TP-LINK[®]



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About This Guide

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

Conventions

In this guide	the following	conventions are	used:
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Convention	Description
modem router/ router	Stands for AC750 Wireless Dual Band Gigabit ADSL2+ Modem Router without any explanation.
parameters	Parameters provided in the screenshots are just references for setting up the device, which may differ from the actual situation. You can set the parameters according to your demand.
screenshots	The demonstrated screenshots may look a little different from the actual web page of your device due to the various firmware versions. Please just configure your product based on the actual web page.
Blue Italic	Hyperlinks are in blue italic. You can click to redirect to a website or a specific section.
Blue	Contents to be emphasized and texts on the web page are in blue, including the menus, items, buttons, etc.
>	The menu structures to show the path to load the corresponding page. For example, Advanced > Wireless > MAC Filtering means the MAC Filtering function page is under the Wireless menu that is located in the Advanced tab.
Note:	Ignoring this type of note might result in a malfunction or damage to the device.
Tips:	Indicates important information that helps you make better use of your device.
symbols on the web page	 Click to edit the corresponding entry. Click to delete the corresponding entry. Click to enable or disable the corresponding entry.

Get to Know About Your Modem Router

This chapter introduces what the modem 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 D2 AC750 Wireless Dual Band Gigabit ADSL2+ Modem Router is a combined wired/wireless network connection device with integrated wireless router and ADSL modem, reducing hassle of configuration and saving space. Featuring a variety of features and rich functionality, Archer D2 is the perfect hub of your home or business network.

802.11ac - The Next Generation of Wi-Fi

TP-LINK's Archer D2 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.

750Mbps Concurrent Dual Band - More Bandwidth, Less Interference

With 433Mbps wireless speeds over the crystal clear 5GHz band and 300Mbps over the 2.4GHz band, Archer D2 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.

Full Gigabit Wired Connections - Ultrafast Data Transfer Speeds

With one Gigabit LAN/WAN port and 3 Gigabit LAN ports, the Archer D2 is the ideal choice for bandwidth heavy users that rely on speedy, reliable connections for bandwidth intensive work or entertainment such as lag-free conference calls, HD video streaming or online gaming.

Multifunctional USB Port – Easy Storage and Sharing

Using the Archer D2's multi-functional USB 2.0 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.

Interchangeable LAN/WAN Port - Versatile Connectivity

The Archer D2 supports ADSL or Ethernet WAN connections (EWAN), which allows users to have the flexibility of different Internet connections among ADSL, cable or fiber modem using its interchangeable LAN/WAN port. This unique feature makes it easier when users need to change to fiber or cable services when necessary.

Guest Network

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

IPv6 Supported

Archer D2 supports IPv6, which is the foundation of the next generation of the Internet and enables a range of new services and improved user experience.

1.2. Main Features

- Complies with IEEE 802.11ac to provide a wireless data rate of up to 300Mbps (2.4GHz) + 450Mbps (5GHz).
- Four 10/100/1000Mbps Auto-Negotiation RJ45 LAN ports (Auto MDI/MDIX), one RJ11 port.
- Provides external splitter.
- Adopts Advanced DMT modulation and demodulation technology.
- Supports bridge mode and Router function.
- Multi-user sharing a high-speed Internet connection.
- Downstream data rates up to 24Mbps, upstream data rates up to 1Mbps.
- Supports long transfers, the max line length can reach to 6.5Km.
- Supports remote configuration and management through SNMP and CWMP.
- Supports PPPoE, which allows connecting to the Internet on demand and disconnecting from the Internet when idle.
- Provides reliable ESD and surge-protect function with quick response semi-conductive surge
- protection circuit.
- High speed and asymmetrical data transmit mode, provides safe and exclusive bandwidth.
- Compatible with all mainstreams DSLAM (CO).
- Provides integrated access of internet and route function which face to SOHO user.
- Real-time Configuration and device monitoring.
- Supports Multiple PVC (Permanent Virtual Circuit).
- Built-in DHCP server.
- Built-in firewall, supporting IP/MAC filter and URL filter.
- Supports Virtual Server, DMZ host and Port Triggering.
- Supports Dynamic DNS, UPnP and Static Routing.

- Supports system log and flow Statistics.
- Supports firmware upgrade and Web management.
- Provides WPA-PSK/WPA2-PSK data security, TKIP/AES encryption security.
- Provides 64/128-bit WEP encryption security and wireless LAN ACL (Access Control List).
- Supports USB Storage Sharing, Print Server, FTP Server, Media Server.
- Supports Ethernet WAN (EWAN).
- Supports Bandwidth Control.
- Supports IPv6.
- Supports Guest Network.

1.3. Panel Layout

1.3.1. Top View



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

Name	Status	Indication			
	On	A WPS synchronization is established.			
W PS	Flashing	A wireless device is trying to connect to the network via WPS This process may take up to 3 minutes.			
	Off	A WPS synchronization has been established for more than 5 minutes or a WPS synchronization failed.			
	On	The USB device is identified and ready to use.			
Ů́USB	Flashing	The USB device is being identified.			
	Off	No USB device is plugged into the USB port.			
—	On	At least one LAN port is connected.			
느너 LAN	Off	No LAN port is connected.			
	On	The wireless 2.4GHz or 5GHz band is enabled.			
M Wireless	Off	The wireless function is disabled.			
	On	Internet connection is available.			
\mathscr{D} Internet	Off	No Internet connection or the modem router is operating Bridge mode.			
	On	ADSL line is synchronized and ready to use.			
	Flashing	The ADSL negotiation is in progress.			
	Off	ADSL synchronization failed. Please refer to Note 1 for troubleshooting.			
	On	System initialization complete.			
் Power	Flashing	System initializing or firmware upgrading is in process. Do not disconnect or power off the modem router.			
	Off	Power is off. Please ensure that the power adapter is connected correctly.			

LED Explanation

Note:

1. If the ADSL LED is off, please check your Internet connection first. Refer to Connect Your Modem Router for more information about how to make Internet connection correctly. If you have already made a right connection, please contact your ISP to make sure your Internet service is available now.

2. If the Internet LED is off, please check your ADSL LED first. If your ADSL LED is also off, please refer to *Note 1*. If your ADSL LED is ON, please check your Internet configuration. You may need to check this part of information with your ISP and make sure everything have been input correctly.

1.3.2. The Back Panel



The modem router's back panel shows the antennas, connection ports and buttons. Refer to the following for detailed instructions.

ltem	Description
Antennas	Used for wireless operation and data transmit. For the best Wi-Fi performance, the center antenna should be vertical and the others should be outwards at 30 degree angles, as shown in the picture above.
ADSL	For connecting the modem router to the Internet. Connect the port to the splitter or directly connect the port to the phone jack via a phone cable. For details, please refer to Connect the Modem Router.
USB	For connecting to a USB storage device or a USB printer.
WPS	The switch for the WPS function.
WiFi ON/OFF	For turning on/off the Wi-Fi function.
RESET	The switch for the RESET function. There are two ways to reset the modem router's factory defaults. Method one: With the modem router powered on, use a pin to press and hold the RESET button on the rear panel of the modem router for 8 seconds until all LEDs turn off momentarily, then release the button. Method two: Log into the web management page of the modem router, and go to Advanced > System Tools > Backup & Restore, click Factory Restore and wait until the reset process is complete.
LAN1, LAN2, LAN3, LAN4/WAN	For connecting the modem router to your PC or other Ethernet network devices. In wireless router mode you will be able to connect to Cable/FTTH/VDSL/ADSL devices.
POWER ON/OFF	The switch for the power. Press it to power on or off the modem router.
POWER	For connecting the modem router to power socket via the provided power adapter.

Connect the Hardware

This chapter contains the following sections:

- Position Your Modem Router
- Connect Your Modem Router

2.1. Position Your Modem Router

With the modem router, you can access your network from anywhere within the wireless network coverage. However, the wireless signal strength and coverage varies depending on the actual environment where your modem router is in. Many obstacles may limit the range of the wireless signal, for example, concrete structures, thickness and number of walls.

For your security and best Wi-Fi performance, please:

- Do Not locate the modem router in the place where it will be exposed to moisture or excessive heat.
- Keep away from the strong electromagnetic radiation and the device of electromagnetic sensitive.
- Place the modem 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.
- Tips: The modem router can be placed on a shelf or desktop.

Generally, the modem router is placed on a horizontal surface. The device can also be mounted on the wall as shown in the following picture.



Note:

The diameter of the screw is between 4.1mm and 9.6mm, and the distance of two screws is 150mm. The screws that project from the wall need around 7mm based, and the length of the screw needs to be at least 25mm to withstand the weight of the product.

2.2. Connect Your Modem Router

Follow the steps below to connect your modem router.

1. Connect the ADSL line and power adapter. The electrical outlet shall be installed near the device and shall be easily accessible



2. Connect your computer to the modem router.

Method 1: Wired

Connect your computer's Ethernet port to the LAN port on the modem router via the Ethernet cable.

Method 2: Wirelessly

Use the default SSID (Wireless Network Name) and Wireless Password printed on the product label of the modem router to connect wirelessly.

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 modem router.
- 3) The WPS LED flashes for about 3 minutes during the WPS process.
- 4) When the WPS LED is on, the client device has successfully connected to the modem router.





Log into Your Modem Router

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

Follow the steps below to log into your modem router.

- 1. If the TCP/IP Protocol on your computer is set to the static (fixed) IP address, you need to change it to obtain an IP address automatically.
- 2. Launch a web browser and type in *http://tplinkmodem.net* or *http://192.168.1.1*. Set a strong password using 1-15 characters and click Save.

Address htt	p://tplinkmodem.net	*
	New Password	
	Low Middle High	
	Confirm Password	
	Save	

3. Enter the password you set and click Login.

	Login		

Note: For subsequent logins, you only need to enter the password that you have set to log in.

Set Up Internet Connections

This chapter introduces how to connect your modem router to the Internet. The modem 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 includes the following sections:

- Use Quick Setup Wizard
- Manually Set up an Internet Connection
- Set up an IPv6 Connection
- Test Internet Connectivity

4.1. Use Quick Setup Wizard

To set up your modem router with several easy steps quickly:

- 1. Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router.
- 2. Click Quick Setup, select your ISP from the dropdown list or select Other if you can't find your ISP, then click Next.

Internet Set	qu	Connection Test	
Select Internet Service Provider(ISP)	Wireless Settings		Summary
ISP List:	AOL	•	
		Exit	lext

3. Follow the on-screen instructions to complete the setup.

Note:

- 1. During the quick setup process, you can change the preset wireless network name (SSID) and wireless password. Once done, all your wireless devices must use the new SSID and password to connect to the modem router.
- 2. The modem router supports two operation modes, DSL Modem Router Mode and Wireless Router mode. If you already have a modem or your Internet comes via an Ethernet cable from the wall, you can set up the modem router as a regular wireless router to share the Internet. Refer to *Appendix B: Troubleshooting* for details.

4.2. Manually Set up an Internet Connection

To manually add an Internet connection without following the instructions of the Quick Setup wizard:

- 1. Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router.
- 2. Go to Basic > Internet page. Select your ISP, and the VPI and VCI values will be automatically filled in. Enter the information provided by your ISP for the Connection Type. If you can't find your ISP in the ISP List, select Other and then enter the information provided by your ISP.

Internet Connection	Setup	
ISP List	AOL	•
VPI:	0	(0-255)
VCI:	38	(1-65535)
Connection Type:		
Username:	12345678	
Password:	*******	

3. Click Save to make the settings effective and you can refer to *Test Internet Connectivity* to test the Internet connection.

Tips: You can view and edit all Internet connections on Advanced > Network > Internet page.

4.3. Set up an IPv6 Connection

If the DSL line your ISP provided also supports IPv6 connection and your ISP has provided some detailed IPv6 parameters, you can configure the modem router to permit IPv6 connection.

Follow the steps below to set up an IPv6 connection.

- 1. Configure the WAN settings.
 - 1) Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router.
 - 2) Go to Advanced > Network > Internet page. Select your WAN Interface Name and click the [☑] (Edit) icon.

VAN Interface				
🕝 Refresh 🖨				Delete Al
WAN Interface Name	VPI/VCI	Status	Operation	Modify
pppoe_8_35_0_d	8/35	Connected	Disconne	0

3) Scroll down to configure the IPv6 parameters.

