TP-LINK®

User Guide

Archer C20

AC750 Wireless Dual Band Router



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FCC STATEMENT

FC

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

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

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

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

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

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

FCC RF Radiation Exposure Statement:

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

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

This device is restricted in indoor environment only.

CE Mark Warning

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

RF Exposure Information

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

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

Restricted to indoor use.

Canadian Compliance Statement

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

(1)This device may not cause interference, and

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

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

(1)cet appareil ne doit pas provoquer d'interférences et

(2)cet appareil doit accepter toute interférence, y compris celles susceptibles de provoquer un fonctionnement non souhaité de l'appareil.

Industry Canada Statement

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

Korea Warning Statements

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NCC Notice & BSMI Notice

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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。

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- ●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。

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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. If you have any questions, please don't hesitate to contact us.

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

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

Symbol	Explanation
	DC voltage
	RECYCLING
	This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment.

Explanation of the symbols on the product label

User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.

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DECLARATION OF CONFORMITY

For the following equipment:

Product Description: AC750 Wireless Dual Band Router

Model No.: Archer C20

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 61000-3-2: 2006 + A1: 2009 + A2: 2009

EN 61000-3-3: 2013

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

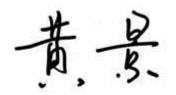
EN 50385: 2002

EN 301 893 V1.7.1

The product carries the CE Mark:



Person responsible for making this declaration:



Huang Jing Regulatory Compliance Manager

Date of Issue: 2016

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

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Package Contents

The following items should be found in your package:

- > Archer C20 AC750 Wireless Dual Band Router
- > DC Power Adapter for Archer C20 AC750 Wireless Dual Band Router
- > Quick Installation Guide

P Note:

Make sure that the package contains the above items. If any of the listed items are damaged or missing, please contact your distributor.

Chapter 1. Introduction

1.1 Overview of the Router

The AC750 Wireless Dual Band Router integrates 4-port Switch, Firewall, NAT-router and Wireless AP. The 300Mbps High Power Wireless N Router delivers exceptional range and speed, which can fully meet the need of Small Office/Home Office (SOHO) networks and the users demanding higher networking performance. Your wireless connections are radio band selectable to avoid interference in your area, and the four built-in 100M ports supply high-speed connection to your wired devices.

Incredible Speed

The AC750 Wireless Dual Band Router provides up to 750Mbps wireless connection with other wireless clients. The incredible speed makes it ideal for handling multiple data streams at the same time, which ensures your network stable and smooth. The performance of this 802.11ac wireless router will give you the unexpected networking experience at speed much faster than 802.11n. It is also compatible with all IEEE 802.11n, IEEE 802.11a, IEEE 802.11b and IEEE 802.11g products.

Multiple Security Protections

With multiple protection measures, including SSID broadcast control and wireless LAN 64/128-bit WEP encryption, Wi-Fi Protected Access (WPA2- PSK, WPA- PSK), as well as advanced Firewall protections, the AC750 Wireless Dual Band Router provides complete data privacy.

Flexible Access Control

The AC750 Wireless Dual Band Router provides flexible access control, so that parents or network administrators can establish restricted access policies for children or staff. It also supports Virtual Server and DMZ host for Port Triggering, and then the network administrators can manage and monitor the network in real time with the remote management function.

Simple Installation

Since the router is compatible with virtually all the major operating systems, it is very easy to manage. Quick Setup Wizard is supported and detailed instructions are provided step by step in this user guide. Before installing the router, please look through this guide to know all the router's functions.

1.2 Conventions

The router or Archer C20 mentioned in this guide stands for Archer C20 AC750 Wireless Dual Band Router without any explanation.

1.3 Main Features

- > Complies with IEEE 802.11ac.
- One 10/100M Auto-Negotiation RJ45 Internet port, four 10/100M Auto-Negotiation RJ45 Ethernet ports, supporting Auto MDI/MDIX.
- > Provides one USB port supporting storage/FTP/Media/Print Server.
- > Provides WPA/WPA2, WPA-PSK/WPA2-PSK authentication, TKIP/AES encryption security.
- Shares data and Internet access for users, supporting Dynamic IP/ Static IP/ PPPoE/ PPTP/ L2TP/ BigPond Internet access.
- Supports simultaneous 2.4GHz and 5GHz connections for 750Mbps of total available bandwidth.
- Supports Virtual Server, Special Application and DMZ host.
- > Supports UPnP, Dynamic DNS, Static Routing.
- > Provides Automatic-connection and Scheduled Connection on certain time to the Internet.
- > Built-in NAT and DHCP server supporting static IP address distributing.
- > Supports Parent Control and Access Control.
- > Connects Internet on demand and disconnects from the Internet when idle for PPPoE.
- > Provides 64/128-bit WEP encryption security and wireless LAN ACL (Access Control List).
- Supports Flow Statistics.
- Supports IPv6.
- > Supports firmware upgrade and Web management.

1.4 Panel Layout

1.4.1 The Front Panel



The router's LEDs are located on the front panel (View from left to right).

Name	Status	Indication		
	Off	Power is off.		
U (Power)	Flashing	The router is starting or upgrading firmware.		
	On	Power is on.		
€ (Wireless	Off	The wireless function is disabled.		
- (Wheless 2.4G)	On	The wireless function is enabled. The router is working on 2.4GHz radio bands.		
(Wireless	Off	The wireless function is disabled.		
(Wireless 5G)	On	The wireless function is enabled. The router is working on 5GHz radio bands.		
	Off	No device is connected to the Ethernet ports.		
(Ethernet)	On	At least one device has connected to the Ethernet ports.		
	Blue	The Internet port is connected, and the Internet is accessible.		
(Internet)	Orange	The Internet port is connected, but the Internet is inaccessible.		
	Off	The Internet port is not connected, and the Internet is inaccessible.		
	Off	No storage device or printer is plugged into the USB port.		
⊷ (USB)	Flashing	A plugged-in storage device or printer is being recognized.		
	On	The storage device has been successfully recognized.		
	Slow Flash	A wireless device is connecting to the network by WPS function. This process will last in the first 2 minutes.		
(WPS)	On	A wireless device has been successfully added to the network by WPS function.		
	Quick Flash	A wireless device failed to be added to the network by WPS function.		

P Note:

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

2. The router is set to work concurrently in 2.4GHz and 5GHz by default. If you desire to choose the working frequency, please go to 4.5 Dual Band Selection.

1.4.2 The Rear Panel



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

WPS/Reset:

Pressing this button for less than 5 seconds enables the WPS function. If your client devices, such as wireless adapters, support Wi-Fi Protected Setup, press this button to quickly establish a WPA secure connection between the client devices and the router.

Pressing this button for more than 5 seconds enables the Reset function. With the router powered on, press and hold the **WPS/Reset** button (approximately 8 seconds) until all LEDs are lit. And then release the button and wait for the router to reboot to its factory default settings.

> Wireless On/Off: The button for the wireless function.

- > Internet: This port is where you will connect the DSL/cable Modem, or Ethernet.
- **Ethernet (1, 2, 3, 4):** These ports (1, 2, 3, 4) connect the router to the local PC(s).
- **USB:** The USB port connects to a USB storage device or a USB printer.
- > **Power On/Off:** The switch for the power.
- Power: The Power socket is where you will connect the power adapter. Please use the power adapter provided with this Archer C20 AC750 Wireless Dual Band Router.
- > Wireless antenna: To receive and transmit the wireless data.

Chapter 2. Connecting the router

2.1 System Requirements

- Broadband Internet Access Service (DSL/Cable/Ethernet)
- One DSL/Cable Modem that has an RJ45 connector (which is not necessary if the router is connected directly to the Ethernet)
- > PCs with a working Ethernet Adapter and an Ethernet cable with RJ45 connectors
- > TCP/IP protocol on each PC
- > Web browser, such as Microsoft Internet Explorer, Mozilla Firefox or Apple Safari

2.2 Installation Environment Requirements

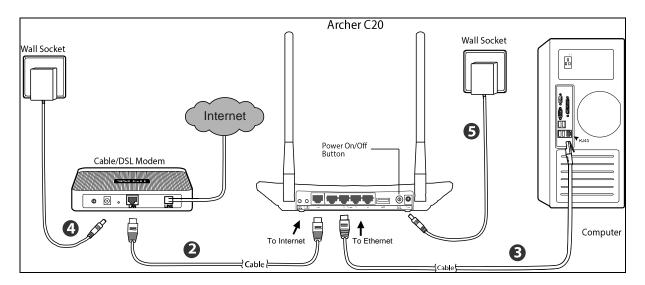
- > Place the router in a well-ventilated place far from any heater or heating vent
- > Avoid direct irradiation of any strong light (such as sunlight)
- > Keep at least 2 inches (5 cm) of clear space around the router
- > Operating Temperature: $0^{\circ}C \sim 40^{\circ}C$ ($32^{\circ}F \sim 104^{\circ}F$)
- > Operating Humidity: 10%~90%RH, Non-condensing

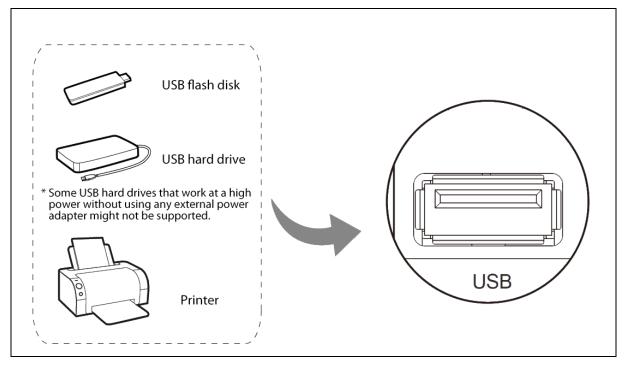
2.3 Connecting the Router

Before installing the router, make sure your PC is connected to the Internet through the broadband service successfully. If there is any problem, please contact your ISP. After that, please install the router according to the following steps. Don't forget to pull out the power plug and keep your hands dry.

- 1. Power off your modem (if the modem has a backup battery, please remove it too.), and disconnect your existing router if you have one.
- 2. Connect the **Internet** port on your router to the modem's LAN port with an Ethernet cable.
- Connect your computer to one of the Ethernet ports labeled 1~4 on the router with an Ethernet cable.
- 4. Power on the modem and wait for 2 minutes.
- 5. Then plug the provided power adapter into the **Power** jack and the other end to a standard electrical wall socket. Press the **Power On/Off** button to power on the router. (Before you

power on the router, please make sure your computer is NOT connected to any other wireless network.)





P Note:

If you want to use the router to share files or printer, plug the USB storage device to the USB port or connect the printer to the router with a matching cable.

Chapter 3. Quick Installation Guide

This chapter will show you how to configure the basic functions of your Archer C20 AC750 Wireless Dual Band Router using **Quick Setup Wizard** within minutes.

3.1 TCP/IP Configuration

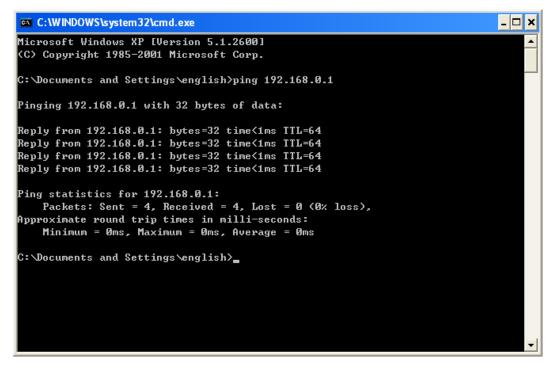
The default IP address of the router is **192.168.0.1** and the default Subnet Mask is 255.255.255.0. These values can be changed as you desire. In this guide, we use all the default values for description.

Connect the local PC to the Ethernet ports of the router and then you can configure the IP address for your PC by the following method: Set up the TCP/IP Protocol in "**Obtain an IP address automatically**" mode on your PC. If you need instructions as to how to do this, please refer to Appendix B: Configuring the PC. Then the built-in DHCP server will assign IP address for the PC.

Now, you can run the Ping command in the **command prompt** to verify the network connection between your PC and the router. The following example is in Windows XP OS.

Open a command prompt, and type *ping 192.168.0.1*, and then press Enter.

If the result displayed is similar to the figure below, it means the connection between your PC and the router has been established well.



If the result displayed is similar to figure below, it means the connection between your PC and the router failed.

٠

```
C:\WINDOWS\system32\cmd.exe
                                                                             - 🗆 ×
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\english>ping 192.168.0.1
Pinging 192.168.0.1 with 32 bytes of data:
Destination host unreachable.
Destination host unreachable.
Destination host unreachable.
Destination host unreachable.
Ping statistics for 192.168.0.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\Documents and Settings\english>
```

Please check the connection following these steps:

1. Is the connection between your PC and the router correct?

SP Note:

The Ethernet LED on the router and LEDs on your PC's adapter should be on.

2. Is the TCP/IP configuration for your PC correct?

Note:

If the router's IP address is 192.168.0.1, your PC's IP address must be within the range of 192.168.0.2 ~ 192.168.0.254.

3. Is the default LAN IP of the router correct?

Note:

If the LAN IP of the modem connected with your router is 192.168.0.x, the default LAN IP of the router will automatically switch from 192.168.0.1 to 192.168.1.1 to avoid IP conflict. Therefore, in order to verify the network connection between your PC and the router, you can open a command prompt, and type *ping 192.168.1.1*, and then press Enter.

3.2 **Quick Installation Guide**

With a Web-based utility, it is easy to configure and manage the Archer C20 AC750 Wireless Dual Band 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.

1. To access the configuration utility, open a web-browser and type in the default domain name http://tplinkwifi.net in the address field.

🖉 Blank Page - Windows Internet Explorer	
│ ◯ ◯ ▽ 🙋 http://tplinkwifi.net/	×

After a moment, a login window will appear, similar to figure below. Enter **admin** for the User Name and Password, both in lower case letters. Then click the **Login** button or press the **Enter** key.

TP-LINK [®]		C750 Wireless Dual Band Router Model No. Archer C20
	2 admin	
	P	
	Login	
	Copyright © 2014 TP-LINK Technologies Co., Ltd. All rights reserved.	

Note:

If the above screen does not pop up, it means that your Web-browser has been set to a proxy. Go to Tools menu>Internet Options>Connections>LAN Settings, in the screen that appears, cancel the Using Proxy checkbox, and click OK to finish it.

2. After successful login, the **Quick Setup** page will appear for you to quickly configure your router.

Status	
Quick Setup	Quick Setup - Start
Network	
Dual Band Selection	
Wireless 2.4GHz	This guide will help you set basic parameters for Internet connection. Please click NEXT to continue.
Wireless 5GHz	For function or parameter details, please select the corresponding menu options on the left.
Guest Network	For function of parameter details, please select the corresponding menu options of the feit.
DHCP	
USB Settings	Next
NAT	Next
Forwarding	

3. Click **Next**, and then **WAN Connection Type** page will appear, shown in figure below.

	etup is preparing to set up your internet connection, please choose one type below accord to your ISP. The detailed will be displayed after you choose the corresponding type.
⊙ Auto-De	tect
Let the route	r automatically detect the internet connection type provided by your ISP.
🔘 Dynami	c IP (Most Common Cases)
🔘 Static II	
O PPPoE/	Russia PPPoE
C L2TP/R	issia L2TP
O PPTP/R	ussia PPTP
Note: For us	ers in some areas(such as Russia, Ukraine etc.), please contact your ISP to choose connction type manually.

The router provides **Auto-Detect** function and supports five types of WAN connection: **Dynamic IP**, **Static IP**, **PPPoE/Russian PPPoE**, **L2TP/Russian L2TP**, and **PPTP/Russian PPTP**. It's recommended that you make use of the **Auto-Detect** function. If you are sure of what kind of connection type your ISP provides, you can select the very type and click **Next** to go on configuring.

4. If you select Auto-Detect, the router will automatically detect the connection type your ISP provides. Make sure the cable is securely plugged into the Internet port before detection. The appropriate configuration page will be displayed when an active Internet service is successfully detected by the router.

P Note:

If Auto-Detect fails, you can select the connection type your ISP provides, and follow the configuring procedures below to continue.

 If the connection type detected is Dynamic IP, there will appear the MAC Clone page (as shown in figure below). In most cases, there is no need to clone the MAC address. You can select "No, I do NOT need to clone MAC address" and then click Next. If it is necessary in your case, please select "Yes, I need to clone MAC address" and then click Next.

Quick Setup - MAC Clone			
MAC(Media Access Control) address is a unique identifier that identifies your computer or device in the network. Some of the ISPs may register the MAC address of your computer which firstly connects to their services, and would not allow the Internet connection for any new computer or router. TP-LINK router can help you to "clone" or replicate the registered MAC address of your first computer.			
In most of the cases, there is no need to clone the MAC address. But if you can't get the Internet connection after Quick Setup, please run it again and clone the MAC address for a try.			
No, I do NOT need to clone MAC address.			
○ YES, I need to clone MAC address.			
Note: please make sure your current computer is the one initially connected to your modem or ISP's device.			
Back Next			

2) If the connection type detected is **Static IP**, the next screen will appear as shown in figure below. Configure the following parameters and then click **Next** to continue.

Quick Setup - Static IP		
Please enter the basic parameter settings provided	by your ISP. If basic pa	rameters are unknown, please contact ISP.
IP Address:	0.0.0.0	-
Subnet Mask:	0.0.0.0	-
Gateway:	0.0.0.0	-
DNS Server:	0.0.0.0	(optional)
Secondary DNS Server:	0.0.0.0	(optional)
	Back	Next

- IP Address This is the WAN IP address as seen by external users on the Internet (including your ISP). Your ISP will provide you with the IP address you need to enter here. Enter the IP address into the field.
- Subnet Mask The Subnet Mask is used for the WAN IP address. Your IPS will provide you with the subnet mask which is usually 255.255.255.0.
- Gateway Your ISP will provide you with the Gateway address which is the ISP server's address. Enter the gateway IP address into the box if required.
- > **DNS Server –** (Optional) Enter the DNS Server IP address into the box if required.
- Secondary DNS Server-(Optional) If your ISP provides another DNS server, enter it into this field.
- If the connection type detected is **PPPoE/Russia PPPoE**, the next screen will appear as shown in figure below. Configure the following parameters and then click **Next** to continue.

Quick Setup - PPPoE		
Please enter the Username and Password. If the Us	ername/Password are unknown, please contact your ISP.	
Username:	username	
Password:	••••••	
Confirm password:	•••••	
	Back Next	

- Username/Password Enter the Username and Password provided by your ISP. These fields are case-sensitive. If you have difficulty with this process, please contact your ISP.
- Confirm password Enter the password again to make sure that the password is correct.
- If your connection type is L2TP/ Russia L2TP, select L2TP/Russia L2TP and the next screen will appear as shown in figure below. Configure the following parameters and then click Next to continue.

Quick Setup - L2TP	
Please enter the Username and Password. If you for	rget them, please consult your ISP.
Username:	username
Password:	•••••
Addressing Type:	 Dynamic IP O Static IP
Server IP Address/Name:	
IP Address:	0.0.0
Subnet Mask:	0.0.0.0
Gateway:	0.0.0.0
DNS Server:	0.0.0.0, 0.0.0.0
	Back Next

Username/Password - Enter the Username and Password provided by your ISP. These fields are case-sensitive. If you have difficulty with this process, please contact your ISP.

