TP-LINK[®]

Archer C2600 User Guide AC2600 Wireless Dual Band Gigabit Router

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Get to Know About Your Router

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

This chapter contains the following sections:

- Product Overview
- Main Features
- Panel Layout

1.1 Product Overview

What This Product Does

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

802.11ac - The Next Generation of Wi-Fi

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

2533Mbps Concurrent Dual Band - More Bandwidth, Less Interference

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

Broad Wi-Fi Coverage and Targeted Connection

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

Multifunctional USB Port - Easy Storage and Sharing

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

Guest Network

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

IPv6 Supported

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

Parental Control

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

Tether APP

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

1.2 Main Features

Wireless and Wired Performance

- Supports 802.11ac Muti-User MIMO
- Supports 802.11ac The next generation of Wi-Fi, compatible with 802.11n
- Simultaneous 2.4GHz 800Mbps and 5GHz 1733Mbps connections for 2533Mbps of total available bandwidth
- 4 dual band fixed external antennas and high power amplifiers provide stable signals and optimal wireless coverage
- Beamforming technology delivers highly efficient wireless connection
- Provides WPA/WPA2, WPA-PSK/WPA2-PSK authentication, TKIP/AES encryption security
- Shares data and Internet access for users, supporting Dynamic IP/Static IP/PPPoE/PPTP/L2TP Internet access
- Supports USB Storage Sharing, Print Server, FTP Server, Media Server. Shares a printer locally and files & media with networked devices or remotely via FTP server
- Built-in NAT and DHCP server supporting static IP address distributing
- Guest Network access provides secure Wi-Fi access for guests sharing your home or office network
- Parental Controls allow parents or administrators to establish restricted access policies for children or staff
- Quality of Service (QoS) makes it easier for you to manage the bandwidth of devices connected to the router
- Supports IP/MAC filter and URL filter, Access Control list
- SPI and NAT firewall protects end-user devices from potential attacks from the Internet
- Easy one-touch WPA wireless security encryption with the WPS button
- Wi-Fi On/Off Button allows users to turn their wireless radio on or off
- Supports firmware upgrade and Web management
- Supports Virtual Server, DMZ host and Port Triggering
- Supports Dynamic DNS, UPnP and Static Routing
- Provides Automatic-connection and Scheduled Connection on certain time to the Internet
- Supports system log and Traffic Statistics
- Supports IPv6

1.3 Panel Layout

1.3.1. Top View



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

LED Explanation:

Name	Status	Indication
	On	System initialization completes.
ப் (Power)	Flash	System initialization or firmware upgrade is in process. Do not disconnect or power off the router.
	Off	Power is off. Please ensure that the power adapter is connected correctly.
	White	The router is connected to the Internet.
2 (Internet)	Orange	The WAN port is connected, but there is no Internet connection.
	Off	The WAN port is not connected.
	On	The wireless 2.4GHz band is working properly.
(Wireless)	Off	The wireless 2.4 GHz band is disabled.
	On	The wireless 5GHz band is working properly.
කි (Wireless)	Off	The wireless 5GHz band is disabled.
	On	At least one LAN port is connected.
다 (LAN)	Off	No LAN port is connected.
	On	A wireless device has been successfully added to the network by WPS function.
(WPS)	Flash	WPS handshaking is in process and will continue for about 2 minutes. Please press the WPS button on other wireless devices that you want to add to the network while the LED is flashing.
	Off	The router is not in the WPS process.
	On	The USB device is identified and ready to use.
• 1	Flash	The USB device is being identified.
ų́́́́µ (USB)	Off	No USB device is plugged into the USB port or the USB device is not identified or USB device has been safely ejected.

Note:

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

1.3.2. The Back Panel



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

ltem	Description
LAN1, LAN2, LAN3, LAN4	These ports (1, 2, 3, 4) connect the router to the local PC(s).
Internet	This port is where you will connect the DSL/cable Modem, or Ethernet.
Power	For connecting the router to power socket via the provided power adapter.

ltem	Description
Power On/Off	The switch for the power. Press it to power on or off the router.
Antennas	Used for wireless operation and data transmit. Upright them for the best Wi-Fi performance.

1.3.3. The Side Panel



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

ltem	Description
USB 3.0	For connecting to a 3.0 USB storage device or a 3.0 USB printer. It is also compatible with USB 2.0 devices.
WiFi On/Off	For turning on/off the WiFi function.
WPS	The switch for the WPS function. Pressing this button for less than 5 seconds enables the WPS function. If your client devices, such as wireless adapters, that support Wi-Fi Protected Setup, then you can press this button to quickly establish a connection between the router and client devices and automatically configure wireless security for your wireless network.
Reset	 The switch for the reset function. There are two ways to reset the router's factory defaults. Method one: With the router powered on, press and hold the Reset button for at least 10 seconds until all LEDs light on (wireless LEDs may not light on if the WiFi on/off button is off). And then release the button and wait the router to reboot to its factory default settings. Method two: Restore the default setting from <i>Backup and Restore Configuration Settings</i> of the router's Webbased Management.

Connect the Hardware

This chapter contains the following sections:

- Position Your Router
- Connect Your Router

- The Product should not be located where it will be exposed to moisture or excessive heat.
- Place the router in a location where it can be connected to the various devices as well as to a power source.
- Make sure the cables and power cord are safely placed out of the way so they do not create a tripping hazard.
- The router can be placed on a shelf or desktop.
- Keep away from the strong electromagnetic radiation and the device of electromagnetic sensitive.

2.2 Connect Your Router

Follow the steps below to connect your router.

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



- 1) Install the antennas and position them vertically for best signal reception.
- 2) Turn off the modem, and remove the backup battery if it has one.
- 3) Connect the modem to the Internet port on your router with an Ethernet cable.

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

ሆ	5	2	2,
Power	2.4G	5G	Internet
On	On	On	On

Note:

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

Ø Tips:

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



2. Connect your computer to the router.

• Method 1: Wired

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



• Method 2: Wirelessly

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

Model: Archer C2600 Power: 12V 4.0A Default Access:		Model Archer C2500 Ver1.0 SIN:00000000000
http://tplinkwifi.net Username: admin		MACOCKER CONSIGNATION
	1ReHS 5734	Wireless Password/PIN:200000000
CE15880		SSID:TP-LINK_XXXX SSID:TP-LINK_XXXX_5G

• Method 3: Use the WPS button

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

Note:

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

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

close



Log into Your Router

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

Follow the steps below to log into your router.

- 1. Set up the TCP/IP Protocol in Obtain an IP address automatically mode on your computer.
- 2. Visit *http://tplinkwifi.net*, and log in with the username and password you set for the router.

$\leftrightarrow \Rightarrow \mathbf{C} \mathbf{n}$ http://tplinkwifi.net			≡
TP-LINK Anter Case		English	•
(A) (P)	Username Password Forget password? Login		

Note:

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

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 many ISP information built in, automates many of the steps and verifies that those steps have been successfully completed. Furthermore, you can also set up an IPv6 connection if your ISP provided IPv6 service.

This chapter contains the following sections:

- Quick Setup
- Manually configure your Internet Connection Settings
- Setting Up an IPv6 Internet Connection

4.1 Quick Setup

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

🦉 Tips:

If you need the IPv6 Internet connection, please refer to the section of Setting Up an IPv6 Internet Connection.