IPv6:	🗹 Enable	
Addressing Type:	SLAAC	•
IPv6 Gateway:	Current Connection	•
O Advanced		

Select the checkbox to enable IPv6 feature.

Addressing Type: Consult your ISP for the addressing type, DHCPv6 or SLAAC. SLAAC is the most commonly used addressing type.

IPv6 Gateway: Keep the default setting as Current Connection.

Note: If your ISP has provided the IPv6 address, click Advanced to reveal more settings. Check to use IPv6 specified by ISP and enter the parameters provided by your ISP.

- 4) Click OK to make the settings effective.
- 2. Configure the IPv6 LAN settings. Go to Advanced > Network > LAN Settings page. Select IPv6 to configure IPv6 LAN parameters.

IP Version:	◯ IPv4
Group:	Default
Address Type:	RADVD O DHCPv6 Server
	Enable RDNSS
	Enable ULA Prefix
Site Prefix Type:	Delegated
Prefix Delegated WAN Connection:	pppoe_0_38_1_d
	Save

- 1) Select the Prefix Delegated WAN Connection, the IPv6 connection you just set up, from the drop-down list.
- 2) Leave the rest of the settings as default.
- 3) Click Save to make the settings effective.
- 3. Done. IPv6 service is available for your network.

4.4. Test Internet Connectivity

After setting up the Internet connection, you need to know the Internet connectivity. The modem router provides a diagnostic tool to help you locate the malfunction.

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

Dia	Diagnostic Tools							
The	The Internet connection of the router can be tested by clicking the Start button.							
	Test xDSL Synchronization	Pass	*					
	Test WAN Connection	Pass						
	Network Connection Status Inspect(NCSI)	Pass						
	Diagnostics Complete							
			÷					

3. Click Start to test the Internet connectivity and you will see the test result in the gray box.

Bandwidth Control

The Bandwidth Control feature is used to fully utilize your limited bandwidth and optimize the load respectively. With this feature enabled, you can assign a specific minimum or maximum bandwidth for each computer, thus minimizing the impact caused when the connection is under heavy load.

I want to: Use an independent bandwidth and enjoy a good Internet experience without being affected by other users who are sharing the same router.

For example, my roommate and I share 512Kbps Upstream Bandwidth and 8Mbps Downstream Bandwidth via this router, she likes to watch live show and play online games, which may take up much bandwidth. I don't want to be affected, so we agree to equally distribute the bandwidth. Our IP addresses are 192.168.1.101 and 192.168.1.110.

- **Tips:** To use the bandwidth control feature, you'd better set static IP Address on each computer to be controlled or configure Address reservation on the modem router in order to manage easily. About how to configure address reservation, please refer to *Reserve LAN IP Addresses*.
- How can I1. Visit http://tplinkmodem.net, and log in with the password
you set for the modem router.
 - Bandwidth Control

 Bandwidth Control:
 Image: Enable

 Line Type:
 Image: Other

 Total Upstream Bandwidth:
 512
 kbps

 Total Downstream Bandwidth:
 8192
 kbps

 IPTV Bandwidth Guarantee:
 Image: Enable
 Save
 - 2. Go to Advanced > Bandwidth Control page.

you don't know how to choose the line type, please contact your ISP which line type you have access.4. EntertheTotalUpstreamBandwidthandtheTotalDownstream

3. Enable Bandwidth Control, choose DSL on the line type. If

- Enterthe lotal UpstreamBandwidthand the lotal Downstream Bandwidth given by your ISP. (1Mbps=1024Kbps). Click Save to save the settings.
- **5.** Click Add to add controlling rules for each computer respectively.

								🕂 Add	Dele
	Description		Priority	Up(m	in/ma	x)	Down(min/max)	Enable	Modif
IP Range	:	192	.168.1.:	101		-	192.168.1.101		
Port Rang	je:	1				-	65535		
Protocol:		ALL		•					
Priority:		5		•	(1 me	ean	s the highest prior	ity.)	
Upstream		250)			to	500		
Downstre	am:	200	0			to	4000		
		🗹 Ena	able this	entry					
							Cancel	ок	

- IP Range: Enter the IP address. The field can be single IP address or IP address range according to your demands. When you configure the single IP address, the computer with this IP address will get independent given bandwidth. When you configure the IP address range, all computers in the range will share the given bandwidth.
- 2) Port Range: Keep the default settings. The default port range of TCP protocol or UDP protocol is from 1 to 65535.
- 3) Protocol: Keep the default setting. Or you can choose the TCP protocol or UDP protocol or both of them.
- 4) Priority: Keep the default setting. You can change the value if you want to first guarantee the bandwidth for one computer. The smaller value has the higher priority.
- 5) Upstream/Downstream: Enter the bandwidth according to your division.
- 6) Check to enable this entry and click OK to save the settings.
- **6.** Follow the steps above to add a rule for the other computer. And then you will get the following table.

Con	Controlling Rules						
					🕂 Add	😑 Delete	
	Description	Priority	Up(min/max)	Down(min/max)	Enable	Modify	
	192.168.1.110	5	250/500 kbps	2000/4000 kbps	Q	20	
	192.168.1.101	5	250/500 kbps	2000/4000 kbps	Q	20	

Done!

Now you and your roommate have an independent bandwidth.

Network Security

This chapter guides you on how to protect your home network from unauthorized users by implementing these three network security functions. You can block or allow specific client devices to access your wireless network using MAC Filtering, or using Access Control for wired and wireless networks, or you can prevent ARP spoofing and ARP attacks using IP & MAC Binding.

- MAC Filtering
- Access Control
- IP & MAC Binding

6.1. MAC Filtering

This function exploits the uniqueness of the MAC (Medium Access Control) address, a unique 12-digit hexadecimal address (for example, D8:5D:4C:B4:46:EA) of every network device, to determine if the device can or cannot access your wireless network.

I want to: Prevent unauthorized users from accessing my wireless network by utilizing the network device's MAC address and IP address.
 For example, I have a computer that is connected to my wireless network. Now, an unknown device (an intruder) is also using my wireless network, which affects my Internet speed. I would like to control my wireless network with the following capabilities:
 My computer is always allowed to access the wireless network.
 The unknown device is not allowed to access the wireless network.

• I don't have to keep changing my wireless password as often.

How can I1. Visit http://tplinkmodem.net, and log in with the password
you set for the router.

2. Go to Advanced > Wireless > MAC Filtering and enable Wireless MAC Filtering.

TP-LINK	Quick Setup	Basic	Advance	ed	C) Log out	* Reboot				
🛆 Status	Settings									
Operation Mode	Enable Wireless MAC F	filtering:								
Network	Filtering Rules Select a filtering rule:									
E IPTV										
Wireless										
Wireless Settings	Devices List									
WPS				Đ	Add 😑 Delet	e				
MAC Filtering	ID MAC AG	ldress Descri	ption	Enable	Modify					
Wireless Schedule										
Statistics	Devices Online									
Advanced Cattings				🕝 R	efresh 🚫 Bloc	k				
Advanced Settings	ID Device	Name IP Address	MAC Address	s Co	onnection Type					
ନ୍ତ୍ର Guest Network	1 WIN7	7-PC 192.168.0.100	14:CC:20:86:A0	1:D3	Wireless					
NAT Forwarding	2 android-be e86d	ec84684d 192.168.0.101 d53	78:E8:B6:9A:58	:21	Wireless					

3. Select the filtering rule to either block (recommended) or allow the device(s) in the list.

To block specific device(s)

- 1) Select Block wireless access from the devices in the list below 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 List automatically.

To allow specific device(s)

- 1) Select Allow wireless access only from the devices in the list below and click Save.
- 2) Click Add.

Dev	ices	List			
				.	Add 😑 Delete
	ID	MAC Address	Description	Enable	Modify
	MAC Address:		14:CC:20:86:A0:D3		
	Des	cription:	Му РС		
			🗹 Enable this Entry		
				Cancel	ок

- 3) Enter the MAC Address (You can copy and paste the MAC Address from Devices Online list if the device is connected to your wireless network) and enter the Description of the device.
- 4) Select the checkbox to enable this entry, and click OK.

Done! Now MAC Filtering is implemented to protect your wireless network.

6.2. Access Control

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

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

How can I do that?

- 1. Visit *http://tplinkmodem.net*, and log in with the password you set for the router.
- **2.** Go to Advanced > Security > Access Control and enable Access Control.

TP-L	INK	Quick S					Advanced	CO Log out	* Reboot	
		Access	Control							
Net	work	Access Co	ntrol:							
हि IPT	V	Access	Mode							
Mir Wir	eless	Default Ac	cess Mod	e: 🖲 Blad	cklist					
<u>የ</u> ያ Gue	est Network			🔘 Wh	itelist					
	Forwarding	Save								
Ø USE	3 Settings	Devices	III DIACH					🕽 Add 🖨 Delete		
<u>An</u> Par	ental Controls		ID	Device Na	ame	MAC Address		Modify		
↓ † Ban	ndwidth Control									
🔒 Sec	urity	Devices	Online				0	Refresh 🚫 Block		
Access (Control		ID	Device Name	IP Ad	idress	MAC Address	Connection Type		
IP & MA	C Binding		1	WIN7-PC	192.16	8.1.100	D4:3D:7E:BF:61:5F	Wired		
<i>6</i> 3 <i>c</i>			2	64en	192.16	8.1.101	94:DE:80:C1:DB:EF	Wired		
Sys	tem Ioois		3	NC250	192.16	8.1.103	06:18:78:00:00:07	Wired		

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

To block specific device(s)

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

To allow specific device(s)

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

Devices i	n Whiteli	st					
						🕀 Add 😑 Delete	
	ID	Device Name		MAC Address		Modify	
Devio	ce Name:		64en				
MAC	MAC Address:		94:DE:80: C1: DB:EF				
					Cancel	ОК	

- 3) Enter the Device Name and MAC Address (You can copy and paste the information from Devices Online table 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.

6.3. 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 I1. Visit http://tplinkmodem.net, and log in with the password
you set for the router.
 - 2. Go to Advanced > Security > IP & MAC Binding and enable IP & MAC Binding.

тр	-LINK	Quie	k Set	up	Basic	Advanced		O Log out	* Reboot			
۲	Network	Sett	ngs									
ŝ	IPTV	IP & N	IP & MAC Binding:									
1	Wireless	Bind	Binding List									
283	Guest Network		ID	MAC Address	IP Address	Status	Enable	Modify				
Ð	NAT Forwarding											
Ø	USB Settings	ARP	List									
££h	Parental Controls		TD	Device News			Refres	h 🚫 Bind				
μţ	Bandwidth Control		10	64en	94:DE:80:C1:DB:	EF 192.168.1.1	101 Unload	led <u> (</u>				
6	Security		2	WIN7-PC	D4:3D:7E:BF:61:5	5F 192.168.1.1	00 Unload	led 🔞				
Ac	cess Control		3	NC250	06:18:78:00:00:0	192.168.1.1	Unload	led 🔟				
IP	& MAC Binding											

3. Bind your device(s) according to your needs.

To bind the connected device(s)

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

To bind the unconnected device

1) Click Add.

Binding List						
				🔂 Ad	d 😑 Delete	
	ID	MAC Address	IP Address	Status	Enable	Modify
MAC Address:		ddress:	50:E5:49:1E:06:80			- -
	IP Address:		192.168.1.200			
		Σ	Z Enable			
				Cancel	OF	<

- 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.

IPTV

IPTV is the abbreviation of Internet Protocol Television. The service can only be delivered through the Internet, and our modem router provides a specific LAN port for IPTV.

By automatically seperating IPTV from Internet surfing, we guarantee you a high quality of video streaming and a high speed of Internet surfing.

I want to: Configure the modem router to enable Internet Protocol Television (IPTV) Services.

For example, I already bought IPTV service, but this service can only be delivered through the Internet. Therefore, I need to configure my modem router first.

How can I1. Visit http://tplinkmodem.net, and log in with the password
you set for the router.

