update	130
	17. 1. 4.EasyMesh Satellite Update	
17.2.		
17.3.	Password Recovery	
17.4.	Security Questions	134
17.5.	Change the Login Password	135
17.6.	Local Management	136
17.7.	Remote Management	137
17.8.	System Log	139
17.9.	Test the Network Connectivity	141
17.10	. Set System Time	142
17.11	. Set System Language	144
	. Set the Router to Reboot Regularly	
	. Control the LED.	
17.14	. Set ECO Mode to Save Power	146

7. 15. Other System Settings	48
Chapter 18.FAQ	50

About This Guide

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

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

Conventions

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 > System > Firmware Update means the Firmware Update page is under the System 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	 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.

In this guide the following conventions are used:

More Info

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

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 <u>https://www.tp-link.com</u>.

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

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

- * Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Higher capacity is based on laboratory test data, which analyzed the connections of different devices on the 6 GHz, 5 GHz, and 2.4 GHz bands simultaneously. These devices simulated a typical home scenario by running simultaneous applications in the same room that included 4K video, 1080p video, 720p video, file downloading, web browsing, IP cameras, and other IoT devices. Actual wireless data throughput, wireless coverage, and connected devices are not guaranteed and will vary as a result of internet service provider factors, network conditions, client limitations, and environmental factors, including building materials, obstacles, volume and density of traffic, and client location. Actual network speed may be limited by the rate of the product's Ethernet WAN or LAN port, the rate supported by the network cable, internet service provider factors, and other environmental conditions.
- * Significantly Lower Latency refers to the latency improvement of Wi-Fi 7 routers compared to Wi-Fi 6/6E routers, based on laboratory test data. The test conditions had the same 5 GHz or 6 GHz single-frequency wireless interference and tested the maximum latencies of Wi-Fi 7 clients (with MLO turned on) connecting to the 5 GHz and 6 GHz bands of Archer BE550 (with MLO turned on) simultaneously and to the 5 GHz or 6 GHz bands of a Wi-Fi 6/6E router (without the MLO function).
- *Saving clients' battery power requires clients to also support the 802.11ax Wi-Fi standard. Actual power reduction may vary as a result of network conditions, client limitations, and environmental factors.
- * 2.5 Gbps internet speeds require compatible service plans and equipment. Actual network speed may be limited by the rate of the product's Ethernet WAN or LAN port, the rate supported by the network cable, internet service provider factors, and other environmental conditions.
- * Use of WPA3 requires clients to also support the corresponding feature.
- * Use of Wi-Fi 7 (802.11be), Wi-Fi 6 (802.11ax), and features including Multi-Link Operation (MLO), 320 MHz Bandwidth, 4K-QAM, Multi-RUs, OFDMA, and MU-MIMO requires clients to also support the corresponding features.
- * The 320 MHz bandwidth is only available on the 6 GHz band. Simultaneously, the 320 MHz bandwidth on the 6 GHz band and 160 MHz bandwidth on the 5 GHz band may be unavailable in some regions/countries due to regulatory restrictions. Double channel width and speed refer to 320 MHz compared to 160 MHz for Wi-Fi 6 routers.
- *Wi-Fi generations represent the wireless standard IEEE 802.11 a/b/g/n/ac/ax/be. All devices need to support 802.11 Wi-Fi protocols. Users may require an extra modem device that is compatible with their internet service provider to gain internet access.
- *HomeShield includes the Free Basic Plan. Fees apply for the Pro Plan. Visit tp-link.com/ homeshield for more information.
- *TP-Link EasyMesh-compatible products can network with other devices that use EasyMesh. Failed connections may be due to firmware conflicts of different vendors. The EasyMeshcompatible function is still being developed on some models and will be supported in subsequent software updates.
- * This router may not support all the mandatory features as ratified in the IEEE 802.11be specification.
- * Further software upgrades for feature availability may be required.

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

TP-Link Wi-Fi 7 router, with the 802.11be Wi-Fi technology and the brand-new 6 GHz band, achieves Wi-Fi performance at its ultimate level. The new features of Wi-Fi 7 and 4k QAM dramatically improve throughput and increase the capacity and efficiency of the whole network. Access to the 6 GHz band brings more bandwidth, faster speeds, and lower latency, opening up resources for future innovations.

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

1.2. Appearance

1. 2. 1. Front Panel



LED Explanation

Status	Indication
Cycling	The system is starting up or the router is being upgraded. Do not disconnect or power off your router.
Solid All LEDs	The router is working normally.

Status	Indication
Blinking Top 10 LEDs	Establishing a WPS connection.
Solid LED Exclamation Point	The router is disconnected from the internet.
Blinking LED Exclamation Point	The router is disconnected from the internet, and Wi-Fi is off.
Blinking All LEDs	Wi-Fi is off.
Off	Power is off or the LED is turned off.

Buttons

Three physical buttons are located on the front of the router.



Press the WPS button, and immediately press the WPS button on your client device to start the WPS process.



Press and hold this button for about 2 seconds to turn on or off the wireless function of your router.

-)

Press the LED button to turn on or off the LED of your router.

1. 2. 2. Back Panel



The following parts are located on the back panel.

Item	Description
Power On/Off Button	Press this button to power on or off the router.
Power Port	For connecting the router to a power socket via the provided power adapter.
USB 3.0 Port	For connecting your USB storage devices to the router.
2.5Gbps WAN Port	For connecting to your modem or the Ethernet outlet.
2.5Gbps LAN Port (1-4)	For connecting your PC or other wired devices to the router.
Reset Button	Press and hold the button until the LED blinks to reset the router to its factory default settings.

Connect the Hardware

This chapter contains the following sections:

Position Your Router

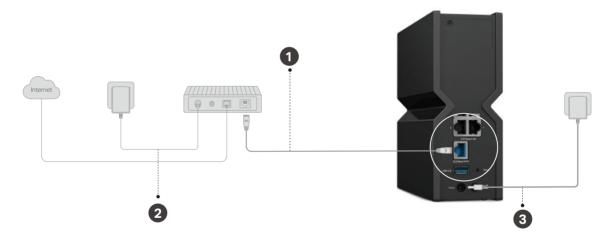
Connect Your Router

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.
- Generally, the router is placed on a horizontal surface, such as on a shelf or desktop.

2.2. Connect Your Router

1. Connect the powered-off modem to the router's 2.5 Gbps WAN port with an Ethernet cable.



- 2. Power on the modem, and then wait about 2 minutes for it to restart.
- 3. Connect the power adapter to the router. Then press the Power button to turn it on.
- 4. Wait until the LED is solid on (LED Exclamation Point or All LEDs).
- 5. Connect your computer to the router.

• Method 1: Wired

Turn off the Wi-Fi on your computer and connect the devices to the LAN port of your router.

• Method 2: Wirelessly

- 1) Find the SSIDs (Network Names) 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.

Computer		Smart Device		
Connections are available		< Settings	Wi-Fi	
Wireless Network Connection		Wi-Fi		
TP-Link_XXXX	OR	CHOOSE A NE	TWORK	
TP-Link_XXX_5G TP-Link_XXX_6G	UK	TP-Link_XXX> TP-Link_XXX>	<_5G	
Connect automatically		TP-Link_XXX	<_6G	🗎 🤶 (j)
		Other		

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.

Note: If the login window does not appear, please refer to the FAQ Section.

$\leftrightarrow \rightarrow \mathbf{C} \triangleq $ http://tplinkwifi.r	et	≡
-		
	Create an Local Password	
	For security purposes, create a local password for login before starting the quick setup.	
	New Password:	
	Ø	
	Confirm Password:	
	<i>ø</i>	
	Let's Get Started	

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 TP-Link Tether App Manually Set Up Your Internet Connection Set Up the Router as an Access Point Set Up an IPv6 Internet Connection

4.1. Use Quick Setup Wizard

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

Ø 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.
- Follow the step-by-step instructions to complete Quick Setup configuration or go to Advanced > Quick Setup for configuration to connect your router to the internet. 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 Sign Up Now to get one. Then follow the instructions to bind the cloud router to your TP-Link ID.

G	et TP-Lin	k Cloud Servio	ce
		P-Link ID. You can mar notified of the latest firm more.	
	TP-Link ID (Ema	ail):	
	Password:		
		LOG IN	
	Sign Up Now	Forgot Password?	
		SKIP	

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 Skip 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 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. Launch the Tether app and log in with your TP-Link ID. Note: If you don't have a TP-Link ID, create one first.

3. Tap the + button, tap Add a Router and select your product model.

Note: Due to Tether app updates, your actual user interface and pathway may differ from those depicted here.

- 4. Follow the steps to complete the setup and connect to the internet.
- 5. 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 Internet.
- 3. Select your internet connection type from the drop-down list.

Internet		
Set up an internet connection with t	he service information provided by your IS	SP (internet service pro
Internet Connection Type:	Dynamic IP	~
	Select this type if your ISP doesn information for internet connection	

- 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.

Set up an internet connection with	the service information provided by your ISP (inte	rnet service provider).
Internet Connection Type:	Dynamic IP	\sim
	Select this type if your ISP doesn't provid information for internet connection.	de any
MAC Clone		
Set the MAC address of your route	r. Use the default address unless your ISP allows	internet access from only a specific MAC address.
	Use Default MAC Address	~

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

up an internet connection with	the service information provided by your ISP (internet service)	vice provid	aer).
ernet Connection Type:	Static IP	~	
	Select this type if your ISP provides specific IP parameters.		
Address:			
onet Mask:			
ault Gateway:			
mary DNS:			
ondary DNS:			(Optional)

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

Set up an internet connection with	he service information provided by your	r ISP (internet service provider)
Internet Connection Type:	PPPoE	\sim
	Select this type if your ISP only and password.	y provides a username
Username:		
Password:		Ø

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.

Set up an internet connection with t	he service information provided by your ISP (internet service pro
nternet Connection Type:	L2TP ~
	Select this type if your ISP provides L2TP VPN server information and an account. Some ISPs also provide specific IP parameters.
Jsername:	
Password:	<i>b</i>
	Oynamic IP
	O Static IP
VPN Server IP/Domain Name:	

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	
Set up an internet connection with th	e service information provided by your ISP (internet service p
Internet Connection Type:	РРТР
	Select this type if your ISP provides PPTP VPN serve information and an account. Some ISPs also provide specific IP parameters.
Username:	
Password:	Ţ.
	Dynamic IP
	◯ Static IP
VPN Server IP/Domain Name:	

5. Click SAVE.

Ø Tips:

- 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 > System > Operation Mode, select Access Point Mode and click SAVE. The router will reboot and switch to Access Point mode.

Operation Mode		
elect an operation mode according	to your needs.	
Wireless Router Mode(Currer	it)	
-	vide internet access for multiple wired and wire	less devices. This mode is
€.	() () () () () () () () () () () () () ((*
Access Point Mode In this mode, the router change	s an existing wired (Ethernet) network into a wi	reless one.
	Internet LAN	

- 3. After rebooting, connect the router to your existing wired router via an Ethernet cable.
- 4. Log in again to the web management page http://tplinkwifi.net, and go to Advanced Advanced Quick Setup.
- 5. Configure your wireless settings and click Next.
- 6. Confirm the information and click SAVE. Now, you can enjoy Wi-Fi.
- Ø Tips:
- Functions, such as Parental Controls, QoS and NAT Forwarding, are not supported in the Access Point mode.
- Functions, such as Guest Network, are the same as those in the Router 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). After setting up the IPv6 internet connection, you can add IPv6 firewall rules to protect your IPv6 network.

- Set up an IPv6 Internet 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 > IPv6.
- 3. Enable IPv6 and select the internet connection type provided by your ISP.
- 4. You can also configure DoT/DoH to provide you with a more secure and private internet connection.

Ø 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.

- 5. Fill in information as required by different connection types.
 - 1) Static IP: Fill in blanks and click SAVE.

IPv6 Internet			
Set up an IPv6 internet connection	on using the information prov	vided by your ISP (internet service provi	der).
IPv6:			
Internet Connection Type:	Static IP	~	
IPv6 Address:			
Default Gateway:			
Primary DNS:			
Secondary DNS:			
MTU Size:	1500	bytes	
Note: You can also configure Do	T/DoH to provide you with a	more secure and private internet conne	ection.

2) Dynamic IP(SLAAC/DHCPv6): Click Advanced Settings to input further information if your ISP requires. Click SAVE and then click RENEW.

Pv6:	
Internet Connection Type:	Dynamic IP(SLAAC/DHCPv6)
IPv6 Address:	::
Primary DNS:	::
Secondary DNS:	::
	RENEW
	RELEASE

3) PPPoE: By default, the router uses the IPv4 account to connect to the IPv6 server. Click Advanced Settings 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, manually enter the username and password for the IPv6 connection.

oer up an in vo internet connec	
IPv6:	
Internet Connection Type:	PPPoE v
Username:	
Password:	Ø
IPv6 Address:	
Advanced Settings	
	CONNECT

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

IPv6 Internet	
Set up an IPv6 internet connect	tion using the information provided by your ISP (internet service provider).
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:	::
Advanced Settings	
	CONNECT
	DISCONNECT

5) Pass-Through (Bridge): Click SAVE and skip to Step 7.

IPv6 Internet	
Set up an IPv6 internet connect	tion using the information provided by your ISP (internet service provider).
IPv6:	
Internet Connection Type:	Pass-Through (Bridge)
Note: You can also configure D	oT/DoH to provide you with a more secure and private internet connection.

 Configure LAN ports. Windows users are recommended to choose from DHCPv6 and SLAAC+Stateless DHCP. Fill in Address Prefix provided by your ISP, and click SAVE. If your internet connection type is Pass-Through (Bridge), no configuration is required for this step.

IPv6 LAN Configure the LAN IPv6 address of the router and set the configuration type to assign IPv6 addresses to the clients.	
Assigned Type:	O ND Proxy
	O DHCPv6
	SLAAC+Stateless DHCP
	SLAAC+RDNSS
Address Prefix:	/64
Address:	FE80::2FF:FF:FE17:71A3/64

7. In **MAC Clone** section, set the MAC address of your router. Use the default address unless your ISP allows internet access from only a specific MAC address.

MAC Clone	
Set the MAC address of your specific MAC address.	router. Use the default address unless your ISP allows internet access from only a
Router MAC Address:	Use Default MAC Address
	00 - A4

8. Go to Internet to check whether you have successfully set up an IPv6 connection.

Ø Tips:

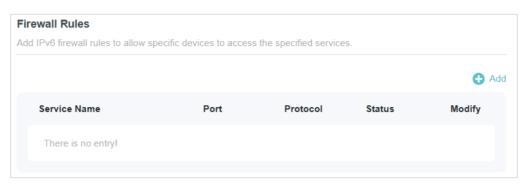
Visit the $\underline{\mathsf{FAQ}}$ section if there is no internet connection.

Set up IPv6 Firewall Rules

IPv6 Firewall protects your IPv6 network by preventing access from the internet. However, when you are hosting a service, such as a file sharing server in your local network, you can choose to allow access to the server from the internet by adding entries on this page. This feature is available only when you've set up an IPv6 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 > IPv6, enable IPv6 and locate the Firewall Rules section. If your internet connection type is Pass-Through (Bridge), you can not configure Firewall Rules.
- 3. Click Add.



4. Select a service from the drop-down list of Service Type. The Port and Protocol will be automatically filled in. It is recommended to keep the default Port and Protocol if you are unsure about which to use. If the service is not listed, please manually enter the Service Type, and specify the Port and Protocol.

Add Firewall Rule		×
Service Type:	Custom	
Service Name:		
Internal IP:		
	VIEW CONNECTED DEVICES	
Port:	21	
Protocol:	TCP	
	CANCEL	ADD

- 5. Specify a Service Name for the rule.
- 6. In the Internal IP field, enter a valid IPv6 address to run the service. You can click Select from clients, choose a local host device, and its IPv6 address will be automatically filled in as the Internal IP.
- 7. Click SAVE, and the newly created IPv6 firewall rule will appear in Firewall Rules.

irewall rules to allow specific devices to access the specified services.			
			🕀 Ado
Port	Protocol	Status	Modify
21	TCP		0
	Port	Port Protocol	Port Protocol Status

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 available. Surely you can also manage multiple TP-Link Cloud devices with a single TP-Link ID.

This chapter introduces how to register a new TP-Link ID, bind or unbind TP-Link IDs to manage your 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 Change Your TP-Link ID Information 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 Advanced > TP-Link ID or click TP-Link ID on the very top of the page.
- 3. Click Sign Up and follow the instructions to register a TP-Link ID.