Select **Static IP** if the IP Address/ Subnet Mask/ Gateway and DNS server address have been provided by your ISP. Then please enter server IP address or domain name provided by your ISP, and also enter the corresponding parameters.

Addressing Type:	O Dynamic IP 💿 St	atic IP
Server IP Address/Name:		
IP Address:	0.0.0	
Subnet Mask:	0.0.0	1
Gateway:	0.0.0.0	
DNS Server:	0.0.0	(optional)
Secondary DNS Server:	0.0.0	(optional)

Select **Dynamic IP** if none of the above parameters are provided. Then you just need to enter server IP address or domain name provided by your ISP.

	Oynamic IP	O Static IP	
Server IP Address/Name:			

5) If your connection type is **PPTP/Russia PPTP**, select PPTP/Russia PPTP and the next screen will appear as shown in figure below. Configure the following parameters and then click **Next** to continue.

lick Setup - РРТР			
Please enter the Username and Password. If y	ou forget the	m, pleas	ise consult your ISP.
Username:			
Password:			
Addressing Type:	Oynami	ic IP 🔘) Static IP
Server IP Address/Name:			
IP Address:	0.0.0.0		
Subnet Mask:	0.0.0.0		
Gateway:	0.0.0.0		
DNS Server:	0.0.0.0,	0.0.0.0	
	Back		Next

Username/Password - Enter the Username and Password provided by your ISP. These fields are case-sensitive. If you have difficulty with this process, please contact your ISP.

Select **Static IP** if the IP Address/ Subnet Mask/ Gateway and DNS server address have been provided by your ISP. Then please enter server IP address or domain name provided by your ISP, and also enter the corresponding parameters.

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Addressing Type:	🔘 Dynamic IP 💿 Si	atic IP
Server IP Address/Name:		-
IP Address:	0.0.0.0	
Subnet Mask:	0.0.0.0	-
Gateway:	0.0.0.0	-
DNS Server:	0.0.0.0	(optional)
Secondary DNS Server:	0.0.0.0	(optional)

Select **Dynamic IP** if none of the above parameters are provided. Then you just need to enter server IP address or domain name provided by your ISP.

	💿 Dynamic IP	🔘 Static IP	
Server IP Address/Name:			

5. After finishing the WAN Connection Type selection, the **Wireless Dual Band Selection** page will appear as shown in figure below. Choose the frequency you want for your wireless network and then click **Next**.

Quick Setup - Wireless Dual Band Selection
Please select or clear the check box to enable or disable a given radio band.
☑ 2.4GHz
☑ 5GHz
Back Next

- 2.4GHz You can use the 2.4GHz band to connect to many classic wireless devices like gaming consoles, laptops, DVRs, etc.
- 5GHz This band is less crowded and is used for time-sensitive music, video streaming or gaming. Using this band can avoid interference with 2.4GHz networks or noisy devices like cordless phones and microwave ovens.
- 6. Configure the basic parameters for 2.4GHz wireless network in the following screen as shown in figure below, and then click **Next**.

Quick Setup - Wireless 2.4GHz	
Wireless Network Name:	TP-LINK_2020 (Also called SSID)
Security:	
۲	WPA2-PSK (Recommended)
	Wireless Password 12345670
	(Enter ASCII characters between 8 and 63 or Hexadecimal characters between 8 and 64.)
0	Disable Wireless Security
More Advanced Wi	reless Settings
[Back Next

- Wireless Network Name Also called the SSID (Service Set Identification). Enter a value of up to 32 characters. The same name must be assigned to all wireless devices in your network. The default SSID is set to be TP-LINK_XXXX. This value is case-sensitive. For example, *TEST* is NOT the same as *test*.
- > Security
 - Enable Security (WPA-PSK/WPA2-PSK) It's selected by default, with the default PSK password the same as the default PIN code.
 - **Disable Wireless Security** The wireless security function can be enabled or disabled. If disabled, the wireless stations will be able to connect the router without encryption.

The above settings are only for basic wireless parameters. For advanced settings, please check "**More Advanced Wireless Settings**", and then you can set the following parameters.

	More Advanced Wireless Settings
Band:	2.4GHz
Mode:	11bgn mixed 💌
Channel Width:	Auto 💌
Channel:	Auto 💌

- > **Band** This field displayed the operating frequency being configured.
- > Mode This field determines the wireless mode which the router works on.
 - 11bg mixed Select if you are using both 802.11b and 802.11g wireless clients.
 - 11bgn mixed Select if you are using a mix of 802.11b, 11g, and 11n wireless clients.
- Channel Width Select any channel width from the drop-down list. The default setting is "Auto", which can adjust the channel width for your clients automatically.
- Channel 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. If you select "Auto", then the AP will select the best channel automatically.

7. Configure the basic parameters for 5GHz wireless network in the following screen as shown in figure below, and then click **Next**.

Quick Setup - Wireless 5GHz	
Wireless Network Name:	TP-LINK_2020_5G (Also called SSID)
Security:	
o	WPA2-PSK (Recommended)
•	Wireless Password 12345670
	(Enter ASCII characters between 8 and 63 or Hexadecimal characters between 8 and 64.)
0	Disable Wireless Security
More Advanced Wi	reless Settings
	Back Next

- Wireless Network Name Also called the SSID (Service Set Identification). Enter a value of up to 32 characters. The same name must be assigned to all wireless devices in your network. The default SSID is set to be TP-LINK_XXXX_5G. This value is case-sensitive. For example, *TEST* is NOT the same as *test*.
- > Security
 - Enable Security (WPA-PSK/WPA2-PSK) It's selected by default, with the default PSK password the same as the default PIN code.
 - **Disable Security** The wireless security function can be enabled or disabled. If disabled, the wireless stations will be able to connect the router without encryption.

The above settings are only for basic wireless parameters. For advanced settings, please check "**More Advanced Wireless Settings**", and then you can set the following parameters.

More Advanced	Vireless Settings
Band:	5GHz
Mode:	11a/n/ac mixed
Channel Width:	Auto
Channel:	Auto

- > **Band -** This field displayed the operating frequency being configured.
- > Mode This field determines the wireless mode which the router works on.
 - **11an mixed -** Select if you are using both 802.11a and 802.11n wireless clients.
 - 11a/n/ac mixed Select if you are using 802.11a, 802.11n and 802.11ac wireless clients.
- Channel Width Select any channel width from the drop-down list. The default setting is "Auto", which can adjust the channel width for your clients automatically.

- Channel 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. If you select "Auto", then the AP will select the best channel automatically.
- 8. Confirm the parameters and click the **Save** button to make the settings take effect.

Quick Setup - Confirm		
The Quick Setup is complete. Please confirm all parameters below. Click BACK to modify any settings or click SAVE to save and apply your configurations.		
Parameters Summary:		
Connection Type:	Dynamic IP	
Wireless 2.4GHz:	Enabled	
Wireless Network Name(SSID):	TP-LINK_113C	
Channel:		
Mode:	11bgn mixed	
Channel Width:	Auto	
Security:	WPA2-Personal	
Wireless Password:	12345670	
Wireless 5GHz:	Enabled	
Wireless Network Name(SSID):		
Channel:		
Mode:	11a/n/ac mixed	
Channel Width:	Auto	
Security:	WPA2-Personal	
Wireless Password:	12345670	
Back Save		

9. Click the **Finish** button to complete the **Quick Setup**.

Quick Setup - Complete	
Setup Status:	
Operation Mode Configuring:	Success
WAN Connection Configuring:	Success
Gateway and DNS Configuring:	Success
Wireless 2.4GHz Configuring:	Success
Wireless 5GHz Configuring:	Success
Quick Setup is complete. Please click FINISH to exit.	
Note: If the Modem Router still can not connect to the Internet, please click "Network > WAN Settings" menu on the left to confirm the WAN connection type and mode on the WAN Settings page.	
Finish	

Chapter 4. Configuring the router

This chapter will show each key function of the Web page and its configuration method.

4.1 Login

After your successful login, you will see the main menus on the left of the Web-based utility. On the right, there are the corresponding explanations and instructions.

Status
Quick Setup
Network
Dual Band Selection
Wireless 2.4GHz
Wireless 5GHz
Guest Network
DHCP
USB Settings
NAT
Forwarding
Security
Parent Control
Access Control
Advanced Routing
Bandwidth Control
IP & MAC Binding
Dynamic DNS
IPv6
System Tools
Logout

The detailed explanations for each key function are listed below.

4.2 Status

The Status page provides the current status information about the router. All information is read-only.

Status		
Firmware Version:	0.9.1 0.1 v0044.0 Build 141121 Rel.32711n	
Hardware Version:	Archer C20 v1 00000000	
LAN		
	E0:0A:EB:11:11:3C	
IP Address:		
Subnet Mask:		
Sublict Mask:	233.233.233.0	
Wireless 2.4GHz		
Wireless Radio:		
	TP-LINK_113C	
Mode:	11bgn mixed	
Channel:	Auto(Channel 1)	
Channel Width:	Auto	
MAC Address:	E0:0A:EB:11:11:3C	
WDS Status:	Disabled	
Wireless 5GHz		
Wireless Radio:		
	TP-LINK_113C_5G	
	11a/n/ac mixed	
	Auto(Channel 149)	
Channel Width:	Auto	
MAC Address:	E0:0A:EB:11:11:3B	
WDS Status:	Disabled	
WAN		
WAN	E0.04/EP.44.44/2D	
	E0:0A:EB:11:11:3D	
	192.168.1.2(Dynamic IP)	
Subnet Mask:		
Default Gateway:		
DNS Server:	192.168.1.1 0.0.0.0	
Svetam IIn Time:	0 day(s) 00:43:04 Refresh	
system of time.	Carles 10.43.04 [Relies]]	

4.3 Quick Setup

Please refer to 3.2 Quick Installation Guide.

4.4 Network

Network
- WAN
- LAN
- MAC Clone

There are three submenus under the Network menu: **WAN**, **LAN** and **MAC Clone**. Click any of them, and you will be able to configure the corresponding function.

4.4.1 WAN

Choose menu "Network \rightarrow WAN", you can configure the IP parameters of the WAN on the screen below.

1. If your ISP provides the DHCP service, please choose **Dynamic IP** type, and the router will automatically get IP parameters from your ISP. You can see the page as follows:

WAN Settings		
Connection Type:	Dynamic IP Detect	
IP Address:	0.0.0.0	
Subnet Mask:	0.0.0	
Gateway:	0.0.0	
	Renew	
MTU(Bytes):	1500 (1500 as default, do not change unless necessary)	
Enable IGMP Proxy:	V	
Get IP with Unicast:	(It is usually not required)	
Set DNS server manually:		
Host Name:	Archer_C20	
	Save	

This page displays the WAN IP parameters assigned dynamically by your ISP, including IP address, Subnet Mask, Default Gateway, etc. Click the **Renew** button to renew the IP parameters from your ISP. Click the **Release** button to release the IP parameters.

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

MTU (Bytes) - The normal MTU (Maximum Transmission Unit) value for most Ethernet networks is 1500 Bytes. It is not recommended that you change the default MTU size unless required by your ISP.

- > Enable Fullcone NAT It is a type of NAT, if not enabled, the default NAT will act.
- Enable IGMP Proxy IGMP (Internet Group Management Protocol) is used to manage multicasting on TCP/IP networks. Some ISPs use IGMP to perform remote configuration for client devices, such as the modem router. The default value is enabled, and if you are not sure, please contact your ISP or just leave it.
- Get IP with Unicast A few ISPs' DHCP servers do not support the broadcast applications. If you cannot get the IP Address normally, you can choose this option. (It is rarely required.)
- Set DNS server manually If your ISP gives you one or two DNS addresses, select Set DNS server manually and enter the primary and secondary addresses into the correct fields. Otherwise, the DNS servers will be assigned automatically from your ISP.

P Note:

If you find error when you go to a website after entering the DNS addresses, it is likely that your DNS servers are set up improperly. You should contact your ISP to get DNS server addresses.

> Host Name - This option specifies the Host Name of the router.

Click the **Save** button to save your settings.

2. If your ISP provides a static or fixed IP Address, Subnet Mask, Gateway and DNS setting, select **Static IP**. The Static IP settings page will appear, shown in figure below.

WAN Settings		
Connection Type:	Static IP	Detect
IP Address:	0.0.0.0	_
Subnet Mask:	0.0.0.0	
Gateway:	0.0.0.0	optional)
DNS Server:	0.0.0.0	(optional)
Secondary DNS Server:	0.0.0.0	(optional)
MTU(Bytes): Enable Fullcone NAT: Enable IGMP Proxy:	1500 (1500 as de	fault, do not change unless necessary)
	Save	

- > IP Address Enter the IP address in dotted-decimal notation provided by your ISP.
- Subnet Mask Enter the subnet Mask in dotted-decimal notation provided by your ISP, usually is 255.255.255.0.

- Gateway (Optional) Enter the gateway IP address in dotted-decimal notation provided by your ISP.
- DNS Server/Secondary DNS Server- (Optional) Enter one or two DNS addresses in dotted-decimal notation provided by your ISP.
- MTU (Bytes)- The normal MTU (Maximum Transmission Unit) value for most Ethernet networks is 1500 Bytes. It is not recommended that you change the default MTU size unless required by your ISP.
- > Enable Fullcone NAT It is a type of NAT, if not enabled, the default NAT will act.
- Enable IGMP Proxy IGMP (Internet Group Management Protocol) is used to manage multicasting on TCP/IP networks. Some ISPs use IGMP to perform remote configuration for client devices, such as the modem router. The default value is enabled, and if you are not sure, please contact your ISP or just leave it.

Click the **Save** button to save your settings.

3. If your ISP provides a PPPoE connection, select **PPPoE/Russia PPPoE** option. And you should enter the following parameters:

WAN Settings	
Connection Type:	PPPoE Detect
PPP Username:	
PPP Password:	
Confirm password:	
Secondary Connection:	O Disabled ○ Dynamic IP ○ Static IP (For Dual Access)
Connection Mode:	 Always on
	Connect on demand
	 Connect manually
	Max Idle Time: 15 minutes (0 meaning connection reamins active at all
times)	
Authentication Type:	AUTO_AUTH
	Connect Disconnect
	Advance 👻
	Save
	Ouro

Username/Password - Enter the User Name and Password provided by your ISP. These fields are case-sensitive.

- Secondary Connection It's available only for PPPoE Connection. If your ISP provides an extra Connection type such as Dynamic/Static IP to connect to a local area network, then you can check the radio button of Dynamic/Static IP to activate this secondary connection.
 - **Disabled** The Secondary Connection is disabled by default, so there is PPPoE connection only. This is recommended.
 - **Dynamic IP** You can check this radio button to use Dynamic IP as the secondary connection to connect to the local area network provided by ISP.
 - **Static IP** You can check this radio button to use Static IP as the secondary connection to connect to the local area network provided by ISP.
- > Always on In this mode, the Internet connection will be active all the time.
- Connect on Demand In this mode, the Internet connection can be terminated automatically after a specified inactivity period (Max Idle Time) and be re-established when you attempt to access the Internet again. If you want your Internet connection keeps active all the time, please enter "0" in the Max Idle Time field. Otherwise, enter the number of minutes you want to have elapsed before your Internet access disconnects.
- Connect Manually You can click the Connect/Disconnect button to connect/disconnect immediately. This mode also supports the Max Idle Time function as Connect on Demand mode. The Internet connection can be disconnected automatically after a specified inactivity period and re-established when you attempt to access the Internet again.

Click the **Connect** button to connect immediately. Click the **Disconnect** button to disconnect immediately.

Caution: Sometimes the connection cannot be terminated although you specify a time to Max Idle Time because some applications are visiting the Internet continually in the background.

If you want to do some advanced configurations, please click the **Advanced** button, and the page shown in figure below will then appear:

Archer C20 AC750 Wireless Dual Band Router

Service Name: Server Name:	(do not change unless necessary) (do not change unless necessary)
MTU(Bytes):	1480 (1480 as default, do not change unless necessary)
Enable Fullcone NAT:	
Enable IGMP Proxy:	
Use IP address specified by ISP:	
Echo request interval:	30 (0-120 seconds, 0 meaning no request)
Set DNS server manually:	
	Save

- Service Name/Server Name The service name and server name should not be configured unless you are sure it is necessary for your ISP. In most cases, leaving these fields blank will work.
- MTU(Bytes) The default MTU size is "1480" bytes, which is usually fine. It is not recommended that you change the default MTU Size unless required by your ISP.
- > Enable Fullcone NAT It is a type of NAT, if not enabled, the default NAT will act.
- Enable IGMP Proxy IGMP (Internet Group Management Protocol) is used to manage multicasting on TCP/IP networks. Some ISPs use IGMP to perform remote configuration for client devices, such as the modem router. The default value is enabled, and if you are not sure, please contact your ISP or just leave it.
- ISP Specified IP Address If your ISP does not automatically assign IP addresses to the router during login, please click "Use IP address specified by ISP" check box and enter the IP address provided by your ISP in dotted-decimal notation.
- Detect Online Interval The router will detect Access Concentrator online at every interval. The default value is "0". You can input the value between "0" and "120". The value "0" means no detect.
- Primary DNS/Secondary DNS If your ISP does not automatically assign DNS addresses to the router during login, please click "Set DNS server manually" check box and enter the IP address of your ISP's primary DNS server. If a secondary DNS server address is available, enter it as well.

Click the **Save** button to save your settings.

 If your ISP provides BigPond Cable (or Heart Beat Signal) connection, please select BigPond Cable. And you should enter the following parameters:

WAN Settings	
Connection Type:	BigPond Cable Detect
Username:	
Password:	
Auth Server:	
Auth Domain:	
MTU(Bytes):	1500 (1500 as default, do not change unless necessary)
Enable IGMP Proxy:	
Connection Mode:	 Always on
	Connect on demand
	Connect manually
	Max Idle Time: 15 minutes (0 meaning connection reamins active at all
times)	wax toto time. 125 timutes to meaning connection rearings active at all
	Connect Disconnect
	Save

- Username/Password Enter the User Name and Password provided by your ISP. These fields are case-sensitive.
- > Auth Server Enter the authenticating server IP address or host name.
- > Auth Domain Type in the domain suffix server name based on your location.

e.g.

NSW / ACT - nsw.bigpond.net.au VIC / TAS / WA / SA / NT - vic.bigpond.net.au QLD - qld.bigpond.net.au

- MTU(Bytes)- The normal MTU (Maximum Transmission Unit) value for most Ethernet networks is 1500 Bytes. It is not recommended that you change the default MTU value unless required by your ISP.
- Enable IGMP Proxy IGMP (Internet Group Management Protocol) is used to manage multicasting on TCP/IP networks. Some ISPs use IGMP to perform remote configuration for client devices, such as the modem router. The default value is enabled, and if you are not sure, please contact your ISP or just leave it.
- > Always on In this mode, the Internet connection will be active all the time.
- Connect on Demand In this mode, the Internet connection can be terminated automatically after a specified inactivity period (Max Idle Time) and be re-established when you attempt to access the Internet again. Enter the number of minutes you want to have elapsed before your Internet access disconnects.