2. Go to Advanced > IPTV to open the configuration page.

IPTV Settings						
IPTV:	Enable IPTV					
Specify a LAN port for IPTV con	nection and connect the set-	top box to this port.				
LAN Port:	🔿 LAN1 🔘 LAN2 🔿 LAN3					
Please set the PVC parameter	s for the IPTV connection.					
VPI:	8	(0-255)				
VCI:	81	(1-65535)				
		Save				

- 3. Click Enable IPTV to enable this function.
- **4.** Specify a LAN port for IPTV connection and connect the settop box to this port.
- **5.** Fill in PVC parameters (VPI and VCI). These parameters are provided by your IPTV service provider.
- 6. Click Save to make the settings effective.
- **Done!** Configurations needed on modem router is done now! You may need other configurations on your set-top box before enjoying your TV.

USB Settings

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

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

This chapter contains the following sections:

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

8.1. Local Storage Sharing

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

8.1.1. Access the USB disk

1. Connect Your USB Disk

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

Tips:

- If you use USB hubs, make sure no more than 4 devices are connected to the modem 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 or NTFS.
- Before you physically disconnect a USB device from the modem router, safely remove it to avoid data damage: Go to Advanced > USB Settings > Device Settings and click Safely 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 by referring to *Customize Your Settings*.
	> Method 1:
	Go to Computer > Network, then click the Network Server Name (ARCHER _D2 by default) in the Computer section. Note: Here takes Windows 7 as an example.
Windows	File Edit View Tools Help Organize Network and Sharing Center Add a printer Computer Computer (2) Desktop Downloads Downloads ARCHER_D2 Recent Places - Media Devices (1) Documents - Media Devices (1) Nusic Pictures Pictures - Network Infrastructure (1) Videos - Network Infrastructure (1) Videos - Network Infrastructure (1) Program (D:) Data (E:) Recover (F:) - Recover (F:)
	👊 Network
	> Method 2:
	1. Press Start (²)+ R on the keyboard (or select Start > Run)
	2. Type the server address \\tplinkmodem.net or ftp://tplinkmodem.net in the dialog box
	3. Click OK

	1.	Select Go > Connect to Server							
	2. Type the server address smb://tplinkmodem.net or ftp://tplinkmodem.net								
	 When prompted, select the Guest radio box Click Connect Note: If you have set up a username and a password to deny anonymous access to the USB dis you should select the Registered User radio box. To learn how to set up an account for t access, refer to <i>To Set up Authentication for Data Security</i>. 								
Мас									
pad	pad Use a third-party app for network files management.								

Tips:

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

8.1.2. 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://tplinkmodem.net*, then log in with the password you set for the modem router.
- 2. Select Basic > USB Settings > Sharing Access. Focus on the Folder Sharing section. Click the button to disable Share All, then click Add to add a new sharing folder.

Folder	Folder Sharing							
Share A	AII:						G	Add 😑 Delete
	ID	Folder Name	I	Folder Path	Media Sharing	Volume Name	Status	Modify
١	/olume	Name:		G:		•		
F	older	Path:		G:/My files			Browse	
F	older	Name:		Local_Access				
				Enable Authen	ntication			
				🗌 Enable Write A	Access			
				Enable Media	Sharing			
						Canc	el	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:
 - Enable Authentication: Tick 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 tick this check box, network clients can modify this folder.
 - Enable Media Sharing: Tick 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 modem router can share eight volumes at most. You can click Q on the page to detach the corresponding volume you do not need to share.

Device Settir	Device Settings							
Scan								
Kingston DataTr	aveller 62			⊖ Safely Remove				
ID	Volume Name	Capacity	Free Space	Active				
1	sda1	1.9 GB	569.2 MB	S				

> 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://tplinkmodem.net*, then log in with the password you set for the modem router.
- 2. Select Advanced > USB Settings > Sharing Access.

Sharing Account					
Prepare an account for sharing contents. You can use the login account or create a new one.					
Account:	Use Default Account				
	O Use New Account				
Username:	admin				
Password:	•••••	(Same as Login Password)			
		Save			

- 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.

Folder Sharing	
Share All:	
Enable Authentication:	

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

Folder Sharing								
Share All:								
	ID	Folder Name		Folder Path	Media Sharing	Volume Name	Status	Modify
V	olume	Name:		Select a folder		•		
Fo	older F	Path:					Browse	
Fo	older N	lame:						
				🗹 Enable Authent	ication			
				Enable Write Access				
				🗌 Enable Media Sl	naring			
						Cance	el	ок

> 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://tplinkmodem.net*, then log in with the password you set for the modem router.
- 2. Select Advanced > USB Settings > Sharing Access.
- **3.** Make sure Network Neighborhood is ticked, and enter a Network/Media Server Name as you like, such as MyShare, then click Save.

etwork/Media Se	erver Name: MyShare		
Enable	Access Method	Link	Port
	Media Server		
	Network Neighborhood	\\Arthur_020	
	FTP	ftp://192.168.1.1:21	21
	FTP(via Internet)	ftp://0.0.0.0:21	21

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

8.2. Remote Access via FTP Server

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

For example:

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

Note:

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

8.2.1. Access the USB disk

1. Connect Your USB Disk

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

Note:

- If you use USB hubs, make sure no more than 4 devices are connected to the modem 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 or NTFS.
- Before you physically disconnect a USB device from the modem router, safely remove it to avoid data damage: Select Advanced > USB Settings > Device Settings and click Safely 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://tplinkmodem.net*, then log in with the password you set for the modem router.
- 2) Select Advanced > USB Settings > Sharing Access.
- 3) Choose to use the default Account (admin) or use a new account and click Save.

Sharing Account							
Prepare an account for sharing contents. You can use the login account or create a new one.							
Account:	Use Default Account						
	O Use New Account						
Username:	admin						
Password:		(Same as Login Password)					
			Save				

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

Folder Sharing	
Share All:	
Enable Authentication:	

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

F	Folder Sharing								
	Share All	l:							🕂 Add 😑 Delete
		ID	Folder Name		Folder Path	Media Sharing	Volume Name	Status	Modify
	V	olume	Name:		Select a folder		•		
	Fo	older F	Path:					Browse	
	Fo	older N	Name:						
				[🗹 Enable Authent	ication			
					Enable Write Access				
					🗌 Enable Media Sl	naring			
							Cano	el	ок

3. Enable the FTP(via Internet)

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

Sharing Settings							
Network/Media S	Server Name:						
Enable	Access Method	Link	Port				
	Media Server						
	Network Neighborhood	100 feet, 200					
	FTP	ftp://192.168.1.1:21	21				
	FTP(via Internet)	ftp://59.40.2.243:21	21				
			Save				

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="" modem="" of="" router="" the="">:<port number=""> (such as ftp://59.40.2.243:21) or ftp://<domain modem="" 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.

Tips:

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

8.2.2. 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://tplinkmodem.net*, then log in with the password you set for the modem router.
- 2. Select Basic > 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.

Folder	Sha	ring						
Share A	II:						G	Add 😑 Delete
	ID	Folder Name	F	Folder Path	Media Sharing	Volume Name	Status	Modify
V	olume	Name:		G:		•		
F	older	Path:		G:/My files			Browse	
F	older	Name:		Remote_Acces	SS			
				🗹 Enable Auther	ntication			
				Enable Write	Access			
				🗌 Enable Media	Sharing			
						Canc	el	ОК

- 3. Select the Volume Name and Folder Path, then specify the Folder Name as you like.
- 4. Tick Enable Authentication. If you allow network clients to modify this folder, tick Enable Write Access.

5. Click OK.

Tips:

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

Device Settin	igs			
Scan				
Kingston DataTo	somher G2			😔 Safely Remove
ID	Volume Name	Capacity	Free Space	Active
1	sda1	1.9 GB	569.2 MB	S

8.3. 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 PS2/3/4.

8.3.1. Access the USB disk

1. Connect Your USB Disk

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

Note:

- If you use USB hubs, make sure no more than 4 devices are connected to the modem 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 or NTFS.
- Before you physically disconnect a USB device from the modem router, safely remove it to avoid data damage: Go to Advanced > USB Settings > Device Settings and click Safely Remove.

2. Access the Media Files on Your USB Disk

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



Pad • Use a third-party DLNA-supported player.

8.3.2. 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://tplinkmodem.net*, then log in with the password you set for the modem router.
- 2. Select Basic > 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.

Folder	r Sha	iring						
Share A	All:						c	Add 😑 Delete
	ID	Folder Name	I	Folder Path	Media Sharing	Volume Name	Status	Modify
١	/olume	Name:		G:		•		
F	older	Path:		G:/My Music			Browse	
F	older	Name:		ShareMusic				
				Enable Auther	ntication			
				Enable Write A	Access			
				🗹 Enable Media	Sharing			
						Cano	el	ОК

4. Select the Volume Name and Folder Path, then enter a Folder Name as you like.

5. Tick Enable Media Sharing and click OK.

Tips:

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

Device Settin	igs			
Scan				
Kingston DataTra	water 62			Safely Remove
ID	Volume Name	Capacity	Free Space	Active
1	sda1	1.9 GB	569.2 MB	S

> To Specify the Media Server

You can also modify the media server name or disable the feature of Media Sharing as needed.

- 1. Visit *http://tplinkmodem.net*, then log in with the password you set for the modem router.
- 2. Select Advanced > USB Settings > Sharing Access.
- **3.** Enter a Network/Media Server Name as you like, such as MyShare. You can deselect the check box of Media Server to disable the media server feature.

Sharing Setti	ings			
Network/Media So	erver Name:	MyShare		
Enable	Access N	1ethod	Link	Port
	Media S	erver		

4. Click Save.

8.4. Printer Sharing

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

Note:

Printers unlisted on this page may be incompatible with the modem router: *http://www.tp-link.com/compatible/print-server/*.

1. Install the Driver of the Printer

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

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

2. Connect the Printer

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

3. Install the TP-LINK USB Printer Controller Utility

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

- 1) Visit http://www.tp-link.com/app/usb/.
- 2) Click PC Utility (for Windows users) or Mac Utility to download the installation file and uncompress it.



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

4. Access the Printer

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



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

🛹 TP-LINK USB	Printer Control	ler			
System Tools	About				
Configure Server	Auto-Connect for Printing	Connect for Scanning	Disconnect	Request to Connect	
	80-19216811				
🌺 MFF	P - Caral - MG620	Diseries			

Windows





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



Windows

000	TP-Link USB Printer Controller
1 Auto 2 % %	÷
MFP - C	+ Set Auto-Connect Printer
	- Delete Auto-Connect Printer
	Close



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

USB Settings

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

Windows

000	TP-Link USB Printer Controller
N 20 20 20	· 🗞
▼ ♥ MFP N	Add to Auto-Connect Printer List
	Installed Printer List
	10.10.180
	MG6200 series
	Stylus Photo 720-f97c12 Deskjet 1000 J110 series Deskjet 1000 J110 series-1
	Apply Cancel

Mac

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



Windows

00	TP-	Link USB Printer Controller	r
Auto 7	🕽 🛰 🎲		
V 🗢 10-M 8040	192 198 1.1		
🍒 MFP - 🔤	- MG6200 series [Auto-Co	onnected Printer]	
		(S)	

Mac

Tips:

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

Chapter 9

Parental Controls

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

How can I

do that?

I want to: control what types of websites my children or other home network users can visit and even the time 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) on weekdays and not other time.

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

ools	> Tim	e Settings"			🕑 Refrest	n 🔂 Add	Delet
	ID	Device Name	MAC Address	Internet Access Time	Description	Status	Modify
				1000	229	120	

3. Click Add.

ID	Device Name	MAC Addre	255	Internet Access Time	Descripti	ion	Status	Refresh	Hodify	elete
Dev	vice Name:		6	4en		Vie	ew Existir	ng Devic	e	
MA	C Address:		9	4:DE:80:C1:	DB:EF					
Inte	ernet Access Tir	ne:	C							
Des	scription:									
			V	Enable						
							Ca	ancel	ОК	

- **4.** Click View Existing Devices, and select the device to be controlled. Or, enter the Device Name and MAC Address manually.
- **5.** Click the ⁽¹⁾ icon to set the Internet Access Time. Drag the cursor over the appropriate cell(s) and click OK.



- 6. Enter a Description for the entry.
- 7. Select the checkbox to enable this entry and click OK.
- 8. Select the restriction mode.
 - 1) In Blacklist mode, the controlled devices cannot access any websites containing the specified keywords during the Internet Access Time period.
 - 2) In Whitelist mode, the controlled devices can only access websites containing the specified keywords during the Internet Access Time period.