TP-Link ID	
Log in to bind the router to your T more.	P-Link ID. You can remotely manage your network via the Tether app, and
	TP-Link ID (Email):
	Password:
	Ø
	Log In
	Sign Up Forgot Password?

- 4. After activating your TP-Link ID, come back to the TP-Link ID page to log in. The TP-Link ID used to log in to the 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 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 Advanced > TP-Link ID, 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 <u>http://tplinkwifi.net</u>, and log in with your TP-Link ID.
- 2. Go to Advanced > TP-Link ID, and focus on the Account Information section.

To change your email address:

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

Change Email	8
Password	
New Email	
Save	
Note: New email or passwor may not sync to client devic immediately. Please log in a when your device is connec	ces gain
to the Internet 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	Password	
P Curr	ent Password	
🔎 New	Password	
Low	Middle High	
P Conf	firm Password	
	Save	
Note: Ne	Save w email or password	
nay not	w email or password	s
nay not mmediat	w email or password sync to client device	s ain
nay not mmediat vhen you	w email or password sync to client device tely. Please log in ag	s ain

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 http://tplinkwifi.net, and log in with your TP-Link ID.
- 2. Go to Advanced > TP-Link ID, and focus on the Bound Accounts section.

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

Note: If you need another TP-Link ID, please register a new one via the Tether app. Refer to <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	
🗹 Email	
Cancel	Save

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

			🕀 Bind 🛛 🖨 Unbind
ID	Email	Binding Date	Role
1	darger, redna.cm		Admin
2	dange-fighting\$143.com		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 Advanced > TP-Link ID, and focus on the Bound Accounts section.
- 3. Tick the checkbox(es) of the TP-Link ID(s) you want to remove and click Unbind.

ound	Accou	ints		
				🕂 Bind 😑 Unbind
	ID	Email	Binding Date	Role
	1	dargen, redina on		Admin
	2	#arg-cfght-g\$143.com	1001	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. Launch the Tether app and log in with your TP-Link ID.

Note: If you don't have a TP-Link ID, create one first.

- 3. Connect your device to the router's wireless network.
- 4. Go back to the Tether app, select the model of your router and log in with the password you set for the router.
- 5. 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.

Network Map

Network Map outlines device connectivity of your network visually and helps you manage general settings of the 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 Network Map.
- 3. Click each network device icon to check and manage general network settings.
- Click Internet to check internet status.

Network Map	Internet	(Wireless	HomeShield	(O) Advanced
Internet	2 4G P Archer	5G 6G 중 중	Mesh Devices	Clients
Internet Status				
Connection Type WAN MAC Address.	Dynami: Ci		IP Address: Duration.	192 188 0 100 1 hour

• Click the router to check device status and network settings. You can turn on or off the wireless network or guest network, or click Edit to change related settings.

	;		÷	9	
Interne	t	Archer E	Mesh De	evices	Clients
Router Info	rmation				
Device Nam	e:	Arche	IPv4 LAN IP:		192.168.1.1
LAN MAC A	ddress:	00-F	IPv6 LAN IP:	FE80::2F	F:FF:FE17:71A3/64
Wireless					Ed
Band M	Network Name (SSID)	Password		Channel	Status
2.4 GHz / 5 GHz T	P-Link_2000		ø	2.4G 5G	
8 GHz 1	P-Link_ 3_8G		ø	-	
MLO T Network	TP-Link3_MLO	55.72	Ø	-	
Guest Netw	ork				Ed
Band N	Network Name (SSID)	Password		Channel	Status
2.4 GHz T	P-Link_Guest3				
5 GHz T	TP-Link_Guest3_5G				
8 GHz T	P-Link_Guest3_6G			-	

Band	Network Name (88ID)	Password		Channel	Status
2.4 GHz	TP-Link_JoT_71A3		ø	-	
5 GHz	TP-Link_JoT_71A3_5G		ø	-	0
Multi-Ne	twork				E
Band	Network Name (88ID)	Password		Channel	8tatus

CPU Load			Cur	rent: 12%	Memory Usage		Current: 429
					Q	0-0-0-	0 0
-	-						
CPU	Core Numbe	er: 4					
CPU	Core Numbe	er: 4					
CPU	Core Numbe	er: 4					
		er: 4					
		er: 4					
	Status	r: 4					
Ethernet							
Ethernet	Status	2.5Gbps	2.56bps	2.56bps			
Ethernet	Status		2.5Gbps LAN3 1000Mbps	2.5Gbps LAN4 1000Mbps			

• Click Mesh Devices to view the devices that form a mesh network with the router.

Internet	Archer E	Mesh Devices	Cilents
Mesh Devices			Add
Device Info	Location	Clients	Connection
Arch 00-FF-00-17-71-83 192.168.1.1	Not set	1	
Archar OFO	Not set	1	ę

• Click Clients to view the client devices in your network. You can block devices so they cannot access your network, or set Speed Limit to limit their upload and download speeds.

Internet	2.4G	- 5G 6G ≑ ≑ ⇒	evices	Clients
Connected Clients Device Info	Interface	Real-time Rate	Speed Limit ⑦	View Deny List Modify
 181 B0 192.168.1.74 	Wired	↑ 0.52 Kbps ↓ 0 Kbps	-	Ø
• MyDevice2 7C-F 192.168.1.233	(Wired)	↑ 0.70 Kbps ↓ 0 Kbps		C O

To specify a Device Name for each client:

- 1. Click in the Modify column.
- 2. Enter a Device Name for the device.
- 3. Click SAVE.

To limit the speeds of a device:

- 1. Click ^{III} in the Modify column.
- 2. Enable Speed Limit.
- 3. Set the download and upload speed limit according to your needs.
- 4. Click SAVE. The speeds of the device will be limited.

Edit			×
Device Name:	18101958-BG		
Speed Limit:	Enabled		
Download Speed Limit:	1 Mbps	~	
	Web browsing, sending emails, making social media posts		
Upload Speed Limit:	200 Kbps	~	
		CANCEL	SAVE

Chapter 7

Wireless Settings

This chapter guides you on how to configure the wireless settings. It contains the following sections:

Specify Wireless Settings Create Multiple Wireless Networks Schedule Your Wireless Function Use WPS for Wireless Connection Advanced Wireless Settings

7.1. Specify Wireless Settings

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

- 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 Wireless or Advanced > Wireless > Wireless Settings.

Wireless Settings			
Personalize settings for each bands,	band or enable Smart Connect to configure ti	ne sam	e settings for 2.4 G
TWT:	🗌 Enabled 🥝		
OFDMA/MU-MIMO:	Disabled	×	
Smart Connect:	Enabled		
2.4 GHz / 5 GHz:	Enabled		Share Network
Network Name (SSID):	TP-Link_71A3		Hide SSID
Security:	WPA3-Personal+WPA2-PSK[AES]	v)	
Password:		Ø	
🔻 2.4 GHz / 5 GHz Advance	ed Settings		
Transmit Power:	High	~	
2.4 GHz Channel Width:	auto	~	
2.4 GHz Channel:	Auto	v)	
5 GHz Channel Width:	80	v	
5 GHz Channel:	auto	~	
6 GHz:	🔽 Enabled 🕜		Share Network
Network Name (SSID):	TP-Link_71A3_6G		Hide SSID
Security:	WPA3-Personal	×.)	
Password:		ø	
▼ 6 GHz Advanced Setting:			
Transmit Power:	High	Ŷ	
Channel Width:	auto	~	
Channel:	Enable PSC (2)		
	auto	Ŷ	
Mode:	axbe_5	~	

> To enable or disable TWT:

TWT (Target Wake Time) allows 802.11ax routers and clients to negotiate their periods to transmit and receive data packets. Clients only wake up at TWT sessions and remain in sleep mode for the rest of the time, which significantly extend their battery life. It is disabled by default.

1. Go to Advanced > Wireless > Wireless Settings.

2. Enable TWT.

> To enable or disable OFDMA/MU-MIMO:

OFDMA enables multiple users to transmit data simultaneously, and thus greatly improves speed and efficiency. Noted that only when your clients also support OFDMA, can you fully enjoy the benefits. It is disabled by default.

A router with the MU-MIMO feature serves multiple devices simultaneously while a traditional router serves only one user at a time. That means MU-MIMO can provide a faster, more efficient Wi-Fi network for multiusers. It is disabled by default.

Note: Devices supporting 5GHz wireless band can enjoy the MU-MIMO service.

1. Go to Advanced > Wireless > Wireless Settings.

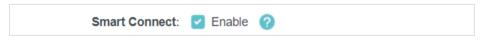
2. Select OFDMA+MU-MIMO or OFDMA only.

> To use the Smart Connect function:

Smart Connect combines the 2.4 GHz and 5 GHz bands and assigns your devices between them to balance network demands, while leaving the brand-new 6 GHz band exclusive for your Wi-Fi 6E devices to unleash the most out of the latest Wi-Fi.

1. Go to Advanced > Wireless > Wireless Settings.

2. Enable Smart Connect.



- 3. Keep the default values or set a new SSID and password, and click SAVE. This SSID and password will be applied for the 2.4 GHz and 5 GHz wireless networks. If you want to configure the wireless settings separately for each band, deselect the checkbox to disable this feature.
- > To enable or disable the wireless function:
- 1. Go to Wireless or Advanced > Wireless > Wireless Settings.
- 2. The wireless bands are enabled by default. If you want to disable a wireless band, just deselect its Enable checkbox.
- > To change the wireless network name (SSID) and wireless password:
- 1. Go to Wireless or Advanced > Wireless > Wireless Settings.

2. Create a new SSID in Network Name (SSID) and customize the password for the network in Password. The value is case-sensitive. If Open is selected as the security type, no password is needed.

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

> To hide SSID:

- 1. Go to Wireless or Advanced > Wireless > Wireless Settings.
- 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 change the security option:

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

> To change the transmit power:

- 1. Go to Advanced > Wireless > Wireless Settings. Click Advanced Settings for further configuration.
- 2. Select an option from the Transmit Power drop-down list: High, Middle or Low. The default and recommended setting is High.

> To change channel settings:

- 1. Go to Advanced > Wireless > Wireless Settings. Click Advanced Settings for further configuration.
- 2. Select a Channel Width (bandwidth) for the wireless network. It is recommended to just leave it as default.
- 3. 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.
- 4. For the 6 GHz network, you can select the Enable PSC checkbox. When PSC (Preferred Scanning Channel) is enabled, only channels with higher connectivity will be reserved to ensure 6 GHz device connections.

> To change the transmission mode:

- 1. Go to Advanced > Wireless > Wireless Settings.
- 2. For the 2.4 GHz and 5 GHz networks, disable Smart Connect, then click Advanced Settings and select a transmission Mode according to your wireless client devices. It is recommended to just leave it as default.

For the Mode of the 6 GHz network, please keep the default settings.

> To create your MLO network:

MLO (Multi-Link Operation) network enables the connected Wi-Fi 7 clients to simultaneously send and receive data across different frequency bands, greatly improving the transmission rate and reliability.

- 1. Go to Advanced > Wireless > Wireless Settings, and locate the MLO Network section.
- 2. Enable MLO Network.
- 3. View the radio bands that the MLO network takes effect.
- 4. Specify an SSID in Network Name (SSID).
- 5. Select the Security type. Specify a password if the security type you selected requires it. This value is case-sensitive.
- 6. You can also click Share Network to share the SSID and password with your guests.
- 7. If you select Hide SSID, your SSID won't display when you scan for local wireless networks on your wireless device and you need to manually join the MLO network.
- 8. Click SAVE to save your settings.

	en its connected Wi-Fi 7 clients can simultaneously atly improving the transmission rate and reliability	
MLO Network:	Enabled	Share Network
Band:	2.4 GHz	
	5 GHz	
	🔽 6 GHz	
Network Name (SSID):	TP-Link_71A3_MLO	Hide SSID
Security:	WPA3-Personal ~	
Password:		3

Ø Tips:

To view the MLO network information, go to Network Map and locate the Wireless section. You can turn on or off the MLO network conveniently.

7.2. <u>Create Multiple Wireless Networks</u>

The Multi-Network feature allows you to create multiple wireless networks, enabling different network names, security types, and access permissions.

- 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 > Multi-Network.
- 3. Clink +Add.

reate multip	le wireless networ	ks, enabling differe	nt network name	s, security types, ar	nd access pe	ermissions.
						🔂 Ad
Band	Description	Network Name (SSID)	Password	Bandwidth Control	Status	Modify
		Name (SSID)		Control		

- 4. Specify the Basic Settings for the network you want to add.
 - Enter a Description for the network.
 - Select 2.4GHz, 5GHz or 6GHz Band from the dropdown list.
 - Enter the Network Name (SSID).
 - Select a Security type and enter a password if required.

0		2	
Basic Set	tings	Advanced Settings	
Basic Settings			
Description:			
Band:	2.4 GHz	~	
Network Name (SSID):		Hide SS	D
Security:	Open	~	
	This security type is r more secure encrypti	ot considered secure. Consider s on.	electing a
		CANCEL	NEXT

5. Click NEXT. Specify the Advanced Settings.

- Tick the Bandwidth Control checkbox if you want to limit the download or upload bandwidth of the network.
- Specify the Effective Time for how long the network turns on.
- Tick the Current Multi-Network Clients checkbox if you want to allow your clients to access the data of current Multi-Network clients.
- Tick the Other Multi-Network Clients checkbox if you want to allow your clients to access the data of other Multi-Network clients.
- Tick the Local Network Clients checkbox if you want to allow your clients to access the data of local network clients (include main network, guest network, loT network).

\otimes			-2
Basic Set	lings	Adv	anced Settings
Advanced Settings			
Bandwidth Control:	Enabled		
Download Bandwidth:	1000	Mbps	(1-1000)
Upload Bandwidth:	1000	Mbps	(1-1000)
Effective Time:	No Limit	~	
Clients Permission:	Current Multi-Network Clie	ents 🕜)
	Other Multi-Network Client	ts 🕜	
	🗌 Local Network Clients 🕜		

6. Click SAVE. The networks added will appear in the Multi-Network list. You can change the settings, share the QR code of the network, disable it or delete it.

	0
KIDS	☑ ≪ ⑪
Band:	2.4 GHz
Network Name (SSID):	1234658
Password:	
Bandwidth Control:	
Status:	
GAME	☑ ≪ ⑪
Band:	6 GHz
Network Name (SSID):	HAPPY
Password:	
Bandwidth Control:	

7.3. 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 Schedule feature.

Wireless Schedule				
Schedule when to automatic	ally turn off y	our wireless network.		
Wireless Schedule:)		
Current Time:	2024	-11-01 01:54:57 AM		
Note: Before using this featu	ıre, make su	re System Time is set to "Get from Inte	rnet".	
				🔂 Add
Wireless Off Time	Band	Repeat	Enable	Modify
There is no entry!				

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

Add Schedule		×
Enable This Entry:	Enabled	
Band:	✓ 2.4 GHz	
	▼ 5 GHz	
	✓ 6 GHz	
Wireless Off Time:	11 v : 00 v PM v	
	07 v: 00 v AM v (next day)	
Repeat:	S M T W T F S	
	CANCEL SAV	E

Note:

- The Effective Time Schedule is based on the time of the router. You can go to Advanced > System > Time & Language to modify the time.
- The wireless network will be automatically turned on after the time period you set.
- If your network contains smart home devices (such as IoT devices), it is recommended to turn on the 2.4 GHz band and not to set the Wireless Off Time, so as to ensure a stable connection.

7.4. 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.

7.4.1. Connect via the Client's PIN

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

WPS:	
Method 1:	Using a PIN
	Client's PIN
	O Router's PIN
	Enter your personal device's PIN here and click CONNECT
	CONNECT

7. 4. 2. Connect via the Router's PIN

Select Router's PIN in Method 1 to enable Router's PIN. You can use the default PIN or generate a new one.

Router's PIN:		
	Enter the router's PIN on your personal Router's PIN: 38337406	device.
	GET NEW PIN	
	DEFAULT	

Note:

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.

7. 4. 3. Push the WPS Button

Click Start on the screen or directly press the router's WPS button. Within two minutes, enable WPS on your personal device. Success will appear on the screen, indicating successful WPS connection.

Method 2:	Using the button below
	Click the button below, then enable WPS on your personal device within 2 minutes.
	Start
Method 3:	Using the router's WPS button
	Press the router's WPS button, then enable WPS on your personal device within 2 minutes.

7.5. Advanced Wireless Settings

Check advanced wireless settings for your device.

- 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 > Additional Settings.
- 3. Configure advanced wireless settings.