Connect Manually - You can click the Connect/Disconnect button to connect/disconnect immediately. This mode also supports the Max Idle Time function as Connect on Demand mode. The Internet connection can be disconnected automatically after a specified inactivity period and re-established when you attempt to access the Internet again.

Click the **Connect** button to connect immediately. Click the **Disconnect** button to disconnect immediately.

Caution: Sometimes the connection cannot be terminated although you specify a time to Max Idle Time because some applications are visiting the Internet continually in the background.

Click the **Save** button to save your settings.

5. If your ISP provides L2TP connection, please select **L2TP/Russia L2TP** option. And you should enter the following parameters

WAN Settings		
Connection Type:	L2TP Detect	
Username:	username	
Password:	•••••	
	Connect Disconnect	
Addressing Type:	Oynamic IP ○ Static IP	
Server IP Address/Name:		
IP Address:	0.0.0	
Subnet Mask:	0.0.0.0	
Gateway:	0.0.0	
DNS Server:	0.0.0.0, 0.0.0.0	
IP Address:	0.0.0.0	
DNS Server:	0.0.0.0, 0.0.0.0	
MTU(Bytes):	1460 (1460 as default, do not change unless necessary)	
Enable IGMP Proxy:		
Connection Mode:	Always on	
	Connect on demand	
	Connect manually	
	Max Idle Time: 15 minutes (0 meaning connection reamins active at all times)	
	Save	

- > Username/Password Enter the Username and Password provided by your ISP. These fields are case-sensitive.
- Addressing Type Choose the addressing type given by your ISP, either Dynamic IP or Static IP. Click the Connect button to connect immediately. Click the Disconnect button to disconnect immediately.

- MTU(Bytes) The default MTU size is "1460" bytes, which is usually fine. It is not recommended that you change the default MTU Size unless required by your ISP.
- Enable IGMP Proxy IGMP (Internet Group Management Protocol) is used to manage multicasting on TCP/IP networks. Some ISPs use IGMP to perform remote configuration for client devices, such as the modem router. The default value is enabled, and if you are not sure, please contact your ISP or just leave it.
- > Always on In this mode, the Internet connection will be active all the time.
- Connect on Demand You can configure the router to disconnect from your Internet connection after a specified period of inactivity (Max Idle Time). If your Internet connection has been terminated due to inactivity, Connect on Demand enables the router to automatically re-establish your connection as soon as you attempt to access the Internet again. If you wish to activate Connect on Demand, check the radio button. If you want your Internet connection to remain active at all times, enter 0 in the Max Idle Time field. Otherwise, enter the number of minutes you want to have elapsed before your Internet connection terminates.
- Connect Manually You can configure the router to make it connect or disconnect manually. After a specified period of inactivity (Max Idle Time), the router will disconnect from your Internet connection, and you will not be able to re-establish your connection automatically as soon as you attempt to access the Internet again. To use this option, check the radio button. If you want your Internet connection to remain active at all times, enter "0" in the Max Idle Time field. Otherwise, enter the number of minutes that you wish to have the Internet connecting last unless a new link is requested.

Caution: Sometimes the connection cannot be disconnected although you specify a time to Max Idle Time, because some applications are visiting the Internet continually in the background.

Click the **Save** button to save your settings.

6. If your ISP provides PPTP connection, please select **PPTP/Russia PPTP** option. And you should enter the following parameters.

WAN Settings		
Connection Type:	PPTP Detect	
Username:		
Password:		
	Connect Disconnect	
Addressing Type:	⊙ Dynamic IP ○ Static IP	
Server IP Address/Name:		
IP Address:	0.0.0.0	
Subnet Mask:	0.0.0.0	
Gateway:	0.0.0.0	
DNS Server:	0.0.0.0, 0.0.0.0	
IP Address:	0.0.0.0	
DNS Server:	0.0.0.0, 0.0.0.0	
MTU(Bytes):	1420 (1420 as default, do not change unless necessary)	
Enable IGMP Proxy:		
Connection Mode:	 Always on 	
	Connect on demand	
	Connect manually	
	Max Idle Time: 15 minutes (0 meaning connection reamins active at all times)	
	Save	

- Use Name/Password Enter the User Name and Password provided by your ISP. These fields are case-sensitive.
- Dynamic IP/ Static IP Choose the addressing type given by your ISP, either Dynamic IP or Static IP, and enter the ISP's IP address or the domain name.

If you choose static IP and enter the domain name, you should also enter the DNS assigned by your ISP. And click the **Save** button.

Click the **Connect** button to connect immediately. Click the **Disconnect** button to disconnect immediately.

- MTU(Bytes) The default MTU size is "1420" bytes, which is usually fine. It is not recommended that you change the default MTU Size unless required by your ISP.
- Enable IGMP Proxy IGMP (Internet Group Management Protocol) is used to manage multicasting on TCP/IP networks. Some ISPs use IGMP to perform remote configuration for client devices, such as the modem router. The default value is enabled, and if you are not sure, please contact your ISP or just leave it.
- > Always on In this mode, the Internet connection will be active all the time.
- Connect on Demand You can configure the router to disconnect from your Internet connection after a specified period of inactivity (Max Idle Time). If your Internet connection

has been terminated due to inactivity, **Connect on Demand** enables the router to automatically re-establish your connection as soon as you attempt to access the Internet again. If you wish to activate **Connect on Demand**, check the radio button. If you want your Internet connection to remain active at all times, enter "0" in the **Max Idle Time** field. Otherwise, enter the number of minutes you want to have elapsed before your Internet connection terminates.

Connect Manually - You can configure the router to make it connect or disconnect manually. After a specified period of inactivity (Max Idle Time), the router will disconnect from your Internet connection, and you will not be able to re-establish your connection automatically as soon as you attempt to access the Internet again. To use this option, click the radio button. If you want your Internet connection to remain active at all times, enter "0" in the Max Idle Time field. Otherwise, enter the number in minutes that you wish to have the Internet connecting last unless a new link is requested.

Caution: Sometimes the connection cannot be disconnected although you specify a time to Max Idle Time because some applications are visiting the Internet continually in the background.

Click the **Save** button to save your settings.

Note:

If you don't know how to choose the appropriate connection type, click the **Detect** button to allow the router to automatically search your Internet connection for servers and protocols. The connection type will be reported when an active Internet service is successfully detected by the router. This report is for your reference only. To make sure the connection type your ISP provides, please refer to the ISP. The various types of Internet connections that the router can detect are as follows:

- **PPPoE -** Connections which use PPPoE that requires a user name and password.
- Dynamic IP Connections which use dynamic IP address assignment.
- Static IP Connections which use static IP address assignment.

The router cannot detect PPTP/L2TP/Big Pond connections with your ISP. If your ISP uses one of these protocols, then you must configure your connection manually.

4.4.2 LAN

Choose menu "**Network** \rightarrow **LAN**", you can configure the IP parameters of the LAN on the screen as below.

LAN Settings	
MAC Address:	00:0A:EB:13:09:69
IP Address:	192.168.0.1
Subnet Mask:	255.255.255.0
Enable IGMP Snooping:	V
	Save

- MAC Address The physical address of the router, as seen from the LAN. The value can't be changed.
- IP Address Enter the IP address of your router or reset it in dotted-decimal notation (factory default: 192.168.0.1).
- Subnet Mask An address code that determines the size of the network. Normally use 255.255.255.0 as the subnet mask.

P Note:

- 1) If you change the IP Address of LAN, you must use the new IP Address to log in the router.
- 2) If the new LAN IP Address you set is not in the same subnet, the IP Address pool of the DHCP server will change accordingly at the same time, while the Virtual Server and DMZ Host will not take effect until they are re-configured.

4.4.3 MAC Clone

Choose menu "**Network** \rightarrow **MAC Clone**", you can configure the MAC address of the WAN on the screen below:

MAC Clone		
WAN MAC Address: Your PC's MAC Address:	00:0A:EB:13:09:6A 90:2B:34:63:59:B6	Restore Factory MAC Clone MAC Address
	Save	

Some ISPs require that you register the MAC Address of your adapter. Changes are rarely needed here.

WAN MAC Address - This field displays the current MAC address of the Internet port. If your ISP requires you to register the MAC address, please enter the correct MAC address into this field in XX:XX:XX:XX:XX format (X is any hexadecimal digit). Your PC's MAC Address - This field displays the MAC address of the PC that is managing the router. If the MAC address is required, you can click the Clone MAC Address button and this MAC address will fill in the WAN MAC Address field.

Click **Restore Factory MAC** to restore the MAC address of Internet port to the factory default value. Click the **Save** button to save your settings.

P Note:

Only the PC on your LAN can use the MAC Address Clone function.

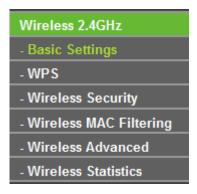
4.5 Dual Band Selection

Choose menu "**Dual Band Selection**", and you can choose the working frequency for your router. It is recommended that your computers and devices running video and voice applications use the 5GHz band, while your guest access and computers that are only browsing the web use the 2.4GHz band.

Dual Band Selection
Please select or clear the check box to enable or disable a given radio band.
✓ 2.4GHz
✓ 5GHz
Save

- 2.4GHz Click the box, and then the router will only work in 2.4GHz frequency. You can use the 2.4GHz band to connect to many classic wireless devices like gaming consoles, laptops, DVRs, etc.
- 5GHz Click the box, and then the router will only work in 5GHz frequency. This band is less crowded and is used for time-sensitive music, video streaming or gaming. Using this band can avoid interference with 2.4GHz networks or noisy devices like cordless phones and microwave ovens.

4.6 Wireless 2.4GHz



There are six submenus under the Wireless menu: **Basic Settings**, **WPS**, **Wireless Security**, **Wireless MAC Filtering**, **Wireless Advanced** and **Wireless Statistics**. Click any of them, and you will be able to configure the corresponding functions.

4.6.1 Basic Settings

Choose menu "Wireless 2.4GHz \rightarrow Basic Settings", you can configure the basic settings for the wireless network of 2.4GHz on this page.

Wireless Settings(2.4GHz)		
Wireless Network Name:	TP-LINK_2020	(Also called SSID)
Mode:	11bgn mixed	
Channel:	Auto	
Channel Width:	Auto	
	📝 Enable SSID Broadcast	
	Enable WDS	
	Save	

Wireless Settings – 2.4GHz**Wireless Network Name -** Also called the SSID (Service Set Identification). Enter a value of up to 32 characters. The same name must be assigned to all wireless devices in your network. Considering your wireless network security, the default SSID is set to be TP-LINK_XXXX. This value is case-sensitive. For example, *TEST* is NOT the same as *test*.

- > **Mode -** Select the desired mode.
 - 11bg mixed Select if you are using both 802.11b and 802.11g wireless clients.
 - 11bgn mixed Select if you are using a mix of 802.11b, 11g, and 11n wireless clients. It is strongly recommended that you set the Mode to 802.11bgn mixed, and all of 802.11b, 802.11g, and 802.11n wireless stations can connect to the router.
- Channel This field determines which operating frequency will be used. The default channel is set to Auto, so the AP will choose the best channel automatically. 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.

P Note:

If **11bg mixed** is selected in the **Mode** field, the **Channel Width** selecting field will turn grey and the value will become 20M, which is unable to be changed.

- Enable SSID Broadcast When wireless clients survey the local area for wireless networks to associate with, they will detect the SSID broadcast by the router. If you select the Enable SSID Broadcast checkbox, the Wireless router will broadcast its name (SSID) on the air.
- Enable WDS Check this box to enable WDS. With this function, the router can bridge two or more WLANs. If this checkbox is selected, you will have to set the following parameters as shown in figure below. Make sure the following settings are correct.

	Enable WDS	
SSID(to be bridged): MAC Address(to be bridged):		e.g. 00:1D:0F:11:22:33
/	Scan	
Key Type: WEP Index:	None	v
Authentication Type: Encryption:	Open System TKIP	× ×
Password:		

- SSID (to be bridged) The SSID of the AP your router is going to connect to as a client.
 You can also use the search function to select the SSID to join.
- MAC Address (to be bridged) The BSSID of the AP your router is going to connect to as a client. You can also use the search function to select the BSSID to join.
- **Scan** Click this button, you can search the AP which runs in the current channel.
- Key type This option should be chosen according to the AP's security configuration. It is recommended that the security type is the same as your AP's security type
- WEP Index This option should be chosen if the key type is WEP(ASCII) or WEP(HEX).
 It indicates the index of the WEP key.
- Authentication Type This option should be chosen if the key type is WEP(ASCII) or WEP(HEX). It indicates the authorization type of the Root AP.

- Encryption When WPA is set as the Authentication Type, you can select either TKIP or AES as Encryption.
- Password If the AP your router is going to connect needs password, you need to fill the password in this blank.

4.6.2 WPS

Choose menu "Wireless 2.4GHz \rightarrow WPS", you can the screen as shown in figure below. This section will guide you to add a new wireless device to an existing network quickly by WPS (Wi-Fi Protected Setup) function.

WPS (Wi-Fi Protected Setup)	
WPS:	Enabled Disable
Current PIN:	12345670 Restore PIN Generate New PIN Disable device PIN Disable device PIN
Add a new device:	Add device

- > WPS Enable or disable the WPS function here.
- > **Current PIN -** The current value of the router's PIN is displayed here.
- > **Restore PIN -** Restore the PIN of the router to its default.
- Generate New PIN Click this button, and then you can get a new random value for the router's PIN. You can ensure the network security by generating a new PIN.
- Disable device PIN If this box is checked, and then wireless clients will not be able to connect to the wireless network with PIN code.
- Add device You can add a new device to the existing network manually by clicking this button.

If the wireless adapter supports Wi-Fi Protected Setup (WPS), you can establish a wireless connection between wireless adapter and router using either Push Button Configuration (PBC) method or PIN method.

P Note:

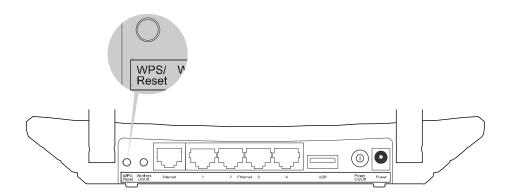
To build a successful connection by WPS, you should also do the corresponding configuration of the new device for WPS function meanwhile.

I. Use the Wi-Fi Protected Setup Button

Use this method if your client device has a WPS button.

Step 1: Press the WPS/Reset button on the side panel of the router, as shown in figure below.You can also keep the default WPS status as Enabled and click the Add device button.

Then choose "Press the WPS button of the new device within the next two minutes" and click Connect.



WPS Settings	
 Enter new device PIN. 	
PIN:	
\odot Press the WPS button of the new device within the next two	minutes.
Connect	Back

Step 2: Press and hold the WPS button of the client device.

Step 3: The Wi-Fi Protected Setup LED flashes for two minutes during the Wi-Fi Protected Setup process.

Step 4: When the WPS LED is on, the client device has successfully connected to the router.

II. Enter the client device's PIN on the router

Use this method if your client device does not have the WPS button, but has a Wi-Fi Protected Setup PIN number.

Step 1: Keep the default WPS status as Enabled and click the Add device button.

WPS Settings
Inter new device PIN.
PIN:
Press the WPS button of the new device within the next two minutes.
Connect Back

Step 2: Enter the PIN number from the client device in the field on the WPS screen above. Then click **Connect** button.

Step 3: "**Connect successfully**" will appear on the screen of figure above, which means the client device has successfully connected to the router.

III. Enter the router's PIN on your client device

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

- **Step 1:** On the client device, enter the PIN number listed on the router's Wi-Fi Protected Setup screen, shown in WPS page.
- **Step 2:** The Wi-Fi Protected Setup LED flashes for two minutes during the Wi-Fi Protected Setup process.

Step 3: When the WPS LED is on, the client device has successfully connected to the router.

P Note:

1) The WPS LED on the 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 router is disabled. Please make sure the Wireless Function is enabled before configuring the WPS.

4.6.3 Wireless Security

Choose menu "Wireless 2.4GHz → Wireless Security", you can configure the security settings of your wireless network. There are five wireless security modes supported by the router: WPA-Personal, WPA2-Personal, WPA-Enterprise, WPA2-Enterprise, and WEP.

For network security, it is strongly recomme encryption.	nded to enable wi	reless security and s	elect WPA2-PSK AES
O Disable Wireless Security			
WPA/WPA2 - Personal (Recommend	led)		
Authentication Type:	WPA2-PSK	\checkmark	
Encryption:	AES	~	
Wireless Password:	12345670		
Group Key Update Period:	0		
WPA/WPA2 - Enterprise			
Authentication Type:	Auto		
Encryption:	Auto		
RADIUS Server IP:			
RADIUS Server Port:	1812		
RADIUS Server Password:			
Group Key Update Period:	0		
O WEP			
Authentication Type:	Open System		
WEP Key Format:	Hexadecimal		
Selected Key:	WEP Key		Кеу Туре
Key 1: 💿			Disabled 🔽
Key 2: 🔾			Disabled
Key 3: 🔾			Disabled V
Key 4: 🔾			Disabled V

- Disable Wireless Security If you do not want to use wireless security, check this radio button. But it's strongly recommended to choose one of the following modes to enable security.
- WPA/WPA2-Personal It's the WPA/WPA2 authentication type based on pre-shared passphrase. The router is configured by this security type by default.
 - Authentication Type you can choose the version of the WPA-PSK security on the drop-down list. The default setting is Auto, which can select WPA-PSK (Pre-shared key of WPA) or WPA2-PSK (Pre-shared key of WPA) automatically based on the wireless station's capability and request.
 - Encryption When WPA-PSK or WPA is set as the Authentication Type, you can select either Automatic, or TKIP or AES as Encryption.

P Note:

If you check the **WPA/WPA2-Personal** radio button and choose **TKIP** encryption, you will find a notice in red as shown in figure below.

WPA/WPA2 - Personal (Recommend	ed)	
Authentication Type:	WPA2-PSK	
Encryption:	TKIP	
Wireless Password:	12345670	
Group Key Update Period:	0	

- Wireless Password You can enter ASCII characters between 8 and 63 characters or 8 to 64 Hexadecimal characters. The default password is the same with the default PIN code, which can be found in WPS page.
- Group Key Update Period Specify the group key update interval in seconds. The value should be 30 or above. Enter 0 to disable the update.
- > WPA/WPA2- Enterprise It's based on Radius Server.
 - Version you can choose the version of the WPA security on the drop-down list. The default setting is Automatic, which can select WPA (Wi-Fi Protected Access) or WPA2 (WPA version 2) automatically based on the wireless station's capability and request.
 - Encryption You can select either Automatic, or TKIP or AES.

Note:

If you check the **WPA/WPA2-Enterprise** radio button and choose **TKIP** encryption, you will find a notice in red as shown in figure below.

WPA/WPA2 - Enterprise		
Authentication Type:	Auto	~
Encryption:	TKIP	~
RADIUS Server IP:		
RADIUS Server Port:	1812	
RADIUS Server Password:		
Group Key Update Period:	0	

- Radius Server IP Enter the IP address of the Radius server.
- Radius Server Port Enter the port number of the Radius server.
- Radius Server Password Enter the password for the Radius server.
- **Group Key Update Period** Specify the group key update interval in seconds. The value should be 30 or above. Enter 0 to disable the update.