Content Restriction		
Restriction	🔿 Blacklist 🖲 Whitelist	
🔂 Add a New Keyword		
www.tp-link.com	wikipedia 😑	
	Save	

) or a web w or block rd.
llow access
ess, do not
d and click
according
5

Chapter 10

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 assign network authorities and bandwidth for guests to ensure network security, privacy, and fluency.

- Create a Network for Guests
- Customize Guest Network Options

10.1. Create a Network for Guests

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

Wireless Settings		
	O Disable Guest Network	
Wireless Network 2.4GHz:	Enable	
Wireless Network Name (SSID):	My Guests Hide SSID	
Security:	○ None	
Version:	O Auto WPA2-PSK	
Encryption:	O Auto O TKIP (AES	
Password:	Password_1234	
Wireless Network 5GHz:	C Enable	
		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!

Tips:

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

10.2. Customize Guest Network Options

- 1. Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router.
- 2. Go to Advanced > Guest Network.

Settings	
See each other:	☑ Allow guests to see each other
Access my local network:	Allow guests to access my local network
USB Storage Sharing:	Allow guests to access my USB storage sharing
Bandwidth Control:	Enable guest network bandwidth control
	Save

- 3. Assign network authorities and bandwidth according to your needs.
 - 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.

Allow guests to access my USB storage sharing

Select this checkbox to allow the clients in your guest network to access your router's USB storage sharing.

• Enable guest network bandwidth control

Select this checkbox to assign the upstream and downstream bandwidth of the guest network. This option is available only when Bandwidth Control is enabled on the Advanced > Bandwidth Control page.

Bandwidth Control:	🗹 Enable guest network ba	nd	width control
Upstream (kbps):	100	-	200
Downstream (kbps):	100	-	200

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

Tips:

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

Chapter 11

NAT Forwarding

Modem 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 protects the local network by hiding IP addresses of the devices. However, it also brings about the problem that external host cannot initiatively communicate with the specified device in the local network.

With forwarding feature the modem 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 modem 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

11.1. 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 (192.168.1.100). I hope that my friends in the Internet can visit my website in some way. The PC is connected to the modem router with the WAN IP address 218.18.232.154.



How can I do that?

- **1.** Assign a static IP address to your PC, for example 192.168.1.100.
 - 2. Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router.
 - **3.** Go to Advanced > NAT Forwarding > Virtual Servers, click Add.

Done!

١	/irtı	ial S	ervers							
									🕂 Add	🖨 Delete
		ID	Service Type	External Port		Internal IP	Internal Port	Protocol	Status	Modify
		Inte	rface Name	::	pp	opoe_0_38_1_d	•			
		Serv	vice Name:		H	TTP		View Exis	sting Applic	ations
		Exte	ernal Port:		80)		(XX-XX or)	XX)	
		Inte	rnal IP:		19	92.168.1.100				
		Inte	rnal Port:		80)		(XX or Blan	k, 1-6553	5)
		Prot	ocol:		т	CP	•			
				E	✓ E	nable this Entry				
							C	ancel	ОК	

- **4.** Click View Existing Applications, and choose HTTP. The external port, internal port and protocol will be automatically filled with contents. Enter the PC's IP address 192.168.1.100 in the Internal IP field.
- 5. Click OK to save the settings.
- 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 needs.
- 3. You can add multiple virtual server rules if you want to provide several services in a modem router. Please note that the External Port cannot be overlapped.

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

- Tips:
- 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 by DDNS, go to Set Up a Dynamic DNS Service Account for more information. 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.

11.2. 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 modem router can record the IP address of the host. When the data from the Internet return to the external ports, the modem 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://tplinkmodem.net*, and log in with the password you set for the modem router.
- 2. Go to Advanced > NAT Forwarding > Port Triggering and click Add.

Port	: Trig	Igering							
								🔂 Add	🖨 Delete
	ID	Application	Triggering	Port	Triggering Protocol	External Port	External Protocol	Status	Modify
	Inte	rface Name:		pp	ppoe_0_38	_1_d	*		
	Appl	ication:		M	SN Gamin	g Zone	View Exis	ting Applic	ations
	Trigg	gering Port:		47	7624		(XX)		
	Trigg	gering Protocol:		т	CP	•	r		
	Exte	ernal Port:		23	300-2400,2	28800-29000	(XX or XX-)	(X or XX,XX	(-XX)
	Exte	ernal Protocol:		т	CP	•	•		
				✓ E	nable this E	intry			
							Cancel	ОК	

- **3.** Click View Existing Applications, and select the desired application. The triggering port and protocol, the external port and protocol will be automatically filled with contents. Here we take application MSN Gaming Zone as an example.
- 4. Click OK to save the settings.
- Tips:
- 1. You can add multiple port triggering rules according to your network need.
- 2. 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.

11.3. 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, like 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.

l want to:	make the home PC join the Internet online game without port restriction.
	For example, due to some port restriction, when playing the online games, you can log in but cannot join a team with other players. To solve this problem, set your PC as a DMZ with all ports opened.
How can l do that?	 Assign a static IP address to your PC, for example 192.168.1.100.
	2. Visit <i>http://tplinkmodem.net</i> , and log in with the password you set for the modem router.

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

DMZ		
DMZ:	☑ Enable DMZ	
DMZ Host IP Address:	192,168,1,100	C
		Save

- **4.** Enter the IP address 192.168.1.100 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.

11.4. 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 modem 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 modem router which has connected to the Internet to play online games, UPnP will send request to the modem 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://tplinkmodem.net*, and log in with the password you set for the modem router;
- 2. Go to Advanced > NAT Forwarding > UPnP and toggle on or off according to your needs.

JPNP					
JPnP:					
JPnP	Service List				Refree
JPnP Client N ID	Service List umber: 0 Service Description	External Port	Protocol	Internal IP Address	Refree Interna Port

Chapter 12

Specify Your Network Settings

This chapter introduces how to change the default settings or adjust the basic configuration of the modem router using the web-based management page.

This chapter contains the following sections:

- LAN Settings
- Wireless Settings
- Set Up a Dynamic DNS Service Account
- Interface Grouping
- Create Static Routes
- Set up a VPN Connection
- Set Up the IPv6 Tunnel

12.1. LAN Settings

12.1.1. Change the LAN IP Address

The modem router is preset with a default LAN IP 192.168.1.1, 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.

Follow the steps below to change your IP address.

- 1. Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router.
- 2. Go to Advanced > Network > LAN Settings page and select IPv4.

IP Version:	● IPv4 ○ IPv6	
MAC Address:	40:16:9F:BF:51:0C	
IP Address:	192.168.1.1	
Subnet Mask:	255.255.255.0	•
IGMP Snooping:	🗹 Enable	
Second IP:	Enable	

- 3. Type in a new IP Address appropriate to your needs.
- 4. Select the Subnet Mask from the drop-down list. The subnet mask together with the IP address identifies the local IP subnet.
- 5. Keep IGMP Snooping as enabled by default. IGMP snooping is the process of listening to IGMP (Internet Group Management Protocol) network traffic. The function prevents hosts on a local network from receiving traffic for a multicast group they have not explicitly joined.
- **6.** You can configure the modem router's Second IP and Subnet Mask for LAN interface through which you can also access the web management page.
- 7. Leave the rest of the default settings as they are.
- 8. Click Save to make the settings effective.

12. 1. 2. Use the Modem Router as a DHCP Server

You can configure the modem router to act as a DHCP server to assign IP addresses to its clients. To use the DHCP server function of the modem router, you must configure all computers on the LAN to obtain an IP Address automatically.

Follow the steps below to configure DHCP server.

- 1. Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router.
- 2. Go to Advanced > Network > LAN Settings page and select IPv4.

DHCP:	🗹 Enable	
	DHCP Server O DHCP Rela	зу
IP Address Pool:	192.168.1.100 -	192.168.1.199
Address Lease Time:	1440	minutes. (1-2880. The default value is 1440.)
Default Gateway:	192.168.1.1	(optional)
Default Domain:		(optional)
Primary DNS:	0.0.0.0	(optional)
Secondary DNS:	0.0.0	(optional)
		Save

- 3. Select DHCP to enable the DHCP function and select DHCP Server.
- 4. Specify the IP Address Pool, the start address and end address must be on the same subnet with LAN IP. The modem router will assign addresses within this specified range to its clients. It is from 192.168.1.100 to 192.168.1.199 by default.
- 5. Enter a value for the Address Lease Time. The Address Lease Time is the amount of time in which a DHCP client can lease its current dynamic IP address assigned by the modem router. After the dynamic IP address expires, the user will be automatically assigned a new dynamic IP address. The default is 1440 minutes.
- 6. Keep the rest of the settings as default and click Save to make your settings effective.
- Note:
- 1. The modem router can be configured to work as a DHCP Relay. A DHCP relay is a computer that forwards DHCP data between computers that request IP addresses and the DHCP server that assigns the addresses. Each of the device's interfaces can be configured as a DHCP relay. If it is enabled, the DHCP requests from local PCs will be forwarded to the DHCP server that runs on WAN side.
- 2. You can also appoint IP addresses within a specified range to devices of the same type by using Condition Pool feature. For example, you can assign IP addresses within the range (192.168.1.50 to192.168.1.80) to Camera devices, thus facilitating the network management. Enable DHCP feature and configure the parameters according to your actual situation on Advanced > Network > LAN Settings page.

12.1.3. Reserve LAN IP Addresses

You can view and add a reserved address for a client. When you specify an IP address for a device on the LAN, that device will always receive the same IP address each time when it accesses the DHCP server. If there are some devices in the LAN that require

permanent IP addresses, please configure Address Reservation on the router for the purpose.

Follow the steps below to reserve an IP address for your device.

- 1. Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router.
- 2. Go to Advanced > Network > LAN Settings page and select IPv4.
- **3.** Scroll down to locate the Address Reservation table and click Add to add an address reservation entry for your device.

Address	Reservation				
				🕂 Add	🖨 Delete
	MAC Address	Reserved IP	Group	Enable	Modify
MAC	CAddress:				
Rese	erved IP:				
Grou	up:	Default	•		
		Enable this entry			
			Cancel	ок	

- 4. Enter the MAC address of the device for which you want to reserve IP address.
- 5. Specify the IP address which will be reserved by the router.
- 6. Check to Enable this entry and click OK to make the settings effective.

12.2. Wireless Settings

12.2.1. Specify Basic Wireless Settings

The modem 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.

Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router. Go to Basic > Wireless page.

Wireless Settings		
Wireless Network 2.4GHz:	🗹 Enable	
Wireless Network Name (SSID):	TP-LINK_510C	Hide SSID
Password:	62292863	
Wireless Network 5GHz:	🗹 Enable	
Wireless Network Name (SSID):	TP-LINK_510C_5G	Hide SSID
Password:	62292863	
		Save

> To enable or disable the wireless function:

Enable the Wireless Network 2.4GHz or 5GHz. If you don't want to use the wireless function, just uncheck the box. If you disable the wireless function, all the wireless settings won't be effective.

> To change the wireless network name (SSID) and wireless password:

Enter a new SSID using up to 32 characters. The default SSID is TP-LINK_XXXX 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:

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

To change the mode or channel:

Go to Advanced > Wireless > Wireless Settings page and select the wireless network 2.4GHz or 5GHz.

Mode: Select the desired mode.

- 802.11n only: Select only if all of your wireless clients are 802.11n devices.
- 802.11gn mixed: Select if you are using both 802.11g and 802.11n wireless clients.
- 802.11bgn mixed: Select if you are using a mix of 802.11b, 11g, and 11n wireless clients.

Note: When 802.11n only mode is selected, only 802.11n wireless stations can connect to the modem router. It is strongly recommended that you select 802.11bgn mixed, and all of 802.11b, 802.11g, and 802.11n wireless stations can connect to the modem router.

- 802.11ac/n mixed (5Ghz): Select if you are using both 802.11ac and 802.11n wireless clients.
- 802.11a/n/ac mixed (5Ghz): Select if you are using a mix of 802.11a, 802.11n and 802.11ac wireless clients. It is strongly recommended that you select 11a/n/ac mixed.

Channel: Select the channel you want to use from the drop-down list. This field determines which operating frequency will be used. It is not necessary to change the wireless channel unless you notice interference problems with another nearby access point.