Additional Settings		
Check advanced wireless settin	gs for your device.	
WMM:	Enabled	
AP Isolation:	Enabled	
Airtime Fairness:	Enabled	
Beacon Interval:	100	
RTS Threshold:	2346	
DTIM Interval:	1	
Group Key Update Period:	0	S

- WMM WMM function can guarantee the packets with high-priority messages being transmitted preferentially.
- AP Isolation This function isolates all connected wireless stations so that wireless stations cannot access each other through WLAN.
- Airtime Fairness This function can improve the overall network performance by sacrificing a little bit of network time on your slow devices.
- Beacon Interval Enter a value between 40 and 1000 in milliseconds to determine the duration between beacon packets that are broadcasted by the router to synchronize the wireless network. The default value is 100 milliseconds.
- RTS Threshold- Enter a value between 1 and 2346 to determine the packet size of data transmission through the router. By default, the RTS (Request to Send) Threshold size is 2346. If the packet size is greater than the preset threshold, the router will send RTS frames to a particular receiving station and negotiate the sending of a data frame.
- DTIM Interval The value determines the interval of DTIM (Delivery Traffic Indication Message). Enter a value between 1 and 15 intervals. The default value is 1, which indicates the DTIM Interval is the same as Beacon Interval.
- Group Key Update Period Enter a number of seconds (minimum 30) to control the time interval for the encryption key automatic renewal. The default value is 0, meaning no key renewal.

Chapter 8

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:

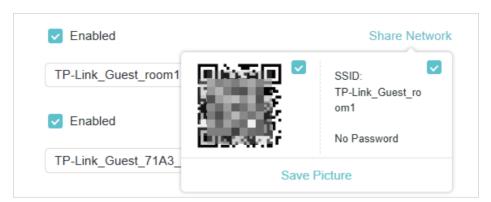
- <u>Create a Network for Guests</u>
- <u>Customize Guest Network Options</u>

8.1. 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 > Wireless > Guest Network or click Wireless on the top page. Locate the Guest Network section.
- 3. Create a guest network as needed.
 - 1) Tick the Enable checkbox for the 2.4GHz, 5 GHz, or 6GHz 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) Enable Bandwidth Control if you want to limit the network speed of your guests. Then enter the limited bandwidth value.
 - 4) Set the effective time to keep the guest network.
 - 5) Select the Security type and customize your own password. If Open is selected, no password is needed to access your guest network.

Enable the wireless bands yo	u want your guests to use and compl	ete the related	information.
	_		
2.4 GHz:	Enabled		Share Network
Network Name (SSID):	TP-Link_Guest_71A3		Hide SSID
Bandwidth Control:	Enabled		
Download Bandwidth:	0	Mbps	
Upload Bandwidth:	0	Mbps	
5 GHz:	Enabled		
6 GHz:	Enabled		
Effective Time:	No Limit	~	
Security:	Open	~	

- 4. Click SAVE. Now your guests can access your guest network using the SSID and password you set!
- 5. You can also click Sharing Network to share the SSID and password to your guests.



Ø Tips:

To view guest network information, go to Network Map and locate the Guest Network section. You can turn on or off the guest network function conveniently.

8.2. 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 > Wireless > Guest Network. Locate the Guest Permissions section.
- 3. Customize guest network options according to your needs.

Guest Permissions	
Control the data that guests can access	ŝ.
	Allow guests to see each other
	Allow guests to access your local network
	Allow guests to access your local network

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 your 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!

Chapter 9

IoT Network

This feature further secures your home network by allowing you to create a dedicated wireless network to manage your IoT devices together, such as smart lights and cameras.

- 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 > IoT Network.
- 3. Create an IoT network as needed.
 - 1) Tick the Enable checkbox for the 2.4GHz, or 5 GHz wireless network. For the 5 GHz network, make sure your IoT devices can connect to a 5 GHz network.
 - 2) Customize the SSID. Don't select Hide SSID unless you want your IoT devices to manually input the SSID for network access.
 - 3) Select the Security type and customize your own password. If Open is selected, no password is needed to access the IoT network.

IoT Network Create a dedicated wireless r	network to manage your IoT devices togethe	er, such as smart lights and camera
2.4 GHz:	Enabled	Share Network
Network Name (SSID):	TP-Link_loT_71A3	Hide SSID
Security:	WPA2-PSK[AES]	~
Password:	•••••	Þ
5 GHz:	Enabled	Share Network
	Make sure your IoT devices can con	nect to a 5 GHz network.
Network Name (SSID):	TP-Link_loT_71A3_5G	Hide SSID
Security:	WPA2-PSK[AES]	~
Password:	•••••	Ø

- 4. Click SAVE. Now you can connect your IoT devices to the dedicated IoT network.
- 5. You can also click Sharing Network to share the SSID and password to others.

Chapter 10

USB Settings

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

The router supports USB external flash drives and hard drives.

It contains the following sections:

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

10.1. 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 > USB Storage Device and click Remove.

10. 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.

	> Method				
	Go to Computer > Network, then click the Network Server Name (TP- SHARE by default) in the Computer section.				
	Note: Operations in diff	in different systems are similar. Here we take Windows 7 as an example.			
G ⊂ 🗣 ► Network ►			•		
File Edit View Tools Help		Help			
Windows	Windows Organize • Network and Sharing Center Add a printer		and Sharing Center Add a printer		
computer		🔆 Favorites	Computer (3)		
		📜 Libraries			
		🍓 Homegroup	Media Devices (1)		
		🖳 Computer			
📭 Network 🔺 Net	 Network Infrastructure (1) 				
			Andrew 2020		

Windows computer	Method 2: 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. Image: Computer of the server of
Мас	 Select Go > Connect to Server. Type the server address smb://tplinkwifi.net. Click Connect. Click Connect. Server Address: <pre></pre>
Tablet	Use a third-party app for network files management.

Ø Tips:

You can also access your USB storage device by using your Network/Media Server Name as the server address. Refer to <u>To Customize the Address of the USB Storage Device</u> to learn more.

10. 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:

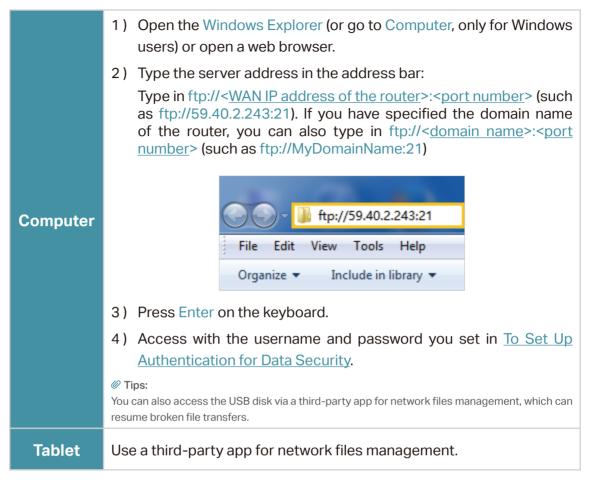
If your ISP assigns a private WAN IP address (such as 192.168.x.x or 10.x.x.x), you cannot use this feature because private addresses are not routed on the internet.

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 > USB Storage Device.
- 3. Tick the Internet FTP checkbox, and then click SAVE.

Access Method Select the method for accessing	g your USB storage device. Th	e device can then be	reached via the	access addres
Network/Media Server Name:	TP-Share			
Access Method	Address	Enable	Port	Modify
SMB for Windows SMB for macOS/Linux	\\192.168.1.1 smb://192.168.1.1			Ĩ
Local FTP	ftp://192.168.1.1:21		21	ľ
Internet FTP	ftp://192.168.0.100:21 Set DDNS		21	Ø

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



Ø Tips:

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

10. 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 > USB Storage Device.

> To Customize the Address of the USB Storage Device

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

 In the Access Method session, make sure Samba for Windows Samba for macOS/ Linux is ticked, and enter a Network/Media Server Name as you like, such as MyShare, then click SAVE.

Access Method Select the method for accessing your USB storage device. The device can then be reached via the access addres				
Select the method for accessing	g your USB storage device. I	ne device can then be i	reached via the	access address
Network/Media Server Name:	MyShare			
Access Method	Address	Enable	Port	Modify
SMB for Windows SMB for macOS/Linux	\\192.168.1.1 smb://192.168.1.1			ľ
Local FTP	ftp://192.168.1.1:21		21	ľ
Internet FTP	ftp://192.168.0.100:21 Set DDNS		21	Ø

2. Now you can access the USB storage device by visiting \\MyShare (for Windows) or smb://MyShare (for Mac).

> To Only Share Specific Content

Focus on the File Sharing section. Specify sharing folders that you want to share and click SAVE.

Sharing	Contents:	
	Share Selected Folders	Ø
Y	G:/Pictures	

> To Set Up Authentication for Data Security

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

1. In the File Sharing section, enable Secure Sharing.

Secure Sharing				
Customize the access	settings to ensure data s	security.		
Username	Password		Permissions	Modify
admin		ø	Read&Write	Ø
visit		ø	Read	ß

2. Click i to modify the access account, and pay attention to the default username and password. Accessing as an administrator can read and modify the shared folders while visitors can only read the shared folders.

Note:

- 1. 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.
- 2. 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 To Customize the Address of the USB Storage Device.

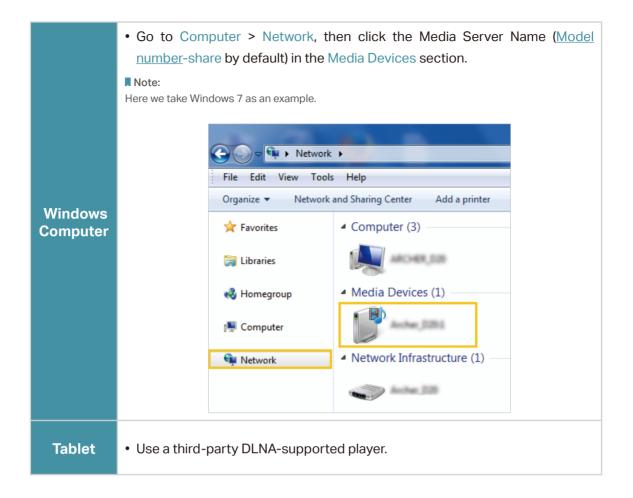
10.2. Media Sharing

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

- 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 > USB Storage Device.
- 3. Enable Media Sharing.

Media Sharing		
View photos, play music and	watch movies stored on the USB storage device via the access address.	
Media Sharing:		

- 4. When your USB storage device 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 storage devices.
- 5. Refer to the following table for detailed instructions.



10.3. 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 > Time Machine.

Time Machine		
Back up all files on your Mac to	a USB storage device conne	ected to your router.
Time Machine:	Enabled	
Backup Location:		
	SELE	ст
Storage Limit for Backups:	0.0	GB

Step 1:	Step 2:	Step 3:
Image: Section (Section (Control C	Size gar name and passed for the sense -Active AN1000 " so that Time Machine can access it. Name: Passeot: Carcel
onnect your Mac to the router's V i, open System Preferences and ick Time Machine.	Mi- Click Select Backup Disk then select BackupTM.	Enter the USB storage device's shared account and click Connect .
otes:		
. We recommend you use a wire	d connection for the backup to get higher sp	beed.
	from the router first before you restart the r	outer or unplug the HDD. HDD may b
	nally powered off or HDD is disconnected d	uring file transfer.

- 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 11

HomeShield

Customize your home network with enhanced security using a kit of features built in TP-Link HomeShield. Whether protecting your sensitive data or limiting the access of kids and guests, TP-Link HomeShield provides you the tools you need to fully manage your network.

It contains the following sections:

- Network Check
- Parental Controls
- <u>QoS</u>
- More Features

*For an easier way to check your home network protection system, you can download the Tether app to enjoy full Homeshield Pro feature.

11.1. Network Check

Scan your whole network to help analyze and optimize your 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 HomeShield > Network Check, or Advanced > HomeShield > Network Check.
- 3. Click SCAN.

Network Check Check your network for better	network performance and security.
	Click SCAN to start checking your network.
	Router Security
U	Security
	SCAN

4. Optimize your network according to the tips.

Check your network for better	r network performance and security.		
	The following items can be op	timized.	
	Router Security	Perfect	
	iveless Security	1 risk	
	RESCAN		

Router Security 🥑	
Firmware Version	0
Remote Management	0
Respond to Pings from WAN	0
Port Forwarding	0
Port Triggering	ø
DMZ	0

Wireless Security 🥝	
Wireless Encryption	0
Wi-Fi Password Wi-Fi password is not strong. It is recommended to use a combination of letter the password.	Change Password s, numbers, and symbols for
Guest Network	0

11.2. 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.

- 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 HomeShield > Parental Controls, or Advanced > HomeShield > Parental Controls.

Parental Control	s				
Easily manage your flexible schedules.	kid's online activities b	y blocking inappro	opriate content, settir	ig online time lim	its, and creating
Current Time:	2024-1	1-01 12:28:40 AM	I		
Note: To get accura Internet is selected.	te time, controls that ta	ke effect based o	n system time, go to	Time Settings to	
					Add 🔁
Name	Time Spent Online	Devices	Insights	Internet Access	Modify
Click Add to a	add a profile.				

- 3. Click O Add to create a profile for a family member.
- 4. Add basic profile information.

Create Profile		×
1 Basic Info	2 Content Filter	3 Time Controls
Basic Info		
Name the profile and add	devices to it.	
Profile Name:	Tina	
Age:	10	~ ?
Devices:		
+ Add Devices	📮 18101958-BG 🖨	
	C	CANCEL NEXT

1) Enter a Name for the profile to make it easier to identify. Set the age to get the corresponding filter level.

- 2) Click + Add Devices.
- 3) 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.

Create Profile		×
<u></u>	2	
Basic Info	Content Filter	Time Controls
Content Filter		
Select categories to block the co	rresponding content.	
Select Categories ?		
Mature Content	Chat Messaging	Social
Online Shopping	Streaming Media	File Sharing
Gaming		
Blocked Websites Block a specific website by addir Enter a keyword or URL	g a URL, or block all websites cor	taining a specific keyword.
Allowed Websites Allow access to specific websites the Blocked History.	that would be blocked by the Cor	ntent Filter. You can also add from
Enter a keyword or URL	ADD	
		BACK

- 1) Select the content categories to block in the Content Filter list.
- 2) You can also block a specific website. Enter a keyword (for example, "Facebook") or a URL (for example, "www.facebook.com"), then click Add.
- 3) You can allow access to specific websites that would be blocked by the Content Filter. You can also add from the Blocked History list of this profile.
- 4) Click NEXT.
- 6. Set time restrictions on internet access.

Create Profile		×
Basic Info	Content Filter	Time Controls
Time Controls Set internet access time for the	profile.	
Bedtime When enabled, internet is unav	ailable during this period.	
Bedtime:	D	
From: 9	✓ : 00 ✓	PM 🗸
То: 7	v : 00 v	AM 🗸 (next day)
	ntrols? Go to Homeshield > More Tether to enjoy full Homeshield Pr	
		BACK SAVE

- 1) Enable Bed Time 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.
- 2) Click SAVE.
- 3) After adding a profile, you can click the Insight icon to check the detailed visited history, and click (1) to pause the network for this profile anytime. You can also click (2) in the Modify column to edit the settings or click (1) to delete the profile.

Name	Time Spent Online	Devices	Insights	Internet Access	Modify
Tina	0	• 1 • 0	0	(1)	I

Note: You can go to HomeShield > More Features or Advanced > HomeShield > More Features for a detailed introduction and download Tether to enjoy full Homeshield Pro feature.

11.3. QoS

QoS (Quality of Service) allows you to prioritize connection of specific devices for a set duration. Devices set as high priority will be allocated more bandwidth and so continue to run smoothly even when there is heavy traffic on the network.

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

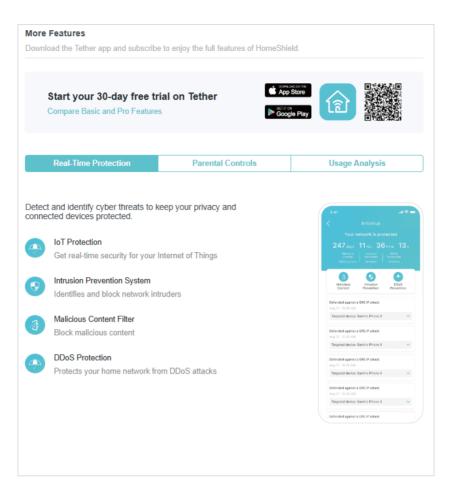
- 2. Go to HomeShield > QoS or Advanced > HomeShield > QoS.
- 3. Enable QoS to set the total bandwidth. Then click SAVE.
- 4. Enable High Priority for the desired device and set its effective time.