WEP - It is based on the IEEE 802.11 standard. If you check this radio button, you will find a notice in red as show in figure below.

● WEP		
Authentication Type:	Open System	
WEP Key Format:	Hexadecimal	
Selected Key:	WEP Key	Кеу Туре
Key 1: 💿		Disabled 🔽
Key 2: 🔾		Disabled 🔽
Key 3: 🔾		Disabled 🔽
Key 4: 🔾		Disabled 🔽

- Authentication Type you can choose the type for the WEP security on the drop-down list. The default setting is Auto, which can select Shared Key or Open System authentication type automatically based on the wireless station's capability and request.
- WEP Key Format Hexadecimal and ASCII formats are provided here. Hexadecimal format stands for any combination of hexadecimal digits (0-9, a-f, A-F) in the specified length. ASCII format stands for any combination of keyboard characters in the specified length.
- WEP Key Select which of the four keys will be used and enter the matching WEP key that you create. Make sure these values are identical on all wireless stations in your network.
- **Key Type** You can select the WEP key length (64-bit, or 128-bit, or 152-bit.) for encryption. "Disabled" means this WEP key entry is invalid.

64-bit - You can enter 10 hexadecimal digits (any combination of 0-9, a-f, A-F, zero key is not promoted) or 5 ASCII characters.

128-bit - You can enter 26 hexadecimal digits (any combination of 0-9, a-f, A-F, zero key is not promoted) or 13 ASCII characters.

P Note:

If you do not set the key, the wireless security function is still disabled even if you have selected Shared Key as Authentication Type.

Be sure to click the **Save** button to save your settings on this page.

4.6.4 Wireless MAC Filtering

Choose menu "Wireless 2.4GHz \rightarrow Wireless MAC Filtering", you can control the wireless access by configuring the Wireless MAC Filtering function, shown in figure below.

Archer C20 AC750 Wireless Dual Band Router

You can conf	igure Wireless MAC Filte	ering which allows	you to control wireles	s access on the network on this pag
Wireless M/	AC Filtering: Disabled	Enable		
Filtering Rule	s			
Output Deny the	e stations specified by ar	ny enabled entries	in the list to access.	
Allow the	stations specified by ar	ny enabled entries	in the list to access.	
	MAC Address	s Status	Host	Description Edit

To filter wireless users by MAC Address, click Enable. The default setting is Disabled.

- > MAC Address The wireless station's MAC address that you want to filter.
- Status The status of this entry, either **Enabled** or **Disabled**.
- **Host -** The host network for the filtering rules.
- > **Description -** A simple description of the wireless station.

To Add a Wireless MAC Address filtering entry, click the **Add New** button. The "**Add or Modify Wireless MAC Address Filtering entry**" page will appear, shown in figure below:

Add or Modify Wireless MAC Address	Filtering entry
You can configure Wireless MAC Filtering which	allows you to control wireless access on the network on this page.
MAC Address: Description: Status: Host:	Enabled TP-LINK_113C
	Save Back

To add or modify a MAC Address Filtering entry, follow these instructions:

- Enter the appropriate MAC Address into the MAC Address field. The format of the MAC Address is XX:XX:XX:XX:XX:XX (X is any hexadecimal digit). For example: 00:0A:EB:B0:00:0B.
- 2. Give a simple description for the wireless station in the **Description** field. For example: Wireless station A.
- 3. Select Enabled or Disabled for this entry on the Status drop-down list.
- 4. Click the **Save** button to save this entry.

To edit or delete an existing entry:

- 1. Click the Edit in the entry you want to modify. If you want to delete the entry, click the Delete.
- 2. Modify the information.
- 3. Click the **Save** button.

Click the Enable Selected button to make selected entries enabled

Click the **Disable Selected** button to make selected entries disabled.

Click the **Delete Selected** button to delete selected I entries.

For example: If you desire that the wireless station A with MAC address 00:0A:EB:B0:00:0B and the wireless station B with MAC address 00:0A:EB:00:07:5F are able to access the router, but all the other wireless stations cannot access the router, you can configure the **Wireless MAC Address Filtering** list by following these steps:

- 1. Click the **Enable** button to enable this function.
- 2. Select the radio button "Allow the entries specified by any enabled entries in the list to access" for Filtering Rules.
- 3. Delete all or disable all entries if there are any entries already.
- 4. Click the Add New button.
 - 1) Enter the MAC address 00:0A:EB:B0:00:0B /00:0A:EB:00:07:5F in the **MAC Address** field.
 - 2) Enter wireless station A/B in the **Description** field.
 - 3) Select Enabled in the Status drop-down list.
 - 4) Click the **Save** button.

The filtering rules that configured should be similar to the following list:

Filtering Rules						
One Deny the state	tations	specified by any enabled	d entries in the l	ist to access.		
Allow the s	stations	specified by any enable	d entries in the	list to access.		
		MAC Address	Status	Host	Description	Edit
		00:0A:EB:B0:00:0B	Enabled	TP-LINK_113C	wireless station A	<u>Edit</u>

4.6.5 Wireless Advanced

Choose menu "Wireless 2.4GHz \rightarrow Wireless Advanced", you can configure the advanced settings of your wireless network.

reless Advanced		
Notice: For better performance, Fragmentat	ion Threshold i	s disabled when wireless mode include 11n or 11ac.
Transmit Power:	High 💌	1
Beacon Interval:	100	(25-1000)
RTS Threshold:	2346	(1-2346)
Fragmentation Threshold:	2346	(256-2346)
DTIM Interval:	1	(1-255)
	🗹 Enable :	Short GI
	🔲 Enable	Client Isolation
	🗹 Enable V	/VMM
	Sav	/e

- Transmit Power Here you can specify the transmit power of router. You can select High, Middle or Low which you would like. High is the default setting and is recommended.
- Beacon Interval Enter a value between 20-1000 milliseconds for Beacon Interval here. The beacons are the packets sent by the router to synchronize a wireless network. Beacon Interval value determines the time interval of the beacons. The default value is 100.
- RTS Threshold Here you can specify the RTS (Request to Send) Threshold. If the packet is larger than the specified RTS Threshold size, the router will send RTS frames to a particular receiving station and negotiate the sending of a data frame. The default value is 2346.
- Fragmentation Threshold This value is the maximum size determining whether packets will be fragmented. Setting the Fragmentation Threshold too low may result in poor network performance because of excessive packets. 2346 is the default setting and is recommended.
- DTIM Interval This value determines the interval of the Delivery Traffic Indication Message (DTIM). A DTIM field is a countdown field informing clients of the next window for listening to broadcast and multicast messages. When the router has buffered broadcast or multicast messages for associated clients, it sends the next DTIM with a DTIM Interval value. You can specify the value between 1-15 Beacon Intervals. The default value is 1, which indicates the DTIM Interval is the same as Beacon Interval.
- Enable Short GI This function is recommended for it will increase the data capacity by reducing the guard interval time.
- Enable Client Isolation This function can isolate wireless stations on your network from each other. Wireless devices will be able to communicate with the router but not with each other. To use this function, check this box. AP Isolation is disabled by default.

Enable WMM - WMM function can guarantee the packets with high-priority messages being transmitted preferentially. It is strongly recommended.

P Note:

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

4.6.6 Wireless Statistics

Choose menu "Wireless 2.4GHz → Wireless Statistics", you can see the MAC Address, Current Status, Received Packets and Sent Packets for each connected wireless station.

Wire	eless Stations Currently (Connected: 1 R	lefresh		
ID	MAC Address	Current Status	Received Packets	Sent Packets	SSID
4	78:E8:B6:9A:5E:21	Associated	154	80	TP-LINK_113C

- > MAC Address The connected wireless station's MAC address
- > **Current Status -** The running status of the connected wireless stations.
- > Received Packets Packets received by the station
- > Sent Packets Packets sent by the station

You cannot change any of the values on this page. To update this page and to show the current connected wireless stations, click on the **Refresh** button.

If the numbers of connected wireless stations go beyond one page, click the **Next** button to go to the next page and click the **Previous** button to return the previous page.

P Note:

This page will be refreshed automatically every 5 seconds.

4.7 Wireless 5GHz

Wireless 5GHz
- Basic Settings
- WPS
- Wireless Security
- Wireless MAC Filtering
- Wireless Advanced
- Wireless Statistics

There are six submenus under the Wireless menu: **Basic Settings**, **WPS**, **Wireless Security**, **Wireless MAC Filtering**, **Wireless Advanced** and **Wireless Statistics**. Click any of them, and you will be able to configure the corresponding functions.

4.7.1 Basic Settings

Choose menu "Wireless 5GHz \rightarrow Basic Settings", you can configure the basic settings for the wireless network of 5GHz on this page.

Wireless Settings(5GHz)		
Wireless Network Name:	TP-LINK_2020_5G	(Also called SSID)
Mode:	11a/n/ac mixed	
Channel:	Auto 💌	
Channel Width:	Auto 💌	
	📝 Enable SSID Broadcast	
	Enable WDS	
	Save	

- Wireless Network Name Also called the SSID (Service Set Identification). Enter a value of up to 32 characters. The same name must be assigned to all wireless devices in your network. Considering your wireless network security, the default SSID is set to be TP-LINK_XXXX_5G. This value is case-sensitive. For example, *TEST* is NOT the same as *test*.
- > **Mode -** Select the desired mode.
 - **11an mixed** Select if you are using both 802.11a and 802.11n wireless clients. If you set the Mode **11an mixed**, all of 802.11a and 802.11n wireless stations can connect to the router.
 - 11a/n/ac mixed Select if you are using a mix of 802.11a, 802.11n and 802.11ac wireless clients. It is strongly recommended you set the Mode 11a/n/ac mixed, all of 802.11a, 802.11n and 802.11ac wireless stations can connect to the router.

- Channel This field determines which operating frequency will be used. The default channel is set to Auto, so the router will choose the best channel automatically. It is not necessary to change the wireless channel unless you notice interference problems with another nearby access point.
- Enable SSID Broadcast When wireless clients survey the local area for wireless networks to associate with, they will detect the SSID broadcast by the router. If you select the Enable SSID Broadcast checkbox, the Wireless router will broadcast its name (SSID) on the air.
- Enable WDS Bridging Check this box to enable WDS. With this function, the router can bridge two or more WLANs. If this checkbox is selected, you will have to set the following parameters as shown in figure below. Make sure the following settings are correct.

	Enable WDS	
SSID(to be bridged): MAC Address(to be bridged):		e.g. 00:1D:0F:11:22:
	Scan	
Key Type:	None	
WEP Index:	1	~
Authentication Type:	Open System	~
Encryption:	TKIP	~
Password:		

- SSID (to be bridged) The SSID of the AP your router is going to connect to as a client. You can also use the search function to select the SSID to join.
- MAC Address (to be bridged) The BSSID of the AP your router is going to connect to as a client. You can also use the search function to select the BSSID to join.
- > Scan Click this button, you can search the AP which runs in the current channel.
- Key type This option should be chosen according to the AP's security configuration. It is recommended that the security type is the same as your AP's security type
- WEP Index This option should be chosen if the key type is WEP(ASCII) or WEP(HEX). It indicates the index of the WEP key.
- Authentication Type This option should be chosen if the key type is WEP(ASCII) or WEP(HEX). It indicates the authorization type of the Root AP.
- Encryption When WPA is set as the Authentication Type, you can select either TKIP or AES as Encryption.
- Password If the AP your router is going to connect needs password, you need to fill the password in this blank.

4.7.2 WPS

Choose menu "Wireless 5GHz \rightarrow WPS", you can the screen as shown in figure below. This section will guide you to add a new wireless device to an existing network quickly by WPS (Wi-Fi Protected Setup) function.

WPS (Wi-Fi Protected Setup)		
WPS:	Enabled Disable	
Current PIN:	12345670 Restore PIN Generate	e New PIN
	Disable device PIN	
Add a new device:	Add device	

- > **WPS -** Enable or disable the WPS function here.
- > **Current PIN -** The current value of the router's PIN is displayed here.
- > Restore PIN Restore the PIN of the router to its default.
- Generate New PIN Click this button, and then you can get a new random value for the router's PIN. You can ensure the network security by generating a new PIN.
- Add device You can add a new device to the existing network manually by clicking this button.

If the wireless adapter supports Wi-Fi Protected Setup (WPS), you can establish a wireless connection between wireless adapter and router using either Push Button Configuration (PBC) method or PIN method.

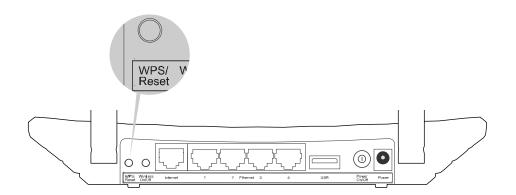
Note:

To build a successful connection by WPS, you should also do the corresponding configuration of the new device for WPS function meanwhile.

I. Use the Wi-Fi Protected Setup Button

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

Step 1: Press the WPS/Reset button on the back panel of the router. You can also keep the default WPS status as Enabled and click the Add device button. Then choose "Press the button of the new device in two minutes" and click Connect



WPS Settings	
Enter new device	PIN.
PIN:	
Press the WPS t	utton of the new device within the next two minutes.
	Connect Back

Step 2: Press and hold the WPS button of the client device directly.

Step 3: The Wi-Fi Protected Setup LED flashes for two minutes during the Wi-Fi Protected Setup process.

Step 4: When the WPS LED is on, the client device has successfully connected to the router.

II. Enter the client device's PIN on the router

Use this method if your client device does not have the WPS button, but has a Wi-Fi Protected Setup PIN number.

Step 1: Keep the default WPS status as Enabled and click the Add device button.

WPS Settings
Inter new device PIN.
PIN:
Press the WPS button of the new device within the next two minutes.
Connect Back

- Step 2: Enter the PIN number from the client device in the field on the above WPS screen. Then click **Connect** button.
- Step 3: "Connect successfully" will appear on the screen of figure above, which means the client device has successfully connected to the router.
- III. Enter the router's PIN on your client device

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

- Step 1: On the client device, enter the PIN number listed on the router's Wi-Fi Protected Setup screen.
- **Step 2:** The Wi-Fi Protected Setup LED flashes for two minutes during the Wi-Fi Protected Setup process.
- Step 3: When the WPS LED is on, the client device has successfully connected to the router.

Note:

- 1) The WPS LED on the 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 router is disabled. Please make sure the Wireless Function is enabled before configuring the WPS.

4.7.3 Wireless Security

Choose menu "Wireless 5GHz \rightarrow Wireless Security", you can configure the security settings of your wireless network.

There are five wireless security modes supported by the router: WPA-Personal, WPA2-Personal, WPA2-Enterprise, and WEP.

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Note: WEP security, WPAWPA2-Enterprise enabled.	authentication and TKIP encryption a	re not supported with WPS
For network security, it is strongly recomme	ended to enable wireless security and	use WPA-PSK AES encryption.
O Disable Wireless Security		
WPA/WPA2 - Personal (Recommended)	ed)	
Authentication Type:	WPA2-PSK	
Encryption:	AES	
Wireless Password:	12345670	
Group Key Update Period:	0	
O WPA/WPA2 - Enterprise		
Authentication Type:	Auto	
Encryption:	Auto	
RADIUS Server IP:		
RADIUS Server Port:	1812 (1-65535, 0 stands for de	(fault port 1812)
RADIUS Server Password:		
Group Key Update Period:	0	
○ WEP		
Authentication Type:	Open System 🔽	
WEP Key Format:	Hexadecimal 🔽	
Selected Key:	WEP Key	Кеу Туре
Key 1: 💿		Disabled 🔽
Key 2: 🔾		Disabled 🔽
Key 3: 🔾		Disabled 🔽
Key 4: 🔾		Disabled 🔽

- Disable Security If you do not want to use wireless security, check this radio button. But it's strongly recommended to choose one of the following modes to enable security.
- WPA/WPA2-Personal It's the WPA/WPA2 authentication type based on pre-shared passphrase. The router is configured by this security type by default.
 - Authentication Type- you can choose the version of the WPA-PSK security on the drop-down list. The default setting is Automatic, which can select WPA-PSK (Pre-shared key of WPA) or WPA2-PSK (Pre-shared key of WPA) automatically based on the wireless station's capability and request.
 - Encryption When WPA-PSK or WPA is set as the Authentication Type, you can select either Automatic, or TKIP or AES as Encryption.

P Note:

If you check the **WPA/WPA2-Personal** radio button and choose **TKIP** encryption, you will find a notice in red.

WPA/WPA2 - Personal (Recommend		
Authentication Type:	WPA2-PSK	
Encryption:	TKIP	
Wireless Password:	12345670	
Group Key Update Period:	0	

- Wireless Password You can enter ASCII characters between 8 and 63 characters or 8 to 64 Hexadecimal characters. The default password is the same with the default PIN code, which can be found in WPS page.
- **Group Key Update Period** Specify the group key update interval in seconds. The value should be 30 or above. Enter 0 to disable the update.
- > WPA /WPA2- Enterprise It's based on Radius Server.
 - Authentication Type you can choose the version of the WPA security on the drop-down list. The default setting is Automatic, which can select WPA (Wi-Fi Protected Access) or WPA2 (WPA version 2) automatically based on the wireless station's capability and request.
 - Encryption You can select either Automatic, or TKIP or AES.
 - P Note:

If you check the **WPA/WPA2-Enterprise** radio button and choose **TKIP** encryption, you will find a notice in red as shown in figure below.

Authentication Type:	Auto	v		
Encryption:	TKIP	~		
RADIUS Server IP:				
RADIUS Server Port:	1812			
RADIUS Server Password:				
Group Key Update Period:	0			

- Radius Server IP Enter the IP address of the Radius server.
- Radius Server Port Enter the port number of the Radius server.
- Radius Server Password Enter the password for the Radius server.
- **Group Key Update Period** Specify the group key update interval in seconds. The value should be 30 or above. Enter 0 to disable the update.

WEP - It is based on the IEEE 802.11 standard. If you check this radio button, you will find a notice in red as show in figure below.

● WEP		
Authentication Type:	Open System	
WEP Key Format:	Hexadecimal	
Selected Key:	WEP Key	Кеу Туре
Key 1: 💿		Disabled 🔽
Key 2: 🔾		Disabled 🔽
Key 3: 🔾		Disabled 🔽
Key 4: 🔾		Disabled 🔽

- Authentication Type you can choose the type for the WEP security on the drop-down list. The default setting is Automatic, which can select Shared Key or Open System authentication type automatically based on the wireless station's capability and request.
- WEP Key Format Hexadecimal and ASCII formats are provided here. Hexadecimal format stands for any combination of hexadecimal digits (0-9, a-f, A-F) in the specified length. ASCII format stands for any combination of keyboard characters in the specified length.
- WEP Key Select which of the four keys will be used and enter the matching WEP key that you create. Make sure these values are identical on all wireless stations in your network.
- **Key Type** You can select the WEP key length (64-bit, or 128-bit, or 152-bit.) for encryption. "Disabled" means this WEP key entry is invalid.

64-bit - You can enter 10 hexadecimal digits (any combination of 0-9, a-f, A-F, zero key is not promoted) or 5 ASCII characters.