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

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

	Internet Connection Type		Wireless Settings		Test Your Connection
•	•	•	•		•
Region and Time Zor	10			Summary	
Region:	United State	s		•	
Time Zone	(GMT-08:00)) Pacific Time		•	
			1	Exit	Next

Note:

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

4. Click Auto Detect and the router will detect your connection type automatically.

Note:

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

Internet Connection Typ	e	Wireless Settings		Test Your Connection
• •				
Region and Time Zone			Summary	
Auto Detect			6%	
O Dynamic IP				
O Static IP				
O PPPoE				
O L2TP				
O PPTP				
			Back	Next

5. In this case, the router automatically detects Dynamic IP as the connection type. Click Next.

Internet Connection Type	Wireless Settings		Test Your Connection
• • •	 •		
Region and Time Zone		Summary	
Auto Detect Dynamic IP			
Dynamic IP			
O Static IP			
O PPPoE			
O L2TP			
O PPTP			
		Back	Next

6. Follow the instructions on the page to decide whether to clone MAC Address. Click Next.

Internet Connection Type	Wireless Settings		Test Your Connection
• • •	•	-0	
Region and Time Zone		Summary	
If your ISP only allows Internet access to a specific N provide access to other devices. If you are not sure,			Address to
Do NOT Clone MAC Address			
○ Clone Current Computer MAC Address			
Note: If you select Clone MAC Address. Please make with your ISP before clicking Next.	e sure the MAC Address of	this computer is	registered
	ļ	Back	Next

7. Configure your wireless settings and click Next.

Internet Connection T	ype Wirele:	ss Settings		Test You	r Connection
Region and Time Zone	•	•	Summary)
Wireless 2.4GHz:	🗹 Enable Wireless Radio				
Wireless Network Name (SSID):	TP-LINK_8815	Hide SSID			
Password:	42532781				
Wireless 5GHz:	☑ Enable Wireless Radio				
Wireless Network Name (SSID):	TP-LINK_8814_5G	Hide SSID			
Password:	42532781				
			Back	Next	

Note:

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

8. Confirm the information and click Save.

Internet Connection T	ype Wireless Settings		Test Your Connection
Region and Time Zone	• •	Summary	
Region:	United States		
Time Zone:	(GMT-07:00) Mountain Time (US Canada)		
Internet Connection Type:	Dynamic IP		
Wireless 2.4GHz:	On		
Wireless Network Name (SSID):	TP-LINK_8815		
Password:	12345678		
Wireless 5GHz:	On		
Wireless Network Name (SSID):	TP-LINK_8814_5G		
Password:	12345678		
		Back	Save

9. Click Test Internet Connection. If you successfully connect to the Internet, the screen will display as follows.

Internet Connec	tion Type	Wireless Setting	js	Test Your Connection
Region and Time Zone		• •	Summa	ry 💿
Congratulatic	~		0	
You have completed th Click Test Internet Con	6	UCCESS! ck Finish to end the Quick Setu	up process.	
> Test Internet Connec			ок	
				Finish

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

Ø tips:

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

4.2 Manually configure your Internet Connection Settings

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

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

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

Chapter 4. Set Up Internet Connection

Internet			?
Auto Detect			
Internet Connection Type:	Dynamic IP	Ŧ	

Note:

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

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

Internet			?
Auto Detect			
Internet Connection Type:	Dynamic IP		
Do NOT Clone MAC Addres	S		
O Clone Current Computer M	AC Address		
		Type you have, use Auto Detect or co	ontact your
Internet Service Provider (ISP)	or assistance.		
			Save

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

Internet			?
Auto Detect			
Internet Connection Type:	Static IP 🔹		
IP Address:	192.168.203.218		
Subnet Mask:	255.255.255.0		
Default Gateway:	192.168.203.219		
Primary DNS:	192.168.203.254		
Secondary DNS:	192.168.202.254	(Optional)	
Note: If you are not sure which In Internet Service Provider (ISP) for		have, use Auto Detect or contact your Save	

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

Internet		
Auto Detect		
Internet Connection Type:	PPPoE 🔻	
Username:	075504673554@163.gd	
Password:	•••••	
Note: If you are not sure which Internet Service Provider (ISP)	Internet Connection Type you have, use Auto Detect or c for assistance.	ontact your

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.

Internet		?
Auto Detect		
Internet Connection Type:	L2TP 💌	
Username:	l2tp	
Password:		
Secondary Connection:	Dynamic IP O Static IP	
VPN Server IP/Domain Name:	192.168.202.254	
Note: If you are not sure which Internet Service Provider (ISP) f	n Internet Connection Type you have, use Auto Detect or contact your for assistance.	
		_
	Save	

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

Internet		(
Auto Detect		
Internet Connection Type:	рртр	
Username:	pptp	
Password:		
Secondary Connection:	Dynamic IP O Static IP	
VPN Server IP/Domain Name:	192.168.202.254	
Note: If you are not sure which Internet Service Provider (ISP)	Internet Connection Type you have, or assistance.	use Auto Detect or contact your
		Save

5. Click Save to make the settings take effect. To check your Internet connection, click Network Map on the left of the page. Note:

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

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

(Internet	Router	2.4GHz 5GHz
Wired Clients	Wireless Clients	Printer	USB Disk
Internet	Connected		
Connection Type:	PPPoE		
IP Address:	14.154.225.98		

Ø Tips:

- 1. If your Internet connection type is Bigpond Cable, please go to *Advanced > Network > Internet*.
- 2. If you use Dynamic IP and PPPoE and you are provided any other parameters that are not required on the page, please go to Advanced > Network > Internet to complete the configuration.
- 3. If you still cannot connect to the Internet, refer to FAQ for further instructions.

4.3 Setting Up an IPv6 Internet Connection

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

- 1. Visit *http://tplinkwifi.net*, then log in with the password you set for the router.
- 2. Go to *Advanced* > *IPv6* to log into the configuration page.

Internet				
IPv6:	On			
Internet Connection Type:	•			
LAN				
Assigned Type:	○ DHCPv6	O SLAAC+	- RDNSS	
Address Prefix:			/64	
Address:	FE80::20A:EBFF:FEAC:8815/64			

3. Select the Internet connection type provided by ISP.

Pv6:	On				
Internet Connection Type:		•			
	Static IP				
LAN	Dynamic IP (SLAAC/DHCPv6)				
Assigned Type:	PPPoE 6to4 Tunnel	онср	O SLAAC	+ RDNSS	
Address Prefix:	Pass-Through (Bridge)			/64	
Address:	FE80::20A:EBFF:FE0C:2642/64	_			

Ø Tips:

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

- 4. Fill in information as required by different connection type. (Red blanks must be filled.)
 - 1) Static IP: Fill in blanks and click Save.

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

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

Internet				?
IPv6:	On			
Internet Connection Type:	Dynamic IP (SLAAC/DHCPv6)	•		
IPv6 Address:	ii			
Primary DNS:				
Secondary DNS:				
Renew				
O Advanced				
			Save	

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

Internet				?
IPv6:	On			
Internet Connection Type:	PPPoE	•		
Username:				
Password:				
IPv6 Address:				
O Advanced				
Connect Disconnect				
			Save	

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

Internet			0
IPv6:	On		
Internet Connection Type:	6to4 Tunnel	•	
IPv4 Address:	0.0.0.0		
IPv4 Subnet Mask:	0.0.0		
IPv4 Default Gateway:	0.0.0.0		
Tunnel Address:			
O Advanced			
Connect Disconnect			
			Save

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

Internet				?
IPv6:	On			
Internet Connection Type:	Pass-Through (Bridge)	•		
			Sa	ave

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

Ø Tips:

Find Help on the management interface to know more about items.

LAN		
Assigned Type:	O DHCPv6	O SLAAC+ RDNSS
Address Prefix:		/64
Address:	FE80::20A:EBFF:FEAC:881B/64	
		Save

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

IP Address: 64	
IP Address: 64 Default Gateway: fe80::edd0:3 7 7 Primary DNS: 2001:c68:20	C-25-01
Default Gateway: 7 Primary DNS: 2001:c68:20	02:2111::120/
	80d2:7f5e:6be
Secondary DNS: 2001:c68:20)2:2111::1
)2:2111::2
Connection Type: PPPoE	

Ø Tips:

Visit FAQ if there is no Internet connection.

Guest Network

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

This chapter contains the following sections:

- Create Guest Network
- Customize Guest Network Options

5.1 Create Guest Network

- 1. Visit *http://tplinkwifi.net*, and log in with the username and password you set for the router.
- 2. Go to Advanced > Guest Network.
- 3. Create a 2.4GHz or 5GHz guest network according to your needs.