Prioritize the Internet traffic o	f specific device to guarant	ee a faster co	nnection.	
QoS:	Enabled			
Download Bandwidth:	2500	Mbps	~	
Upload Bandwidth:	2500	Mbps	~	
Device Priority				
Device Priority Device Info	Real-time Rate	Traffic Usage	High Priority	Timing

11.4. More Features

Download the Tether app and subscribe to enjoy the full features of HomeShield.

- 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 HomeShield > More Features or Advanced > HomeShield > More Features.
- 3. Follow the web instructions to get full features of HomeShield.



Chapter 12

EasyMesh with Seamless Roaming

This product is compatible with EasyMesh. This chapter introduces the EasyMesh feature.

It contains the following sections:

- Add a Router as a Satellite Device
- Add a Range Extender as a Satellite Device
- Manage Devices in the EasyMesh Network

EasyMesh routers and extenders work together to form one unified Wi-Fi network. Walk through your home and stay connected with the fastest possible speeds thanks to EasyMesh's seamless coverage.

Note: Routers and range extenders must be compatible with EasyMesh or OneMesh™. Firmware upgrades may be required.

12. 1. Add a Router as a Satellite Device

Method 1. Via an Ethernet cable

- 1. Connect your router's LAN port to the satellite device's LAN port via an Ethernet cable.
- 2. Connect the power adapter to the satellite device, then power on and reset it. Then the device will be added to the network automatically.

Note: You can check whether the router is added to the network on your router's web management page or the Tether app.

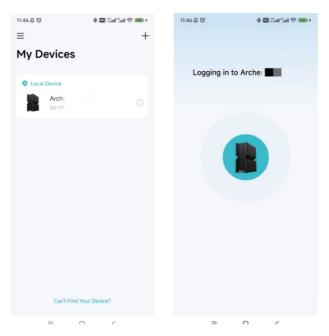
Method 2. Via the WPS button

- 1. Place the router next to your router, then power on and reset it.
- 2. Press the WPS button on your router.
- 3. Press the WPS button on the new router within 2 minutes. Then the router will be added to the network automatically.

Note: You can check whether the router is added to the network on your router's web management page or the Tether app.

Method 3. Via the Tether app

- 1. Connect your Laptop/PC/Mobile phone to your router's Wi-Fi.
- 2. Open the Tether app, select your router and log in with your TP-Link ID.



3. Go to More > EasyMesh, turn on the EasyMesh button.

11:47 点 回	🕸 🖾 Sati Sati 🕫 🚥 7	11:47 反 回	🚸 🔤 Sali Sali 🕫 🚥 +
≡		< EasyMesh	0
More		EasyMesh	
Q Search		Mode Main Router	
Wi-Fi Settings	QoS 🚍	≓ Show List	
 Quick Setup 	>		
Internet Conne	ection >		
🔒 Guest Network			
IoT Network	>	Archer	BE ^r
🔒 Block List			
🗞 EasyMesh	>	Arch	er
() Network Optim	nization >		-
🛕 Network Diagn	ostics >	Add Satel	lite Devices
Network Security	Family More	Neer	d Help
=		=	

4. Tap Add Satellite Devices. Then select a satellite device type and follow the step-by-

step instructions to add another router.

Note: After being successfully added to the EasyMesh network, the satellite device will appear in the EasyMesh Network list.

Method 4. Via the web browser

- 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 > EasyMesh, and enable EasyMesh.

EasyMesh		
Connect EasyMesh and C management.	neMesh devices to create a mesh network for seamless Wi-Fi coverage and centra	alized
EasyMesh:		
What's EasyMesh?		
EasyMesh Network		
Set up and manage your E	asyMesh network.	
Current Mode:	Main Router 🖕 Change Mode	
In this mode, you can add	EasyMesh and OneMesh devices to boost Wi-Fi coverage.	
Note: TP-Link satellite rou	ers will follow the main router's LED Control Settings.	
	Ethernet Wire	eless
	•	

3. Locate the Mesh Device Detail section and click . Select TP-Link Router, then click NEXT.

lesh Devices: 1				•	Ad
Device Info	Location	Clients	Connection	Modify	
Archer 00-FF 192.168.1.1	Not set	1		Ø	
Add Satellite Devices	vices do you want to ac	dd?			×
					×
Vhich type of satellite de	Mesh and OneMesh ro	uters)			×

4. Follow the page instructions to prepare your satellite router, then click DONE.



5. Click ADD. When prompted "This device has been added successfully", click OK, then click FINISH.

Add TP-Li	nk Satellite Ro	uters		×
How to cha		atellite routers, and add then Satellite Router mode?	n to the mesh network.	
				Searching
Туре	Name	MAC Address	Signal	Add
Щ	Archer	₽B	atl	ADD
			ВАСК	FINISH

Done! The satellite router will also appear on the web management page.

-	h Network				
Set up and manage your EasyMesh network.					
Current Me	ode:	Main Router	🖨 Change Mode		
In this mod	e, you can add Eas	syMesh and OneMe	sh devices to boost Wi-Fi	coverage.	
Note: TP-L	ink satellite routers	will follow the main	router's LED Control Set	tings.	
				Ethernet	····· Wireless
			Archer BE		
			Archi		
Mesh Dev	vice Detail		Ardin		
			Ardii		• Ad
Mesh Devic		Location		Connection	Ad Modify
Mesh Devic	ces: 2	Location Not set		Connection	•

12.2. Add a Range Extender as a Satellite Device

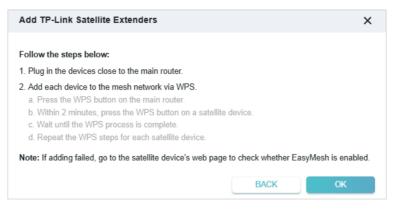
- 1. Visit<u>http://tplinkwifi.net</u>, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > EasyMesh, and enable EasyMesh.

EasyMesh		
Connect EasyMesh and C management.	DneMesh devices to create a mesh network for seamless Wi-Fi coverage and centralize	d
EasyMesh:		
What's EasyMesh?		
EasyMesh Network		
Set up and manage your	EasyMesh network.	
Current Mode:	Main Router 🖌 Change Mode	
In this mode, you can add	EasyMesh and OneMesh devices to boost Wi-Fi coverage.	
Note: TP-Link satellite rou	uters will follow the main router's LED Control Settings.	
	Ethernet Wireless	3
	Щ.	

3. Locate the Mesh Device Detail section and click Select TP-Link Extender, then click NEXT.

Mesh Devices: 1				🔂 Ac
Device Info	Location	Clients	Connection	Modify
Archer 00-FF 192.168.1.1	Not set	1		C
Add Satellite Devices				×
Which type of satellite dev	rices do you want to ac	id?		
TP-Link Router (Includes TP-Link Easy!	Nesh and OneMesh ro	uters)		
TP-Link Extender (Includes TP-Link Easyl	lesh and OneMesh ex	tenders)		
Others	vices of other brands)			

4. Follow the page instructions to prepare your satellite extender, then click OK.



5. Done! You can check the mesh device on the router's web page now.

12. 3. Manage Devices in the EasyMesh Network

In an EasyMesh network, you can manage all mesh devices and connected clients on your main router's web page.

> To view mesh devices and connected clients in the 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 Network Map.
- 3. Click 💆 to view all mesh devices, and click 🛒 to view all connected clients.

> To manage an EasyMesh device in the 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 > EasyMesh.

1 M	fo	Location	Clients	Connection	Modify
	rcher				
	I-FF-00	Not set	1		Ø
	rcher 3-F1- 12.168.1.57	Not set	1	6	601

3. Click the Modify button to view detailed information and change its settings.

Edit Satellite Device			×
Device	Info	Clients	
Name:	ROOM1		
IP Address:	192.168.1.57		
MAC Address:	7C-F1-7E-85-3B-7A		
LED Status:	Enabled		
Note: Currently, this satel subsequent firmware upda	llite device doesn't support LEI lates.	D Control, please stay ti	ined for
Link Speed:	100 Mbps (wired)		
Location:	Bedroom	~	
		CANCEL	ОК
Edit Satellite Device			×
Edit Satellite Device	Info	Clients	×
	Info IP Address	Clients MAC A	
Device			ddress
Device	IP Address	MAC A	ddress

- Change device information such as Name and Location.
- Click Clients to view the clients connected to of this device.

Chapter 13

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 from cyber attacks, block or allow specific client devices to access your network using Access Control, you can prevent ARP spoofing and ARP attacks using IP & MAC Binding, protect your network security by isolating your IoT devices.

It contains the following sections:

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

*For a more comprehensive home network protection system, refer to the <u>HomeShield</u> chapter.

13. 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.

Firewall					
Check the settings of the firewall that protects your network. It is recommended to keep them as default.					
SPI Firewall:					
Respond to Pings from LAN:					
Respond to Pings from WAN:					

13.2. Access Control

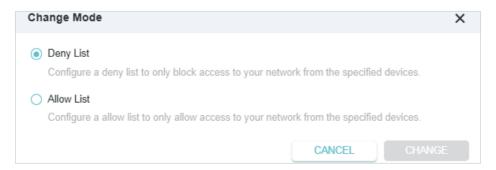
Access Control is used to block or allow specific client devices to access your network (via wired or wireless) based on a list of blocked devices (Deny List) or a list of allowed devices (Allow List).

I want to:

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

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 > Access Control.
- 3. Toggle on to enable Access Control.
- 4. Click Change Mode to select the access mode to either block (recommended) or allow the device(s) in the list.



To block specific device(s):

1) Select Deny List.

Access Cor	ntrol			
Control the ac	cess to your network	from the sp	ecified devices.	
Access Contro	ol:			
Current Mode	c.	Deny List	🖕 Change Mode	
				🔂 Add
Device 1	Type Devic	e Name	MAC Address	Modify
There is	s no entry!			

2) Click 🚭 Add and select devices you want to be blocked. You can select from the device list or add it manually. Click ADD.

Add Devices				×
 Select From De Add Manually 	evice List			
🗌 Туре	Device Name	IP	MAC	
	T		10000	1
		C	CANCEL	ADD
Add Devices				×
Select From De O Add Manually	evice List			
Device Name:				
MAC Address:	-		-	
			CANCEL	ADD

3) The Operation Succeeded message will appear on the screen, which means the selected devices have been successfully added to the Deny List.

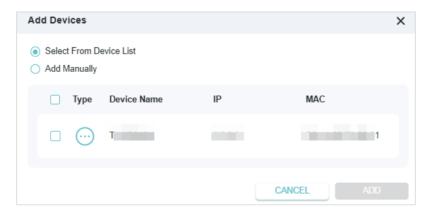
Device Type	Device Name	MAC Address	Modify
—	Yan	38-CA-DA-3A-D8-B1	団

To allow specific device(s):

1) Select Allow List and click SAVE.

Access Control			
Control the access to your	network from the sp	ecified devices.	
Access Control:			
Current Mode:	Allow List	← Change Mode	
Guest Network Exception:	0		
			🔂 Add
Device Type	Device Name	MAC Address	Modify
_	18101958-BG	B0-19-21-AA-B2-58	

- 2) You can toggle on to enable Guest Network Exception. When enabled, the allow list mode will not affect the Guest Network. All devices in the Guest Network can connect to the internet.
- 3) Click ① Add to add devices to the Allow List. You can add devices that have connected to your network before from the device list or add any device manually. Then click ADD.



Add Devices		×
 Select From Device List Add Manually 		
Device Name:		
MAC Address:		
	CANCEL ADD	

4) The Operation Succeeded message will appear on the screen, which means the selected devices have been successfully added to the Allow List.

			🔂 Add
Device Type	Device Name	MAC Address	Modify
		D8-44-89-E	Ū
P		B0-19-21-A/	1

Done!

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

13.3. 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.

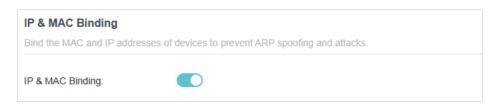
I want to:

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.



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

To bind the connected device(s):

1) Click 😌 Add in the Binding List section.

Binding List				
Add or delete binding ent	ries.			
			🔂 Add	
Device Name	MAC Address	IP Address	Modify	
No Entries				

2) Click VIEW CONNECTED DEVICES and select the device you want to bind. The MAC Address and IP Address fields will be automatically filled in.

Add Binding Entry		×
MAC Address:		
	VIEW CONNECTED DEVICES	
IP Address:		
	CANCEL SAVE	

3) Click SAVE.

To bind the unconnected device:

1) Click 🔂 Add in the Binding List section.

Binding List				
Add or delete binding ent	ries.			
			🔂 Add	
Device Name	MAC Address	IP Address	Modify	
No Entries				

2) Enter the MAC Address and IP Address that you want to bind.

Add Binding Entry		×
MAC Address:		
	VIEW CONNECTED DEVICES	
IP Address:		
	CANCEL SAVE	

3) Click SAVE.

Done!

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

13.4. ALG

ALG allows customized NAT traversal filters to be plugged into the gateway to support address and port translation for certain application layer "control/data" protocols such as FTP, TFTP, H323 etc. It is recommended to keep the default settings.

You may need to disable SIP ALG when you are using voice and video applications to create and accept a call through the router, since some voice and video communication applications do not work well with SIP ALG.

- 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 > ALG.

ALG		
Check the ALG (Application	Layer Gateway) settings. It is recommended to keep them	as default.
PPTP Passthrough:		
L2TP Passthrough:		
IPSec Passthrough:		
FTP ALG:		
TFTP ALG:		
RTSP ALG:		
H323 ALG:		
SIP ALG:		

13.5. Device Isolation

Some devices, such as IoT devices, are vulnerable to security threats. To keep your important devices and data safe, you can isolate these devices to protect your network from being infected.

- 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 > Device Isolation. Enable Device Isolation.

Device Isolation Isolate devices (such as IoT devices) to protect your network from security threats.				
Device Isolation:	• •			
Note: We recommend	disabling AP Isolation which n	nay isolate all devices from each other.		
Isolated Devices				
Isolated Devices: 0			🔂 Add	
Device Type	Device Name	MAC Address	Modify	
Click Add to add	d devices that need to be isolat	ted.		

3. Click +Add to add your IoT devices.

Add Devices		>	<
Main Network (1/2)			
Device Type	Device Name	MAC Address	
	iPhone-Hotspot	D0-A6-37-83-DA-99	
	TE	FC-34-97-BC-F9-34	
		CANCEL ADD	

Done!

While isolated, isolated devices (these devices) can still access the internet and communicate with other isolated devices. However, isolated devices (these devices) cannot transfer data with devices on your home, including managing gateway devices, accessing USB devices, etc.

Chapter 14

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 Port Forwarding, Port Triggering, UPNP and DMZ.

It contains the following sections:

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

14.1. Share Local Resources on the Internet by Port Forwarding

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

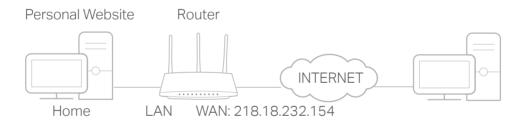
Port Forwarding can be used for setting up public services on your local network, such as HTTP, FTP, DNS, POP3/SMTP and Telnet. Different services use different service ports. Port 80 is used in HTTP service, port 21 in FTP service, port 25 in SMTP service and port 110 in POP3 service. Please verify 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.

*Image may differ from your actual product.



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 > Port Forwarding.
- 4. Click 🔂 Add.

Port Forwarding Specify ports to make specific devices or services on your local network accessible over the internet.						
						🔂 Add
Service Name	Device IP Address	External Port	Internal Port	Protocol	Status	Modify
There is n	o entry!					
	Service Name	Service Device IP	Service Device IP External Name Address Port	Service Device IP External Internal Port Name Address Port	Service Device IP External Internal Port Protocol Name Address Port	Service Device IP External Internal Port Protocol Status Name Address Port

- 5. Click VIEW COMMON SERVICES and select HTTP. The External Port, Internal Port and Protocol will be automatically filled in.
- 6. Click VIEW CONNECTED DEVICES and select your home PC. The Device IP Address will be automatically filled in. Or enter the PC's IP address 192.168.0.100 manually in the Device IP Address field.
- 7. Click SAVE.