128-bit - You can enter 26 hexadecimal digits (any combination of 0-9, a-f, A-F, zero key is not promoted) or 13 ASCII characters.

Solution Note:

If you do not set the key, the wireless security function is still disabled even if you have selected Shared Key as Authentication Type.

Be sure to click the **Save** button to save your settings on this page.

4.7.4 Wireless MAC Filtering

Choose menu "Wireless \rightarrow MAC Filtering", you can control the wireless access by configuring the Wireless MAC Filtering function, shown in figure below.

Wireless MAC Filt	ering					
You can configure V	/ireless MAC Filterin	ig which allows	you to control wireles	s access on the r	etwork o	on this page.
<u> </u>	ns specified by any e		in the list to access.			
	MAC Address	Status	Host	Description	Edit	
Add New	Enable Select	ed Di	sable Selected	Delete Selec	ted	

To filter wireless users by MAC Address, click Enable. The default setting is Disabled.

- > MAC Address The wireless station's MAC address that you want to filter.
- Status The status of this entry, either **Enabled** or **Disabled**.
- > Host- The host network for the filtering rules.
- **Description -** A simple description of the wireless station.

To Add a Wireless MAC Address filtering entry, click the **Add New** button. The "**Add or Modify Wireless MAC Address Filtering entry**" page will appea:

Add or Modify Wireless MAC Address I	Filtering entry
You can configure Wireless MAC Filtering which	allows you to control wireless access on the network on this page.
MAC Address:	
Description:	
Status:	Enabled -
Host:	TP-LINK_113C_5G
	Save Back

To add or modify a MAC Address Filtering entry, follow these instructions:

- Enter the appropriate MAC Address into the MAC Address field. The format of the MAC Address is XX:XX:XX:XX:XX:XX (X is any hexadecimal digit). For example: 00:0A:EB:B0:00:0B.
- 2. Give a simple description for the wireless station in the **Description** field. For example: Wireless station A.
- 3. Select **Enabled** or **Disabled** for this entry on the **Status** drop-down list.
- 4. Select the Host for the entry.

5. Click the **Save** button to save this entry.

To modify or delete an existing entry:

- 1. Click the **Modify** in the entry you want to modify. If you want to delete the entry, click the **Delete**.
- 2. Modify the information.
- 3. Click the **Save** button.

Click the **Enable Selected** button to make the selected entries enabled

Click the **Disable Selected** button to make the selected entries disabled.

Click the **Delete Selected** button to delete the selected entries.

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

For example: If you desire that the wireless station A with MAC address 00:0A:EB:B0:00:0B and the wireless station B with MAC address 00:0A:EB:00:07:5F are able to access the router, but all the other wireless stations cannot access the router, you can configure the **Wireless MAC Address Filtering** list by following these steps:

- 1. Click the **Enable** button to enable this function.
- 2. Select the radio button "Allow the entries specified by any enabled entries in the list to access" for Filtering Rules.
- 3. Delete all or disable all entries if there are any entries already.
- 4. Click the **Add New** button.
- 5. Enter the MAC address 00:0A:EB:B0:00:0B /00:0A:EB:00:07:5F in the MAC Address field.
- 6. Enter wireless station A/B in the **Description** field.
- 7. Select Enabled in the Status drop-down list.
- 8. Click the **Save** button.
- 9. Click the **Back** button.

The filtering rules that configured should be similar to the following list:

tering Rules						
Deny the s	tations	specified by any enab	oled entries in t	he list to access.		
Allow the	stations	specified by any ena	bled entries in	the list to access.		
					1	
		MAC Address	Status	Host	Description	Edit
		00:0A:EB:B0:00:0B	Enabled	TP-LINK_113C_5G	wireless station A	<u>Edit</u>
		00:0A:EB:00:07:5F	Enabled	TP-LINK_113C_5G	wireless station B	<u>Edit</u>

4.7.5 Wireless Advanced

Choose menu "Wireless \rightarrow Wireless Advanced", you can configure the advanced settings of your wireless network.

Wireless Advanced		
Notice: For better performance, Fragmentat	ion Threshold	is disabled when wireless mode include 11n or 11ac.
Transmit Power:	High 💌]
Beacon Interval:	100	(25-1000)
RTS Threshold:	2346	(1-2346)
Fragmentation Threshold:	2346	(256-2346)
DTIM Interval:	1	(1-255)
	🗹 Enable	Short GI
	📃 Enable	Client Isolation
	🗹 Enable	WMM
	Sa	ve

- Transmit Power Here you can specify the transmit power of router. You can select High, Middle or Low which you would like. High is the default setting and is recommended.
- Beacon Interval Enter a value between 20-1000 milliseconds for Beacon Interval here. The beacons are the packets sent by the router to synchronize a wireless network. Beacon Interval value determines the time interval of the beacons. The default value is 100.
- RTS Threshold Here you can specify the RTS (Request to Send) Threshold. If the packet is larger than the specified RTS Threshold size, the router will send RTS frames to a particular receiving station and negotiate the sending of a data frame. The default value is 2346.
- Fragmentation Threshold This value is the maximum size determining whether packets will be fragmented. Setting the Fragmentation Threshold too low may result in poor network performance because of excessive packets. 2346 is the default setting and is recommended.
- DTIM Interval This value determines the interval of the Delivery Traffic Indication Message (DTIM). A DTIM field is a countdown field informing clients of the next window for listening to broadcast and multicast messages. When the router has buffered broadcast or multicast messages for associated clients, it sends the next DTIM with a DTIM Interval value. You can specify the value between 1-15 Beacon Intervals. The default value is 1, which indicates the DTIM Interval is the same as Beacon Interval.
- Enable Short GI This function is recommended for it will increase the data capacity by reducing the guard interval time.

- Enable Client Isolation This function can isolate wireless stations on your network from each other. Wireless devices will be able to communicate with the router but not with each other. To use this function, check this box. AP Isolation is disabled by default.
- Enable WMM WMM function can guarantee the packets with high-priority messages being transmitted preferentially. It is strongly recommended.

P Note:

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

4.7.6 Wireless Statistics

Choose menu "Wireless \rightarrow Wireless Statistics", you can see the MAC Address, Current Status, Received Packets and Sent Packets for each connected wireless station.

Wir	eless Stations Currently	Connected: 1 R	lefresh		
ID	MAC Address	Current Status	Received Packets	Sent Packets	SSID
	78:E8:B6:9A:5E:21	Associated	6	3	TP-LINK 113C 5G

- > MAC Address The connected wireless station's MAC address.
- > Current Status The connected wireless station's running status,
- > **Received Packets -** Packets received by the station.
- > **Sent Packets -** Packets sent by the station.

You cannot change any of the values on this page. To update this page and to show the current connected wireless stations, click on the **Refresh** button.

If the numbers of connected wireless stations go beyond one page, click the **Next** button to go to the next page and click the **Previous** button to return the previous page.

P Note:

This page will be refreshed automatically every 5 seconds.

4.8 Guest Network

Choose "**Guest Network**", and you can configure the Guest Network Wireless Settings on the page as shown in figure below.

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A	llow G	uests T	o Acc		y Loca etwork		Disable	е	~								
Allow Gu	uests To	Acces	ss My		-		Disable	е									
		Guest	Netw		haring	-	Disable	2									
Gu	iest Net						Disable										
								_									
				Band	Selec	t: [2.4GHz	z		-							
			Gu	iest N	etworl	k: (Enal	ble () Dis	able							
			Ne	twork	Name	e: [PP-LI	NK_C	Guest	2.4	GHz						
		M	ax Gu	ests n	umbe	r:	32										
				S	ecurity	/:	Disable	e Wir	eless	Secu	rity	~					
			1	Acces			Calaadu	d a									
				HULES	sime	e: -	Schedu	ule									
Click the scł	hedule t	able or								_	you n	ieed th	e wirel	ess of	auton	natical	y!
Click the scl hedule is ba			use th	e 'Add	ľ butto	n to cl	noose tł	he pe	riod on	which	-				auton	natical	y!
hedule is ba	sed on t	the time	use th e of the /ireles	e 'Add e Routi s Sch	d butto er. The edule:	n to cl time	noose tł	he per set in Ie	riod on "Syst	em To	ols ->]				auton	natical	y!
hedule is bas	sed on t o:	the time	use the e of the /ireles	e 'Add e Routi s Sch Start T	d butto er. The edule:	n to cl time	can be	he per set in Ie End	riod on "Syst	em To	ols ->]		ettings	<u>e</u> ".	auton	natical	y!
hedule is ba	sed on t o:	the time	use th e of the /ireles	e 'Add e Routi s Sch Start T	d butto er. The edule:	n to cl time	can be	he per set in Ie	riod on "Syst	em To	ols ->]		ettings		auton	natical	yl
hedule is bas	sed on t o:	the time	use the e of the /ireles	e 'Add e Routi s Sch Start T	l' butto er. The edule: Time:	n to cl time	noose th can be) Enab	he per set in Ie End	riod on "Syst	em To	ols ->] ble	Time S	A	<u>e</u> ".			y!
hedule is bas	sed on t	the time W	use the e of the /ireles S	e 'Add Route s Sch Start T 00	l' butto er. The edule: Time:	n to cl e time : C	noose th can be) Enab	he per set in le End 24:00	riod on ''Syst I Time	which em To) Disa ::	ols ->] ble	Time S	A	<u>dd</u>			y!
hedule is bas	sed on t	the time W	use the e of the /ireles S	e 'Add Route s Sch Start T 00	l' butto er. The edule: Time:	n to cl e time : C	noose th can be) Enab	he per set in le End 24:00	riod on ''Syst I Time	which em To) Disa ::	ols ->] ble	Time S	A	<u>dd</u>			y!
hedule is bas	ised on t	the time W	use the e of the /ireles S	e 'Add Route s Sch Start T 00	l' butto er. The edule: Time:	n to cl e time : C	noose th can be) Enab	he per set in le End 24:00	riod on ''Syst I Time	which em To) Disa ::	ols ->] ble	Time S	A	<u>dd</u>			y!
hedule is bas	Time Sun. Mon.	the time W	use the e of the /ireles S	e 'Add Route s Sch Start T 00	l' butto er. The edule: Time:	n to cl e time : C	noose th can be) Enab	he per set in le End 24:00	riod on ''Syst I Time	which em To) Disa ::	ols ->] ble	Time S	A	<u>dd</u>			y!
hedule is bas	o: Time Sun. Mon. Tues.	the time W	use the e of the /ireles S	e 'Add Route s Sch Start T 00	l' butto er. The edule: Time:	n to cl e time : C	noose th can be) Enab	he per set in le End 24:00	riod on ''Syst I Time	which em To) Disa ::	ols ->] ble	Time S	A	<u>dd</u>			y!
hedule is bas	Time Sun. Mon. Tues. Wed. Thur. Fri.	the time W	use the e of the /ireles S	e 'Add Route s Sch Start T 00	l' butto er. The edule: Time:	n to cl e time : C	noose th can be) Enab	he per set in le End 24:00	riod on ''Syst I Time	which em To) Disa ::	ols ->] ble	Time S	A	<u>dd</u>			y!
hedule is bas	Time Sun. Mon. Tues. Wed. Thur.	the time W	use the e of the /ireles S	e 'Add Route s Sch Start T 00	l' butto er. The edule: Time:	n to cl e time : C	noose th can be) Enab	he per set in le End 24:00	riod on ''Syst I Time	which em To) Disa ::	ols ->] ble	Time S	A	<u>dd</u>			y!
hedule is bas	Time Sun. Mon. Tues. Wed. Thur. Fri.	the time W	use the e of the /ireles S	e 'Add Route s Sch Start T 00	l' butto er. The edule: Time:	n to cl e time : C	noose th can be) Enab	he per set in le End 24:00	riod on ''Syst I Time	which em To) Disa ::	ols ->] ble	Time S	A	<u>dd</u>			y!
Apply T Each Day	Time Sun. Mon. Tues. Wed. Thur. Fri.		use the e of the /ireles S	e 'Add Route s Sch Start T 00	l' butto er. The edule: Time:	n to cl e time : C	noose th can be) Enab	he per set in le End 24:00	riod on ''Syst I Time	which em To) Disa ::	ols ->] ble	Time S	A	<u>dd</u>			yı

- Allow Guest To Access My Local Network If enabled, guests can communicate with hosts.
- Allow Guest To Access My USB Storage Sharing If enabled, guests can access to USB storage sharing servers.
- > Guest Network Isolation -. If enabled, guests are isolated from each other.
- Guest Network Bandwidth Control If enabled, the Guest Network Bandwidth Control rules will take effect.
- Band Select/Guest Network Select the wireless network band (2.4G/5G) and enabled or disable its Guest Network function.

- Network Name Enter a value of up to 32 characters. The same Name (SSID) must be assigned to all wireless devices in your Guest Network.
- > Max Guest number The maximum of guests at the same time,
- **Security** You can configure the security of Guest Network here.
- > Access Time During this time the wireless stations could accessing the AP.

P Note:

The range of bandwidth for Guest Network is calculated according to the setting of Bandwidth Control on the page "Bandwidth Control->Control Settings".

4.9 DHCP

DHCP	
- DHCP	Settings
- DHCP	Clients List
- Addre	ess Reservation

There are three submenus under the DHCP menu: **DHCP Settings**, **DHCP Clients List** and **Address Reservation**. Click any of them, and you will be able to configure the corresponding functions.

4.9.1 DHCP Settings

Choose menu "**DHCP** \rightarrow **DHCP** Settings", you can configure the DHCP Server on the page as shown in figure below. The router is set up by default as a DHCP (Dynamic Host Configuration Protocol) server, which provides the TCP/IP configuration for all the PC(s) that are connected to the router on the LAN.

DHCP Settings	
DHCP Server:	🔿 Disable 💿 Enable
Start IP Address:	192.168.0.100
End IP Address:	192.168.0.199
Address Lease Time:	120 minutes (1~2880 minutes, the default value is 120)
Default Gateway:	192.168.0.1 (optional)
Default Domain:	(optional)
Primary DNS:	0.0.0.0 (optional)
Secondary DNS:	0.0.0.0 (optional)
	Save

- DHCP Server Enable or Disable the DHCP server. If you disable the Server, you must have another DHCP server within your network, otherwise you must configure the computer manually.
- Start IP Address Specify an IP address for the DHCP Server to start with when assigning IP addresses. 192.168.0.100 is the default start address.
- End IP Address Specify an IP address for the DHCP Server to end with when assigning IP addresses. 192.168.0.199 is the default end address.
- Address Lease Time The Address Lease Time is the amount of time a network user will be allowed connection to the router with their current dynamic IP Address. Enter the amount of time in minutes and the user will be "leased" this dynamic IP Address. After the time is up, the user will be automatically assigned a new dynamic IP address. The range of the time is 1 ~ 2880 minutes. The default value is 120 minutes.
- Default Gateway (Optional.) It is suggested to input the IP address of the Ethernet port of the router. The default value is 192.168.0.1.
- > Default Domain (Optional) Input the domain name of your network.
- > **Primary DNS -** (Optional) Input the DNS IP address provided by your ISP or consult your ISP.
- Secondary DNS (Optional.) Input the IP address of another DNS server if your ISP provides two DNS servers.

P Note:

To use the DHCP server function of the router, you must configure all computers on the LAN as "Obtain an IP Address automatically".

4.9.2 DHCP Clients List

Choose menu "DHCP \rightarrow DHCP Clients List", you can view the information about the clients attached to the router in the screen as shown in figure below.

plays ir	formation of all DHCP cli	ents on the network.		
ID	Client Name	MAC Address	Assigned IP	Lease Time
1	TPLINK	64:A3:CB:D6:5E:C3	192.168.0.100	01:59:45

- > Client Name The name of the DHCP client
- > MAC Address The MAC address of the DHCP client

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

You cannot change any of the values on this page. To update this page and to show the current attached devices, click the **Refresh** button.

4.9.3 Address Reservation

Choose menu "DHCP \rightarrow Address Reservation", you can view and add a reserved address for clients via the next screen. When you specify a reserved IP address for a PC on the LAN, that PC will always receive the same IP address each time when it accesses the DHCP server. Reserved IP addresses should be assigned to the servers that require permanent IP settings.

DHCP Add	dress	Reservation			
This page displ clicking the corr		tatic IP address assigned by the DHCP Server an ng fields.	nd allows you to adjus	t these confi	igurations b
		MAC Address	IP Address	Status	Edit
		00:0a:eb:00:23:11	192.168.0.3	Enabled	<u>Edit</u>
Add Ne	ew	Enable Selected Disable Select	cted Delete	Selected]
		Refresh			

- > MAC Address The MAC address of the PC for which you want to reserve an IP address.
- > **IP Address -** The IP address reserved for the PC by the router.
- > Status The status of this entry, either Enabled or Disabled.

To Reserve an IP address:

- 1. Click the **Add New** button.
- 2. Enter the MAC address (in XX:XX:XX:XX:XX format.) and IP address (in dotted-decimal notation) of the computer for which you want to reserve an IP address.
- 3. Click the **Save** button.

DHCP Address Reservation	
The static IP address of the DHCP Server c	an be configured on this page.
MAC Address: IP Address: Status:	Disabled
	Save Back

To modify or delete an existing entry:

- 1. Click the Edit in the entry you want to modify. If you want to delete the entry, click the Delete.
- 2. Modify the information.
- 3. Click the **Save** button.

Click the Enable/Disable Selected button to make selected entries enabled/disabled

Click the **Delete Selected** button to delete selected entries.

4.10 USB Settings

USB Settings
- USB Mass Storage
- User Accounts
- Storage Sharing
- FTP Server
- Media Server
- Print Server

There are six submenus under the USB Settings menu: **USB Mass Storage**, **User Accounts**, **Storage Sharing**, **FTP Server**, **Media Server** and **Print Server**. Click any of them, and you will be able to configure the corresponding functions.

4.10.1 USB Mass Storage

The **USB Mass Storage** page provides the basic information about the USB mass storage device. Click the **Refresh** button to update this page.

USB Mass Sto	orage						
This page provides the basic information about the USB mass storage device, to configure Storage Sharing/FTP/Media Server, please click the corresponding menu on the left. USB Mass storage List:							
Disk1: Kingston (DT	101 G2) PMAP		Di	sconnect Connected			
Volume	File System	Capacity	Status	Action			
sda1	FAT32	3.7 GB	Active	Deactivate			
Refresh							

4.10.2 User Accounts

You can specify the user name and password for Storage Sharing and FTP Server users on this page. Storage Sharing users can use Internet Explorer to access files on the USB drive. FTP Server users can log into the FTP Server via FTP Client.

The default user account is **admin**. It has read/write access to Storage Sharing and can access FTP Server.

User Acco	unts			
This page allows configurations ta	you to configure user accounts for ke effect.	Storage Sharing/FTP S	erver. Please click Se	t to ensure your
Index	Username		Status	Action
1	admin*		Enabled	💿 Enable 🔘 Disable
2				
3				
4				
5				
*: "Super	User" has full-access permission to	all active volumes and s	shared folders.	
	Choose Index: New Username: New Password:	1		_
	Confirm password:			_
		Set		

Only Administrator can use a Web browser to transfer the files from a PC to the Writable shared volume on the USB drive.