Wireless		2.4GHz 5GHz
Wireless 2.4GHz:	Enable Guest Network	
Wireless Network Name (SSID):	TP-LINK_Guest_2642	de SSID
Security:	O No Security	onal
Version:	● Auto ○ WPA-PSK ○ WPA2-	PSK
Encryption:	Auto O TKIP O AES	
Password:		
		Save

- 1) Enable Wireless Network 2.4GHz or Wireless Network 5GHz.
- 2) Set an easy-to-identify SSID. Don't select Hide SSID unless you want your guests and other people to manually input this SSID for Wi-Fi access.
- 3) Set Security to WPA/WPA2 Personal, keep the default Version and Encryption values, and set an easy-to-remember password.
- 4. Click Save. Now your guests can access your guest network using the SSID and password you set!

Ø Tips:

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

5.2 Customize Guest Network Options

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

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

Allow guests to see each other

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

Allow guests to access my local network

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

4. Click Save. Now users in your guest network can enjoy only the network authorities you assigned!

🥙 Tips:

To view guest network information, go to *Advanced* > *Status* and find the Guest Network section.

USB Application

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

This chapter contains the following sections:

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

6.1 Local Storage Sharing

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

6.1.1. Access the USB disk

1. Connect Your USB Disk

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

Ø Tips:

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

2. Access Your USB Disk

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

Windows computer	 Press Windows (+)+ R on the keyboard (or select Start > Run). Type the server address \tplinkwifi.net or ftp://tplinkwifi.net in the dialog box. Click OK.
Mac	 Select Go > Connect to Server. Type the server address smb://tplinkwifi.net or ftp://tplinkwifi.net. Click Connect.
pad	Use a third-party app for network files management.

Ø Tips:

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

6.1.2. Customize Your Settings

To Only Share Specific Content

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

- 1. Visit *http://tplinkwifi.net*, then log in with the username and password you set for the router.
- 2. Go to *Basic* or *Advanced* > *USB Settings* > *Sharing Access*. Focus on the Folder Sharing section. Click the button to disable Share All, then click Add to add a new sharing folder.

hare	All:				On to share all fil the specified folde		l folders or		
								🔂 Add	Delete
	ID	Folder Name	Folder F	ath	Media Sharing	Volur	me Name	Active	Modify
	~							22.9	
	Volum	ne Name:		3:		-			
Folder Path:			G:/Lessons/Bonus_Lesson_ Browse				1		
	Folder	Name:		lessons					
			V	Allow	Guest Network A	ccess			
				Enab	le Authentication				
				Enab	le Write Access				
				Enab	le Media Sharing				
						Car		ОК	

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

5. Click OK.

🖉 Tips:

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

To Set up Authentication for Data Security

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

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

	4 7 9 8 80 A			
Prepare an account for s	sharing contents. You can use	the login account or creat	e a new one.	
Account:	Use Default Account	O Use New Account		
Usemame:	admin			
Password:				
	Low Middle H	igh		
Confirm Password:				

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

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

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

To Customize the Address of the USB Disk

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

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

etwork/Media S	Server Name: M	ly-Share	
Enable	Access Method	Link	Port
	Network Neighborhood	\\My-Share	
	FTP	ftp://192.168.0.74:21	21
	FTP (Via Internet)	ftp://0.0.0.0:21 Edit	21

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

6.2 Remote Access via FTP Server

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

For example:

Chapter 6. USB Application

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

Note:

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

6.2.1. Access the USB disk

1. Connect Your USB Disk

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

Ø Tips:

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

2. Enable Authentication for Data Security

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

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

Prepare an account for s	sharing contents. You can use the login account or create a new one.	2
Account:	Use Default Account O Use New Account	
Username:	admin	
Password:		
	Low Middle High	
Confirm Password:		

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

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

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

3. Enable the FTP (via Internet)

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

Enable Access Method Link Port Image: Description of the symptotic descriptic description of the symptotic description of the symptotic	etwork/Media S	Server Name:	C2600-Share	
	Enable	Access Method	Link	Port
FTP ftp://192.168.0.74:21 21		Network Neighborhood	\\C2600-Share	202
		FTP	ftp://192.168.0.74:21	21
☑ FTP (Via Internet) ftp://0.0.0.0:21 Edit 21		FTP (Via Internet)	ftp://0.0.0.0:21 Edit	21

4. Access Your USB Disk via Internet

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

computer	 To download, open a web browser and type the server address ftp://<wan address="" ip="" of="" router="" the="">:<port number=""> (such as ftp://59.40.2.243:21), or if you set up a domain name for your router you can type the server address ftp://<domain name="" of="" router="" the="">:<port number=""> (such as ftp:// MyDomainName:21) in the address bar, then press Enter on the keyboard. </port></domain></port></wan> To upload, use a third-party app for network files management.
pad	Use a third-party app for network files management.

Ø Tips:

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

6.2.2. Customize Your Settings

To Only Share Specific Content

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

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

Share All:			On to share all fil the specified folde		keep it Off	to only
	Folder Name	Folder Path	Media Sharing	Volume Name	Active	Modify
	- <u></u>			1 <u>11</u> 1		
	er Path : er Name:	☑ Enab	y Guest Network A le Authentication le Write Access le Media Sharing	Browse		

5. Click OK.

Ø Tips:

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

6.3 Media Sharing

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

6.3.1. Access the USB disk

1. Connect Your USB Disk

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

Ø Tips:

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

2. Play the Media on Your USB Disk

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



6.3.2. Customize Your Settings

To Only Share Specific Content

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

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

□ ID 	Folder Name	Folder Path				Delete
			Media Sharing	Volume Name	Active	Modify
	1.00			(TT)		
Folde	r Name:	Enab	v Guest Network A vle Authentication vle Write Access vle Media Sharing	kccess		

🖉 Tips:

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

6.4 Printer Sharing

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

1. Install the Driver of the Printer

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

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

2. Connect the Printer

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

Note:

Printers unlisted may be incompatible with the router. You can check Printer Compatibility List to verify whether your printer is supported by the router: *http://www.tp-link.com/compatible/print-server/*.

3. Install the TP-LINK USB Printer Controller Utility

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

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



4. Access the Printer

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

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

2

Exit	L.				
Configure	Auto-Connect	Connect for	T Disconnect	Request to Connect	
Server	for Printing	Scanning	Disconnect	Connect	

Windows



Mac

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

B	2.	2	•%_	50 C	
Configure	Auto Auto-Connect	Connect for	Disconnect for	Request to	
Server	Set Auto-Con		Canning	Connect	
	Delete Auto-C				

Windows

	TP-Link USB Printer Controller	
▼ < 10 mmm	THE EX	
MFP - C	+ Set Auto-Connect Printer	-
	- Delete Auto-Connect Printer	
	Close	

Mac

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

✓ Add to Auto-Connect Printer List	
< Installed Printer List >	
Printer Name Printer Name Fax Series Printer recommended	
	Apply Cancel

Windows

000	TP-Link USB Printer Controller
N 📩 🔁 🐾	-
MFP -	Add to Auto-Connect Printer List
	Installed Printer List
	10.10.10.180
	Stylus Photo 720-f97c12 1000 J110 series 1000 J110 series-1
	Apply Cancel

Mac

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

R	Auto	2	×.	32	
onfigure Server	Auto-Connect for Printing	Connect for Scanning	Disconnect	Request to Connect	

Windows

000	TP-Link USB Printer Controller
N 🏫 🔽 🛣 🐘	
V 🗢 10-INREED-1921168.1.1	
🍓 MFP - 🛛 series	[Auto-Connected Printer]

Mac

Ø Tips:

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

Parental Controls

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

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

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

How can I 1. Visit *http://tplinkwifi.net*, and log in with the username and password you set for the router.

```
do that?
```

2. Go to *Basic* or *Advanced* > *Parental Controls* and enable Parental Controls.

tal Cor ices (ntrols: On Jnder Parenta	l Controls				
					🕀 Add	O Delete
ID	Device Name	MAC Address	Internet Access Time	Description	Status	Modify
iction P	Restriction	Blacklist	O Whitelist			
		Add a I	New Keyword to E	Block		

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

						🔂 Add	Delete
	ID	Device Name	MAC Address	Internet Access Time	Description	Status	Modify
-		-	2.55	-	5750	-	1000
	Dev	ice Name:	PC1		View Existing D	evices	
MAC Address:			00-0A-EB-14-7B-00				
Internet Access Time:		00-04-25-14-78-00					
Description:							
			🗹 Enable T	his Entry			
					Cancel	ок	1