Add a Port Forwarding Entry				
Note: Add a rule for an individual external port or port range. For nonconsecutive ports (example: 100 and 200), add multiple rules. For more info, refer to Port Forwarding FAQ.				
Service Name:	HTTP			
	VIEW COMMON SERVICES			
Device IP Address:	192.168.0.100			
	VIEW CONNECTED DEVICES			
External Port:	Individual Port			
	Port Range			
	80			
Internal Port:	80	(Optional)		
Protocol:	TCP ~			
Enable This Entry:	Enabled			
	CAN	NCEL SAVE		

- Ø 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 common services list, you can enter the corresponding parameters manually. You should verify the port number that the service needs.
- You can add multiple port forwarding 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.

14.2. 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.

Port Triggering	
Specify ports to allow devices on your local network to dynamically open speciand forward packets (from the internet) to the device that triggered it.	ific external ports
	🔂 Add
There is no entry!	

3. Click VIEW COMMON SERVICES, and select the desired application. The Triggering Port, Triggering Protocol and External Port will be automatically filled in. The following picture takes application MSN Gaming Zone as an example.

Add a Port Triggering En	try		×
Service Name:	MSN Gaming Zone		
	VIEW COMMON SERVICE	ES	
Triggering Port:	47624		
Triggering Protocol:	All	~	
External Port:	2300-2400,28800-29000		
	(XX or XX-XX,1-65535,at most	5 pairs)	
External Protocol:	All	~	
Enable This Entry:	Enabled		
		CANCEL SAVE	

4. Click SAVE.

- 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.

14.3. 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 log in normally but cannot join a team with other players. To solve this problem, set your PC as a DMZ host with all ports 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.
- 3. Go to Advanced > NAT Forwarding > DMZ and tick to enable DMZ.
- 4. Click VIEW CONNECTED DEVICES and select your PC. The Device IP Address will be automatically filled in. Or enter the PC's IP address 192.168.0.100 manually in the DMZ Host IP Address field.

DMZ	
Expose a specific device in you communications.	Ir local network to the internet for applications such as online gaming and real-time
DMZ:	Enabled
DMZ Host IP Address:	192.168.0.100
	VIEW CONNECTED DEVICES

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.

14.4. Make Xbox Online Games Run Smoothly by UPnP

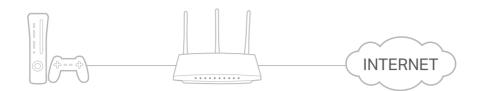
The UPnP (Universal Plug and Play) protocol allows applications or host devices to automatically find the front-end NAT device and send request to it to open the corresponding ports. With UPnP enabled, the applications or host devices on the local network and the internet can freely communicate with 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.

*Image may differ from your actual product.



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				
Enable UPnP (Univers	al Plug and Play) to allow de nultiplayer gaming and real-ti			open ports for
UPnP:				
	ng networked devices that re le UPnP to improve your ne		such as IP camera, NA	S, PS5, or XBOX, it's
UPnP Client List				
Displays the UPnP dev	vice information.			
Total Clients: 0				C Refresh
Service Description	Client IP Address	Internal Port	External Port	Protocol
There is no entr	γI			

Chapter 15

VPN Server&VPN Merge

The router offers several ways to set up VPN connections:

VPN Server allows remote devices to access your home network in a secured way through the internet. The router supports three types of VPN Server:

OpenVPN is somewhat complex but with higher security and more stability, suitable for restricted environments such as campus network and company intranet.

PPTP VPN is easy to use with the built-in VPN software of computers and mobile devices, but it is vulnerable and may be blocked by some ISPs.

L2TP/IPSec VPN is more secure but slower than PPTP VPN, and may have trouble getting around firewalls.

WireGuard VPN is a secure, fast and modern VPN protocol. It is based on the UDP protocol and uses modern encryption algorithms to improve work efficiency.

VPN Merge (Multi-VPN Clients) allows your client devices to simultaneously access multiple VPN servers to satisfy your work, gaming, and video streaming needs.

This chapter contains the following sections:

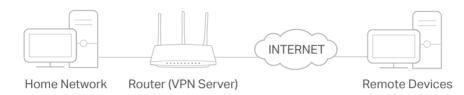
- Use OpenVPN to Access Your Home Network
- Use PPTP VPN to Access Your Home Network
- Use L2TP/IPSec VPN to Access Your Home Network
- <u>Use WireGuard VPN to Access Your Home Network</u>
- <u>Use VPN Merge (Multi-VPN Clients) to Access Remote VPN Servers</u>

15. 1. Use OpenVPN to Access Your Home Network

OpenVPN Server is used to create an OpenVPN connection for remote devices to access your home network.

To use the VPN feature, you need to enable OpenVPN Server on your router, and install and run VPN client software on remote devices. Please follow the steps below to set up an OpenVPN connection.

*Image may differ from your actual product.



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 tick the Enable box of OpenVPN.

OpenVPN Set up an OpenVPN for secure, re	mote access to your network.	
Note: No certificate has been crea	ted. Generate one below before enabling OpenVi	PN.
OpenVPN:	Enabled	
Service Type:	UDPTCP	
Interface Type:	TUN ~	
Service Port:	1194	
VPN Subnet:	10.8.0.0	
Netmask:	255.255.255.0	
Client Access:	Home Network Only	

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 Service Type (communication protocol) for OpenVPN Server: UDP, TCP.

- 4. Select the Interface Type for OpenVPN Server: TUN, TAP. You can select TAP to address the limitations of the traditional TUN mode such as the inability to support broadcast packets and seamless integration of local networks.
- 5. Enter a VPN Service Port to which a VPN device connects, and the port number should be between 1024 and 65535.
- 6. In the VPN Subnet/Netmask fields, enter the range of IP addresses that can be leased to the device by the OpenVPN server.
- 7. 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.
- 8. Click SAVE.
- 9. 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.

10. 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 file.		
	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.

15.2. Use PPTP VPN to Access Your Home Network

PPTP VPN Server is used to create a PPTP VPN connection for remote devices to access your home network.

To use the VPN feature, you need to set up PPTP VPN Server on your router, and configure the PPTP connection on remote devices. 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, and tick the Enable box of PPTP.

PPTP Set up a PPTP VPN and ad	ccounts for quick, remote ac	cess to your network	
PPTP:	Enabled		
Client IP Address:	10.0.0.11	- 10.0.20	
		(up to 10 clients)	
	Allow SMB (Ne	etwork Place) access	
	Allow NetBIOS	s passthrough	
	Allow Unencry	pted connections	

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 field, enter the range of IP addresses (up to 10) that can be leased to the devices by the PPTP VPN server.
- 4. 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.

Account List		
Configure accounts (up to 16) t	hat can be used by remote clients to connect to	the VPN server.
		Hdd
Username	Password	Modify
There is no entry!		

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

Add Account		×
Username:		
Password:	Ø	
	CANCEL	ADD

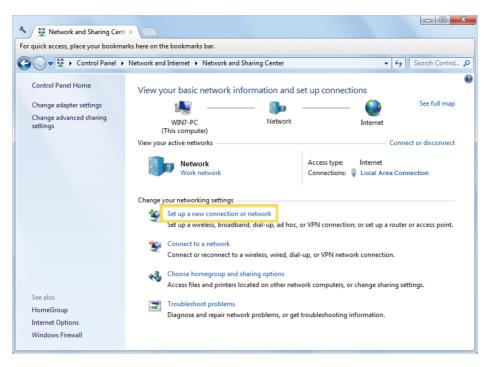
3) Click ADD.

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.

	x
🥪 🛫 Set Up a Connection or Network	
Choose a connection option	
Connect to the Internet Set up a wireless, broadband, or dial-up connection to the Internet.	
Set up a new network Configure a new router or access point.	
Connect to a workplace Set up a dial-up or VPN connection to your workplace.	
Set up a dial-up connection Connect to the Internet using a dial-up connection.	
Next Cance	•

4. Select Use my Internet connection (VPN).

0	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.	
	i - I - I - I	
	Dial directly Connect directly to a phone number without going through the Internet.	
	i i	
	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.

Connect to a Workplace		
Type the Internet addr	ess to connect to	
Your network administrator	can give you this address.	
Internet address:	218.18.1.73	
Destination name:	VPN Connection	
	o use this connection iyone with access to this computer to use this connection. ust set it up so I can connect later	
	Next	t Cancel

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

0	🔚 Connect to a Workplace		
	Type your user name a	and password	
	User name:	10000	
	Password:	•••••	
		 Show characters Remember this password 	
	Domain (optional):		
			Connect Cancel

7. Click Connect Now when the VPN connection is ready to use.

🕞 🌆 Connect to a W	orkplace	
The connectio	n is ready to use	
	ing ipp	
•	Connect now	
		Close

15.3. Use L2TP/IPSec VPN to Access Your Home Network

L2TP/IPSec VPN Server is used to create a L2TP/IPSec VPN connection for remote devices to access your home network.

To use the VPN feature, you need to set up L2TP/IPSec VPN Server on your router, and configure the L2TP/IPSec connection on remote devices. Please follow the steps below to set up the L2TP/IPSec VPN connection.

*Image may differ from your actual product.



Remote Devices

Step 1. Set up L2TP/IPSec VPN Server on Your Router

- 1. Visit http://tplinkwifi.net, and log in with your TP-Link ID or the password you set for the router.
- 2. Go to Advanced > VPN Server > L2TP/IPSec, and enable L2TP/IPSec.

Note:

- Firmware update may be required to support L2TP/IPSec VPN Server.
- · 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.

Set up a L2TP/IPSec VPN and	l accounts for quick, remote acce	ss to your network.
L2TP/IP Sec:	Enabled	
Client IP Address:	10.9.0.11	- 10.9.0.20
PSec Encryption:	Encrypted	~
PSec Pre-Shared Key:	12345678	

- 3. In the Client IP Address field, enter the range of IP addresses (up to 10) that can be leased to the devices by the L2TP/IPSec VPN server.
- 4. Keep IPSec Encryption as Encrypted and create an IPSec Pre-Shared Key.
- 5. Tick the Allow NetBIOS passthrough checkbox if you want to allow your VPN device to access your Samba server using NetBIOS name.
- 6. Click SAVE.
- 7. Configure the L2TP/IPSec VPN connection account for the remote device. You can create up to 16 accounts.

Configure accounts (up to 16) that can	n be used by remote clients to connect to	o the VPN server.
		🔂 Add
Username	Password	Modify

- 1) Click Add.
- 2) Enter the Username and Password to authenticate devices to the L2TP/IPSec VPN Server.

Add Account	×	5
Username:		
Password:	Ø	
	CANCEL ADD	

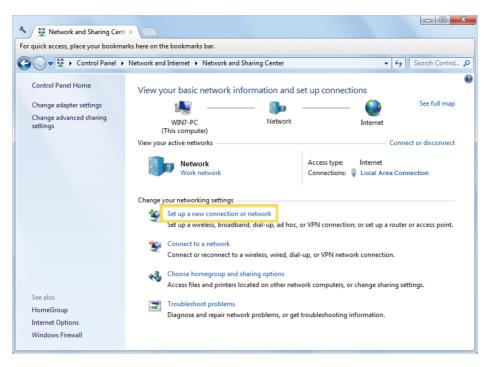
3) Click ADD.

Step 2. Configure L2TP/IPSec VPN Connection on Your Remote Device

The remote device can use the Windows or Mac OS built-in L2TP/IPSec software or a third-party L2TP/IPSec software to connect to L2TP/IPSec Server. Here we use the Windows built-in L2TP/IPSec 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.

	x
🥪 🛫 Set Up a Connection or Network	
Choose a connection option	
Connect to the Internet Set up a wireless, broadband, or dial-up connection to the Internet.	
Set up a new network Configure a new router or access point.	
Connect to a workplace Set up a dial-up or VPN connection to your workplace.	
Set up a dial-up connection Connect to the Internet using a dial-up connection.	
Next Cance	•

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.	
🧶 — 🎱 — 🦫	
Dial directly Connect directly to a phone number without going through the Internet.	
i 💭 — 💵	
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, and select the checkbox Don't connect now; just set it up so I can connect later. Click Next.

Le Connect to a Workplace		
Type the Internet addr	ress to connect to	
Your network administrator	can give you this address.	
Internet address:	218.18.1.73	
Destination name:	VPN Connection	
	o use this connection yone with access to this computer to use this connection. ust set it up so I can connect later	
	Nex	t Cancel

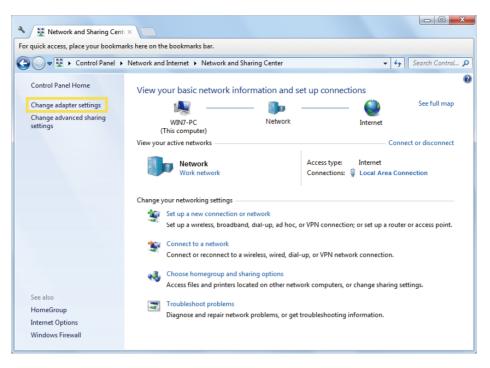
6. Enter the User name and Password you have set for the L2TP/IPSec VPN server on your router, and click Connect.

G	🔚 Connect to a Workplace		
	Type your user name a	and password	
	User name:	1811	
	Password:	•••••	
	Domain (optional):	Show characters	
	,-		
			Connect Cancel

7. Click Close when the VPN connection is ready to use

Ge Le Connect	to a Workplace	
The conn	ection is ready to use	
	in an	
	Connect now	
		Close

8. Go to Network and Sharing Center and click Change adapter settings.



9. Find the VPN connection you created, then double-click it.

				-	
• Every Setwork and I • Network Connections •	▼ \$ 9	Search Netw	ork Connecti	ons	
rganize 👻 Start this connection Rename this connect	ction »			•	2
	Connection				
	nnected Miniport				
Intel(R) PRO/1000 MT Network C	Miniport				

10. Enter the User name and Password you have set for the L2TP/IPSec VPN server on your router, and click Properties.

🐓 Connect VPN Connection 📃	
User name:	
Password:	
Do <u>m</u> ain:	
Save this user name and password for the following users: Me only Anyone who uses this computer	
Connect Cancel Properties Help	

11. Switch to the Security tab, select Layer 2 Tunneling Protocol with IPsec (L2TP/ IPSec) and click Advanced settings.

	Security	Networking	Sharing
Type of VPN:			
Layer 2 Tunnelin	g Protocol	with IPsec (L2	TP/IPSec)
Data encryption:			Advanced settin
Require encrypti	on (disconi	nect if server d	eclines)
Authentication			
O Use Extensit	ole Authent	ication Protoc	ol (EAP)
			Properties
	protocols		
Allow these participation of the second s			
Allow these particular of the second seco			
Allow these particular sectors in the sector of the sec			
Allow these point of the second se	oted passw	ord (PAP)	
Unencryp			ion Protocol (CHAP)
□ Unencryp ☑ Challenge	e <u>H</u> andshal		
Allow these provide the second sec			

12. Select Use preshared key for authentication and enter the IPSec Pre-Shared Key you have set for the L2TP/IPSec VPN server on your router. Then click OK.

dvanced Properties
Use greshared key for authentication Key:
O Use certificate for authentication ☑ Yerify the Name and Usage attributes of the server's certificate
OK Cancel

Done! Click Connect to start VPN connection.

🐓 Connect VPN Connection
User name:
Password:
Domain:
Save this user name and password for the following users: O Me only Anyone who uses this computer
Connect Cancel Properties Help

15.4. Use WireGuard VPN to Access Your Home Network

WireGuard VPN Server is used to create a Wire Guard VPN connection for remote devices to access your home network.

Step 1. Set up WireGuard 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 > WireGuard, and tick the Enable box of WireGuard.

	I accounts for quick, remote and secure access to y
WireGuard:	Enabled
Tunnel IP Address:	10.5.5.1/32
Listen Port:	51820
Client Access:	Internet and Home Network $~\sim~$
Advanced Settings	
DNS:	Enabled
Persistent Keepalive:	25
Private Key:	SCiswsH+MqWuvCJIJ+rBapQpnZmGqJE4w zkn6rTph3o=
Public Key:	wu9CQG2Sh0qe+zByg/Plu7RKB+HhxzjVN W3EWL7kUVE=
	RENEW KEY

- 3. Set the Tunnel IP Address and Listen Port. Do NOT change it unless necessary.
- 4. 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.
- 5. (Optional) Click Advanced Settings to display more settings. If DNS is turned on, the router will become the DNS server of the VPN client that establishes a connection with it. Change the Persistent Keepalive time (25 seconds by default) to send out heartbeat regularly, you can also click RENEW KEY to update the private key and public key.

Step 2. Create accounts that can be used by remote clients to connect to the VPN server.