Channel Width: Select the channel width from the drop-down list. The default setting is Automatic, which can adjust the channel width for your clients automatically.

- > To change the security option:
- 1. Go to Advanced > Wireless > Wireless Settings page.
- 2. Select the wireless network 2.4GHz or 5GHz.
- **3.** Select an option from the Security drop-down list. The router provides four options, None, WPA/WPA2 Personal (Recommended), WPA/WPA2 Enterprise, WEP. WPA2 uses the newest standard and the security level is the highest. We recommend you don't change the default settings unless necessary.

12. 2. 2. Use WPS for Wireless Connection

You can use WPS feature to add a new wireless device to your existing network quickly.

Method 1 Use the Wi-Fi Protected Setup Button

Use this method if your client device has a Wi-Fi Protected Setup button.

1. Press the WPS/RESET button on the back panel of the modem router for 1 second.



- 2. Press the WPS button of the client device directly.
- 3. The WPS LED flashes for about 3 minutes during the WPS process.
- **4.** When the WPS LED is on, the client device has successfully connected to the modem router.

Method 2 Enter the client device's PIN on the modem router

- 1. Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router.
- 2. Go to Advanced > Wireless > WPS page. Select the wireless network 2.4GHz or 5GHz according to your wireless client.

WPS Settings	2.4GHz 5GHz
Enable WPS:	
Select a setup method: O Push Button (Recommended)	
PIN Code Enter the client's PIN:	
Connect	

- 3. Keep the default WPS status as Enabled and select the PIN Code radio button.
- **4.** Enter the client device's PIN in the field on the above WPS screen. Then click the Connect button.
- **5.** "Connect successfully" will appear on the above screen, which means the client device has successfully connected to the modem router.

Method 3 Enter the modem router's PIN on your client device

Use this method if your client device asks for the modem router's PIN.

- 1. Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router.
- 2. Go to Advanced > Wireless > WPS page. Select the wireless network 2.4GHz or 5GHz according to your wireless client.

Router's PIN			2.4GHz	z 5GHz	
Other devices can connect to the router using the router's WPS PIN code.					
Router's PIN:					
Current PIN:	62292863	Generate	Restore		
- **3.** Keep the Router's PIN status as enabled. Take a note of the Current PIN of the modem router. You can also click the Generate button to get a new PIN.
- **4.** On the client device, enter the modem router's PIN. (The default PIN is also labeled on the bottom of the modem router.)
- 5. The WPS LED flashes for about three minutes during the WPS process.
- **6.** When the WPS LED is on, the client device has successfully connected to the modem router.

Note:

- 1. The WPS LED on the modem router will light green for five minutes if the device has been successfully added to the network.
- 2. The WPS function cannot be configured if the wireless function of the modem router is disabled. Please make sure the wireless function is enabled before configuring the WPS.

12.2.3. Schedule Your Wireless Function

You can automatically turn off your wireless network (both 2.4GHz and 5GHz) at time when you do not need the wireless connection.

- 1. Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router.
- 2. Go to Advanced > Wireless > Wireless Schedule page.
- **3.** Select the 2.4GHz wireless network to configure. Toggle on the button to enable the Wireless Schedule feature.

me Set	tings"	criedule is Dase	a on the time	or the Router.	rne une can be	s set in Syste	sm 100is ->
nable V	/ireless Sche	dule					
	Que	Man	Tue	Mo d	Thu	F -3	Oat
0:00	Sun.	won.	Tue.	wed.	inu.	FII.	581.
1:00							
2:00							
3:00							
4:00							
5:00							
6:00							
7:00							
B:00							
9:00							
0:00							
1:00							
2:00							
3:00							
4:00							
5:00							
6:00							
7:00							
8:00							
9:00							
0:00							
1:00							
2:00							

4. Set the time. Drag the cursor to cover the time area and click Save to make the settings effective. The selected time will be in green.

5. Repeat steps 3 and 4 to set time for 5GHz wireless network.

Note:

- 1. If you just set time for one wireless band, the other wireless band is still always on, so set time for both of the two bands to schedule your whole wireless network.
- 2. The wireless LED (2.4GHz , 5GHz) will turn off if the corresponding wireless network is disabled.
- 3. The wireless network will be automatically turned on after the time period you set.

12.2.4. View Wireless Information

> To view the detailed wireless network settings:

- 1. Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router.
- 2. Go to Advanced > Status page. You can see the Wireless box.
- 3. Select 2.4GHz or 5GHz to view the wireless details.

🔊 Wireless 🛜	2.4GHz 5GHz
Network Name:	TP-LINK_510C
Wireless Radio:	On
Mode:	802.11bgn mixed
Channel Width:	Auto
Channel:	Auto(9)
MAC Address:	40:16:9F:BF:51:0C

Tips: You can also see the wrieless details by clicking the router icon on Basic> Network Map.

- > To view the detailed information of the connected wireless clients:
- 1. Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router.
- 2. Go to Advanced > Wireless > Statistics page.
- 3. You can view the detailed information of the wireless clients, including its connected wireless band and security option as well as the packets transmitted.
- **Tips:** You can also see the wrieless details by clicking the wireless clients icon on **Basic**> Network Map.

12.2.5. Advanced Wireless Settings

Advanced wireless settings are for those who have a network concept. If you are not familiar with the settings on this page, it's strongly recommended that you keep the provided default values; otherwise it may result in lower wireless network performance.

- 1. Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router.
- 2. Go to Advanced > Wireless > Advanced Settings page.

(25-1000)
5 (1-2346)
(1-255)
seconds
ble
ble
ble
9

- Beacon Interval: Enter a value between 25 and 1000 in milliseconds to determine the duration between which beacon packets are broadcasted by the router to synchronize the wireless network. The default is 100 milliseconds.
- RTS Threshold: Enter a value between 1 and 2346 to determine the packet size of data transmission through the router. By default, the RTS (Request to Send) Threshold size is 2346. If the packet size is greater than the preset threshold, the router sends Request to Send frames to a particular receiving station and negotiates the sending of a data frame, or else the packet will be sent immediately.
- DTIM Interval: Enter a value between 1 and 255 to determine the interval of the Delivery Traffic Indication Message (DTIM). 1 indicates the DTIM Interval is the same as Beacon Interval.
- Group Key Update Period: Enter the number of seconds to control the time interval for the encryption key automatic renewal. The default is 0, indicating no key renewal.
- Enable WMM: This feature guarantees the packets with high-priority messages being transmitted preferentially. WMM is enabled compulsively under 802.11n or 802.11ac mode. It is strongly recommended to enable WMM.
- Enable Short GI: This feature is enabled by default and recommended to increase the data capacity by reducing the Guard Interval (GI) time.
- AP Isolation: Select this checkbox to enable the AP Isolation feature that allows you to confine and restrict all wireless devices on your network from interacting with each other, but still able to access the Internet. AP isolation is disabled by default.
- WDS: Select this checkbox to enable the WDS (Wireless Distribution System) Bridging feature to allow the router to bridge with another access point (AP) in a wireless local area network (WLAN). Refer to *Appendix B: Troubleshooting* for detailed instructions.

12.3. Set Up a Dynamic DNS Service Account

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

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

To set up DDNS, please follow the instructions below:

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

Dynamic DNS Sett	ngs
Service Provider:	Dyndns O NO-IP Go to register
Username:	lisaddns
Password:	•••••
Domain Name:	lisa.ddns.net
Login Logo	ut Disconnected
	Save

- **4.** Enter the username, password and domain name of the account (such as lisa.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.

12.4. Interface Grouping

I want to: Divide my devices connected to the modem router into different groups and disallow devices' cross-group communication. For example, in my house, devices connected to LAN1 and LAN3 are for work, while others for entertainment. I want to isolate working devices from others while keep all devices' access to the Internet.

How can I do that?

- 1. Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router.
- 2. Go to Advanced > Network > Interface Grouping to open the configuration page where some interfaces can be grouped together.

Interface Groupi	ing		
Note: You cannot dis Enable VLAN:	able VLAN when IPTV is enable	d.	+ Add
Group	LAN Interface	WAN Interface	Delete
	LAN4	br_8_35_0	
	LAN3		
Default	LAN2		
Derault	LAN1		
	Wi-Fi_2.4G		
	Wi-Fi_5G		

3. Click to Add a new group.

Group Name:	For Work		
Ava	ilable LAN		Available WAN
LAN4 LAN3 LAN2 LAN2 LAN1 Wi-Fi_2.4G Wi-Fi_5G		□ br_8_35_0	

- 4. Name the group.
- 5. Check the boxes of LAN1 and LAN3 in Available LAN. Here Wi-Fi 2.4G network and Wi-Fi 5G network are viewed as a LAN interface respectively.
- **6.** Click Enable Group Isolation to isolate working devices and disallow other devices from communicating with them.
- 7. Click OK to save the settings.

Done! Now your working devices connected to LAN1 and LAN3 are in an isolated group!

Note: VLAN function is enabled by default. You cannot disable it when IPTV is enabled.

12.5. Create Static Routes

A static route is a pre-determined path that network information must travel to reach a specific host or network. Data from one point to another will always follow the same path regardless of other considerations. Normal Internet usage does not require this setting to be configured.

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 server. 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.



nl	1. Make sure the routers use different LAN IP addresses on the
?	same subnet. Disable Router 2's DHCP function.

- 2. Visit *http://192.168.1.1*, and log in with the password you set for the modem router.
- **3.** Go to Advanced > Network > Advanced Routing. Select your current WAN Interface and click Save.

How can I do that?

	Gatewa	y Settings				IPv4 IPv6
Select a W	AN interfa	ce as the system d	lefault gateway.			
Select WAI	N Interface	e:	pppoe_8_35_1_	_d 🔻		
						Save
Static R	outing				• A	.dd 😑 Delet
Static R	outing ID	Destination IP	Subnet Mask	Gateway	+ A Enable	idd 😑 Delet Modify

4. Click Add to add a new static routing entry. Finish the settings according to the following explanations:

Static R	outing					
					0	Add 😑 Delete
	ID	Destination IP	Subnet Mask	Gateway	Enable	Modify
Des	tination IP		172.30.30.1			
Sub	onet Mask:		255.255.255.255			
Gat	eway:		192.168.1.2			
Inte	erface:		LAN	•		
			🗹 Enable this entry			
				Cano	cel	ок

- Destination IP: The destination IP address that you want to assign to a static route. This IP address cannot be on the same subnet with the WAN IP or LAN IP of the router. In the example, the IP address of the company network is the destination IP address, so here enters 172.30.30.1.
- Subnet Mask: Determines the destination network with the destination IP address. If the destination is a single IP address, enter 255.255.255.255; otherwise, enter the subnet mask of the corresponding network IP. In the example, the destination network is a single IP, so here enters 255.255.255.255.
- 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 192.168.1.2.

- 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.
- 5. Check to enable this entry and click OK to save the settings.

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

12.6. Set up a VPN Connection

VPN (Virtual Private Network) is a private network established across the public network, generally via the Internet. However, the private network is a logical network without any physical network lines, so it is called Virtual Private Network.

With the wide application of the Internet, more and more data are needed to be shared through the Internet. Connecting the local network to the Internet directly, though can allow the data exchange, will cause the private data to be exposed to all the users on the Internet.

The VPN (Virtual Private Network) technology is developed and used to establish the private network through the public network, which can provides a secure communication to a remote computer or remote network, and guarantee a secured data exchange. IPSec is one of the major implementations of VPNs.

I want to: Establish an IPSec VPN tunnel to connect two LANs via Internet so that the hosts in different remote LANs are able to communicate with each as if they are in the same LAN.

For example, I am the network administrator of a regional office, I need to let my office staff can visit the headquarter's servers and resources, and vice versa. I know that the modem router in my office and the device in headquarter both support IPSec VPN feature, so I decide to set up a VPN connection with the headquarter office.

The following diagram is a typical VPN topology. Here Site A refers to regional office's network (local network). And Site B refers to the headquarter's network (remote network) which I want to connect.

How can I

do that?



- Make sure of the topology you want to build and record site A (local network) and site B (remote network)'s LAN IP and WAN IP.
 - 2. Configuration on site A (local network).
 - 1) Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router.
 - 2) Go to Advanced > Network > IPSec VPN to open the configuration page. Click Add to set up a VPN tunnel.