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

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

5. Enter a Description for the entry. Keep the Enable This Entry checkbox available. Click OK.
| | | | | | | 🔂 Add | Delete |
|---|-----|--------------------|-------------|-------------------------|-----------------|--------|--------|
| | ID | Device Name | MAC Address | Internet Access
Time | Description | Status | Modify |
| - | | | 2.55 | - | 5767
0 | | |
| | Dev | ice Name: | UNKNOW | N | View Existing D | evices | |
| | MAG | Address: | | | | | |
| | | ernet Access Time: | 00-04-20 | 00-0A-EB-14-7B-00 | | | |
| | Des | cription: | Surf Inter | met on weekdays | (Optional) | | |
| | | | 🗹 Enable T | his Entry | | | |
| | | | | | _ | | - 1 |

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

Restriction Policy:	Blacklist O Whitelist	
	🕂 Add a New Keyword to Block	

- 7. Click 🕂 Add a new keyword to Block. You can add up to 32 keywords for either Blacklist or Whitelist. Below are some sample entries to allow access.
 - 1) Enter a web address (e.g. wikipedia.org) or a web address keyword (e.g. wikipedia) to only allow or block access to the websites containing that keyword.
 - 2) Specify the domain suffix (eg. .edu or .org) to allow access only to the websites with that suffix.
 - 3) If you wish to block all Internet browsing access, do not add any keyword to the Whitelist.
- 8. Enter a keyword or a website and click Save.

Restriction Policy:	 Blacklist Whitelist 	
🔂 Add a New Domain Na	me to Access	
wikipedia.org	0	

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

QoS

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

This chapter contains the following sections:

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

8.1 Prioritize Internet Traffic with Quality of Service

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

I want to: Specify priority levels for some devices or applications.

- For example, I have several devices that are connected to my wireless network. I would like to:
- Set my ftp server with faster surfing speed;
- Set my phone an intermediate speed on the Internet;
- Set the WIFI-GUEST with slower surfing speed.

How can I

do that?

1. Enable QoS and set bandwidth allocation.

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

Note:

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

7) Click Save.

QoS:	Enable QoS			
Upload Bandwidth:	100	Mbps 🔻		
Download Bandwidth:	100	Mbps 🔻		
Advanced				
Advanced			60%	
0			60%	
Advanced				

Add QoS Rules.
 Tips:

High Priority:60%	Middle Priority:30%	Low Priority:10%
Add	Add	Add

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

QoS Rule				
Type:	By Device	O By Application	O By Physical Port	

- 1) Set a high priority rule for the ftp server.
- a. Select By Application and then select ftp in the list. Click OK.

Type: Application	0 0,00100 000	y Application () By Physical Port	
SSH	🗌 BT	HTTPS	
Telnet	Emule	SMTP	
VPN	E Facebook	POP3	
DNS	Vonage	FTP	
ICMP	🗌 netTalk	рртр	
NNTP	🗌 iTalkBB	L2TP	
MSN	🗌 GTalk	IPSec	
Skype	HTTP	U Whatsapp	
Custom Application			

🥟 Tips:

If your application isn't listed on the screen, click Custom Application to add application manually.

Name:	FTP		
Protocol:	ALL	•	
Port:	21		(XX or XX-XX,1-65535,at most 5 pairs)

- Name: Enter a name for your application.
- Protocol: Select the protocol for your application, if your are not sure, select ALL.
- Port: Enter the destination port for your application, usually each application has a fixed port, please ensure you enter the correct the port. In this case, the destination port for ftp is 21.
- 2) Set a middle priority rule for the phone.
- a. Select By Device and then click View Existing Devices.

Type:	By Device O By Application O By Physical Port	
Device Name:	View Existing Devices	
MAC Address:		

b. Choose the respective device from the list.

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

c. Click OK.

Type:	By Device O By Appli	cation 🔿 By Physical Port
Device Name:	panda	View Existing Devices
MAC Address:	C8-85-50-5D-02-40	

- 3) Set a low priority rule for the WIFI-GUEST.
- a. Select By Physical Port and then select WIFI-HOST. Click OK.

Type:	O By Device O By Application By Physical Port
Port:	O LAN1 O LAN2 O LAN3
	○ LAN4 ○ WIFI-HOST ⑧ WIFI-GUEST

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

High Priority:60%	Middle Priority:30%	Low Priority:10%
🗐 वान		WIFI-GUEST
Add	Add	Add

🥙 Tips:

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

Done! Now QoS is implemented to Prioritize Internet Traffic.

8.2 Update the Database

This function can help to add or update the applications of the router support. If the applications you need are not listed in the Application list, you can try to download the new version and upgrade. New database versions are posted at *www.tp-link. com* and can be downloaded for free.

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

New Database File:		Browse	
Database Version:	Qos database 1.5.0		
			Upgrade

Network Security

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

9

This chapter contains the following sections:

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

9.1 Protect the Network from Cyber Attacks

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

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

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

- 1. Visit *http://tplinkwifi.net*, and log in with the username and password you set for the router.
- 2. Go to Advanced > Security > Settings.

DoS P	rotection:		On			
CMP-	FLOOD Attack	Filtering:	Off	•		
JDP-F	LOOD Attack	Filtering:	Off	•		
CP-S	YN-FLOOD Att	ack Filtering:	Off	•		
			🗌 Ignore Pin	g Packet From WAN I	Port	
				g Packet From LAN Po	int .	
Block	ked DoS H	ost List		g Packet From LAN Po		Save
	ked DoS H	ost List		g Packet From LAN Po	@ Refresh	Save
		ost List IP Addre				

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

Ø Tips:

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

- 5. Select Ignore Ping Packet From WAN Port if you want to ignore the ping packets from WAN port.
- 6. Select Forbid Ping Packet From LAN Port if you want to ignore the ping packets from LAN port.

2. Go to Advanced > Security > Access Control.

7. Click Save to make the settings effective.

9.2 Access Control

do that?

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

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

How can I 1. Visit *http://tplinkwifi.net*, and log in with the username and password you set for the router.

Acces	s Contro	ol: On				
Acce	ess Mo	de				
Defau	It Acces	s Mode: 💿 Bla	cklist () Whitelist			
						Save
Devi	ices O	nline				
					O Refresh	S Block
	ID	Device Name	IP Address	MAC Address	Connection Type	Modify
	1	UNKNOWN	192.168.0.28	00-0A-EB-13-23-94	Wired	0
	2	UNKNOWN	192.168.0.155	00-14-78-43-45-45	Wired	0
	3	ARCHER_D20	192.168.0.20	40-16-9F-BF-51-0C	Wired	0
220	4	UNKNOWN	192.168.0.200	50-E5-49-1E-06-80	Wired	0
	5	UNKNOWN	192.168.0.133	00-0A-EB-14-7B-00	Wired	0
Devi	ces in	Blacklist				
					HAdd	Delete
		Device N	ame	MAC Address		Modify
	ID					

- 3. Enable Access Control.
- 4. Select the access mode to either block (recommended) or allow the device(s) in the list.

To block specific device(s)

1) Select Blacklist and click Save.

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

To allow specific device(s)

- 1) Select Whitelist and click Save.
- 2) Click Add.

			•	Add 😑 Delete
	ID	Device Name	MAC Address	Modify
22.0	-	215		in <u>- 15</u>
	MAC AU	dress:		
				ок
	1 2	dress:	Cancel 00-0A-EB-14-7B-00 50-E5-49-1E-06-80	ок 🖸 🛍
	1	UNKINGNIN	00-0A-EB-14-7B-00	2
	1 2	UNITARIALIANA UNITARIANA	00-0A-EB-14-7B-00 50-E5-49-1E-06-80	

- 3) Enter the Device Name and MAC Address (You can copy and paste the information from the following list if the device is connected to your network).
- 4) Click OK.
- **Done!** Now you can block or allow specific client devices to access your network (via wired or wireless) using the Blacklist or Whitelist.