Add			×
Username:	Test		
Address:	10.5.5.2/32		
Allowed IPs (Client):	0.0.0/0		
Allowed IPs (Server):	10.5.5.2/32		
Pre-shared Key (Secret):	Enabled		
		CANCEL	SAVE

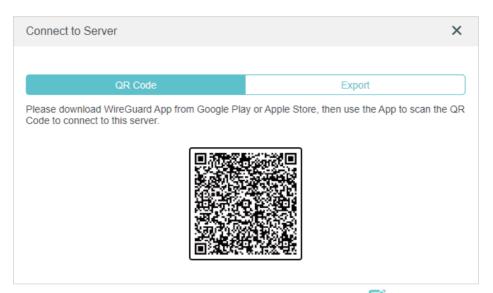
1. Locate the Account List section. Click Add to create an account.

- 2. Give a Username to this account.
- 3. View the Address of the virtual interface assigned to this account. Do NOT change it unless necessary.
- 4. Traffic sent from the WireGuard VPN client to the Allowed IPs (Client) will be transmitted through the tunnel. By default, all network traffic from clients will be transmitted through the tunnel. Do NOT change it unless necessary.
- 5. Traffic sent from the WireGard VPN server to the Allowed IPs(Server) will be transmitted through the tunnel. Do NOT change it unless necessary.
- 6. Enable or disable Pre-shared Key.
- 7. Click SAVE.

Note: One account can only be used by one WireGuard VPN client at the same time to connect to the WireGuard VPN server.

8. Connect to the WireGuard server.

• For mobile phones, download WireGuard App from Google Play or Apple Store. Then, click in the Modify column, use WireGuard App to scan the QR Code to connect to this server.



• For other devices (e.g. TP-Link WireGuard VPN client), click in the Modify column and click Export. Click EXPORT to save the WireGuard VPN configuration file which will be used by the remote device to access your router.

Connect to Server			×
QR Code		Export	
Please use the following configuration to set up yo	our WireGuard client.		
EXF	PORT		
[Interface] PrivateKey = YNt90STZL59h1Ua3RBklZn+sNR Address = 10.5.5.2/32 [Peer] PublicKey = wu9CQG2Sh0qe+zByg/Plu7RKB+ AllowedIPs = 0.0.0.0/0 Endpoint = 192.168.0.100:51820 PersistentKeepalive = 25			
		DONE	

9. On the account list, you can click the button to modify the VPN server settings, connect to the server, or delete the account.

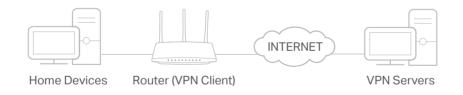
onfigure accounts (up to 16)	that can be used by remote clients to connect to	the VPN server.
		🔂 Ado
Username	Allowed IPs	Modify
Test	0.0.0.0/1,128.0.0.0/1	🖸 🔗 🛅
ADMIN	0.0.0.0/1,128.0.0.0/1	🖸 🖉 🗇

15.5. Use VPN Merge (Multi-VPN Clients) to Access Remote VPN Servers

VPN Merge allows your client devices to simultaneously access multiple VPN servers to satisfy your work, gaming, and video streaming needs.

To use the VPN feature, simply configure a VPN connection and choose your desired devices on your router, then these devices can access the remote VPN server. Please follow the steps below:

*Image may differ from your actual product.



- 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 Merge.

Note: Firmware update may be required to support VPN Client.

3. Enable VPN Merge.

Assign multiple VPN ser	vers for your client devices.
VPN Merge:	
▼ What's VPN Merge	?
-	client devices to simultaneously access multiple VPN servers to satisfy your work, gaming, ads. Follow these steps to use VPN Merge:
1. Enable VPN Merge.	
2. In Server List, add rer	note VPN servers.
3. In Client List, assign t	he VPN servers to your client devices.
	Business VPN

4. In Server List, add remote VPN servers. And enable the server(s) you need.

- 1) In the Server List section, click Add.
- 2) Specify a Description for the VPN, and choose the VPN Type.

Add Profile		×
Description:		
VPN Type:	WireGuard	~
Import from Config File:	OpenVPN	
NAT:	PPTP L2TP/IPSec	
Interface	WireGuard	
Peer		
		CANCEL SAVE

- 3) Enter the VPN information provided by your VPN provider.
- OpenVPN: Enter the VPN username and password if required by your VPN provider, otherwise simply leave them empty. Then import the configuration file provided by your VPN provider.

Add Profile		×
Description:	test1	
VPN Type:	OpenVPN V	
Username:		(Optional)
Password:	ø	(Optional)
Import .ovpn File:	① UPLOAD	
	OpenVPN-Config.ovpn	
	Import the CA file or edit the ovpn file manually	
Import CA File:	企 UPLOAD	
Manual Settings:	Edit	
	CAP	NCEL SAVE

Note: You can also check the box of Import the CA file or edit the . ovpn file manually, then upload the CA file or manually configure the settings.

• PPTP: Enter the VPN server address (for example: 218.18.1.73) and the VPN username and password provided by your VPN provider.

Add Profile		×
Description:	vpn2	
VPN Type:	PPTP v	
VPN Server:	218.18.1.73	
Username:	usernametest	
Password:	······	
Encryption:	Auto	
	CANCEL	

 L2TP/IPSec VPN: Enter the VPN server address (for example: 218.18.1.73), VPN username and password, and IPSec pre-shared key provided by your VPN provider.

Add Profile		×
Description:	vpn3	
VPN Type:	L2TP/IPSec ~	
VPN Server:	218.18.1.73	
Username:		
Password:	ø	
IPSec Pre-Shared Key:		
	CAN	ICEL SAVE

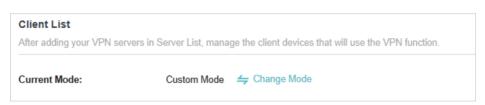
• WireGuard VPN: Give a description, and click UPLOAD to import the WireGuard VPN server configuration. Then you will see the detailed parameters. Do NOT change the parameters unless necessary.

Add Profile		×
Description:	vpn4	
VPN Type:	WireGuard \lor	
Import from Config File:	土 UPLOAD	1
	Ø wg_client.conf	
NAT:	Enabled	
V Interface		
Private Key:	YNt90STZL59h1Ua3RBklZn+sN	
Address:	10.5.5.2/32	
DNS Server 1:		(Optional)
DNS Server 2:		(Optional)
MTU Size:	1420 bytes	(Optional)
V Peer		
Public Key:	wu9CQG2Sh0qe+zByg/Plu7RK	
Pre-Shared Key:		(Optional)
Allowed IPs:	0.0.0/0	
Endpoint Address:	192.168.0.100	
Endpoint Port:	51820	
Persistent Keepalive:	25	(Optional)

- 4) Save the settings.
- 5) In the Server List, enable the VPN server(s) you need.

p to 16 servers can be added.			
s): 0			G Ad
Server	Status	Enable	Modify
192,168.0.100	Disconnected		0
218.18.1.73	Connecting		0 1
218.18.1.73	Connecting		0 0
	s): 0 Server 192.168.0.100 218.18.1.73	s): 0 Server Status 192.168.0.100 Disconnected 218.18.1.73 Connecting	Server Status Enable 192.168.0.100 Disconnected Image: Connecting Connect

- 5. In Client List, assign the VPN servers to your client devices. You can connect all clients to a selected VPN server or assign different VPN servers to your clients individually.
- To connect all clients to a selected VPN server:
 - 1) In the Client List section, click Change Mode
 and select All Clients Mode.



2) Select All Clients Mode, and select a server from the dropdown list.

Change Mode		×
Mode:	 All Clients Mode 	
	In this mode, all clients will be con server.	nected to the selected VPN
	Custom Mode	
	In this mode, you can assign differ clients individually.	rent VPN servers to your
Connected Server:	- Please Select - V)
Note: Enabling All Clients Mod	VPN4	VPN Server.
	test3	ICEL CHANGE
	test2	

- Click CHANGE. Now all your client devices can access the VPN server you specified.
- To assign different VPN servers to your clients individually:

Client List After adding your VPN servers in Server List, manage the client devices that will use the VPN function.		
Current Mode:	Custom Mode 🗧 Change Mode	
Change Mode	×	
Mode:	 All Clients Mode In this mode, all clients will be connected to the selected VPN server. 	
	Custom Mode In this mode, you can assign different VPN servers to your clients individually.	
	CANCEL CHANGE	

2) Click • Add Devices and select the device(s) that will access the VPN server(s) you have enabled.

Add Client Device	×
0	2
Select Device	Select Server
Select Device	
Select the client devices that will use the VI	PN Merge function.
ONLINE DEVICES	
Client Device Info	MAC Address
18	38
OFFLINE DEVICES	
Client Device Info	MAC Address
	CANCEL

3) Set up the VPN server for each selected client device.

Add Client Device		×
Select Device		Select Server
Select Server		Select Selver
Set up the VPN servers for the	selected client devices.	🔀 Refresh
Client Device Info	MAC Address	Server
1	B0-'	- Please Select - V
T	D8-	VPN4 test3 test2
		BACK SAVE

4) Click SAVE. Now the device(s) can access the VPN server you specified.

Device Info	Server	VPN Access	Modify
18 BC	test3 Disconnected	×	⑪
	test2 Disconnected	~ ()	⑪

Chapter 16

Customize Your Network Settings

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

It contains the following sections:

- <u>Change the Internet Settings</u>
- <u>Change the LAN Settings</u>
- Flow Controller
- <u>Configure to Support IPTV Service</u>
- Specify DHCP Server Settings
- <u>Set Up a Dynamic DNS Service Account</u>
- <u>Create Static Routes</u>

16.1. Change the Internet Settings

After setting up your internet, you can also easily change the internet settings if needed in the future.

- 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.
- > To change the internet connection settings:

Internet	
Set up an internet connection v	ith the service information provided by your ISP (internet service provide
Internet Connection Type:	Dynamic IP v
IP Address:	192.168.0.100
Subnet Mask:	255.255.255.0
Default Gateway:	192.168.0.1
Primary DNS:	192.168.0.1
Secondary DNS:	0.0.0.0
	RENEW
	RELEASE
 Advanced Settings 	
DNS Address:	Get Dynamically from ISP
Primary DNS:	192.168.0.1
Secondary DNS:	0.0.0.0
MTU Size:	1500 bytes
Host Name:	ArcherBE9300
	Get IP using Unicast DHCP

- 1. Select the internet connection type and configure the settings according to the information provided by your ISP.
- 2. (Optional) Reveal the advanced settings and change the settings if needed. It's recommended to keep the default settings.
- 3. Click SAVE.

> To change the MAC address of the router:

MAC Clone	
Set the MAC address of your specific MAC address.	router. Use the default address unless your ISP allows internet access from only a
Router MAC Address:	Use Default MAC Address
	00 - A4

You have three options:

- Use Default MAC Address Do not change the default MAC address of your router in case the ISP does not bind the assigned IP address to the MAC address.
- Clone Current Device MAC Select to copy the current MAC address of the computer that is connected to the router, in case the ISP binds the assigned IP address to the MAC address.
- Use Custom MAC Address Select if your ISP requires you to register the MAC address and enter the correct MAC address in this field, in case the ISP binds the assigned IP address to the specific MAC address.

> To Set up NAT

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.

If you want to enable NAT, tick the checkbox, and click SAVE.

NAT		
NAT:	Enable NAT	

> To enable or disable DoT/DoH

Encrypting DNS queries by TLS/HTTPS, DoT/DoH can provide you with a more secure and private internet connection.

- 1. If you want to enable DoT or DoH, select the corresponding checkbox in DNS Privacy. If you want to disable DoT/DoH, select None.
- 2. Select a DNS Mode according to your need.
 - Default Mode The router will prioritize the secure DNS server you selected. If the server is unavailable, the default DNS server will take effect.
 - Ultra Secure Mode In this mode, the router only uses the secure DNS server you selected. If the server is unavailable, the internet connectivity will be affected.

3. Enter or click to select DNS Server(s).

DoT/DoH	
Encrypting DNS queries connection.	by TLS/HTTPS, DoT/DoH can provide you with a more secure and private internet
DNS Privacy:	DoT
	О DoH
	○ None
DNS Mode:	 Default Mode The router will prioritize the secure DNS server you selected. If the server is unavailable, the default DNS server will take effect. Ultra Secure Mode
DNS Server:	dns.umbrella.com
	(Optional)
	(Optional)
	DETECT DNS SERVER

- 4. You can click DETECT DNS SERVER to detect whether the selected DNS servers are available or not.
- 5. Click SAVE. Then DoH/DoT will be applied to these DNS servers, and the Primary & Secondary DNS servers you've set won't take effect.
- > To change the Internet Port Negotiation Speed Setting

Internet Port Negotiation Sp	eed Setting		
Internet Port Negotiation Speed	Auto Negotiation	~	
Setting:			

You can change the internet port speed mode. Auto Negotiation is recommended.

> To enable Flow Controller

With Flow Controller enabled, when a device gets overloaded it will send a PAUSE frame to notify the peer device to stop sending data for a specified period of time, thus avoiding the packet loss caused by congestion. Flow Controller is enabled by default.

Flow Controller	
	when a device gets overloaded it will send a PAUSE frame to notify the peer device to stop ed period of time, thus avoiding the packet loss caused by congestion.
Flow Control:	RX Enabled
	V TX Enabled

16.2. 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 View and configure LAN	settings.	
MAC Address:	00-FF-00-17-71-A3	
IP Address:	192.168.1.1	
Subnet Mask:	255.255.255.0	~

4. Click SAVE.

Note: If you have set the Port Forwarding, 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.

16.3. Flow Controller

With Flow Controller enabled, when a device gets overloaded it will send a PAUSE frame to notify the peer device to stop sending data for a specified period of time, thus avoiding the packet loss caused by congestion.

- 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, and locate the Flow Controller section.
- 3. Flow Controller is enabled by default. Please note that enable Flow Controller may cause internet drop with some devices.

Flow Controller	
With this option enabled, sending data for a specifi	when a device gets overloaded it will send a PAUSE frame to notify the peer device to stop ed period of time, thus avoiding the packet loss caused by congestion.
Flow Control:	RX Enabled
	TX Enabled

16.4. Configure to Support IPTV Service

I want to:

Configure IPTV setup to enable Internet/IPTV/Phone service provided by my internet service provider (ISP).

How can I do that?

- 1. Visit <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/VLAN.
- 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 and IGMP Snooping checkbox, then select the IGMP Version, either V2 or V3, as required by your ISP.

IGMP			
	gs. It is recommended to keep them a	s default.	
IGMP Proxy:	Enabled		
IGMP Snooping:	Enabled		
IGMP Version:	V2	~	

- 2) Click SAVE.
- 3) After configuring IGMP proxy, IPTV can work behind your router now. You can connect your set-top box to any of the router's Ethernet port.
- If IGMP is not the technology your ISP applies to provide IPTV service:
 - 1) Tick Enable IPTV/VLAN.
 - 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.

Configure IPTV/VLAN sett	ings if you want to enjoy IPTV or Vo	IP service, or if your ISP requires VLAN tags.
PTV/VLAN:	Enabled	
Mode:	Bridge	~
2.5 Gbps LAN 1:	Internet	~
LAN 2:	Internet	~
LAN 3:	IPTV	~
LAN 4:	IPTV	~

- 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.

Done!

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

16.5. 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.
- 2. Go to Advanced > Network > DHCP Server.
- > To specify the IP address that the router assigns:

DHCP Server		
Dynamically assign IP addresses	to the devices connected to the router.	
DHCP Server:	Enabled	
IP Address Pool:	- 192.168.1.253	
Address Lease Time:	120 minutes	
Default Gateway:	192.168.1.1	(Optional)
Primary DNS:		(Optional)
Secondary DNS:		(Optional)
	DETECT DHCP SERVER	0
	No redundant DHCP server found in the	current network.

- 1. Tick the Enable 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. You can click DETECT DHCP SERVER to check if there are multiple DHCP servers in your network. It is recommended to enable only one server.
- 5. Click SAVE.

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

1. Click Add in the Address Reservation section.

Add a Reservation Ent	ry	×
MAC Address:	B0 - 3	
	VIEW CONNECTED DEVICES	
IP Address:	192.168.1.74	
	CANCEL	SAVE

- Click VIEW CONNECTED DEVICES and select the you device you want to reserve an IP for. Then the MAC Address will be automatically filled in. Or enter the MAC address of the client device manually.
- 3. Enter the IP address to reserve for the client device.
- 4. Click SAVE.