Ι	PS	Sec Settings								
D)ea	ad Peer Detection:								
							O	Add 😑	Delete	
[Connection Name	Remote Gateway	Local A	ddress	Remote Address	Status	Enable	Modify	
				-						
		IPSec Connection	Name:		VPN1					
		Remote IPSec Ga	teway (URL):		219.13	4.112.247		Site B's W/	AN IP	
		Tunnel access fro	om local IP addresse	s:	Subne	et Address	•			
		IP Address for VP	PN:		192.16	8.1.0		LAN IP ran	ge of Site	A
		Subnet Mask:			255.25	5.255.0				
		Tunnel access fro	om remote IP addres	ses:	Subne	et Address	•			
		IP Address for VP	PN:		192.16	8.2.0		LAN IP ran	ige of Site	B
		Subnet Mask:			255.25	5.255.0				
		Key Evebapae Ma	thad		A ha (_			
		Key Exchange Me	-the de		Auto(IKE)	•			
		Authentication Me	ethod:		Pre-S	hared Key	•			
		Pre-Shared Key:			psk_ke	y.				
		Perfect Forward 9	Secrecy:		Enabl	8	*			
		O Advanced								
						Cancel		ОК		

- 3) In the IPSec Connection Name column, specify a name.
- 4) In the Remote IPSec Gateway (URL) column, Enter Site B's WAN IP address.
- 5) To configure Site A's LAN:

In the Tunnel access from local IP addresses column, here we take Subnet Address as an example. Then input the LAN IP range of Site A in the IP Address for VPN column, and input Subnet Mask of Site A.

6) To configure Site B's LAN:

In the Tunnel access from local IP addresses column, here we take Subnet Address as an example. Then input the LAN IP range of Site B in the IP Address for VPN column, and input Subnet Mask of Site B.

7) Select the Key Exchange Method for the policy. We select Auto(IKE) here.

8) Enter the Pre-Shared Key for IKE authentication. Then keep Perfect Forward Secrecy enabled. Note:

The key should consist of visible characters without blank space. Make sure Site A and Site B use the same key.

- 9) Leave the Advanced Settings as default value. Then click OK to save.
- **3.** Configuration on Site B (remote network). Refer to step 2 configuration on Site A and make sure that Site A and Site B use the same pre-shared keys and Perfect Forward Secrecy settings.
- **4.** The Status column will change to UP if the VPN connection has been set up successfully.
- **5.** Check the VPN connection. You can ping site B' LAN IP from your computer in site A to verify that the IPSec VPN connection is set up correctly.

▶ Tips: To check the VPN connection, you can do the following. On the host in Site A, press [Windows Logo] + [R] to open Run dialog. Input "cmd" and hit OK.

Run	? 🛛
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	cmd 🔽
	OK Cancel Browse

a. In the CLI window, type in "ping 192.168.2.x" ("192.168.2.x" can be IP address of any host in Site B). Then press [Enter].



If Ping proceeds successfully (gets replies from host in Site B), the IPSec connection is working properly now.

Now IPSec VPN is implemented to establish a connection.

Done!

Note:

- 1. The product supports a maximum of ten simultaneous connections.
- 2. If one of the site has been off line for a while, for example, if Site A has been disconnected, on Site B you need to click Disable and then click Enable after Site A back on line in order to re-establish the IPSec tunnel.

12.7. Set Up the IPv6 Tunnel

The IPv6 Tunnel feature helps you obtain IPv6 resources based on an IPv4 WAN connection or vice versa.

IPv6 Tunnel is a transition mechanism that enables IPv6-only hosts to reach IPv4 services or vice versa and allows isolated IPv6 hosts and networks to reach each other over IPv4-only infrastructure before IPv6 completely supplants IPv4. It is a temporary solution for networks that do not support native dual-stack, where both IPv6 and IPv4 run independently.

The modem router provides three tunneling mechanisms: 6to4, 6rd and DS-Lite. The way to set up 6rd and DS-Lite tunnel are similar.

12.7.1. Use the Public IPv6 Tunnel Service-6to4

The 6to4 tunnel is a kind of public service. If there is any 6to4 server in your network, you can use this mechanism to access IPv6 service. If your ISP provides you with an IPv4-only connection but you want to visit IPv6 websites, you can try to set up a 6to4 tunnel.

I want to: Set up the IPv6 tunnel though my ISP doesn't provide me with the tunnel service.

- How can I1. Visit http://tplinkmodem.net, and log in with the password
you set for the modem router.
 - 2. Go to Advanced > Network > IPv6 Tunnel.
 - **3.** Tick the check box, select 6to4 as the tunneling mechanism and select a WAN connection from the drop-down list, then click Save.

Note: You must reconfig desired WAN connection	ure the settings on this page after rebootin is connected before you configure the tunr	g the device. You must also ens nel.	ure the
IPv6 Tunnel:	🗹 Enable		
Mechanism:	6to4	•	
		_	

Note:

If there is no available WAN connection to choose, make sure you have connected to the Internet and the connection type is not Bridge.

Done!

Now you can visit the IPv6 websites with the 6to4 tunnel.

Note:

Still not being able to access IPv6 resources means that not any 6to4 public server was found in your network. You can contact your ISP to sign up for IPv6 connection service.

12.7.2. Specify the 6rd Tunnel with Parameters Provided by Your ISP

l want to:	Specify the 6rd tunnel with the parameters provided by my 6rd tunnel service provider.
How can I do that?	1. Visit <i>http://tplinkmodem.net</i> , and log in with the password you set for the modem router.
	2. Go to Advanced > Network > IPv6 Tunnel.
	3. Tick the check box, select 6rd as the tunneling mechanism and select a WAN connection from the drop-down list.
	4. According to the parameters provided by your ISP, choose Auto or Manual. More parameters are needed if you choose Manual.
	5. Click Save.

Note: You must reconfigure to desired WAN connection is cor	ne settings on this page after rebootin nnected before you configure the tunn	g the device. You must also ensure the iel.
IPv6 Tunnel:	Enable	
Mechanism:	6RD	•
WAN Connection:	pppoe_8_35_1_d	•
Configuration Type:	Auto O Manual	
Pv4 Mask Length:	0	
5RD Prefix:		
6RD Prefix Length:	0	
Border Relay IPv4 Address:	0.0.0.0	

Note:

If there is no available WAN connection to choose, make sure you have connected to the Internet and the connection type is not Bridge.

Done!

Now you can visit the IPv6 websites with the 6rd tunnel.

Tips:

The way to set up DS-Lite tunnel is similar to that of 6rd tunnel. If you are provided with an IPv6-only WAN connection and have signed up for DS-Lite tunnel service, specify the DS-Lite tunnel by referring to the steps above.

Chapter 13

Administrate Your Network

This chapter introduces how to change the system settings and administrate your modem router's network.

This chapter contains the following sections:

- Set System Time and Region
- Update the Firmware
- Back up and Restore Configuration Settings
- Change the Administrator Account
- Local Management
- Remote Management
- System Log
- Monitor the Internet Traffic Statistics
- CWMP Settings
- SNMP Settings

13.1. Set System Time and Region

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

Follow the steps below to set your system time.

- 1. Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router.
- 2. Go to Advanced > System Tools > Time Settings page.

Time Setting	gs
Region:	United Kingdom
Time Zone:	(GMT) Greenwich Mean Time: Dublin, Edinburgh, London, Lisbon
Date:	1/1/1970 (MM/DD/YY)
Time:	2 ▼ : 54 ▼ : 56 ▼
NTP Server I:	0.0.0.0 (optional)
NTP Server II:	0.0.0.0 (optional)
Get from P	C Get GMT
	Save

- **3.** Select your Region from the drop-down list. The region is where the wireless function of the device can be used. It may be illegal to use the wireless function of the device in a region other than regions specified in the list. If your country or region is not listed, please contact your local government agency for assistance.
- 4. Configure the system time using the following methods :

Manually: Select your time zone and enter your local time.

Get from PC: Click this button if you want to use the current managing PC's time.

Get GMT: Click this button if you want to get time from the Internet. Make sure your modem router can access the Internet before you select this way to get system time.

- 5. Click Save to make your settings effective.
- **6.** After setting the system time, you can set Daylight Saving time according to your needs. Tick the checkbox to enable Daylight Saving, set the start and end time and then click Save to make the settings effective.

Daylight Saving)							
Daylight Saving:	🗹 Enable Da	ylight Sa	ving					
Start:	Mar	▼ M	Last	•	W Sun	▼ T	02:00	•
End:	Oct	▼ M	Last	•	W Sun	v T	03:00	•
							Sa	ave

13.2. Update the Firmware

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

Follow the steps below to update your firmware to the latest.

- 1. Download the latest firmware file from our website: *www.tp-link.com*.
- 2. Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router.
- **3.** Go to Advanced > System Tools > Firmware Upgrade page.

Firmwara Ungrada	
Firmware Opgrade	
New Firmware File:	Browse
Firmware Version:	0.8.0 0.4 v0049.0 Build 150228 Rel.33948n
Hardware Version:	Archer D20 v1 0000000
	Upgrade

4. Click Browse to locate the downloaded new firmware file, and click Upgrade.

5. Wait for the upgrading and then the modem router will automatically reboot.

Note:

- 1. Before upgrading the firmware, it's better to back up your current settings. For more details, refer to *Back up and Restore Configuration Settings*.
- 2. During the upgrading process, do not turn off or reset the router.
- 3. The upgraded firmware version must correspond to the hardware.

13.3. Back up and Restore Configuration Settings

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

To back up configuration settings:

- 1. Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router.
- 2. Click Advanced > System Tools > Backup & Restore page.
- **3.** Click Backup to save a copy of the current settings to your local computer. A conf. bin file will be stored to your computer.

To restore configuration settings:

- 1. Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router.
- 2. Click Advanced > System Tools > Backup & Restore page.

Restore		
Restore saved settings from a file.		
File:	Browse	
		Restore

- 3. Click Browse to locate the previous backup configuration file, and click Restore.
- 4. Wait for the restoring and then the modem router will automatically reboot.

To reset the modem router to factory default settings:

- 1. Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router.
- 2. Click Advanced > System Tools > Backup & Restore page.
- 3. Click Factory Restore to reset the modem router.
- 4. Wait for the resetting and then the modem router will automatically reboot.

Note:

- 1. Do not interrupt or turn off the router during the resetting process.
- 2. We strongly recommend you back up the current configuration settings before resetting the modem router.

13.4. Change the Administrator Account

Admin account is used to log in to the modem router's web-based management page. You are required to set the admin account at first login. You can also change it on the web page.

- 1. Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router.
- **2.** Go to Advanced > System Tools> Administration page. Locate the Account Management section.

Account Management		
Old Password:		
New Password:		
Confirm New Password:	Low Middle High	
		S

- 3. Enter the old password. Enter the new password and enter again to confirm.
- 4. Click Save to make the settings effective.

13.5. Local Management

You can control the local devices' authority to manage the modem router via Local Management feature. By default all local connected devices are allowed to manage the modem router. You can also allow only one device to manage the modem router.

Follow the steps below to specify the local management.

- 1. Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router.
- **2.** Go to Advanced > System Tools> Administration page. Locate the Local Management section.
- **3.** Keep the Port as the default setting. Enter the IP address or MAC address of the local device to manage the modem router.

Local Management	
Port:	80
IP/MAC Address:	192.168.1.100

4. Click Save to make the settings effective. Now only the device (192.168.1.100) can manage the modem router. If you want that all local devices can manage the modem router, just leave the IP/MAC Address field blank.

13.6. Remote Management

By default, the remote devices are not allowed to manage the modem router from the Internet.

Follow the steps below to allow remote devices to manage the modem router.

- 1. Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router.
- **2.** Go to Advanced > System Tools> Administration page. Locate the Remote Management section.

Remote Management		
Remote Management:	🗹 Enable	
Port:	80	
IP/MAC Address:		
		Save

- **3.** Tick the checkbox to enable Remote Management. Keep the Port as the default setting. Leave the IP/MAC Address field blank. If you just want to allow a specific device to manage the modem router, you can enter the IP address of the remote device in the IP/MAC Address field.
- **4.** Click Save to make the settings effective. Now, all devices on the Internet can log in to http://modem router's WAN IP address:port number (such as http://113.116.60.229:80) to manage the modem router.