To add a new user account, please follow the steps below:

1. Choose the Index from the drop-down list..

- 2. Self-define a User Name.
- 3. Enter the password in the **Password** field.
- 4. Re-enter the password in the **Confirm Password** field.
- 5. Click Set to make your settings take effect.
- New Username Type the user name that you want to give access to the USB drive. The user name must be composed of alphanumeric symbols not exceeding 15 characters in length.
- New Password Enter the password in the Password field. The password must be composed of alphanumeric symbols not exceeding 15 characters in length. For security purposes, the password for each user account is not displayed.
- > **Confirm Password -** Re-enter the password here.

Note:

- 1. Please restart the service for the new settings to take effect.
- 2. If you cannot use the new user name and password to access the shares, press Windows logo + R to open the Run dialog box and type net use \\192.168.0.1 /delete /yes and press Enter. (192.168.0.1 is your router's LAN IP address. If the LAN IP of the modem connected with your router is 192.168.0.x, the default LAN IP of the router will automatically switch from 192.168.0.1 to 192.168.1.1 to avoid IP conflict; in this case, please try net use \\192.168.1.1 /delete / yes.)

4.10.3 Storage Sharing

Choose menu "**USB Settings**→**Storage Sharing**", you can configure a USB disk drive attached to the router and view volume and share such properties as share name, directory, user access, and status on this page as shown below.

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Storage Sharing Settings									
Stora	Storage Sharing enables you to share files saved on a USB storage device with other computers on the local network.								
Server Status: Enabled Disable									
Anonymous access to all volumes.									
	Folder Table: (Any modifications to this table will not take effect until you Apply these changes.								
				User Access					
	Share Name	Directory	(F:Full-Access, R:Read-Only, N:No- Access)				N:No-	Status	Edit
			1*	2	3	4	5		
	volume	1	F	-	-	-	-	Enabled	<u>Edit</u>
	* : "Super User" has	s full-access permission (Read & Write)	to all sh	ared fol	ders.				
Add New Folder Enable Selected Disable Selected Delete Selected									
		Ap	ply						

- Server Status Indicates the Storage Sharing server's current status. You can click the Enable button to start the Storage Sharing service and click the Disable button to stop it.
- Anonymous access to all volumes Check this box to allow users to access to all volumes without username or password
- > Shared Name The volume name of the USB drive the users have access to.
- > **Directory -** The directory of the shared folder.
- User Access Indicates user access of the shared folder. F stands for fully access, R stands for read-only and N stands for no-access.
- > **Status -** Indicates the shared or non-shared status of the volume.
- **Edit –** Click **Edit** to edit the entry.

To add a new folder, follow the instructions below.

1. Click Add New Folder

Jser Access Co	Share Name: Directory: / Brows	se
ndex	Username	Authorization Access
1*	admin	Full-Access
2	guest	○ Full-Access ○ Read-Only ③ No-Access
3		
3 4		

- 2. Enter display name of the share folder in **Shared Name** filed.
- 3. Click the Browse button to select the folder which you want to share.
- 4. Click the **Apply** button to save the settings.

Solution Note:

- 1. The max share folders number is 10. If you want to share a new folder when the number has reached 10, you can delete an existing share folder and then add a new one.
- 2. If you want to change the FTP settings, you need to restart FTP Server to make the changes take effect.

Click the **Enable Selected** button to make the selected entries enabled

Click the **Disable Selected** button to make the selected entries disabled.

Click the **Delete Selected** button to delete the selected entries.

Click the **Apply** button to make the settings take effect.

4.10.4 FTP Server

Choose menu "**USB Settings**→**FTP Server**", you can create an FTP server that can be accessed from the Internet or your local network.

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FT	P Server Setti	ngs								
		Server Status:	Enabled	Dis	able					
		Internet Access:	Enable	O Disa	ble					
		Internet Address:	0.0.0.0							
		Service Port:	21 (Tř	ne defau	ilt is 21.	Do not o	hange	unless n	ecessary.)	
Share name Directory		,	User Index (F:Full-Access, R:Read-Only, N:No- Access)				Status	Edit		
				1*	2	3	4	5		
	volume	1		F	-	-	-	-	Enabled	<u>Edit</u>
* : "Super User". It has full-access permission (Read & Write) to all active volume(s) and share folder(s). Add New Folder Enable Selected Delete Selected										
			Ар	ply						

- > Server Status Indicates the FTP Server's current status.
- Internet Access Select enable to allow access of the FTP server from the Internet. Otherwise, select disable to only allow local network access.
- > Internet Address The WAN IP address of this router,
- > Service Port Enter the FTP Port number to use. The default is 21.

To set up your FTP Server, please follow the instructions below:

- 1. Plug an external USB hard disk drive or USB flash drive into this router.
- 2. Click the **Enable/Disable** radio box to enable/disable Internet access to FTP from Internet port.
- 3. Specify a port for the FTP server to use (The default port number is 21).
- 4. The **Internet Address** displays the WAN IP address of this router, so that other users can access FTP via this address.
- If WAN type is PPPoE/PPTP/L2TP, two connections will be available. Therefore, users can access FTP server via two connections. Users in a private LAN can access ftp server via Public Address while Internet users can access ftp server via Internet Address.
- 6. Click the **Apply** button to start the ftp server.

To add a new folder, follow the instructions below.

1. Click Add New Folder.

	Share Name:	
	Directory: /	se
User Access Co	ntrol Table: Username	Authorization Access
1*	admin	Full-Access Read-Only No-Access
2	guest	○ Full-Access ○ Read-Only ③ No-Access
3		
4		

- 2. Enter display name of the share folder in **Shared Name** filed.
- 3. Click the Browse button to select the folder which you want to share.
- 4. Click the **Apply** button to save the settings.

Solution Note:

- 1. The max share folders number is 10. If you want to share a new folder when the number has reached 10, you can delete an existing share folder and then add a new one.
- 2. If you want to change the FTP settings, you need to restart FTP Server to make the changes take effect.

4.10.5 Media Server

Choose menu "USB Settings→Media Server", you can create media server that allows you to share stored content with other computers and devices on your home network and on the Internet.

Media Server Settings			
Server Enable:	Enable Disable		
Server Name:	MediaShare:1		
Content Scan:	Manual Scan: Scan Now		
	Auto Scan: Every 1 v hour(s)		
Add New Folder			
	Save		

Server Enable - Indicates the Media Server's current status, started or stopped. You can click the Enable button to enable the Media Server and click the Disable button to disable it.

Server Name - The name of this Media Server.

To set up your media server, please follow the instructions below:

- 1. Plug an external USB hard disk drive or USB flash drive into this router, and then click the **Enable** button to start the media server.
- 2. Click the **Add New Folder** button to specify a folder as the search path of media server. The screen will then appear as shown in figure below

Folder Browse					
This page allows you to set a scan folder for DLNA media services.					
Share Name:					
Directory:	/				
	Hide				
Select Volume:please choose volume					
	Apply				

- > Share Name You can enter a display name for the share folder.
- > **Directory** Displays the location of this folder.
- **Browse** Click the button to select the folder to share.
- > **Apply** Click the button to save your settings.
- 3. Click the **Scan Now** button to scan all the share folders immediately. You can also select the **Auto-scan**, at the same time, select an auto scan interval time by drop-down list. In this case, the media server will auto scan the share folders.

P Note:

The max share folders number is 6. If you want share a new folder when the number has been reached to be 6, you can delete a share folder and then add a new one.

4.10.6 Print Server

Choose menu "**USB Settings**→**Print Server**", you can configure print server on this page as shown below.

Print Server Setting	
Server Status:	Online Stop

There are two states of the print server, they are as follows:

- Online Indicates the print service has been turned on, and no user is using the print service at present. You can click the "Stop" button to stop the print service.
- Offline Indicates the print service feature is disabled. You can click "Start" button to start the print service.

4.11 NAT

Choose "**NAT**", and you can enable or disable the NAT and Hardware NAT Control feature. The NAT Rules and Hardware NAT will work properly only when the NAT Control feature is enabled.

NAT Control Setting					
Note: Make sure the NAT is enable if you want the Hardware NAT configuration take effect.					
Current NAT Status:					
Current Hardware NAT Status:	Enable O Disable				
	Save				

- Current NAT Status If enabled, the NAT function and the Forwarding configuration will take effect. If disabled, neither NAT function nor Forwarding configuration will take effect.
- Current Hardware NAT Status If enabled, the Hardware NAT feature will take effect. If disabled, neither Hardware NAT feature will take effect.

4.12 Forwarding

Forwarding
- Virtual Servers
- Port Triggering
- DMZ
- UPnP

There are four submenus under the Forwarding menu: **Virtual Servers**, **Port Triggering**, **DMZ** and **UPnP**. Click any of them, and you will be able to configure the corresponding function.

4.12.1 Virtual Servers

Choose menu "Forwarding→Virtual Servers", and then you can view and add virtual servers on this page. Virtual servers can be used for setting up public services on your LAN. A virtual server is defined as a service port, and all requests from Internet to this service port will be redirected to the computer specified by the server IP. Any PC that was used for a virtual server must have a static or reserved IP address because its IP address may change when using the

DHCP function. If you want the Virtual Servers configuration take effect, please make sure the NAT is enabled.

/irtual Serve	r					
Servic	e Port	IP Address	Internal Port	Protocol	Status	Edit
Add New Enable Selected Disable Selected Delete Selected						
			Refresh			

- Service Port The numbers of External Service Ports. You can enter a service port or a range of service ports (the format is XXX – YYY; XXX is the Start port and YYY is the End port).
- > **IP Address** The IP address of the PC running the service application.
- Internal Port The Internal Service Port number of the PC running the service application. You can leave it blank if the Internal Port is the same as the Service Port, or enter a specific port number when Service Port is a single one.
- Protocol The protocol used for this application, either TCP, UDP, or All (all protocols supported by the router).
- **Status** The status of this entry, "Enabled" means the virtual server entry is enabled.
- > Common Service Port Some common services already exist in the drop-down list.
- **Edit** To edit or delete an existing entry.

To setup a virtual server entry:

- 1. Click the **Add New** button.
- Select the service you want to use from the Common Service Port list. If the Common Service Port menu does not list the service that you want to use, enter the number of the service port or service port range in the Service Port field.
- 3. Enter the IP address of the computer running the service application in the IP Address field.
- 4. Select the protocol used for this application in the **Protocol** drop-down list, either **TCP**, **UDP**, or **All**.
- 5. Select the **Enabled** option in the **Status** drop-down list.
- 6. Click the **Save** button.

Virtual Server		
Service Port:		(XX-XX or XX)
IP Address:		
Internal Port:		(XX or keep empty. If it's empty, Internal port
equals to Service port)		
Protocol:	ALL	
Status:	Enabled	
Common Service Port:	Please Select	
	Save	Back

Note:

It is possible that you have a computer or server that has more than one type of available service. If so, select another service, and type the same IP address for that computer or server.

To modify or delete an existing entry:

- 1. Find the desired entry in the table.
- 2. Click Edit or Delete as desired on the Edit column.

Click the Enable/ Disable Selected button to make selected entries enabled/ disabled.

Click the **Delete Selected** button to delete selected entries.

Note:

If you set the service port of the virtual server as 80, you must set the Web management port on **Security** \rightarrow **Remote Management** page to be any other value except 80 such as 8080. Otherwise there will be a conflict to disable the virtual server.

4.12.2 Port Triggering

Choose menu "Forwarding \rightarrow Port Triggering", you can view and add port triggering entry on this page. Some applications require multiple connections, like Internet games, video conferencing, Internet telephoning and so on. Port Triggering is useful for those applications that cannot work with a pure NAT router.

ort Trigger					
Trigger Port	Trigger Protocol	Open Port	Open Protocol	Status	Edit
Add New	Enable Selected	Disable Selected De	lete Selected		
		Refresh			

Trigger Port - The port for outgoing traffic. An outgoing connection using this port will trigger this rule.

- Trigger Protocol The protocol used for Trigger Ports, either TCP, UDP, or All (all protocols supported by the router).
- > Open Port The port or port range used by the remote system when it responds to the outgoing request. A response using one of these ports will be forwarded to the PC which triggered this rule. You can input at most 5 groups of ports (or port sections). Every group of ports must be separated with ",", for example, 2000-2038, 2046, 2050-2051, 2085, 3010-3030.
- > Open Protocol The protocol used for Open Port, either TCP, UDP, or ALL (all protocols supported by the router).
- > **Status** The status of this entry, Enabled means the Port Triggering entry is enabled.
- > Edit To modify or delete an existing entry.
- Common Applications Some popular applications already listed in the drop-down list of Incoming Protocol.

To add a new rule, follow the steps below.

- 1. Click the **Add New** button, the next screen will pop-up as shown in figure below.
- Select a common application from the Common Applications drop-down list, then the Trigger Port field and the Open Port field will be automatically filled. If the Common Applications do not have the application you need, enter the Trigger Port and the Open Port manually.
- 3. Select the protocol used for Trigger Port from the **Trigger Protocol** drop-down list, either **TCP**, **UDP**, or **All**.
- 4. Select the protocol used for Incoming Ports from the **Open Protocol** drop-down list, either **TCP** or **UDP**, or **All.**
- 5. Select **Enabled** in **Status** field.
- 6. Click the **Save** button to save the new rule.

Port Trigger		
Trigger Port:		(XX)
Trigger Protocol:	ALL	
Open Port:		(XX or XX-XX or XX-XX,XX)
Open Protocol:	ALL	
Status:	Enabled	
Common Service Port:	Please Select	
	Save	Back

To modify or delete an existing entry:

- 1. Find the desired entry in the table.
- 2. Click Edit or Delete as desired on the Edit column.

Click the Enable Selected button to make selected entries enabled.

Click the **Disable Selected** button to make selected entries disabled.

Click the **Delete Selected** button to delete selected entries

Once the router is configured, the operation is as follows:

- 1. A local host makes an outgoing connection to an external host using a destination port number defined in the **Trigger Port** field.
- 2. The router records this connection, opens the incoming port or ports associated with this entry in the **Port Triggering** table, and associates them with the local host.
- 3. When necessary, the external host will be able to connect to the local host using one of the ports defined in the **Open Ports** field.

Note:

- 1. When the trigger connection is released, the corresponding opened ports will be closed.
- 2. Each rule can only be used by one host on the LAN at a time. The trigger connection of other hosts on the LAN will be refused.
- 3. Open Ports ranges cannot overlap each other.

4.12.3 DMZ

Choose menu "Forwarding \rightarrow DMZ", and then you can view and configure DMZ host in the screen. The DMZ host feature allows one local host to be exposed to the Internet for a special-purpose service such as Internet gaming or videoconferencing. The router forwards packets of all services to the DMZ host. Any PC whose port is being forwarded must have its DHCP client function disabled and should have a new static IP Address assigned to it because its IP Address may be changed when using the DHCP function.

DMZ	
DMZ Status:	○ Enable
DMZ Host IP Address:	0.0.0.0
	Save

To assign a computer or server to be a DMZ server:

1. Click the **Enable** button.

- 2. Enter the IP address of a local PC that is set to be DMZ host in the **DMZ Host IP Address** field.
- 3. Click the **Save** button.

4.12.4 UPnP

Choose menu "Forwarding→UPnP", and then you can view the information about UPnP in the screen. The Universal Plug and Play (UPnP) feature allows the devices, such as Internet computers, to access the local host resources or devices as needed. UPnP devices can be automatically discovered by the UPnP service application on the LAN.

U	PnP							
		Current UPnP Status:	Enabled D	isable				
	Current UPnP Settings List							
	ID	App Description	External Port	Protocol	Internal Port	IP Address	Status	
	Refresh							

- Current UPnP Status UPnP can be enabled or disabled by clicking the Enable or Disable button. This feature is enabled by default.
- > Current UPnP Settings List This table displays the current UPnP information.
 - App Description The description about the application which initiates the UPnP request.
 - **External Port** The port which the router opened for the application.
 - **Protocol** The type of protocol which is opened.
 - Internal Port The port which the router opened for local host.
 - IP Address The IP address of the local host which initiates the UPnP request.
 - **Status** Either Enabled or Disabled. "Enabled" means that the port is still active; otherwise, the port is inactive.

Click the **Enable** button to enable UPnP.

Click the **Disable** button to disable UPnP.

Click the **Refresh** button to update the Current UPnP Settings List.

4.13 Security

Security
- Basic Security
- Advanced Security
- Local Management
- Remote Management

There are four submenus under the Security menu: **Basic Security**, **Advanced Security**, **Local Management** and **Remote Management**. Click any of them, and you will be able to configure the corresponding functions.

4.13.1 Basic Security

Choose menu "Security \rightarrow Basic Security", and then you can configure the basic security in the screen as shown in figure below.

Basic Secur	ity	
Firewall	Enable SPI Firewall:	
VPN		
	PPTP Pass-through:	Inable O Disable
	L2TP Passt-hrough:	Inable O Disable
	IPSec Pass-through:	
ALG		
	FTP ALG:	
	TFTP ALG:	Inable O Disable
	H323 ALG:	
	SIP ALG:	● Enable ○ Disable
	RTSP ALG:	
		Save

- Firewall A firewall protects your network from the outside world. Here you can enable or disable the router's firewall.
 - SPI Firewall SPI (Stateful Packet Inspection, also known as dynamic packet filtering) helps to prevent cyber attacks by tracking more state per session. It validates that the traffic passing through the session conforms to the protocol. SPI Firewall is enabled by

factory default. If you want all the computers on the LAN exposed to the outside world, you can disable it.

- VPN VPN Passthrough must be enabled if you want to allow VPN tunnels using VPN protocols to pass through the router.
 - **PPTP Passthrough** Point-to-Point Tunneling Protocol (PPTP) allows the Point-to-Point Protocol (PPP) to be tunneled through an IP network. To allow PPTP tunnels to pass through the router, click **Enable**.
 - L2TP Passthrough Layer Two Tunneling Protocol (L2TP) is the method used to enable Point-to-Point sessions via the Internet on the Layer Two level. To allow L2TP tunnels to pass through the router, click **Enable**.
 - IPSec Passthrough Internet Protocol security (IPSec) is a suite of protocols for ensuring private, secure communications over Internet Protocol (IP) networks, through the use of cryptographic security services. To allow IPSec tunnels to pass through the router, click Enable.
- ALG It is recommended to enable Application Layer Gateway (ALG) because ALG allows customized Network Address Translation (NAT) traversal filters to be plugged into the gateway to support address and port translation for certain application layer "control/data" protocols such as FTP, TFTP, H323 etc.
 - **FTP ALG** To allow FTP clients and servers to transfer data across NAT, click **Enable**.
 - **TFTP ALG** To allow TFTP clients and servers to transfer data across NAT, click **Enable**.
 - H323 ALG To allow Microsoft NetMeeting clients to communicate across NAT, click Enable.
 - SIP ALG To allow SIP clients and servers to communicate across NAT, click Enable.
 - **RTSP ALG** To allow some media player clients to communicate with some streaming media servers across NAT, click **Enable**.

Click the Save button to save your settings.

4.13.2 Advanced Security

Choose menu "Security \rightarrow Advanced Security", and then you can protect the router from being attacked by TCP-SYN Flood, UDP Flood and ICMP-Flood in the screen as shown in figure below.