9.3 IP & MAC Binding

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

I want to:	Prevent ARP spoofing and ARP attacks.
How can I	1. Visit http://tplinkwifi.net, and log in with the username and password you set for the router.
do that?	2. Go to Advanced > Security > IP & MAC Binding.

ARP	List					
ARP E	intry N	umber: 5				🕜 Refresh
ID		MAC Address	IP Address	Bound	Мо	dify
1	(00-0A-EB-13-23-94	192.168.0.28	Unbound	P	创
2	(00-14-78-43-45-45	192.168.0.155	Unbound	e	创
3	4	40-16-9F-BF-51-0C	192.168.0.20	Unbound	e	创
4	3	50-E5-49-1E-06-80	192.168.0.200	Unbound	P	団
5	(00-0A-EB-14-7B-00	192.168.0.133	Unbound	e	D
Bind	ling L	ist				Add 😑 Delete
	ID	MAC Address	IP Address	Descripti	on Status	Modify

3. Enable IP & MAC Binding.

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

To bind the connected device(s)

- 1) Select the device(s) to be bound in the ARP List.
- 2) Click \mathscr{P} to add to the Binding List.

To bind the unconnected device

1) Click Add.

					() A	dd 😑 Delete
	ID	MAC Address	IP Address	Description	Status	Modify
220 3	225			122	122	-
	IP Addr Descrip	tion:		(Optional)	
			Enable This Entry			

- 2) Enter the MAC address and IP address that you want to bind.
- 3) Select the checkbox to enable the entry and click OK.

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

NAT Forwarding

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

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

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

This chapter contains the following sections:

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

10.1 Share Local Resources in the Internet by Virtual Server

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

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

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

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



How can I

1. Assign a static IP address to your PC, for example 192.168.0.100.

do that?

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

							🔂 Add	😑 Delete
	ID	Service Type	External Port	Internal IP	Internal Po	rt Protocol	Status	Modify
75	275	1755.	-	9.22	555-5		9.75	
	Se	rvice Type:	н	ТТР		View Existing	Services	
External Port:		8	0	((XX-XX or XX)			
	Int	ternal IP:	1	92.168.0.100				
	Int	ternal Port:	8	80		(XX or Blank ,1-65535)		
	Pro	otocol:	Т	CP	•			
			E E	Enable This Ent	гу			
						Cancel	ОК	
						Cancel	UK	10

Ø Tips:

- 1. It is recommended to keep the default settings of Internal Port and Protocol if you are not clear about which port and protocol to use.
- 2. If the service you want to use is not in the Service Type, you can enter the corresponding parameters manually. You should verify the port number that the service need.
- 3. You can add multiple virtual server rules if you want to provide several services in a router. Please note that the External Port should not be overlapped.
- **Done!** Users in the Internet can enter http:// WAN IP (in this example: http:// 218.18.232.154) to visit your personal website.

🖉 Tips:

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

10.2 Open Ports Dynamically by Port Triggering

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

Follow the steps below to configure the port triggering rules:

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

								🕀 Add	😑 Delete	
	ID	Application	Triggering Port	Triggering Protocol	Exter Por		External Protocol	Status	Modify	
				-	-		0444		(
Application:		MSN	I Gaming Zone		Vi	ew Existing A	pplications			
	Triggering Port:		476	47624		(XX,1-65535)				
	Trig	gering Protocol:	ALL		*					
	Exte	rnal Port:	230	0-2400,28800-	29000		or XX-XX,1-6 st 5 pairs)	5535,at		
	Exte	rnal Protocol:	ALL		•					
			🗹 En	able This Entry						
						-	2			

🥙 Tips:

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

10.3 Make Applications Free from Port Restriction by DMZ

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

Note:

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

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

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

How can I 1. Assign a static IP address to your PC, for example 192.168.0.100.

do that? 2. Visit *http://tplinkwifi.net*, and log in with the username and password you set for the router.

3. Go to Advanced > NAT Forwarding > DMZ and select the checkbox to enable DMZ.

DMZ:	☑ Enable DMZ	
OMZ Host IP Address:	192.168.0.100	

- 4. Enter the IP address 192.168.0.100 in the DMZ Host IP Address filed.
- 5. Click Save to save the settings.
- **Done!** The configuration is completed. You've set your PC to a DMZ host and now you can make a team to game with other players.

10.4 Make Xbox Online Games Run Smoothly by UPnP

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

Tips:

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

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



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

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

UPnP					
UPnP:	ြတ	n			
UPnP	Service List				
Client M	lumber: 0				🕝 Refresh
ID	Service Description	External Port	Protocol	Internal IP Address	Internal Port

Customize your network settings

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

This chapter contains the following sections:

- Change the LAN Settings
- Configure to support IPTV service
- Specify DHCP Server Settings
- Set Up a Dynamic DNS Service Account
- Create Static Routes
- Specify Wireless Settings
- Use WPS for wireless connection

11.1 Change the LAN Settings

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

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

LAN		
MAC Address:	00-0A-EB-0C-26-42	
IP Address:	192.168.0.1	
Subnet Mask:	255.255.255.0 🔻	

4. Leave the Subnet Mask as the default settings.

5. Click Save.

Note:

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

11.2 Configure to support IPTV service

- I want to: Configure IPTV setup to enable Internet /IPTV /Phone service provided by my Internet Service Provider (ISP).
- How can I 1. Visit *http://tplinkwifi.net*, and log in with the username and password you set for the router.
 - **do that?** 2. Go to *Advanced* > *Network* > *IPTV* to open the configuration page.
 - 3. If your ISP provide the networking service based on IGMP technology, e.g., British Telecom(BT) and Talk Talk in UK:
 - 1) Select the IGMP Proxy checkbox and select the IGMP Version, either V2 or V3, according to information provided by your ISP.

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IGMP Proxy: 🗹 Enable
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 LAN port.

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

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

Mode:	Bridge	
LAN1:	Bridge	
LANI.	Russia	
LAN2:	Singapore-ExStream	
LAN3:	Malaysia-Unifi	
LAN4:	Malaysia-Maxis	
	Custom	
		Save

- 3) After you have selected a mode, the necessary parameters are predetermined. You can perform other configuration, e.g. enter the IPTV Multicast VLAN ID and select the IPTV Multicast VLAN Priority in Russia mode according to your ISP.
- 4) For Russia, Singapore-ExStream, Malaysia-Unifi and Malaysia-Maxis mode, connect device to the predetermined LAN port. For Bridge and Custom mode, select the LAN type and connect the set-top box to the corresponding port.
- 5) Click Save.
- **Done!** Your IPTV setup is done now! You may need other configurations on your set-top box before enjoying your TV.
 - **Tips** Qos and IPTV cannot be enabled at the same time.

11.3 Specify DHCP Server Settings

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

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

OHCP S	Server:	🗹 En	able DHC	Server			
P Add	ress Pool:	192	2.168.0.10	00	- 192.168.0.199	i.	
Addres	s Lease Tim	ne: 120	120 minutes. (2-2880. The default value is 120.)				
Default	t Gateway:	192	2.168.0.1		(Optional)		
rimary	DNS:				(Optional)		
Secon	dary DNS:				(Optional)		
Addr	ess Rese	rvation				e ad	Save
Addr	ess Rese			Dependent of 1		€ Ad	d 😑 Delet
Addr	ess Rese	rvation MAC Addres	S	Reserved IF Address	Description	🕂 Ad Status	
			S		Description		d 😑 Delet
 DHCI	ID	MAC Addres	S	Address	Description	Status	d 😑 Delet Modify
 DHCI	ID P Client I Number: 0	MAC Addres		Address	Description	Status 	d 👄 Delet Modify

To specify the IP address that the router assigns:

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

To reserve an IP address for a specified client device:

1. Click the **Add** button.

					🔂 Ado	Delete
	ID	MAC Address	Reserved IP Address	Description	Status	Modify
-	12115					10 2210
	IP Addre Descripti	on:				
			Enable This Entry			

- 2. Click View Exsiting Devices or enter the MAC address of the client device.
- 3. Enter the IP address to set to the client device.
- 4. Enter the Description for the rule.
- 5. Select the Enable This Entry checkbox.
- 6. Click OK.