Address Reservation Reserve IP addresses for specific devices connected to the router.				
				🕒 Ade
Device Name	MAC Address	Reserved IP Address	Status	Modify
18101958-BG	B0-19-21-AA-B2-58	192.168.1.74		0 D

> To view devices assigned with IP addresses by the DHCP server:

You can view the devices that are currently assigned with IP addresses by the DHCP server in DHCP Client List.

DHCP Client List			
View the devices that are cur	rently assigned with IP addresses	by the DHCP server.	
Total Clients: 1			C Refresh
Device Name	MAC Address	Assigned IP Address	Lease Time
18101958-BG	B0-19-21-AA-B2-58	192.168.1.74	1:57:22

16. 6. 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 Register Now.

Dynamic DNS	3			
Assign a fixed he router.	ost name (domain name	e) for remote access t	o your device, website, or se	erver behind the

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.

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

ne (domain name) for r	emote access to	o your device, website, or se	rver behind the
Service Provider: TP-	-Link	~	
t Domain Name:			
			🕂 Registe
Registered Date	Status	Operation	Delete
	Service Provider: TP- t Domain Name:	Service Provider: TP-Link t Domain Name:	t Domain Name:

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

Assign a fixed host name (domain name outer.	,	
Service Provider:	NO-IP V	Register Now
Username:		
Password:	Ø	
Domain Name:		
WAN IP binding:	Enable	
Status:	Not launching	
	LOGIN AND SAVE	
	LOGOUT	

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.

16.7. Create Static Routes

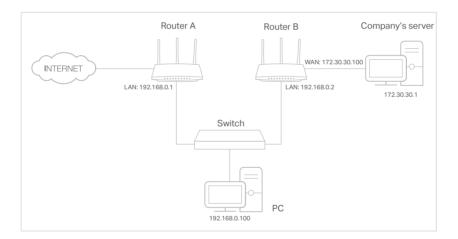
Static routing is a form of routing that is configured manually by a network administrator or a user by adding entries into a routing table. The manually-configured routing information guides the router in forwarding data packets to the specific destination.

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.

*Image may differ from your actual product.



How can I do that?

- 1. 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 > Routing.
- 4. Click Add and finish the settings according to the following explanations:

Add a Routing Entry			×
Network Destination:	172.30.30.1		
Subnet Mask:	255.255.255.255		
Default Gateway:	192.168.0.2		
Interface:	LAN/WLAN	~	
Description:	Company		
		CANCEL	SAVE

Network Destination: The destination IP address that you want to assign to a static route. This IP address cannot be on the same subnet with the WAN IP or LAN IP of 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/WLAN should be selected.

Description: Enter a description for this static routing entry.

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

Routing Table			
View all valid routing entries t	hat are currently in use.		
Active Route Number: 3			C Refresh
Network Destination	Subnet Mask	Gateway	Interface
172.30.30.1	255.255.255.255	192.168.0.2	LAN
192.168.0.0	255.255.255.0	0.0.0.0	LAN
0.0.0.0	0.0.0.0	0.0.0.0	WAN

Done!

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

Chapter 17

Manage the Router

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

- Update the Firmware
- Backup and Restore Configuration Settings
- Password Recovery
- <u>Security Questions</u>
- <u>Change the Login Password</u>
- Local Management
- <u>Remote Management</u>
- <u>System Log</u>
- Test the Network Connectivity
- Set System Time
- Set System Language
- <u>Set the Router to Reboot Regularly</u>
- <u>Control the LED</u>
- <u>Set ECO Mode to Save Power</u>
- <u>Other System Settings</u>

17.1. Update 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 new 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:

- Back up your router's configurations before firmware update.
- Do NOT turn off the router during the firmware update.

17.1.1. Auto Update

- 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 > Firmware Update.
- 3. Enable Auto Update.

Auto Update		
Auto update allows your performance and enhan	router to automatically update to the latest firm, ces system security.	ware which provides better netwo
Auto Update:		
Current Time:	2024-11-01 06:08:21 AM	Time Settings

4. Specify the Update Time and save the settings.

The router will update firmware automatically at the specified time when new version is available.

17.1.2. Online Update

- 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 of will display in the top-right corner of the page. Click the icon to go to the Firmware Update page.

Alternatively, you can go to Advanced > System > Firmware Update, and click CHECK FOR UPDATES to see whether the latest firmware is released.

Online Update	
Update firmware over the internet.	
Firmware Version:	1.2.1 Build 20210114 on 52871(8883)
Hardware Version:	Archer
	CHECK FOR UPDATES

3. Focus on the Online Update section, and click UPDATE if there is new firmware.

Online Update		
Update firmware over the internet.		
Firmware Version:	1.	
Hardware Version:	Archer	
Latest Firmware Version:	11104031000104.000	What's New
	UPDATE	

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

Tips: If there's a new and important firmware update for your router, you will see the prompt notification on your computer as long as a web browser is opened. Click to update, and log in to the web management page with the username and password you set for the router. You will see the Firmware Update page.

17.1.3. Local Update

- 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 > Firmware Update.
- 4. Focus on the Local Update section. Click UPLOAD to locate the downloaded new firmware file, and click UPDATE.

Local Update		
Jpdate firmware for this router from	a local file.	
New Firmware File:	1 UPLOAD	
	UPDATE	

5. Wait a few minutes for the update and reboot to complete.

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

17. 1. 4. EasyMesh Satellite Update

EasyMesh Satellite Update allows you to remotely check and update the firmware of the satellite devices connected to this router via EasyMesh.

- 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 > Firmware Update, and locate the EasyMesh Satellite Update section.
- 3. The router's satellite devices will appear on the table. Click CHECK FOR UPDATES to see whether the latest firmware is released. If you want to update a satellite device, click ^① on the right of the corresponding device.

_			-		
Туре	Device Name	Model	Firmware Version	Latest Firmware Version	Update
Щ	Archer C50	Archer C50	1.13.6 Build 240712 Rel.8942n(4555)		
-	COU	COU	Rei.094211(4555)		

Note: The update will take a few minutes and the satellite router will reboot.

17.2. 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 > Backup & Restore.

> To backup configuration settings:

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

Backup		
Save current router settings to a file.		
		_
	BACK UP	

> To restore configuration settings:

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

Restore	
Restore settings from a backup file	
File:	企 UPLOAD
	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. In the Factory Default Restore section, click 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.



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.

17.3. 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 Advanced > TP-Link ID.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > System > Administration and focus on the Admin Password Recovery section.
- 3. Tick the Enable box of Password Recovery.
- 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, Tick the Enable box of 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.
 - Generally, Authentication should be enabled if the login of the mailbox requires username and password.

Admin Password Recov	very
	word, you can reset it via the below methods.
	0
Security Questions:	🛞 Not Set
	Question Settings
Password Recovery:	Enabled ?
From:	
FIOIII.	
To:	
SMTP Server:	
Authentication:	Enabled
Username:	
Password:	
Password.	\$Ø

5. Click SAVE.

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.

17.4. Security Questions

You can enhance the account security by setting security questions that only the administrators know the answers to. The security questions can be used for verification when changing password.

- 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 > Administration and locate the Admin Password Recovery section.
- 3. Click Question Settings to set or change your security questions.

Admin Password Reco	very	
If you forget your admin pas	sword, you can reset it via the below methods.	
Security Questions:	🛞 Not Set	
	Question Settings	

4. Enter your admin password and click NEXT.

Security Question S	ettings		×
Please enter your admin	password.		
Admin Password:	••••••	B	
		CANCEL	NEXT

5. Select security questions from the dropdown list and enter the answers.

Security Question Se	ttings		×
Security Question 1:	In what city did you meet your v	·]	
Answer 1:	NYC		
Security Question 2:	- Please Select -		
Answer 2:	What was your childhood nickname? Who is your favorite singer? What was the name of your first stuffed toy?	ICEL SAVE	

6. Click SAVE. The security questions are set.

Admin Password Reco	very
lf you forget your admin pas	sword, you can reset it via the below methods.
Security Questions:	O Already Set
	Question Settings

17.5. 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 Advanced > TP-Link ID.

- 1. Visit <u>http://tplinkwifi.net</u>, and log in with the password you set for the router.
- 2. Go to Advanced > System > Administration and focus on the Change Password section.
- Local Password Vertification:
- 1. Select Local Password as Vertification Type.
- 2. Enter the old password, then a new password twice (both case-sensitive). Click SAVE.
- 3. Use the new password for future logins.

Change Password		
Change the router's local ma	anagement password.	
Verification Type:	Local Password	
Old Password:		Ø
New Password:		Ø
Confirm New Password:		Ø

- Security Questions Vertification:
- 1. Select Security Questions as Vertification Type.
- 2. Enter the answers of the security questions.
- 3. Enter a new password twice (case-sensitive). Click SAVE.
- 4. Use the new password for future logins.

Change Password		
Change the router's local management password.		
Verification Type:	Security Questions	
Security Question 1:	In what city did you meet your spouse/significant other?	
Answer 1:		
Security Question 2:	What was your childhood nickname?	
Answer 2:		
New Password:	\$	
Confirm New Password:	1/2 1/2	

17.6. 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 > Administration and complete the settings In Local Management section as needed.

> Access the router via HTTPS and HTTP:

Tick the Enable box of Local Management via HTTPS to access the router via HTTPS and HTTP, or keep it disabled to access the router only via HTTP.



> Allow all LAN connected devices to manage the router:

Select All Devices for Local Managers.

Local Management	
Access and manage the router fro	m local network devices.
Local Management via HTTPS:	Enabled
Local Managers:	All Devices V

> Allow specific devices to manage the router:

1. Select All Devices for Local Managers and click SAVE.

Local Management		
Access and manage the router from	m local network devices.	
Local Management via HTTPS:	C Enabled	
Local Managers:	Specified Devices	
		Add Device
Description	MAC Address	Modify
There is no entry!		

2. Click Add Device.

Add Device		×
Description:	(Optional)	
	VIEW CONNECTED DEVICES	
MAC Address:		
	CANCEL	SAVE

- 3. Click VIEW CONNECTED DEVICES and select the device to manage the router from the Connected Devices list, or enter the MAC address of the device manually.
- 4. Specify a Description for this entry.
- 5. Click SAVE.

17.7. 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 > Administration and complete the settings in Remote Management section as needed.
- > Forbid all devices to manage the router remotely:

Do not tick the Enable checkbox of Remote Management.

> Allow all devices to manage the router remotely:

Remote Management	
Access and manage the router over	r the internet.
	supported when you are connected to the internet only via IPv6. If you want to make sure you have set up an IPv4 connection first.
Remote Management:	C Enabled
HTTPS Port:	443
Web Address for Management:	https://192.168.0.100:443
Remote Managers:	All Devices V

- 1. Tick the Enable checkbox of Remote Management.
- 2. Keep the HTTPS port as default settings (recommended) or enter a value between 1024 and 65535.
- 3. Select All Devices for Specified Devices.
- 4. Click SAVE.

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

- Ø Tips:
- You can find the WAN IP address of the router on Network Map > 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 a specific device to manage the router remotely:

Remote Management		
Access and manage the router over the internet.		
	supported when you are connected to the inte make sure you have set up an IPv4 connectio	
Remote Management:	Enabled	
HTTPS Port:	443	
Web Address for Management:	https://192.168.0.100:443	
Remote Managers:	Specified Device V	

- 1. Tick the Enable checkbox of Remote Management.
- 2. Keep the HTTPS and HTTP port as default settings (recommended) or enter a value between 1024 and 65535.
- 3. Select Specified Device for Remote Managers.
- 4. In the Only this IP Address field, enter the IP address of the remote device to manage the router.

5. 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.

17.8. 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 > System Log.
- 3. Choose the type and level of the system logs as needed.

View a detailed record of system activities.		
Current Time:	2024-11-01 07:57:57	7 AM
All	~	
Search	Q	😋 Refresh 🛛 🌱 Clear A
	8 Local Management INFO [241 2 Led Controller INFO [22284] S	48] Insert device, MAC is B0-19-21-AA-B2-58.

4. In the Save Log section, click SAVE TO LOCAL to save the system logs to a local disk.

Save Log		
Send system log to a specific email add	iress or save locally.	
	MAIL LOG	

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

For example, I want to check my router's working status at a fixed time every day, however, it's too troublesome to 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 > System Log.
- 3. In the Save Log section, click MAIL LOG.
- 4. Enter the information required:

Mail Log			×
Note: Set your mail informatio	n below.		
Email From:			
	Require Password		
Username:			
Email Password:		Ø	
SMTP Server:			
Email To:			
	Mail Log Automatically		
Frequency:	Every Day	\sim	
Mail Time:	00 🗸 : 00	\checkmark	
		CANCEL	SAVE

1) Email From: Enter the email address used for sending the system log.

2) Select Require Password.

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

- 3) Username: Enter the email address used for sending the system log.
- 4) Email Password: Enter the password to login the sender's email address.
- 5) 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.

- 6) Email To: Enter the recipient's email address, which can be the same as or different from the sender's email address.
- 7) Select Mail Log Automatically.

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

8) Frequency: This determines how often the recipient will receive the system log.

17.9. 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 > Diagnostics.

Diagnostics		
Troubleshoot network connectiv	ity problems.	
Diagnostics Tools:	Ping	~
IP Address/Domain Name:		
Ping Count:	4	
ing odunt.	T	
Ping Packet Size:	64	Bytes
	ST	ART

- 3. Enter the information:
 - 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.
 - 3) Modify the Ping Count number and the Ping Packet Size. It's recommended to keep the default value.
 - 4) If you have chosen Traceroute, you can modify the Traceroute Max TTL. It's recommended to keep the default value.

4. Click START to begin the diagnostics.

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

^{5.} Click SAVE.

PING 192.168.0.1 (192.168.0.1): 64 data bytes
Reply from 192.168.0.1: bytes=64 ttl=64 seq=1 time=0.322 ms
Reply from 192.168.0.1: bytes=64 ttl=64 seq=2 time=0.308 ms
Reply from 192.168.0.1: bytes=64 ttl=64 seq=3 time=0.286 ms
Reply from 192.168.0.1: bytes=64 ttl=64 seq=4 time=0.334 ms
Ping Statistic "192.168.0.1"
Packets: Sent=4, Received=4, Lost=0 (0.00% loss)
Round-trip min/avg/max = 0.286/0.312/0.334 ms
ping is stopped.

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

```
traceroute to 192.168.0.1, 5 hops max, 38 byte packets
1 Archer (192.168.0.1) 0.045 ms 0.015 ms 0.008 ms
Trace Complete.
traceroute is stopped.
```

17. 10. Set 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.

> To get time from the internet:

- 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 > Time.
- 3. Enable 24-Hour Time if you want the time to display in a 24-hour way.
- 4. In the Set Time field, select Get from Internet.

System Time		
Set the router's system ti	me.	
Current Time:	2024-11-01 08:08:11 AM	
24-Hour Time:		
Set Time:	Get from Internet	
Time Zone:	(UTC-08:00) Pacific Time (US & Canada)	~
NTP Server I:	us.pool.ntp.org	
NTP Server II:	north-america.pool.ntp.org (Op	ptional)

- 5. Select your local Time Zone from the drop-down list.
- 6. In the NTP Server I field, enter the IP address or domain name of your desired NTP Server.
- 7. (Optional) In the NTP Server II field, enter the IP address or domain name of the second NTP Server.
- 8. Click SAVE.
- > To get time from your computer:
- 1. In the Set Time field, select Get from Managing Device.

System Time		
Set the router's system ti	me.	
Current Time:	2024-11-01 08:10:22 AM	
24-Hour Time:		
Set Time:	Get from Managing Device	
Time Zone:	(UTC-08:00) Pacific Time (US & Canada)	~

- 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.

System Time	
Set the router's system time.	
Current Time:	2024-11-01 08:12:44
24-Hour Time:	
Set Time:	Manually
Time Zone:	(UTC-08:00) Pacific Time (US & Canada)
Date:	2024/11/01
Time:	08 ~ : 09 ~ : 06 ~

- 2. Specify your Time Zone.
- 3. Set the current Date.
- 4. Set the current Time (In HH/MM/SS format).
- 5. Click SAVE.

> To set Daylight Saving Time:

1. Tick the Enable box of Daylight Saving Time.

Automatically synchronize the	system time with daylight	saving time.		
Daylight Saving Time:	Enabled			
Start: 2024	Mar	~	2nd	~
	Sun	~	02:00	~
End: 2024	Nov	~	First	~
	Sun	~	02:00	~

- 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.