Advanced Security	
DoS Protection: O Enable Disable	
Enable ICMP-Flood Attack Filtering	
ICMP-Flood Packets Threshold (5~3600):	50 packets/second
Enable UDP-Flood Attack Filtering	
UDP-Flood Packets Threshold (5~3600) :	500 packets/second
Enable TCP-SYN-Flood Attack Filtering	
TCP-SYN-Flood Packets Threshold (5~3600) :	50 packets/second
Forbid Ping Packet From LAN Port	
TODIG FING FACKELFTOILLAN POIL	
	Save Blocked DOS Host List

DoS Protection - Denial of Service protection. Check the Enable or Disable button to enable or disable the DoS protection function. Only when it is enabled, will the flood filters be enabled.

Note:

Dos Protection will take effect only when the **Traffic Statistics** in "System Tool \rightarrow Statistics" is enabled.

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

Click the **Save** button to save the settings.

Click the **Blocked DoS Host List** button to display the DoS host table by blocking.

4.13.3 Local Management

Choose menu "Security \rightarrow Local Management", and then you can configure the management rule in the screen as shown in figure below. The management feature allows you to deny computers in LAN from accessing the router.

Local Management	
Management Rules:	
All the PCs on the LAN are allowed to ac	cess the Router's Web-Based Utility
Only the PCs listed can browse the built-	in web pages to perform Administrator tasks
MAC:	
Your PC's MAC Address:	90:2B:34:63:59:B6 Set
	Save

By default, the radio button "All the PCs on the LAN are allowed to access the Router's Web-Based Utility" is checked. If you want to allow PCs with specific MAC Addresses to access the Setup page of the router's Web-Based Utility locally from inside the network, check the radio button "Only the PCs listed can browse the built-in web pages to perform Administrator tasks", and then enter each MAC Address in a separate field. The format for the MAC Address is XX:XX:XX:XX:XX:XX (X is any hexadecimal digit). Only the PCs with MAC address listed can use the password to browse the built-in web pages to perform Administrator tasks while all the others will be blocked.

After click the **Add** button, your PC's MAC Address will be placed in the list above.

Click the Save button to save your settings.

Note:

If your PC is blocked but you want to access the router again, use a pin to press and hold the **WPS/Reset** button (hole) on the back panel for about 5 seconds to reset the router's factory defaults on the router's Web-Based Utility.

4.13.4 Remote Management

Choose menu "Security \rightarrow Remote Management", and then you can configure the Remote Management function in the screen as shown in figure below. This feature allows you to manage your router from a remote location via the Internet.

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Remote Management		
Web Management Port: Remote Management IP Address:	80	(Enter 255.255.255.255 for all)
	Save	

- Web Management Port Web browser access normally uses the standard HTTP service port 80. This router's default remote management web port number is 80. For greater security, you can change the remote management web port to a custom port by entering that number in the box provided. Choose a number between 1 and 65534 but do not use the number of any common service port.
- Remote Management IP Address This is the current address you will use when accessing your router from the Internet. This function is disabled when the IP address is set to the default value of 0.0.0.0. To enable this function change 0.0.0.0 to a valid IP address. If set to 255.255.255.255, then all the hosts can access the router from internet.

Note:

- To access the router, you should type your router's WAN IP address into your browser's address (in IE) or Location (in Navigator) box, followed by a colon and the custom port number. For example, if your router's WAN address is 202.96.12.8, and the port number used is 8080, please enter http://202.96.12.8:8080 in your browser. Later, you may be asked for the router's password. After successfully entering the username and password, you will be able to access the router's web-based utility.
- 2. Be sure to change the router's default password to a very secure password.

4.14 Parent Control

Choose menu "**Parent Control**", and then you can configure the parent control in the screen as shown in figure below. The Parent Control function can be used to control the Internet activities of the child, limit the child to access certain websites and restrict the time of surfing.

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Parent Co	ontrol																	
Parental Contro	ols can b	e used	to adr	niniste	er all Ir	nterne	t activ	itv incl	udina	limiting	usao	e and	/or acc	ess to) speci	ific we	bsites to	
all clients on the	e networl	k for a	specifi	ed pe	riod of	f time.												
The Schedule i	s based	on the	time o	f the F	Router	. The	time c	an be	set in	"Syste	em Too	ols ->]	ime S	ettings	<u>s</u> ".			
🗌 Ena	ble Pare	nt Con	trol															
	MAC	Addre	ss Of	Pare	ntal P	c : [
	MAC	Addr	ess of	fCurr	ent P	C: [90:2	в:34	:63:5	9:B6	С	opy to	Abov	е				
Save																		
		MA	C Add	ress	.1:					_								
			C Add															
		MA	C Add	ress ·	- 3:													
		MA	C Add	ress	4:													
м	MAC Address in current LAN: Copy toPlease Select																	
Арр	ly To:			Start	Time			En	d Time	•								
Each D)ay	~	00	:00		~		24:00			~]		A	dd				
	Time	0.00	1:00	0.00	0.00	4:00	5.00	C:00	7:00	0.00	0.00	10:00	11:00	10:00	10:00	14:00		
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	014:00		
	Sun.																	
	Mon. Tues.																	
	Wed.																	
	Thur.																	
	Fri.																	
	Sat.																	
		<				Ш										>		
Cle	ar Sche	dule																
			Α	dd Ul	RL:								,	Add				
								0	etails									
	la atu t	_	6 11	4-1														
Delete Se	lected	(V	/ill not	таке е	entect i	intil yo	ou sav	e thes	e char	iges)								
	Save																	

- Parent Control Check Enable if you want this function to take effect; otherwise, check Disable.
- MAC Address of Parental PC In this field, enter the MAC address of the controlling PC, or you can make use of the Copy To Above button below.

MAC Address of Current PC - This field displays the MAC address of the PC that is managing this router. If the MAC Address of your adapter is registered, you can click the Copy To Above button to fill this address to the MAC Address of Parental PC field above.

Click the **Save** button to make your settings take effect.

To add a new entry, please follow the steps below.

- 1. Check the Enable Parent Control box.
- Enter the MAC address of the PC (e.g. 00:11:22:33:44:AA) you'd like to control in the MAC Address 1-4 field, or you can choose the MAC address from the MAC Address in current LAN drop-down list.
- Enter the allowed domain name of the website, either the full name or the keywords (e.g. google) in the Add URL field. Any domain name with keywords in it (www.google.com, www.google.com.hk) will be allowed. Click the Add button.
- 4. Set the time period allowed for the PC controlled to access the Internet. For detailed information, please go to "Access Control → Schedule".
- 5. Click the **Save** button.

Click the **Delete Selected** button to delete the selected entries in the table.

For example: If you desire that the child PC with MAC address 00:11:22:33:44:AA can access www.google.com on Saturday only while the parent PC with MAC address 00:11:22:33:44:BB is without any restriction, you should follow the settings below.

- Click "Parent Control" menu on the left to enter the Parent Control Settings page. Check Enable and enter the MAC address 00:11:22:33:44:BB in the MAC Address of Parental PC field.
- 2. Click "**Parent Control**" menu on the left to go back to the Add or Modify Parent Control Entry page:
 - 1) Enter 00:11:22:33:44:AA in the **MAC Address 1** field.
 - 2) Create a new schedule with Day is Sat and Time is all day-24 hours. Click Add.
 - 3) Enter "www.google.com" in the Add URL field. Click Add.
- 3. Click **Save** to complete the settings.

Then you will see the page as shown in figure below

Archer C20 AC750 Wireless Dual Band Router

Enable Parent Control MAC Address Of Parental PC: 00:11:22:33:44:AA	
MAC Address of Current PC: 90:2B:34:63:59:B6 Copy to Above	
Save	
MAC Address - 1: 00:11:22:33:44:BB	
MAC Address - 2:	
MAC Address - 3:	
MAC Address - 4:	
MAC Address in current LAN:	
Apply To: Start Time End Time	
Each Day V 00:00 V 24:00 V Add	
Time 0:00 1:00 2:00 3:00 4:00 5:00 6:00 7:00 8:00 9:00 10:00 11:00 12:00 13:00 14:00	
Sun. Image: Sun and Su	
Mon.	
Wed.	
Fri.	
Sat. Sat.	
Clear Schedule	
Add URL:	
Add URL: Add	
Details	
WWW.GOOGLE.COM	
Delete Selected (Will not take effect until you save these changes)	

4.15 Access Control

Access Control
- Rule
- Host
- Target
- Schedule

There are four submenus under the Access Control menu: **Rule**, **Host**, **Target** and **Schedule**. Click any of them, and you will be able to configure the corresponding function.

4.15.1 Rule

Choose menu "Access Control \rightarrow Rule", and then you can view and set Access Control rules in the screen.

Access Control Rule Manage	ement					
This device can restrict Internet activity for s manage your network.	specified LAN host	s. You can set and	combine access c	ontrol rul	es to effectiv	/ely
Enable Internet access control						
Default Filtering Rules:						
Allow the packets not specified by any filtering rules to passthrough this device.						
Deny the packets not specified by any filtering rules to passthrough this device.						
Save	Save					
	1	1	1			
Description	LAN Host	Target	Schedule	Rule	Status	Edit
Add New Enable Sel	ected Di	sable Selected	Delete Sele	cted		

- Enable Internet Access Control Select the check box to enable the Internet Access Control function, so the Default Filter Policy can take effect.
- > **Description -** Here displays the name of the rule and this name is unique.
- > LAN Host Here displays the host selected in the corresponding rule.
- > **Target -** Here displays the target selected in the corresponding rule.
- Schedule Here displays the schedule selected in the corresponding rule.
- Enable Here displays the status of the rule, enabled or not. Check this option to enable a specific entry.
- **Edit -** Here you can edit or delete an existing rule.
- > Add New Click the Add New button to add a new rule entry.
- > Enable Selected Click the Enable Selected button to enable selected rules in the list.
- > Disable Selected Click the Disable Selected button to disable selected rules in the list.
- > **Delete Selected -** Click the **Delete Selected** button to delete selected entries in the table.

How to add a new rule:

- 1. Click the Add New button.
- 2. Give a name (e.g. Rule_1) for the rule in the **Description** field.

- 3. Select a host from the LAN Host drop-down list or click "Add LAN Host".
- 4. Select a target from the Target drop-sown list or click "Add Target".
- 5. Select a schedule from the Schedule drop-down list or click "Add Schedule".
- 6. In the **Status** field, select **Enabled** or **Disabled** to enable or disable your entry.
- 7. In the **Direction** field, select **IN** or **OUT**.
- 8. Select a schedule from the **Protocol** drop-down list.
- 9. Click the **Save** button.

Add Internet Access Control Entry			
Description:			
LAN Host:	Any Host	~	Add LAN Host
Target:	Any Host	~	Add Target
Schedule:	Any Time	~	Add Schedule
Rule:	Deny	~	Ī
Status:	Enabled	~	Ī
Direction:	IN	~	
Protocol:	ALL	~	Ī
	Save	Back	k line line line line line line line line

For example: If you desire to allow the host with MAC address 00 : 11 : 22 : 33 : 44 : AA to access www.google.com only from 18:00 to 20:00 on Saturday and Sunday, and forbid other hosts in the LAN to access the Internet, you should follow the settings below:

- Click the submenu Rule of Access Control in the left to return to the Rule List page. Select Enable Internet Access Control and choose "Allow the packets specified by any enabled access control policy to pass through the router".
- 2. We recommend that you click **Add New** button to finish all the following settings.
- 3. Click the submenu **Host of Access Control** in the left to enter the Host List page. Add a new entry with the Host Description is Host_1 and MAC Address is 00:11:22:33:44:AA.
- 4. Click the submenu **Target of Access Control** in the left to enter the Target List page. Add a new entry with the Target Description is Target_1 and Domain Name is www.google.com.
- Click the submenu Schedule of Access Control in the left to enter the Schedule List page. Add a new entry with the Schedule Description is Schedule_1, Day is Sat and Sun, Start Time is 1800 and Stop Time is 2000.
- 6. Click the submenu **Rule of Access Control** in the left, Click **Add New** button to add a new rule as follows:

- 1) In Rule Name field, create a name for the rule. Note that this name should be unique, for example Rule_1.
- 2) In Host field, select Host_1.
- 3) In Target field, select Target_1.
- 4) In Schedule field, select Schedule_1.
- 5) In Status field, select **Enabled**.
- 6) Click **Save** to complete the settings.

Then you will go back to the Access Control Rule Management page and see the following list.

	Description	LAN Host	Target	Schedule	Rule	Status	Edit
	Rule_1	Host_1	Target	Schedul	Deny	Enabled	Edit
Add New Enable Selected Disable Selected Delete Selected							

4.15.2 Host

Choose menu "Access Control \rightarrow Host", and then you can view and set a Host list in the screen as shown in figure below. The host list is necessary for the Access Control Rule.

Host Settings			
	Description	Address Info	Edit
	Host_1	192.168.0.1-192.168.0.23	Edit
Add New	Delete Selected	192.106.0.1-192.106.0.23	

- > **Description -** Here displays the description of the host and this description is unique.
- > Address Info Here displays the information about the host. It can be IP or MAC.
- **Edit -** To modify or delete an existing entry.

Click the **Delete Selected** button to delete the selected entries in the table.

To add a new entry, please follow the steps below.

- 1. Click the **Add New** button.
- 2. In the **Mode** field, select IP Address or MAC Address.
 - 1) If you select IP Address, the screen shown is figure below.
 - In **Description** field, create a unique description for the host (e.g. Host_1).

- In **IP Address** field, enter the IP address.
- 2) If you select MAC Address.
 - In **Description** field, create a unique description for the host (e.g. Host_1).
 - In MAC Address field, enter the MAC address.
- 3. Click the **Save** button to complete the settings.

Add or Edit A Host Entry	
Mode: Description: IP Address: Port:	IP Address Image: Constraint of the second
	Save Back
Add or Edit A Host Entry	
Mode: Description: MAC Address:	MAC Address Host_1 00:11:22:33:44:AA
	Save Back

For example: If you desire to restrict the internet activities of host with MAC address 00:11:22:33:44:AA, you should first follow the settings below:

- 1. Click Add New button to enter the Add or Modify a Host Entry page.
- 2. In Mode field, select MAC Address from the drop-down list.
- 3. In **Description** field, create a **unique** description for the host (e.g. Host_1).
- 4. In **MAC Address** field, enter 00:11:22:33:44:AA.
- 5. Click **Save** to complete the settings.

Then you will go back to the Host Settings page and see the following list.

Description	Address Info	Edit
Host_1	00:11:22:33:44:AA	Edit

4.15.3 Target

Choose menu "Access Control \rightarrow Target", and then you can view and set a Target list in the screen as shown in figure below The target list is necessary for the Access Control Rule.

Description	Details	Edit
Target_1	www.google.com	Edit

- > **Description -** Here displays the description about the target and this description is unique.
- > **Details -** The target can be IP address, port, or domain name.
- **Edit-** To modify or delete an existing entry.

To add a new entry, please follow the steps below.

- 1. Click the **Add New** button.
- 2. In Mode field, select IP Address, MAC Address or URL Address.
 - 1) If you select IP Address.

Add or Edit A Target Entry						
Mode:	IP Address	~				
Description: IP Address: Port:			-	-		
	Save		Back			

- I) In **Description** field, create a unique description for the target (e.g. Target_1).
- II) In IP Address field, enter the IP address of the target.
- III) Specify the **Target Port** manually.
- 2) If you select MAC Address, the screen shown is figure above

Add or Edit A Target Entry	
Mode: Description: MAC Address:	MAC Address
	Save Back

- I) In **Description** field, create a unique description for the target (e.g. Target_1).
- II) In **IP Address** field, enter the IP address of the target.
- III) Specify the Target Port manually.

3) If you select **URL Address**, the screen shown is figure below

Add or Edit A Target Entry		
Mode:	URL Address	
Description: Add URL Address:	Target_1	
	Detail	
	www.google.com	
Delete	(Will not take effect until you save these changes)	
	Save Back	

- I) In **Description** field, create a unique description for the target (e.g. Target_1).
- II) In Add URL Address field, enter the domain name, either the full name or the keywords (for example, google) in the blank. Any domain name with keywords in it (www.google.com, www.google.cn) will be blocked or allowed. Click Add to save the address,
- 3. Click the **Save** button.

Click the **Delete Selected** button to delete the selected entries in the table.

For example: If you desire to restrict the internet activities of host with MAC address 00:11:22:33:44:AA in the LAN to access **www.google.com** only, you should first follow the settings below:

- 1. Click Add New button to enter the Add or Modify an Access Target Entry page.
- 2. In **Mode** field, select **URL Address** from the drop-down list.
- 3. In **Description** field, create a unique description for the target (e.g. Target_1).
- 4. In Add URL Address field, enter www.google.com. And then click Add to save the entry.
- 5. Click **Save** to complete the settings.

Then you will go back to the Target Settings page and see the following list.

Description	Details	Edit
Target_1	www.google.com	<u>Edit</u>

4.15.4 Schedule

Choose menu "Access Control \rightarrow Schedule", and then you can view and set a Schedule list in the next screen as shown in figure below. The Schedule list is necessary for the Access Control Rule.

Schedule Settings	chedule Settings					
E	Description	Edit				
E	Schedule_1	Edit				
Add New	Delete Selected					

- > **Description** Here displays the description of the schedule and this description is unique.
- > Edit Here you can edit or delete an existing schedule.

To add a new schedule, follow the steps below:

- 1. Click Add New button.
- 2. In **Description** field, create a unique description for the schedule (e.g. Schedule_1).
- 3. Select the **Day** or days from the drop-down list. And then select the **Start Time** and **Stop Time** from the drop-down list. Click **Add** to save the entry.
- 4. Click **Save** to complete the settings.

Click the **Delete Selected** button to delete selected entries in the table.

			Des	crip	tion:	Se	ched	ule	_1									
Apply	To:			Start	Time			E	End	Time		_						
Each W	eek	V	18	:00		~		24:	00			-		A	dd			
Mon.	ПТ	ues.	🗆 W	/ed.	T	hur.	F	ri.	~	Sat.	V	Sun.						
	Time	9:00	10:00	11:00	12:00	13:00	14:0	0 15:	00 1	16:00	17:00	18:00	19:00	20:0	21:00	22:00	23:00	
	Sun.																	
	Mon.																	
	Tues.																	
	Wed.																	
	Thur.																	
	Fri.																	
	Sat.																	
			_															
Clea	ar Sche	edule																

For example: If you desire to restrict the internet activities of host with MAC address 00:11:22:33:44:AA to access www.google.com only from **18:00 to 20:00** on **Saturday** and **Sunday**, you should first follow the settings below:

- 1. Click Add New button to enter the Advanced Schedule Settings page.
- 2. In **Description** field, create a unique description for the schedule (e.g. Schedule_1).
- 3. In **Day** list, select **Each Week** from the drop-down list and click **Sat** and **Sun**.
- 4. In **Time** list, select 1800 for Start Time field and 2000 for Stop Time. And then click the **Add** button .
- 5. Click **Save** to complete the settings.

4.16 Advanced Routing



There are two submenus under the Advanced Routing menu: **Static Route List** and **System Routing Table**. Click any of them, and you will be able to configure the corresponding function.