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

Address Reservation						
					🕂 Add	🖨 Delete
	ID	MAC Address	Reserved IP Address	Description	Status	Modify
	1	74-D4-39-24-DA-E4	192.168.0.100	ingrid	Q	0

11.4 Set Up a Dynamic DNS Service Account

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

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

To set up DDNS, please follow the instructions below:

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

Service Provider:	No-IP O DynDNS Go to register	
Username:	lisaddns	
Password:	••••••	
Domain Name:	lisa.ddns.net	
Update Interval:	1 hour	

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

Tips: If you want to use a new DDNS account, please Logout first, then login with the new account.

11.5 Create Static Routes

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

I want to: Visit multiple networks and multiple servers at the same time.

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



How can I do that?

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

Sta	tic F	Routing						
							🔂 Add	😑 Delete
	ID	Network Destination	Subnet Mask	Default Gateway	Interface	Description	Status	Modify
		2207	220			322		220

5. Finish the settings according to the following explanations:

Network Destination:	172.30.30.1		
Subnet Mask:	255.255.255.255		
Default Gateway:	192.168.0.2		
Interface:	LAN		
Description:	company's network		
	🗹 Enable This Entry		
		Cancel	ОК

Network Destination: The destination IP address that you want to assign to a static route. This IP address cannot be on the same subnet with the WAN IP or LAN IP of the router. In the example, the IP address of the company network is the destination IP address, so here enters 172.30.30.1.

Subnet Mask: Determines the destination network with the destination IP address. If the destination is a single IP address, enter 255.255.255; otherwise, enter the subnet mask of the corresponding network IP. In the example, the destination network is a single IP, so here enters 255.255.255.255.

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

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

Description: Enter a description for this static routing entry.

 Static Routing

 Colspan="4">Colspan="4">Add Colspan="4">Colspan="4"
 Colspan="4">Colspan="4">Colspan="4">Colspan="4"
 Colspan="4">Colspan="4">Colspan="4"
 Colspan="4">Colspan="4"
 Colspan="4">Colspan="4"
 Colspan="4"
 Colspan="4"

 Colspan="4"
 Colspan="4"
 Colspan="4"

 <th

6. Click OK to save the settings.

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

ient I	Number: 5	🕑 Refres		
ID	Destination Network	Subnet Mask	Gateway	Interface
1	0.0.0.0	0.0.0.0	192.168.1.1	wan
2	172.30.30.1	255.255.255.255	192.168.0.2	lan
3	192.168.0.0	255.255.255.0	0.0.0.0	lan
4	192.168.0.2	255.255.255.255	0.0.0.0	lan
5	192.168.1.0	255.255.255.0	0.0.0.0	wan

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

11.6 Specify Wireless Settings

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

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

Wireless Settings			3
Wireless 2.4GHz:	🗹 Enable Wireless Radio		
Wireless Network Name (SSID):	TP-LINK_2642	Hide SSID	
Password:	09897717		
Wireless 5GHz:	🗹 Enable Wireless Radio		
Wireless Network Name (SSID):	TP-LINK_2642_5G	Hide SSID	
Password:	09897717		
			Save

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

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

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

Create a new SSID in Wireless Network Name (SSID) and customize the password for the network in Password. The default SSID is TP-LINK_XXXX for 2.4GHz, TP-LINK_XXXX_5G for 5GHz, and the value is case-sensitive.

Note:

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

To hide SSID of 2.4GHz or 5GHz:

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

Advanced Settings:

Go to Advanced > Wireless > Wireless Settings.

Region:	United States		•
Vireless			Save 2.4GHz 5GHz
	🗹 Enable Wireless Radio		
Wireless Network Name (SSID):	TP-LINK_2642	Hide SSID	
Security:	WPA/WPA2 - Personal(Rec	ommended)	•
/ersion:	Auto ○ WPA-PSK ○	WPA2-PSK	
Encryption:	● Auto ○ TKIP ○ AES	5	
Password:	09897717		
1ode:	802.11b/g/n mixed 🔹		
Channel Width:	Auto 💌		
Channel:	Auto 🔻		
ransmit Power:	◯ Low ◯ Middle . ● Hi	iah	

To change the working region for the router:

Select the Region from the drop-down list and click Save. **Note:** Per FCC regulations, all Wi-Fi products marketed in the U.S. is locked to the U.S. region.

To change the security option:

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

In addition

- Mode Select a transmission mode according to your wireless client devices. 802.11b/g/n mixed, 802.11g/n mixed or 802.11n only for 2.4GHz; and 802.11a/n/ac mixed, 802.11n/ac mixed or 802.11ac only for 5GHz. It is recommended to just leave it as default.
- Channel Width Select a channel width (bandwidth) for the wireless network.
- Channel Select an operating channel for the wireless network. It is recommended to leave the channel to Auto, if you are not experiencing the intermittent wireless connection issue.
- Transmit Power Select either High, Middle or Low to specify the data transmit power. The default and recommended setting is High.

11.7 Use WPS for wireless connection

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

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

2. Go to Advanced > Wireless > WPS.

11.7.1. Set the router's PIN

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

Router's PIN				
Router's PIN:	On			
PIN:	09897717	Generate	Default	

Note:

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

11.7.2. Use the WPS Wizard for Wi-Fi connections

- 1. Select a setup method:
 - **Push Button(Recommended)**: Click the Connect button on the screen. Within two minutes, push the WPS button on the client device.
 - **PIN**: Enter the client's PIN, and click Connect.

Select a setup method:	O Push Button (Recommended)	PIN	
Enter the client's PIN:			

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

Manage the Router

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

This chapter includes the following sections:

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

12.1 Set Up System Time

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

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

To automatically synchronize the time:

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

Current Time:	01/02/2015 02:38:49		
Set Time:	Get automatically from the	e Internet O Manually	
Time Zone:	(GMT-08:00) Pacific Time		•
NTP Server I:	time.nist.gov		
NTP Server II:	time-nw.nist.gov	(Optional)	
Obtain			
Obtain			

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

To manually set the date and time:

1. In the Set Time field, select Manually.

Current Time:	01/02/2015 02:38:49	
Set Time:	○ Get automatically from the Internet ● Manually	
Date:	01/02/2015 MM/DD/YYYY	
Time:	02 ▼ : 38 ▼ : 49 ▼ (HH/MM/SS)	

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

To set up Daylight Saving Time:

1. Select Enable Daylight Saving Time.

Start: 2015 Mar. ▼ 2nd ▼ Sun. ▼ 2a.m.						.g	Die Dayii	🗹 Ena	aylight Saving Time:
	2a.m.	•	Sun.	•	2nd	•	Mar.	2015	tart:
End: 2015 Nov. v First v Sun. v 2a.m.	2a.m.	•	Sun.	•	First	•	Nov.	2015	nd:
End: 2015 Nov. First Sun. 2a.m. Running Status:	2a.m.	•	Sun.	•	First	•	Nov.	2015	

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

12.2 Test the Network Connectivity

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

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

Diagnostics			?
Diagnostic Tool:	Ping O Traceroute		
IP Address/Domain Name:			
Start			
Advanced			
Ping Count:	4	(1-50)	
Ping Packet Size:	64	(4-1472 Bytes)	

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

Ø Tips:

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

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



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



12.3 Upgrade the Firmware

TP-LINK is dedicated to improving and richening the product features, giving you a better network experience. We will release the latest firmware at TP-LINK official website, you can download the latest firmware file from the Support page of our website *www.tp-link.com* and upgrade the firmware to the latest version.

Note:

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

Follow the steps to upgrade the firmware.

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

New Firmware File:	Browse	
Firmware Version:	1.0.0 Build 20150522 Rul. 42154	
Hardware Version:	Archar C2600 v1.0	

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

12.4 Backup and Restore Configuration Settings

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

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

To backup configuration settings:

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

Backup	•
Save a copy of your current settings.	
	Backup

To restore configuration settings:

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

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

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

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

To reset the router to factory default settings:

1. Click Factory Restore to reset the router.

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

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

Note:

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

12.5 Change the Administrator Account

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

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

t		(? (?
admin	0	
•••••	O	
Mary		
•••••		
Low Middle High		
•••••		
t	admin Mary Low Middle High	admin Image: Second

3. Enter the old username and old password. Enter the new username and enter the new password twice (both casesensitive). Click Save.