Tips:

^{1.} You can find the WAN IP address of the router on Basic > Network Maps > Internet.

^{2.} The router's WAN IP is usually a dynamic IP. Please refer to *Set up a Dynamic DNS Service Account* if you want to log in to the router through a domain name.

13.7. System Log

System Log can help you know what happened to your modem router, facilitating you to locate the malfunctions. For example when your modem router does not work properly, you will need to save the system log and send it to the technical support for troubleshooting.

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

/				
Type:			ALL	•
_evel:			Debug	•
				🙆 Refresh 😑 Delete Al
ID	Time	Туре	Level	Log Content
1	1970-01-01 00:46:15	IGMP	Warning	V2 igmp router occured! Not matching ours V3.
2	1970-01-01 00:45:15	IGMP	Warning	V2 igmp router occured! Not matching ours V3.
3	1970-01-01 00:44:10	IGMP	Warning	V2 igmp router occured! Not matching ours V3.
4	1970-01-01 00:43:10	IGMP	Warning	V2 igmp router occured! Not matching ours V3.
5	1970-01-01 00:42:41	DHCPD	Notice	Recv REQUEST from 48:43:7C:B0:B4:ED
6	1970-01-01 00:42:39	DHCPD	Notice	Send OFFER with ip 192.168.0.100
7	1970-01-01 00:42:39	DHCPD	Notice	Recv DISCOVER from 48:43:7C:B0:B4:ED
8	1970-01-01 00:42:05	IGMP	Warning	V2 igmp router occured! Not matching ours V3.
				< 1 2 3 4 5 6 7 8
	Loa Settinas		Save Log	

2. Click Advanced > System Tools > System Log page.

To view the system logs:

- 1. Select the log Type. Select ALL to view all kinds of logs, or select DHCPD or IGMP to view the specific logs.
- 2. Select the log Level and you will see the logs with the specific or higher levels.
- 3. Click Refresh to refresh the log list.

To save the system logs:

You can choose to save the system logs to your local computer or a remote server.

Click Save Log to save the logs in a txt file to your computer.

Click Log Settings to set the save path of the logs.

og Settings				
Save Locally				
linimum Level	Information	-		
Save Remotely				
nimum Level:	Warning	•		
erver IP:	192.168.1.100			
rver Port:	514			
ocal Facility Name:	User	-		
			Back	s

- Save Locally: Select this option to cache the system log to the router's local memory, select the minimum level of system log to be saved from the drop-down list. The logs will be shown in the table in descending order on the System Log page.
- Save Remotely: Select this option to send the system log to a remote server, select the minimum level of system log to be saved from the drop-down list and enter the information of the remote server. If the remote server has a log viewer client or a sniffer tool implemented, you can view and analyze the system log remotely in real-time.

13.8. Monitor the Internet Traffic Statistics

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

- 1. Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router.
- 2. Go to Advanced > System Tools > Statistics.
- **3.** Toggle on Traffic Statistics, and then you can monitor the traffic statistics in Traffic Statistics List section. This function is disabled by default.

une otatione.	>							
able Traffic Statist	ics:							
raffic Statistics	s List							
affic Statistics	s List				O F	tefresh 🌀	Reset 😑) Delete Al
IP Address MAC Address	Total Packets	Total Bytes	Current Packets	Current Bytes	Current ICMP Tx	Current UDP Tx	Reset Current SYN Tx	Delete Al Modify

13.9. CWMP Settings

The modem router offers CWMP feature. The function supports TR-069 protocol which collects information, diagnoses the devices and configures the devices automatically via ACS (Auto-Configuration Server).

- 1. Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router.
- 2. Go to Advanced > System Tools > CWMP Settings page.

CWMP Settings	
VAN Management Protocol (also called T onfiguration, provision, connection, and our ISP's instructions.	R-069) allows Auto-Configuration Server (ACS) to perform auto- diagnostics to this device. You may configure this function under
nable CWMP:	
nform:	
nform Interval(seconds):	300
ACS URL:	
ACS Username:	admin
ACS Password:	****
nterface used by TR-069 client:	Any WAN
Display SOAP messages on serial console	:
Z Connection Request Authentication	
Connection Request Username:	admin
Connection Request Password:	****
Connection Request Path:	/tr069
Connection Request Port:	7547
Connection Request URL:	

- Enable CWMP: Toggle On to enable the CWMP (CPE WAN Management Protocol) feature.
- Inform: Enable this feature to send an Inform message to the ACS (Auto Configuration Server) periodically.
- Inform Interval: Enter the time interval in seconds when the Inform message will be sent to the ACS.
- ACS URL: Enter the web address of the ACS which is provided by your ISP.
- ACS Username/Password: Enter the username/password to log in to the ACS server.
- Interface used by TR-069 client: Select which interface to be used by the TR-069 client.
- Display SOAP messages on serial console: Toggle to enable or disable this feature.
- Connection Request Authentication: Select this checkbox to enable authentication for the connection request.
- Connection Request Username/Password: Enter the username/password for the ACS server to log in to the router.
- Connection Request Path: Enter the path for the ACS server to log in to the router.

- Connection Request Port: Enter the port that connects to the ACS server.
- Connection Request URL: Enter the URL that connects to the ACS server.
- Get RPC methods: Click to get the methods to support CWMP.

Click Save to make the settings effective.

13.10. SNMP Settings

SNMP (Simple Network Management Protocol) has been widely applied in the computer networks currently, which is used for ensuring the transmission of the management information between two nodes. In this way, network administrators can easily search and modify the information on any node on the network. Meanwhile, they can locate faults promptly and implement the fault diagnosis, capacity planning and report generating.

An SNMP Agent is an application running on the modem router that performs the operational role of receiving and processing SNMP messages, sending responses to the SNMP manager, and sending traps when an event occurs. So a router contains SNMP "agent" software can be monitored and/or controlled by SNMP Manager using SNMP messages.

- 1. Visit *http://tplinkmodem.net*, and log in with the password you set for the modem router.
- 2. Go to Advanced > System Tools > SNMP Settings page.

SNMP Settings		
Simple Network Managemer and statistics from the SNM	nt Protocol(SNMP) allows manag P agent within this device.	ement applications to retrieve status updates
Enable SNMP Agent:		
Read Community:	public	
Set Community:	private	
System Name:	Archer D20	
System Description:	0.8.0 0.5 v0049.0 Bu	
System Location:		
System Contact:		
Trap Manager IP:	0.0.0.0	
		Save

• Enable SNMP Agent: Toggle On to enable the built-in SNMP agent that allows the router to operate as the operational role in receiving and processing of SNMP

messages, sending responses to the SNMP manager, and triggering SNMP traps when an event occurs.

- Read Community: Displays the default public community string that protects the router from unauthorized access.
- Set Community: Displays the default read and write community string that protects the router from unauthorized changes.
- System Name: Displays the administratively-assigned name for this managed device.
- System Description: Displays the textual description of the managed device. This value should include the full name and version identification of the system's hardware type, software operating-system, and networking software.
- System Location: Displays the physical location of this device (e.g., telephone closet, 3rd floor).
- System Contact: Displays the textual identification of the contact person for this managed device, together with information on how to contact this person.
- Trap Manager IP: Displays the IP address of the host to receive the traps.

You are suggested to keep the default settings. Click Save to make the settings effective.

Appendix A: Specifications

	General
Standards and Protocols	ANSI T1.413, ITU G.992.1, ITU G.992.3, ITU G.992.5, IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, IEEE 802.11n, IEEE 802.11ac, IEEE 802.3, IEEE 802.3u, IEEE802.3ab, TCP/IP, PPPoA, PPPoE, SNTP, HTTP, DHCP, ICMP, NAT
Safety & Emission	FCC, CE
Antenna	Antenna Type: Three detachable external dual band antennas Antenna Gain: 3×2dBi for 2.4GHz and 1×3dBi for 5GHz
Ports	1 10/100/1000Mbps RJ45 WAN/LAN Port 3 10/100/1000Mbps RJ45 LAN Ports 1 RJ11 Port 1 USB 2.0 Port
Network Medium	10Base-T: UTP category 3, 4, 5 cable 100Base-TX: UTP category-5, 5e cable 1000Base-TX: UTP category-5, 5e cable Max line length: 6.5Km
Data Rates	Downstream: Up to 24Mbps Upstream: Up to 1Mbps
System Requirement	Windows 8.1/8/7/Vista/XP or Mac OS or Linux-based operating system Microsoft Internet Explorer, Firefox, Chrome or Safari browser for web-based configuration
	Physical and Environment
Working Temperature	0°C ~ 40°C
Working Humidity	10% ~ 90% RH (non-condensing)
Storage Temperature	-40 °C ~ 70 °C
Storage Humidity	5% ~ 90% RH (non-condensing)

Appendix B: Troubleshooting

T1. How do I restore my modem router's configuration to its factory default settings?

With the modem router powered on, press and hold down the WPS/RESET button on the rear panel of the modem router for 8 seconds until all LEDs turn back on momentarily, then release the button.

Note: Once the modem router is reset, the current configuration settings will be lost and you will need to reconfigure the modem router.

T2. What can I do if I forgot my password?

Web Management page password:

Restore the modem router to its factory default settings and then set a new password using 1-15 characters.

Wireless Network password:

- 1. The default Wireless Password/PIN is printed on the product label of the modem router.
- 2. If the default wireless password has been changed, log into the modem router's web management page and go to Basic > Wireless to retrieve or reset your password.

T3. What can I do if I cannot log into the modem router's web management page?

- Make sure the modem router connects to the computer correctly and the corresponding LED indicator(s) light up.
- Make sure the IP address of your computer is configured to obtain an IP address automatically and obtain DNS server address automatically.
- Make sure the default access you input is right.
- 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;

eneral	Security	Privacy	Content	Connections	Programs	Advanced
1	To set up Setup.	an Inter	net connec	tion, click	Set	up
Dial-up a	and Virtua	Private N	Network se	ttings		6
🐌 в	roadbar	Add	Add			
					Add V	PN
					Remo	ve
Choose server f	Settings i for a conn	if you nee lection.	ed to confi <u>c</u>	jure a proxy	Sett	ings
Nev	ver dial a d	onnectio	n			
🔘 Dial	wheneve	r a netwo	ork connect	ion is not prese	ent	
O Alw	ays dial m	y default	connection	n		
Curre	ent	None			Set de	fault
Local Ar	ea Netwo	rk (LAN) s	ettings -			
LAN Se Choose	ttings do Settings	not apply above fo	r to dial-up r dial-up se	connections. ettings.	LAN se	ttings

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

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

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

🔁 Interne	et Properti	es				? ×
General	Security	Privacy	Content	Connections	Programs	Advanced
Setting	s					
	Accessibilit Alway: Enable Move : Reset Reset Browsing Autom Close (Disable Disable Disable	ty s expand caret Br system ca text size text size zoom leve atically re unused for e script de e script de	ALT text fro owsing for aret with for to medium to medium ecover from ecover from sbugging (I sbugging (I	or images new windows a cus/selection d for new window while zooming* windows and ta n page layout e story and Favor internet Explore Other)	and tabs hanges vs and tabs bs rrors with Co rites* er)	sqmo
	Display	Accelera	ator button	on selection		
*Tal	kes effect a	after you	restart Int	ernet Explorer		- 24
				Restore	advanced s	ettings
Reset I Rese cond You :	nternet Ex ts Internet ition. should only	piorer set Explorer' use this i	tings 's settings f your brov	to their default vser is in an un	Rese usable state	et
			Ok	Ca	incel	Apply

- Change a web browser or computer and log in again.
- Reset the modem router to factory default settings: With the modem router powered on, press and hold down the WPS/RESET button on the rear panel of the modem router for 8 seconds until all LEDs turn back on momentarily, then release the button.

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

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

T4. What can I do if I cannot access the Internet?

- 1. Check to see if all the connectors are connected well, including the telephone line, Ethernet cables and power adapter.
- 2. Check to see if you can log in to the web management page of the modem router. If you can, try the following steps. If you cannot, please set your computer referring to T3 and then try to see if you can access the Internet. If the problem persists, please go to the next step.
- **3.** Consult your ISP and make sure all the VPI/VCI, Connection Type, account username and password are correct. If there are any mistakes, please correct the settings and try again.