17.11. Set System Language

System language is the language displayed when you log into the router. You can change the system language 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. Click English in the top-right corner of the page.
- 3. Select the language from the dropdown list, then click SAVE.

tp-link				A English Q Se	earch 🕹 TP-Link ID 💽 Log Ou
	Network Map	Internet	Wirekess	English Español Suomi	Advanced
VPN Merge VPN Server	>	ECO Mode Set ECO mode to save power		Français Magyarország Italiano 日本語	

17. 12. 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 > Reboot.
- 3. Tick the Enable box of Reboot Schedule.

Reboot Schedule		
Set when and how often the	router reboots automatically.	
Reboot Schedule:	Enabled	
Note: Before using this feat	ure, make sure System Time is set to "G	et from Internet
Reboot Time:	3 ~ : 00	~
Repeat:	Every Week	~

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

17.13. 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 > LED Control.
- 3. Enable Night Mode.
- 4. Specify the LED off time, and the LED will be off during this period every day.
- 5. Click SAVE.

LED Control	
Turn the router's LEDs o	n or off.
LED Status:	
Night Mode	
-	he LEDs will be off automatically.
Night Mode:	C Enabled
Note: Before using this f	eature, make sure System Time is set to "Get from Internet".
Current Time:	2024-11-01 08:23:06
LED Off From:	23 • : 00 •
To:	7 V: 00 V (next day)

17. 14. Set ECO Mode to Save Power

ECO Mode helps to decrease electricity usage by lowering the power output of the router. Smart ECO mode automatically adjusts power consumption based on your traffic usage, minimizing the impact on your regular Internet traffic. It will also turned off the LEDs. You can also manually select the ECO mode to reduce router's energy consumption by lowering power, controlling Wi-Fi and LED usage time.

- 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 > ECO Mode.
- 3. Toggle on to enable ECO Mode.

ECO Mode Set ECO mode to save	power		
ECO Mode:			
200 1110000.			

> Automatically adjust power consumption:

1. Locate the ECO Mode Settings section. Enable Smart ECO.

Smart ECO:	Enabled ?	
Note: You can also disa	le Smart ECO mode and customize your power-saving mode settings.	

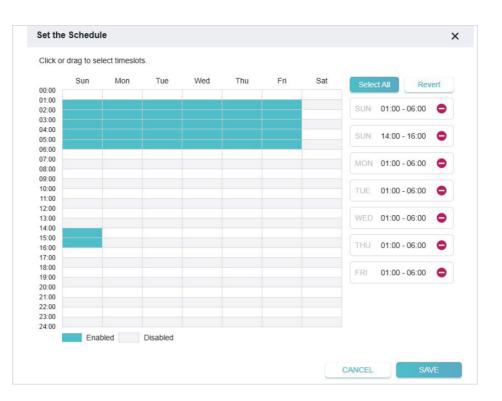
ECO Mode is intelligently activated. The intensity level of ECO mode will be automatically adjusted based on your traffic usage, ensuring maximum power savings while maintaining usability.

> Customize your power-saving mode settings manually:

1. Locate the ECO Mode Settings section. Disable Smart ECO.

Smart ECO:	Enabled ₍₂₎
Power-saving mode:	O Balance Mode
	C Efficient Mode
	Standby Mode
	Maximizes power saving by shutting off unused ports and limiting Wi-Fi to the 2.4 GHz band only. LED lights will also be turned off. Expect significant
	speed reduction—suitable for minimal internet use.
Note: Before using this fea	ture, make sure System Time is set to "Get from Internet".
Note: Before using this fea	
	ture, make sure System Time is set to "Get from Internet".
Current Time:	ture, make sure System Time is set to "Get from Internet". 2024-11-08 09:35:06 AM

- 2. Select a Power-saving mode according to your need.
 - Balance Mode Moderately adjusts Wi-Fi signal strength for stable connectivity. Ideal for daily use with minimal impact on performance.
 - Efficient Mode Saves more energy with a noticeable speed reduction. The 6 GHz band will be disabled. Suitable for basic browsing with some impact on high-demand tasks like HD streaming or gaming.
 - Standby Mode Maximizes power saving by shutting off unused ports and limiting Wi-Fi to the 2.4 GHz band only. LED lights will also be turned off. Expect significant speed reduction—suitable for minimal internet use.
- 3. Select the Effective Time of ECO mode.
- 4. If you select Only On During a Time Period, click SET REPEAT SCHEDULE, click or drag the grids in the table to select timeslots. Then click SAVE.



17.15. Other System Settings

> Authorize Third-Party Services:

Once enabled, we will share your clients' information to a third-party services to identify your clients better. We won't save your private information.

- 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 > Authorize Third-Party Services.
- 3. Toggle on to enable Client Identification.

Authorize Third-Part	
Once enabled, we will sha save your private informa	are your clients' information to a third-party services to identify your clients better. We won' tion.

> Join User Experience Improvement Program:

Joining User Experience Improvement Program means you agree to send anonymous usage data to help TP-Link improve their products. Without interrupting you, the program automatically collects information about how you use the product and its features anonymously without any information that can be used to identify you.

- 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 > About.
- 3. Toggle on to Join User Experience Improvement Program.

Usage Stats	
Join User Experience Improvement Program:	

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 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 blinks to restore factory default settings, and then visit <u>http://tplinkwifi.net</u> 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 <u>http://tplinkwifi.net</u> or <u>http://192.168.0.1</u> 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.

Internet l		2	Content	Connections	Drograma	Advanced
eneral 5	ecurity	Privacy	Content	Connections	Programs	Advanced
	To set up Setup.	an Inter	net connec	tion, click	Set	up
Dial-up ar	nd Virtua	Private N	Network se	ttings		
🎒 Br	roadbar	nd Conn	ection		Add	ł
					Add V	'PN
					Remo	ve
Choose server for			ed to config	jure a proxy	Sett	ings
Neve	er dial a d	connection	n			
O Dial	wheneve	r a netwo	ork connect	ion is not pres	ent	
Alwa	ys dial m	y default	connection	ı		
Currei	nt	None			Set de	efault
Local Are	a Netwo	rk (LAN) s	settings -			
			r to dial-up or dial-up se	connections. ttings.	LAN se	ttings

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

	nfiguration may override manual settings. To ensure the I settings, disable automatic configuration.
Automatic	ally detect settings
Use autor	natic configuration script
Address	
Proxy server	
	xy server for your LAN (These settings will not apply to VPN connections).
- dial-up or	
Address:	Port: 80 Advanced

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

eneral	Security	Privacy	Content	Connections	Programs	Advanced
Setting					-	
۲	Accessibili					*
			ALT text for	or images new windows a	and take	=
			-	cus/selection c		
				for new window	-	x
	Reset	text size	to medium	while zooming*	=	
		zoom leve	el for new	windows and ta	bs	
	Browsing			1.10		
				n page layout e story and Favo		ompa
				internet Explor		
	_	10 C C C C C C C C C C C C C C C C C C C	ebugging (10 M		
	Displa	y a notific	ation abou	t every script e	rror	
		y Accelera	ator button	on selection		
	Displa					
•			m			1
1		after you	restart Int	ernet Explorer		
1		after you	restart Int	· · ·	advanced s	ettings
*Tal				· · ·	advanced s	ettings
*Tal	kes effect a	plorer set	tings	· · ·		
*Tal Reset I Rese	kes effect a	plorer set	tings	Restore		
*Tal Reset I Rese cond	kes effect a internet Ex its Internet	plorer set t Explorer	tings 's settings	Restore	Rese	et
*Tal Reset I Rese cond	kes effect a internet Ex its Internet	plorer set t Explorer	tings 's settings	Restore	Rese	et
*Tal Reset I Rese cond	kes effect a internet Ex its Internet	plorer set t Explorer	tings 's settings	Restore	Rese	et

- 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> Network > Status to check internet status:

If IP Address is a valid one, please try the methods below and try again:

- 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 is a safe and public DNS server operated by Google.

DHCP Server			
Dynamically assgin IP addresses to the	devices connected to	the router.	
DHCP Server.	Enable		
IP Address Pool:	192.168.0.100	- 192.168.0	0.249
Address Lease Time:	120	minutes	
Default Gateway:	192.168.0.1		(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:

Status	
Internet status overview is displayed on	this page.
Internet	
Status:	WAN port is unplugged
Internet Connection Type:	Dynamic IP
IP Address:	0.0.0.0
Subnet Mask:	0.0.0.0
Default Gateway:	0.0.0.0
Primary DNS:	0.0.0.0
Secondary DNS:	0.0.0.0

- 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 Internet or 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			
	Router MAC Address:	Use Default MAC Address	~
		Use Default MAC Address	
		Clone Current Device MAC Use Custom MAC Address	

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			
View and configure LAN settings.			
MAC Address:	98-DA-C4-B4-01-D8		
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.

Internet		
Set up an internet connection with the se	ervice information provided by your ISF	' (internet service provider).
Internet Connection Type:	Dynamic IP	
IP Address:	Static IP	
Subnet Mask:	Dynamic IP	
Default Gateway:	PPPoE	
Primary DNS:	L2TP PPTP	
Secondary DNS:	0.0.0.0	
	RENEW	l i i i i i i i i i i i i i i i i i i i
	RELEASE	

- 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
 - 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 Wireless or Advanced > Wireless > Wireless Settings, and check the wireless settings. Double check your wireless Network Name and SSID is not hided.

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.

FCC compliance information statement



Product Name: BE9300 Tri-Band Wi-Fi 7 Router

Model Number: Archer BE550

Component Name	Model
I.T.E. Power Supply	NBS30D120250VU

Responsible party:

TP-Link Systems Inc.

Address: 10 Mauchly, Irvine, CA 92618 Website: http://www.tp-link.com/us/ Tel: +1 626 333 0234

Fax: +1 909 527 6804

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 43 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC regulations restrict operation of this device to indoor use only. The operation of this device is prohibited on oil platforms, cars, trans, boats, and aircraft, except that operation of this device is permitted in large aircraft while flying above 10000 feet. Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.

FCC compliance information statement

Product Name: I.T.E. Power Supply Model Number: NBS30D120250VU Responsible party: TP-Link Systems Inc. Address: 10 Mauchly, Irvine, CA 92618 Website: http://www.tp-link.com/us/ Tel: +1 626 333 0234 Fax: +1 909 527 6804 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 Systems Inc.**, 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: 2025-04-21

CE Mark Warning

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

OPERATING FREQUENCY(the maximum transmitted power)

2400 MHz -2483.5 MHz (20dBm)

5150 MHz -5250 MHz (23dBm)

5250 MHz -5350 MHz (23dBm)

5470 MHz -5725 MHz (30dBm)

5945MHz -6425 MHz (23dBm)

EU Declaration of Conformity

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

The original EU Declaration of Conformity may be found at https://www.tp-link.com/en/support/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.

National Restrictions

Frequency band: 5150 - 5250 MHz:

Indoor use: Inside buildings only. Installations and use inside road vehicles and train carriages are not permitted. Limited outdoor use: If used outdoors, equipment shall not be attached to a fixed installation or to the external body of road vehicles, a fixed infrastructure or a fixed outdoor antenna. Use by unmanned aircraft systems (UAS) is limited to within the 5170 - 5250 MHz band.

Frequency band: 5250 - 5350 MHz:

Indoor use: Inside buildings only. Installations and use in road vehicles, trains and aircraft are not permitted. Outdoor use is not permitted.

Frequency band: 5470 - 5725 MHz:

Installations and use in road vehicles, trains and aircraft and use for unmanned aircraft systems (UAS) are not permitted.

Frequency band 5945 -6425MHz:

Restricted to indoor use, including in trains with metal-coated windows and aircraft. Outdoor use, including in road vehicles, is not permitted.

Attention: This device may only be used indoors in all EU member states, EFTA countries and Northern Ireland.

	AT	BE	BG	СН	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(NI)

UKCA Mark UK CA

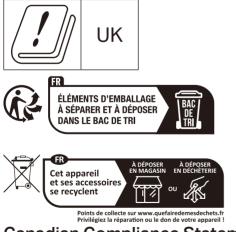
UK Declaration of Conformity

TP-Link hereby declares that the device is in compliance with the essential requirements and other relevant provisions of the Radio Equipment Regulations 2017.

The original UK Declaration of Conformity may be found at https://www.tp-link.com/support/ukca

National Restrictions

Attention: This device may only be used indoors in Great Britain.



Canadian Compliance Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference.

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

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

1) L'appareil ne doit pas produire de brouillage;

2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Caution:

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;

DFS (Dynamic Frequency Selection) products that operate in the bands 5250- 5350 MHz, 5470-5600MHz, and 5650-5725MHz.

Avertissement:

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;

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

- Devices shall not be used for control of or communications with unmanned aircraft systems.
- Operation shall be limited to indoor use only.
- Operation on oil platforms, automobiles, trains, maritime vessels and aircraft shall be prohibited except for on large aircraft flying above 3,048 m (10,000 ft).
- Les appareils ne doivent pas être utilisés pour le contrôle ou la communication avec des systèmes d'aéronefs sans pilote.
- Le fonctionnement doit être limité à une utilisation en intérieur uniquement.
- L'opération sur les plates-formes pétrolières, les automobiles, les trains, les navires maritimes et les avions est interdite, sauf sur les gros avions volant au-dessus de 3 048 m (10 000 ft).

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 24cm 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 24 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!

取得審驗證明之低功率射頻器材,非經核准,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及功能。

低功率射頻器材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。

前述合法通信,指依電信管理法規定作業之無線電通信。

低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。 應避免影響附近雷達系統之操作。

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。
- 不要私自拆開機殼或自行維修,如產品有故障請與原廠或代理商聯繫。

限用物質含有情況標示聲明書

設備名稱:BE9300 Tri-Band Wi-Fi 7 Router	型號(型式):Archer BE550
Equipment name	Type designation (Type)

	限用物質及其化學符號 Restricted substances and its chemical symbols					
單元 Unit	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr ⁺⁶)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
PCB	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
外殼	\bigcirc	\bigcirc	\bigcirc	0	0	0
電源供應器	_	\bigcirc	\bigcirc	0	0	0
其他及其 配件	\bigcirc	0	\bigcirc	0	0	0
備考1. [*] 超出0.1 wt % [*] 及 [*] 超出0.01 wt % [*] 係指限用物質之百分比含量超出百分比含量基準值。						
Note 1: "Exceeding 0.1 wt %" and "exceeding 0.01 wt %" indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.						
備考2. *〇* 係指該項限用物質之百分比含量未超出百分比含量基準值。						
Note 2: "○" indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence. 備考3. [°] - [′] 係指該項限用物質為排除項目。						
Note 3: The " $-$ " indicates that the restricted substance corresponds to the exemption.						



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. If you need service, please contact us.
- Do not use damaged charger or USB cable to charge the device.
- Do not use any other chargers than those recommended.
- Do not use the device where wireless devices are not allowed.
- Adapter shall be installed near the equipment and shall be easily accessible.
- Use only power supplies which are provided by manufacturer and in the original packing of this product. If you have any questions, please don't hesitate to contact us.
- Operating Temperature: $0^{\circ}C \sim 40^{\circ}C$ ($32^{\circ}F \sim 104^{\circ}F$)
- This product uses radios and other components that emit electromagnetic fields. Electromagnetic fields and magnets may interfere with pacemakers and other implanted medical devices. Always keep the product and its power adapter more than

15 cm (6 inches) away from any pacemakers or other implanted medical devices. If you suspect your product is interfering with your pacemaker or any other implanted medical device, turn off your product and consult your physician for information specific to your medical device.

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

Explanations of the symbols on the product label

Note: The product label can be found at the bottom of the product and its I.T.E. power supply. Symbols may vary from products.

Symbol	Explanation
	Class II equipment
	Class II equipment with functional earthing
\sim	Alternating current
	Direct current
\$ 	Polarity of d.c. power connector
	For indoor use only
4	Dangerous voltage
	Caution, risk of electric shock
VI	Energy efficiency Marking
	Protective earth
Ţ	Earth
\downarrow	Frame or chassis
¢.	Functional earthing
	Caution, hot surface
	Caution

Symbol	Explanation
	Operator's manual
(\mathbf{b})	Stand-by
\bigcirc	"ON"/"OFF" (push-push)
	Fuse
-⊟ ^N	Fuse is used in neutral N
	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.
Gli	Caution, avoid listening at high volume levels for long periods
	Disconnection, all power plugs
m	Switch of mini-gap construction
μ	Switch of micro-gap construction (for US version) Switch of micro-gap / micro-disconnection construction (for other versions except US)
3	Switch without contact gap (Semiconductor switching device)