Use the new username and password for the following logins.

12.6 Password Recovery

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

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

ery		
🗹 Enable Password Recovery		
lisa@gmail.com		
mary@gmail.com		
smtp.gmail.com		
🗹 Enable Authentication		
XXXXXXXX		
••••••		
	Test Email	Save
	 ✓ Enable Password Recovery lisa@gmail.com mary@gmail.com smtp.gmail.com ✓ Enable Authentication xxxxxxxxxx 	 Enable Password Recovery lisa@gmail.com mary@gmail.com smtp.gmail.com Enable Authentication xxxxxxxxxx

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

✓ Tips:

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

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

12.7 Local Management

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

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

Allow all LAN connected devices to manage the router:

Toggle on Access for All LAN Connected Devices.

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

ccess for All LAN Connected Devices:	On	Toggle On to enable the management for all devices on LAN or keep it Off to enable the management for a specific device.

Allow specific devices to manage the router:

- 1) Toggle off Access for All LAN Connected Devices.
- 2) Click Add.

Access fo Connecte	r All LAN d Devices:	Off LAN (le On to enable the man: or keep it Off to enable th fic device.	agement for all dev ne management fo	vices on r a
				🕀 Add	😑 Delete
	ID	MAC Address	Description	Status	Modify
177	50		<u>8755</u>	100	~
	AC Addres	s: 00-14-78-4 Mary 🗹 Enable This		xisting Devices	
	1	00-0A-EB-13-23-94	Ingrid	S S	00

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

12.8 Remote Management

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

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

Forbid all devices to manage the router remotely:

Select Disable Remote Management and click Save.

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

Allow all devices to manage the router remotely:

1) Select Enable Remote Management for All Devices.

	O Disable Remote Ma	nagement	
	Enable Remote Mar	agement for All Devices	
	🔿 Enable Remote Mar	agement for Specified Devices	
Web Management Port:	1024		
Remote Management IP Addre	ss:		
Remote Management IP Addre	551		

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

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

Ø Tips:

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

Allow specific devices to manage the router remotely:

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

Remote Management			
(🔿 Disable Remote Managem	ent	
(🔿 Enable Remote Managem	ent for All Devices	
(Enable Remote Management	ent for Specified Devices	
Web Management Port:	1024		
Remote Management IP Address:	219.133.14.168		
			Save

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

🖉 Tips:

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

12.9 System Log

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

• To Save the System Log in Local:

- 1. Visit *http://tplinkwifi.net*, and log in with the username and password you set for the router.
- 2. Go to Advanced > System Tools > System Log.
- 3. Choose the type and level of the system log to your need.

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4. Click Save Log to save the system log to local.

.og Filter	: Type= ALL		▼ and Le	evel= ALL	•	
				0	Refresh	Delete All
ID	Time	Туре	Level	ļ,	.og Content	
575A	.77.	0.75	1.000		0.77	
) Mail	Settings					

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

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

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

Mail Settings		
From:		
То:		
SMTP Server:		
	Enable Authentication	
	🗌 Enable Auto Mail	
		Save

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

From:	zhangsan@ho	otmail.c	om				
To:	homezhang@	hotmail	.com				
SMTP Server:	smtp-mail.out	look.co	m				
	🗹 Enable Authe	enticatio	n				
Username:	zhangsan						
Password:							
	🗹 Enable Auto	Mail					
	Log at	08	•	00	•	(HH:MM) everyday	
	O Log every	24	ho	urs			

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

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

4) Select Enable Authentication.

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

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

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

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

12.10 Monitor the Internet Traffic Statistics

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

- 1. Visit *http://tplinkwifi.net*, and log in with the username and password you set for the router.
- 2. Go to Advanced > System Tools > Traffic Statistics.
- 3. Toggle on Traffic Statistics, and then you can monitor the traffic statistics in Traffic Statistics List section.

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

Frank - Charlinking					
Traffic Statistics:	On				
Traffic Statist	ics List				
			O F	Refresh 🔞 Reset A	🛯 😑 Delete All
IP Address/MAC Address	Total Packets	Total Bytes	Current Packets	Current Bytes	Modify
192.168.0.200/ 5 0-E5-49-1E-06- 80	O	0	0	0	() 回
192.168.0.20/ 40 -16-9F-BF-51-0C	1	594	0	0	0
192.168.0.155/ 0 0-14-78-43-45- 45	1	346	0	0	() 回
192.168.0.1/00- 0A-EB-13-09-19	1	594	0	0	の団
192.168.0.123/ C 4-E9-84-23-06- C6	1	594	0	0	О
192.168.0.4/ 00- 0A-EB-13-01-02	2	412	0	0	0
192.168.0.100/ C 8-85-50-5D-02- 40	0	0	0	0	0
192.168.0.184/ C 8-85-50-5D-02- 40	0	0	0	0	0

Click Refresh to update the statistic information on the page.

Click Reset All to reset all statistic values in the list to zero.

Click Delete All to delete all statistic information in the list.

Click ⁽⁾ to reset the statistic information of the specific device.

Click $\stackrel{\text{(iii)}}{=}$ to delete the specific device item in the list.

12.11 Control LEDs

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

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

To turn on or turn off the LEDs:

Click the LED icon on the top right of the page.

To turn off LEDs during Night Mode Period:

- 1. Go to Advanced > System Tools > System Parameters.
- 2. In the LED section, select the Enable Night Mode checkbox.
- 3. Specify a time period in the Night Mode Period according to your needs, and the LEDs will be off during the period.
- 4. Click Save to make the settings effective.

LED	
Night mode:	☑ Enable Night Mode
Night Mode Period:	22 ▼ : 00 ▼ to 06 ▼ : 00 ▼ (HH:MM)
Q1. What can I do if I forgot my wireless password?

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

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

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

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

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

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

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

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

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

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

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

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

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

General	Security	Privacy	Content	Connections	Programs	Advanced
Dial-up	To set up Setup.		net connec		Set	up
25	Broadbar	nd Conn	ection		Add	ł
					Add V	PN
					Remo	ve
	se Settings r for a conr		ed to config	gure a proxy	Sett	ings
O Ne	ever dial a	connectio	n			
O Di	al wheneve	er a netwo	ork connect	tion is not pres	ent	
O Al	ways dial n	ny default	connection	1	-	
Cur	rrent	None			Set de	efault
Local A	Area Netwo	rk (LAN) s	ettinas —			
	Settings do se Settings			connections. ettings.	LAN se	ttings

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

use or manu		override manual setti le automatic configura	
Automati	cally detect setti	ngs	
Use auto	matic configurati	on script	
Address			
Proxy server			
	VPN connection	our LAN (These setting s).	is will not apply to
Address	d.	Port: 80	Advanced
Huul 000			

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

eneral	Security	Privacy	Content	Connections	Programs	Advanced
Setting	s —					
	Enable Move Reset Reset Browsing Auton Close Disabl	s expand e Caret Br system ca text size text size zoom leve natically re unused for e script de e script de	aret with for to medium to medium el for new ecover fron olders in His ebugging () ebugging ()	new windows a cus/selection of for new window while zooming ^a windows and ta n page layout e story and Favor internet Explore	hanges ws and tabs bs rrors with Cr rites* er)	
•	V Displa	y Accelera	ator buttor	on selection		•
*Ta	kes effect i	after you	restart Int	ernet Explorer		
	81 - 828	plorer set		Restore	advanced s	ettings

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

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

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

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

Note:

- WDS bridging only requires configuration on the extended router;
- WDS bridging function can be enabled either in 2.4GHz frequency or 5GHz frequency for a dual-band router. We use the WDS bridging function in 2.4GHz frequency as an example.
- 1. Visit *http://tplinkwifi.net*, and log in with the username and password you set for the router.
- 2. Configure the IP address of the router:
 - 1) Go to *Advanced* >*Network* > *LAN*, configure the IP address of the extended router to be in the same subnet with the root router; (For example, the IP address of the root router is 192.168.0.1, the IP address of the extended router can be 192.168.0.2~192.168.0.254. We take 192.168.0.2 as example.)
 - 2) Click Save.