- 4. Refer to T5 to clone the MAC address.
- 5. If you still cannot access the Internet, please restore your modem router to its factory default settings and reconfigure your modem router by following the instructions in *Use Quick Setup Wizard*.
- 6. Please contact our Technical Support if the problem still exists.

T5. How to configure MAC Clone?

You can manually change the MAC address of the modem router. It is helpful when your Internet access account provided by your ISP is bound to one specific MAC address, in other words, your ISP just permits only one computer with the authenticated MAC address to access the Internet. In this case, you can use MAC Clone to allow more computers to access the Internet via the same account.

- 1. Visit *http://tplinkmodem.net*, and log in with password you set for the modem router.
- 2. Go to Advanced > Network > Internet page. Click the Add icon, and scroll down to get the MAC Clone section.

MAC Clone		
• Use Default MAC Address		
O Use Current Computer MAC Address		
O Use Custom MAC Address		
	Cancel	ОК

- If you are using the computer with the authenticated MAC address to access the modem router, please select Use Current Computer MAC Address.
- If you know the authenticated MAC address, please select Use Custom MAC Address and then enter the address.
- **3.** Click OK to make the settings effective.

T6. How to use the modem router as a regular wireless router to share my Internet ?

The modem router supports two operation modes, DSL Modem Router Mode and Wireless Router mode. If you already have a modem or your Internet comes via an Ethernet cable from the wall, you can set up the modem router as a regular wireless router to share the Internet.

1. Connect your modem router's LAN4/WAN port to the modem or the network port.

- 2. Visit *http://tplinkmodem.net*, and log in with password you set for the modem router.
- **3.** Go to Advanced > Operation Mode page.

Operation Mode	
Please select an operation mode:	
) DSL Modem Router Mode	
Wireless Router Mode	
	Save

4. Select the Wireless Router Mode option and click Save to make the settings effective.

Note: IPTV function is not supported in Wireless Router Mode.

T7. How to use the WDS Bridging function to extend my wireless network?

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 primary router. Follow the steps to configure the modem router.

- 1. Visit *http://tplinkmodem.net*, and log in with password you set for the modem router.
- 2. Configure the LAN IP address of the modem router in the same subnet as the root router. For example, the IP address of the root router is 192.168.1.1, the IP address of the extended router should be from 192.168.1.2 to 192.168.1.254.).
- **3.** Go to Advanced > Wireless >Advanced Settings page and select the wireless network 5GHz. Locate the WDS (5GHz) section and select the checkbox to enable the WDS Bridging function.

WDS (5GHz)		
WDS Bridging:	G Enable WDS Bridging	
SSID (to be bridged):	Survey	
MAC (to be bridged):		
Security:	None WPA/WPA2 Personal WEP	
	l	Save

4. Click Survey to scan all the AP devices and choose the root AP to be bridged.

					(Refres
ID	MAC Address	SSID	Signal strength	Channel	Encryption	Connect
1	E0:05:C5:3 0:01:46	TP-LINK_0146_5G	14	36	Encrypted	ø
2	30:B5:C2:3 3:97:81	TP-LINK_5GHz_0000	6	36	Encrypted	ø
3	28:04:29:5 7:10:48	TP-LINK_Extender_5GHz	9	36	None	ø
4	00:0A:EB:1 3:7B:02	TP-LINK_Extender_5GHz	13	36	None	ø

5. Click the connect icon and then the SSID and MAC will be automatically filled in. Configure the Security settings as the AP you choose to be bridged.

WDS (5GHz)		
WDS Bridging:	☑ Enable WDS Bridging	
SSID (to be bridged):	TP-LINK_0146_5G	Survey
MAC (to be bridged):	E0:05:C5:30:01:46	
Security:	○ None ● WPA/WPA2 Personal	○ WEP
Version:	○ WPA-PSK	
Encryption:	○ TKIP	
Password:	123456789	

- 6. Click Save to make the settings effective.
- 7. Go to Advanced > Network > LAN Settings page to disable DHCP.

Now, the root's wireless network is extended and you can use the modem router's SSID and password to enjoy the network.

Note: The extended router (modem router) can have different SSID and password from the root router, you can change your modem router's SSID and password on Basic > Wireless page.

T8. What can I do if I cannot find my wireless network or I cannot connect the wireless network?

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

Network Tasks	Choose a wireless network
💋 Refresh network list	Click an item in the list below to connect to a wireless network in range or to get more information.
Set up a wireless network for a home or small office	
Related Tasks	
Learn about wireless	Windows cannot configure this wireless connection
Change the order of	If you have enabled another program to manage this wireless connection, use that software.
preferred networks	If you want Windows to configure this wireless connection, start the Wireless Zero
Change advanced settings	Configuration (W2C) service. For information about starting the W2C service, see article 871122 in the Microsoft Knowledge Base on the microsoft.com Web site.

- 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;

📕 Computer Management			
E File Action View Window H	elp 2 10 + 11 11 11+		<u>_181 ×</u>
Computer Management (Local) Kystem Tools Kyster Viewer	🌯 Services		
 Shared Folders Shared Folders Cocal Users and Groups Device Manager Dorace Manager Disk Defragmenter Disk Defragmenter Disk Defragmenter Disk Defragmenter Services and Applications Services Indexing Service 	Wireless Zero Configuration Stop the service Restart the service Description: Provides automatic configuration for the 302.11 adapters	Name / Windows CardSpace Windows CardSpace Windows Firewall/I Windows Installer Windows Managem Windows Managem Windows Mersentat Windows Presentat Windows Presentat Windows Presentat Windows Config Windows Config Window	Description Manages a. Securely e Provides n Provides n Provides m. Adds, modi. Provides a. Provides a. Optimizes Optimizes Optimizes Provides p Creates an Vordes p
<u><</u>	Extended / Standard /		

5) Select Wireless Zero Configuration, right click, and then select Properties;

A DECEMBER OF THE PARTY OF THE		Properties		
The second s		Refresh		
rent selection.	_	All Tasks	•	
Extended / Standard /		Restart	_	
	<	Resume		>
	Work Work	Pause		eates an. 🧹
	🤹 wmi	Stor		ovides p.,
	Wirel	Addocoring	-	pvides a
	Windows Presentat		Optimizes Maintains d. This servic	
	Windows Presentat		Optimizes	
802.11 adapters	Windows Installer		Adds, modi. Provides a . Provides s	
Provides automatic configuration for the				
Description:				
	Window	ws Image Ac	Pr	ovides im.

6) Change Startup type to Automatic, click on Start button and make sure the Service status is Started. And then click OK.
| aerieiai | Log On | Recovery | Depende | encies | | |
|-------------------------------|-----------------------------------|---|--------------------|-----------------|-------------------|-----|
| Service | name: | WZCSVC | | | | |
| Display | name: | Wireless Z | ero Confi <u>c</u> | juration | | |
| Descrip | tion: | Provides automatic configuration for the 802.11 | | | | |
| Path to | executabl | e: | | | | |
| C:\WIN | IDOWS\S | ystem32\sv | chost.exe | -k netsvos | | Î |
| Startup | type: | Automatic | | | | |
| Service | status: | Started | | | | |
| 9 | Start | Stop | | Pause | Resume | |
| You ca
from he
Start pa | n specify ti
re.
arameters: | he start para | meters tha | at apply when y | ou start the serv | ice |

- 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;
- Go to Advanced > Wireless > Wireless Settings page, and check the wireless router settings, double check your Wireless Name, make sure the Region/Country is selected correctly and the SSID is not hidden;
- 4. Connect to wireless network.
- If you can find your wireless network but fail to connect, please follow the steps below:
- 1. 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/modem;

Connect to a Network	X
Type the 8-digit PIN fro it is not the	om the router display general wireless password
PIN:	
Connect using a security key in	nstead
	Back Next Cancel

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

ype the netwo	ork security key	
Security key:		
	Hide characters	

3) If it continues on saying network security key mismatch, it is suggested to confirm the wireless password on your wireless router/modem;

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

👰 Connect to a Net	work	×
Network Secur	ity Key Mismatch	
Security key:	Hide characters	
		OK Cancel

- 4) Connect to wireless network.
- 2. Windows was unable to connect to XXXX /Cannot 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 colocated or operating in conjunction with any other antenna or transmitter." The device operates in 5.25 ~ 5.35GHz / 5.47 ~5.725GHz/ 5.725~5.850 GHz frequency range. It is restricted in indoor environment only. This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

CE Mark Warning

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

RF Exposure Information

This device meets the EU requirements (1999/519/EC) on the limitation of exposure of the general public to electromagnetic fields by way of health protection.

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

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
Belarus	Not implemented	
Norway	Implemented	This subsection does not apply for the geographical area within a radius of 20 km from the centre of Ny-Ålesund on Svalbard
Italy	Implemented	The public use is subject to general authorisation by the respective service provider
Russian Federation	Limited implementation	 SRD with FHSS modulation Maximum 2.5 mW e.i.r.p. Maximum 100 mW e.i.r.p. Permitted for use SRD for outdoor applications without restriction on installation height only for purposes of gathering telemetry information for automated monitoring and resources accounting systems. Permitted to use SRD for other purposes for outdoor applications only when the installation height is not exceeding 10 m above the ground surface. Maximum 100 mW e.i.r.p. Indoor applications SRD with DSSS and other than FHSS wideband modulation Maximum mean e.i.r.p. density is 2 mW/MHz. Maximum 100 mW e.i.r.p. Maximum mean e.i.r.p. density is 20 mW/MHz. Maximum 100 mW e.i.r.p. It is permitted to use SRD for outdoor applications only for purposes of gathering telemetry information for automated monitoring and resources accounting systems or security systems. Maximum mean e.i.r.p. density is 10 mW/MHz. Maximum 100 mW e.i.r.p. Indoor applications
Ukraine	Limited implementation	e.i.r.p. \leq 100 mW with built-in antenna with amplification factor up to 6 dBi

ATTENTION: Due to EU law, the country settings must be identical to the country where the device is operating (important due to non-harmonised frequencies in the EU). Restricted to indoor use.

Canadian Compliance Statement

This device complies with Industry Canada license-exempt RSSs. Operation is subject to the following two conditions:

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

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

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

This radio transmitter (IC: 8853A-D2 / Model: Archer D2) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list (Appendix A), having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (IC: 8853A-D2 / Model: Archer D2) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste (Annexe A), et dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Caution:

(i) for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;

(ii) for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate; and

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

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

Avertissement:

(i) le gain maximal d'antenne permis pour les dispositifs avec antenne(s) amovible(s) utilisant les bandes 5250-5350 MHz et 5470-5725 MHz doit se conformer à la limitation P.I.R.E.;

(ii) le gain maximal d'antenne permis pour les dispositifs avec antenne(s) amovible(s) utilisant la bande 5725-5850 MHz doit se conformer à la limitation P.I.R.E spécifiée pour l'exploitation point à point et non point à point, selon le cas.

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

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

Radiation Exposure Statement:

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

Déclaration d'exposition aux radiations:

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

Industry Canada Statement

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

Korea Warning Statements:

당해 무선설비는 운용중 전파혼신 가능성이 있음.

NCC Notice & BSMI Notice:

注意!

依據 低功率電波輻射性電機管理辦法

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

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

減少電磁波影響,請妥適使用。

於5.25GHz至5.35GHz區域內操作之無線設備的警告聲明 工作頻率5.250~5.350GHz該頻段限於室內使用。

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.
- Adapter shall be installed near the equipment and shall be easily accessible.
- The plug considered as disconnect device of adapter.

Use only power supplies which are provided by manufacturer and in the original packing of this product.

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	SG	SK	TR	UA	US	

DECLARATION OF CONFORMITY

For the following equipment:

Product Description: AC750 Wireless Dual Band Gigabit ADSL2+ Modem Router

Model No.: Archer D2

Trademark: **TP-LINK**

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

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

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

EN 300 328 V1.8.1

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

EN 55022: 2010 + AC: 2011

EN 55024: 2010

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

EN 50385: 2002

EN 301 893 V1.7.1

The product carries the CE Mark:

€€1588

Person responsible for making this declaration:

Mz-

Yang Hongliang Product Manager of International Business

Date of issue: 2015/07/01

TP-LINK TECHNOLOGIES CO., LTD Building 24 (floors 1, 3, 4, 5), and 28 (floors 1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China