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

MAC Address:	00-0A-EB-0C-26-42	
IP Address:	192.168.0.2	
Subnet Mask:	255.255.255.0 🔻	

- 3. Survey the SSID to be bridged:
 - 1) Go to Advanced > System Tools > System Parameters to load the 2.4GHz WDS, click Enable WDS Bridging;
 - 2) Click Survey, locate the root router's SSID and click Choose (Here we take TP-LINK_2512 as example);
 - 3) If the root router has wireless password, you should enter the wireless password of the root router;
 - 4) Click Save.

2.4GHz WDS		
WDS Bridging:	✓ Enable WDS Bridging	
SSID(to be bridged):	TP-LINK_2512	Survey
MAC Address(to be bridged):	00-00-00-84-25-12	Example: 00-1D-0F-11-22-33
WDS Mode:	Auto 🔻	
Security:	O None WPA-PSK/WP/	A2-PSK O WEP
Password:	123456789	

- 4. Disable DHCP:
 - 1) Go to Network > DHCP Server;
 - 2) Deselect Enable DHCP Server;
 - 3) Click Save.

DHCP Server:	🗌 Enable I	DHCP Server			
IP Address Pool:	192.168	.0.100	-	192.168.0.199	
Address Lease Time:	120	minutes.	(2-288	0. The default value is 120.)	
Default Gateway:	192.168	.0.2	(Optional)	
Primary DNS:			(Optional)	
Secondary DNS:			(Optional)	

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

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

- 1. Visit *http://tplinkwifi.net*, and log in with the username and password you set for the router.
- 2. Go to *Advanced* > *Status* to check Internet status:

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

Internet 8	IPv4 IPv6
MAC Address:	00-0A-EB-AC-88-16
IP Address:	59.40.0.91
Subnet Mask:	255.255.255.0
Default Gateway:	59.40.0.1
Primary DNS:	202.96.128.166
Secondary DNS:	202.96.134.133
Connection Type:	Dynamic IP

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

DHCP Server:	✓ Enable DHCP Server		
IP Address Pool:	192.168.0.100	- 192.168.0.199	
Address Lease Time:	120 minutes.	(2-2880. The default value is 120.)	
Default Gateway:	192.168.0.2	(Optional)	
Primary DNS:	8.8.8.8	(Optional)	
Secondary DNS:		(Optional)	

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

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

1) Reset the router to factory default settings: press and hold the RESET button for at least 10 seconds and then release;

- 2) Reconfigure the router with the help of *Quick Setup*.
- 4. Please refer to *Upgrade the Firmware* to upgrade the firmware of the router.

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

Internet 8	IPv4 IPv6
MAC Address:	00-0A-EB-AC-88-16
IP Address:	0.0.0.0
Subnet Mask:	0.0.0.0
Default Gateway:	0.0.0.0
Primary DNS:	0.0.0.0
Secondary DNS:	0.0.0.0
Connection Type:	None

1. Check the physical connection.

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

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

Use Default MAC Address			
Use Current Computer MA	AC Address		
O 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.
- 3. Modify the LAN IP address of the router.

Note:

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

- 1) Visit *http://tplinkwifi.net*, and log in with the username and password you set for the router;
- 2) Go to Advanced > Network > LAN;

- 3) Modify the LAN IP address as the follow picture shows. Here we take 192.168.2.1 as an example;
- 4) Click Save.

LAN		•
MAC Address:	00-0A-EB-0C-26-42	
IP Address:	192.168.2.1	
Subnet Mask:	255.255.255.0 💌	
Subnet Mask:	255.255.255.0 🔻	
		Save

- 4. Power cycle the modem and the TP-LINK router.
 - 1) Power off your modem and TP-LINK router, leave them off for 1 minute;
 - 2) Power on your modem first, wait about 2 minutes until it get a solid cable or Internet light;
 - 3) Power back TP-LINK router;
 - 4) Wait another 1 or 2 minutes and check the Internet access.
- 5. Double check the Internet Connection Type.
 - 1) Confirm your Internet Connection Type, which can be learned from the ISP;
 - 2) Visit *http://tplinkwifi.net*, and log in with the username and password you set for the router;
 - 3) Go to Advanced > Network > Internet;
 - 4) Select your Internet Connection Type and fill in other parameters with the help of page tips;
 - 5) Click Save.

Internet Connection Type:	•	
	Static IP	
MAC Clone	Dynamic IP	
Use Default MAC Address	PPPoE	
O Use Current Computer MAC A	рртр	
O Use Custom MAC Address		

- 6) Power cycle the modem and the TP-LINK router again.
- 3. Please refer to Upgrade the Firmware to upgrade the firmware of the router.
- 4. Check the TCP/IP settings on the particular device if all other devices can get Internet from the router.

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

Q6. I cannot find my wireless network or I cannot connect the wireless network, what can I do? If you fail to find any wireless network, please follow the steps below:

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

On Windows 7

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

On Windows XP

- 1) If you see the message Windows cannot configure this wireless connection, this is usually because windows configuration utility is disabled or you are running another wireless configuration tool to connect the wireless;
- 2) Exit the wireless configuration tool(the TP-LINK Utility, for example);
- 3) Select and right click on My Computer on desktop, select Manage to open Computer Management window;
- 4) Expand Services and Applications > Services, find and locate Wireless Zero Configuration in the Services list on the right side;
- 5) Right click Wireless Zero Configuration, and then select Properties;
- 6) Change Startup type to Automatic, click on Start button and make sure the Service status is Started. And then click OK.
- 7) Connect to wireless network.

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

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

Note:

Different countries have different laws about wireless channel. For example, USA allows 2.4GHz channel from 1 to 11, while UK allows from 1 to 13.1f you select the Region as UK or the Channel as 12/13 while you are in USA, your computer might not be able to pick up the signal.

Region:	United States	Save		
Wireless		2.4GHz 5GHz		
	🗹 Enable Wireless Radio			
Wireless Network Name (SSID):	TP-LINK_2642 Hide SSID			
Security:	WPA/WPA2 - Personal(Recommended)	•		
Version:	● Auto ○ WPA-PSK ○ WPA2-PSK			
Encryption:	Auto O TKIP O AES			
Password:	09897717			
Mode:	802.11b/g/n mixed 🔹			
Channel Width:	Auto 💌			
Channel:	Auto 👻			
Transmit Power:	🔾 Low 🔿 Middle 🖲 High			

4. Connect to wireless network.

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

• Authenticating problem, password mismatch:

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

Type the 8-					
	It is not t	he genera	al wirele	ss passw	ora
PIN:	-		~		
				The state	
Connect using	a security ke	ev instead			
8		10 A			

- 2. If you cannot find the PIN or PIN failed, you may choose Connecting using a security key instead, and then type in the Wireless Password/Network Security Key;
- 3. If it continues on saying Network Security Key Mismatch, it is suggested to confirm the wireless password of your wireless router;

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

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

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FCC STATEMENT



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

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

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

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

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

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

FCC RF Radiation Exposure Statement

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

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

CE Mark Warning

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

National Restrictions

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

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

Country	Restriction	Reason/remark
Russian Federation	None	Only for indoor applications

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

Canadian Compliance Statement

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

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

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

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

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

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

Industry Canada Statement

Complies with the Canadian ICES-003 Class B specifications.

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

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

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

Korea Warning Statements:

당해 무선설비는 운용중 전파혼신 가능성이 있음.

NCC Notice & BSMI Notice:

注意!

依據 低功率電波輻射性電機管理辦法

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

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

減少電磁波影響,請妥適使用。

安全諮詢及注意事項

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



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

EHC

Safety Information

- When product has power button, the power button is one of the way to shut off the product; when there is no power button, the only way to completely shut off power is to disconnect the product or the power adapter from the power source.
- Don't disassemble the product, or make repairs yourself. You run the risk of electric shock and voiding the limited warranty. If you need service, please contact us.
- Avoid water and wet locations.

This product can be used in the following countries:

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