4.16.1 Static Route List

Choose menu "Advanced Routing \rightarrow Static Route List", and then you can configure the static route in the next screen. A static route is a pre-determined path that network information must travel to reach a specific host or network.

Static Route				
Destination IP Address	Subnet Mask	Gateway	Status	Edit
Add New Enable S	Selected Disable Sel	ected Delete Selecte	ed	
	Refresh			

To add static route entries:

1. Click Add New, you will see the following screen.

Static Route	
Destination IP Address:	
Subnet Mask:	
Gateway: Interface:	WAN
Status:	Enabled
	Save Back

- 2. Enter the following data:
 - Destination IP Address The Destination IP Address is the address of the network or host that you want to assign to a static route.
 - Subnet Mask The Subnet Mask determines which portion of an IP Address is the network portion, and which portion is the host portion.
 - Gateway This is the IP Address of the gateway device that allows for contact between the router and the network or host.
- 3. Select Enabled or Disabled for this entry on the Status drop-down list.
- 4. Click the **Save** button to make the entry take effect.

Other configurations for the entries:

Click the **Delete** button to delete the entry.

Click the **Enable Selected** button to enable the selected entries.

Click the **Disable Selected** button to disable the selected entries.

Click the **Delete Selected** button to delete the selected entries.

4.16.2 System Routing Table

Choose menu "Advanced Routing \rightarrow System Routing Table", and then you can view the System Routing Table in the next screen. System routing table views all of the valid route entries in use. The Destination IP address, Subnet Mask, Gateway, and Interface will be displayed for each entry.

D	Destination Network	Subnet Mask	Gateway	Interface
1	192.168.0.0	255.255.255.0	0.0.0.0	LAN & WLAN

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

4.17 Bandwidth Control

Enable Bandwidth	Control						
	512		Kbps				
Egress Bandwidth: Ingress Bandwidth:		2048	2048				
Save Bandwidth (Control Rules						
Bandwidth (Egress B	andwidth	Ingress I	Bandwidth	Status	Edit
Bandwidth (Control Rules	Egress B Min	andwidth Max	Ingress I Min	Bandwidth Max	Status	Edit

Choose menu "Bandwidth Control", and then you can configure the bandwidth control in the screen.

You can configure the Egress Bandwidth and Ingress Bandwidth in this page. Their values you configure should be less than 100000Kbps. You can also view and configure the Bandwidth Control rules in this page.

- Enable Bandwidth Control Check this box so that the Bandwidth Control settings can take effect.
- > Egress Bandwidth The upload speed through the Internet port.
- > Ingress Bandwidth The download speed through the Internet port.

Click **Save** to make the settings take effect.

- > **Description -** This is the information about the rules such as address range.
- > **Priority** The priority of the rule, ranging from 1 to 8. 1 stands for the highest priority
- Egress bandwidth This field displays the max and mix upload bandwidth through the Internet port, the default is 0.
- Ingress bandwidth This field displays the max and mix download bandwidth through the Internet port, the default is 0.
- > **Status -** This displays the status of the rule.
- > Edit Click Edit to edit the rule. Click Delete to delete the rule.

To add/modify a Bandwidth Control rule, follow the steps below.

- 1. Click Add New.
- 2. Enter the information like the screen shown below.

Bandwidth Control			
Enable: IP Range:	☑	192.168.0.23	
Port Range: Protocol:	21		
Priority:		aning highest priority)	
Egress Bandwidth: Ingress Bandwidth:	Min Bandwidth(Kbps) 1 1	Max Bandwidth(Kbps) 1000 4000	
	Save Ba	ck	

3. Click the **Save** button.

4.18 IP & MAC Binding

IP & MAC Binding	
- Binding Settings	
- ARP List	

There are two submenus under the IP &MAC Binding menu: **Binding Settings** and **ARP List**. Click any of them, and you will be able to scan or configure the corresponding function. The detailed explanations for each submenu are provided below.

4.18.1 Binding Settings

This page displays the **IP & MAC Binding Setting** table; you can operate it in accord with your desire.

Binding Settings					
	ARP Binding:	○ Enable ⊙ Disable	Save		
	MAC Address	IP Address	Bind	Edit	
Add New	Enable Selected	Disable Selected	Delete Select	ed	
		Refresh			

- > MAC Address The MAC address of the controlled computer in the LAN.
- > **IP Address -** The assigned IP address of the controlled computer in the LAN.
- **Bind -** Check this option to enable ARP binding for a specific device.
- **Edit -** To edit or delete an existing entry.

When you want to add or modify an IP & MAC Binding entry, you can click the **Add New** button or **Edit** button, and then you will go to the next page. This page is used for adding or modifying an IP & MAC Binding entry.

Binding Settings	
This page allows you to set IP-MAC Binding entries	i.
MAC Address:	
IP Address:	
Bind:	
	Save Back

To add IP & MAC Binding entries, follow the steps below.

- 1. Click the **Add New** button.
- 2. Enter the MAC Address and IP Address.
- 3. Select the Bind checkbox.
- 4. Click the Save button to save it.

To modify or delete an existing entry, follow the steps below.

- 1. Find the desired entry in the table.
- 2. Click Edit or Delete as desired on the Edit column.

4.18.2 ARP List

To manage the computer, you could observe the computers in the LAN by checking the relationship of MAC address and IP address on the ARP list, and you could also configure the items on the ARP list. This page displays the ARP List; it shows all the existing IP & MAC Binding entries.

	MAC Address	IP Address	Status	
	90:2B:34:63:59:B6	192.168.0.106	Unloaded	
	Delete Selected			
Refresh				
	_	90:2B:34:63:59:B6 Delete Selected	90:2B:34:63:59:B6 192.168.0.106 Delete Selected	

- 1. **MAC Address -** The MAC address of the controlled computer in the LAN.
- 2. IP Address The assigned IP address of the controlled computer in the LAN.
- 3. **Status -** Indicates whether or not the MAC and IP addresses are bound.

Click the **Load Selected** button to load the selected items to the IP & MAC Binding list. Click the **Delete Selected** button to delete the selected items to the IP & MAC Binding list. Click the **Refresh** button to refresh all items.

Note:

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

4.19 Dynamic DNS

Choose menu "Dynamic DNS", and you can configure the Dynamic DNS function.

The router offers the **DDNS** (Dynamic Domain Name System) feature, which allows the hosting of a website, FTP server, or e-mail server with a fixed domain name (named by yourself) and a dynamic IP address, and then your friends can connect to your server by entering your domain

name no matter what your IP address is. Before using this feature, you need to sign up for DDNS service providers such as www.comexe.cn, dyn.com/dns/, or www.no-ip.com. The Dynamic DNS client service provider will give you a password or key.

4.19.1 No-ip.com DDNS

If the dynamic DNS **Service Provider** you select is www.no-ip.com, the page will appear as shown in. figure below

DDNS Settings					
Service Provider:	www.no-ip.com Go to register				
Domain Name:					
Username:					
Password:					
Enable DDNS:					
Connection Status:	L Disconnected				
Login Logout					
Save					

To set up for DDNS, follow these instructions:

- 1. Enter the **Domain Name** you received from dynamic DNS service provider.
- 2. Enter the **Username** for your DDNS account.
- 3. Enter the **Password** for your DDNS account.
- 4. Enable DDNS.
- 5. Click the **Login** button to login to the DDNS service.

Connection Status - The status of the DDNS service connection is displayed here.

Click Logout to log out the DDNS service.

P Note:

If you want to login again with another account after a successful login, please click the **Logout** button, then input your new username and password and click the **Login** button.

4.19.2 Comexe.cn DDNS

If the dynamic DNS **Service Provider** you select is www.comexe.cn, the page will appear as shown in figure below.

DDNS Settings	
Service Provider:	www.comexe.cn Solo to register
Domain Name1:	
Domain Name2:	
Domain Name3:	
Domain Name4:	
Domain Name5:	
Username:	
Password:	
Enable DDNS:	
Connection Status:	Disconnected
Login Logout	
	Save

To set up for DDNS, follow these instructions:

- 1. Enter the **Domain Name** your dynamic DNS service provider gave.
- 2. Enter the username for your DDNS account.
- 3. Enter the **Password** for your DDNS account.
- 4. Enable DDNS.
- 5. Click the **Login** button to login the DDNS service.

Connection Status - The status of the DDNS service connection is displayed here.

Click Logout to log out of the DDNS service.

P Note:

If you want to login again with another account after a successful login, please click the **Logout** button, then input your new username and password and click the **Login** button.

4.19.3 Dyn.com/dns DDNS

If the dynamic DNS **Service Provider** you select is dyn.com/dns/, the page will appear as shown in figure below.

DDNS Settings	
Service Provider: Domain Name:	dyn.com/dns/
Username: Password:	
Enable DDNS: Connection Status:	Disconnected
Login Logout	Distoimetted
	Save

To set up for DDNS, follow these instructions:

- 1. Enter the **Domain Name** you received from dynamic DNS service provider.
- 2. Enter the **Username** for your DDNS account.
- 3. Enter the Password for your DDNS account.
- 4. Enable DDNS.
- 5. Click the Login button to login to the DDNS service.

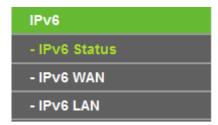
Connection Status - The status of the DDNS service connection is displayed here.

Click Logout to logout of the DDNS service.

Note:

If you want to login again with another account after a successful login, please click the **Logout** button, then input your new username and password and click the **Login** button.

4.20 IPv6



There are three submenus under the IPv6 Support menu: **IPv6 Status**, **IPv6 WAN and IPv6 LAN**. Click either of them, and you will be able to scan or configure the corresponding function. The detailed explanations for each submenu are provided below.

4.20.1 IPv6 Status

Pv6 Status		
WAN		
	Connection Type:	Dynamic IPv6
	Connection Status:	Disconnected
	IPv6 Address:	:: /0
	IPv6 Default Gateway:	Auto
	Primary IPv6 DNS:	
	Secondary IPv6 DNS:	
IPv6 LAN		
	IPv6 Address Type:	DHCPv6
	Prefix Length:	64
	IPv6 Address:	N/A

The **IPv6 Status** page displays the router's current IPv6 status and configuration. All information is read-only.

> WAN

- Connection Type The IPv6 connection way for WAN
- Connection Status The status of IPv6 connection
- IPv6 Address The WAN IPv6 address
- IPv6 Default Gateway The router's default gateway
- **Primary IPv6 DNS** The primary IPv6 DNS address
- Secondary IPv6 DNS The secondary IPv6 DNS address
- > LAN
 - **IPv6 Address Type** There are two types of assignation for IPv6 address: RADVD (Stateless address auto-configuration) and DHCPv6 (Dynamic Host Configuration Protocol for IPv6) Server.
 - **Prefix Length** The prefix length of IPv6 address
 - IPv6 Address The LAN IPv6 address

4.20.2 IPv6 WAN

IPv6 WAN	
Connection Type:	Dynamic IPv6 🗸
IPv6 Address:	::
Prefix Length:	0
IPv6 Gateway:	::
Addressing Type:	DHCPv6
MTU(Bytes):	Hide 1500 (1500 as default, do not change unless necessary)
Enable MLD Proxy:	
Set IPv6 DNS Server manually:	
Host Name:	Archer_C20
	Save

- Connection Type Choose the correct WAN connection type based on your ISP network topology.
 - **Dynamic IPv6** Connections which use dynamic IPv6 address assignment.
 - Static IPv6 Connections which use static IPv6 address assignment.
 - **PPPoEv6** Connections which use PPPoEV6 that requires a user name and password.
 - **Tunnel 6to4** Connections which use 6to4 address assignment.

Different types of WAN connection require you to do different settings. Below are the detailed explanations for the respective type.

1) Dynamic IPv6

IPv6 WAN	
Connection Type:	Dynamic IPv6
IPv6 Address:	::
Prefix Length:	0
IPv6 Gateway:	::
Addressing Type:	DHCPv6
MTU(Bytes):	Hide • 1500 (1500 as default, do not change unless necessary)
Enable MLD Proxy:	
Set IPv6 DNS Server manually:	
Host Name:	Archer_C20
	Save

- > IPv6 Address The IPv6 address assigned by your ISP dynamically.
- > **Prefix Length** The length of IPv6 address prefix.
- > **IPv6 Gateway** Enter the default gateway provided by your ISP.
- Addressing Type There are two types of assignation for IPv6 address: SLAAC (Stateless address auto-configuration) and DHCPv6 (Dynamic Host Configuration Protocol for IPv6) Server.
- MTU(Bytes) The normal MTU (Maximum Transmission Unit) value for most Ethernet networks is 1500 Bytes. For some ISPs, you may need to modify the MTU. But this is rarely required, and should not be done unless you are sure it is necessary for your ISP connection.

If your ISP gives you one or two DNS IPv6 addresses, select **Set IPv6 DNS Server manually** and enter the **IPv6 DNS Server** and **Secondary IPv6 DNS Server** into the correct fields. Otherwise, the DNS servers will be assigned from ISP dynamically.

- > Enable MLD Proxy Enable the Multicast Listener Discovery (MLD) Proxy function if you need.
- > IPv6 DNS Server Enter the DNS IPv6 address provided by your ISP.
- > Secondary IPv6 DNS Server Enter another DNS IPv6 address provided by your ISP.

Note:

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

2) Static IPv6

IPv6 WAN		
Connection Type:	Static IPv6	
IPv6 Address: Prefix Length: IPv6 Gateway: IPv6 DNS Server: Secondary IPv6 DNS Server:	:: 64 :: :: ::	(optional) (optional) (optional)
MTU(Bytes): Enable MLD Proxy:	1500 (1500 as defa	ult, do not change unless necessary)
	Save	

- > **IPv6 Address** Enter the IPv6 address provided by your ISP.
- > **Prefix Length** The length of IPv6 address prefix.
- > **IPv6 Gateway** Enter the default gateway provided by your ISP.
- > **IPv6 DNS Server** Enter the DNS IPv6 address provided by your ISP.
- > Secondary IPv6 DNS Server Enter another DNS IPv6 address provided by your ISP.
- MTU(Bytes) The normal MTU (Maximum Transmission Unit) value for most Ethernet networks is 1500 Bytes. For some ISPs, you may need to modify the MTU. But this is rarely required, and should not be done unless you are sure it is necessary for your ISP connection.
- > Enable MLD Proxy Enable the Multicast Listener Discovery (MLD) Proxy function if you need.

3) PPPoEv6

IPv6 WAN	
Connection Typ	e: PPPoEv6
PPP Usernam	e:
PPP Passwor	d:
Confirm passwor	d:
Authentication Typ	e: AUTO_AUTH
Addressing Typ	e: DHCPv6
Service Nam Server Nam	
MTU(Byte	s): 1480 (1480 as default, do not change unless necessary)
Enable MLD Prox	y: 🗆
Use IPv6 address specified by IS	P: 🔲
Set IPv6 DNS Server manual	y: 🗆
	Save

- PPP Username/Password Enter the User Name and Password provided by your ISP. These fields are case-sensitive.
- Authentication Type Choose one authentication type from AUTO-AUTH, PAP, CHAP and MS-CHAP.
- Addressing Type There are two types of assignation for IPv6 address: SLAAC (Stateless address auto-configuration) and DHCPv6 (Dynamic Host Configuration Protocol for IPv6) Server.
- MTU(Bytes) The normal MTU (Maximum Transmission Unit) value for most Ethernet networks is 1500 Bytes. For some ISPs, you may need to modify the MTU. But this is rarely required, and should not be done unless you are sure it is necessary for your ISP connection.
- > Enable MLD Proxy Enable the Multicast Listener Discovery (MLD) Proxy function if you need.
- > Use IPv6 address specified by ISP Input a static IPv6 address from the ISP.
- Set IPv6 DNS Server manually Enter the IP address of the IPv6 DNS server and secondary IPv6 DNS server.

4) Tunnel 6to4

IPv6 WAN	
Connection Type:	Tunnel 6to4
WAN Connection:	ewan_ipoe_s
	Save

This type is used in the situation that your WAN connection is IPv4 while LAN connection is IPv6.

> WAN Connection - Display the available wan connection.

Click the **Save** button to save your settings.

4.20.3 IPv6 LAN

IPv6 LAN Settings	
The parameters of IPv6 LAN can be configured on this page	
Note: Only the default group will support IPv6 at this mome	nt.
Group:	Default
Address Auto-Configuration Type:	RADVD ○ DHCPv6 Server
Enable RDNSS:	
Enable ULA Prefix:	
Site Prefix Configuration Type:	Delegated Static
Prefix Delegated WAN Connection:	ewan_ipoev6_d
	Save

- Address Auto-Configuration Type Choose the IPv6 address auto-configuration type, either RADVD or DHCPv6 Server.
- Site Prefix Configuration Type Choose the site prefix configuration type, either Delegated or Static.

4.21 System Tools

System Tools	
- Time Settings	
- Diagnostic	
- Firmware Upgrade	
- Factory Defaults	
- Backup & Restore	
- Reboot	
- Password	
- System Log	
- Statistics	

Choose menu "System Tools", and you can see the submenus under the main menu: Time Settings, Diagnostic, Firmware Upgrade, Factory Defaults, Backup & Restore, Reboot, Password, System Log and Statistics. Click any of them, and you will be able to configure the corresponding functions. The detailed explanations for each submenu are provided below.

4.21.1 Time Settings

Choose menu "System Tools→Time Settings", and then you can configure the time on the following screen.

ime Settings:						
Time Zone:		100 Tons 100	Canadian Ta		•	
Date:	1970 Year 1	Month 1	Day			
Time	3 Hour 2	5 Minute 20	Second	Get from PC		
NTP Server 1:			(optional)			
NTP Server 2:			(optional)			
Get GMT	(Only when the	Internet connect	ion is active).			

- > Time Zone Select your local time zone from this pull down list.
- > **Date -** Enter your local date in MM/DD/YY into the right blanks.
- > **Time -** Enter your local time in HH/MM/SS into the right blanks.
- > Get From PC Enter your PC's current time into the right blanks.
- NTP Server 1 / NTP Server 2 Enter the address or domain of the NTP Server 1 or NTP Server 2, and then the router will get the time from the NTP Server preferentially. In addition,

the router built-in some common NTP Servers, so it can get time automatically once it connects the Internet.

- > Enable Daylight Saving Check the box to enable the Daylight Saving function.
- Start The time to start the Daylight Saving. Select the month in the first field, the week in the second field, the day in the third field and the time in the last field.
- End The time to end the Daylight Saving. Select the month in the first field, the week in the second field, the day in the third field and the time in the last field.

To set time manually:

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

To set time automatically:

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

To set Daylight Saving:

- 1. Check the box to enable Daylight Saving.
- 2. Select the start time from the drop-down lists in the **Start** field.
- 3. Select the end time from the drop-down lists in the **End** field.
- 4. Click the **Save** button to save the settings.

Start:	1970 Mar 🗸 Last 🗸 Sun 👻 01:00 🗸
End:	1970 Oct v Last v Sun v 02:00 v

Note:

- 1. This setting will be used for some time-based functions such as firewall. You must specify your time zone once you login to the router successfully, otherwise, these functions will not take effect.
- 2. The time will be lost if the router is turned off.
- 3. The router will automatically obtain GMT from the Internet if it is configured accordingly.

4. The Daylight Saving will take effect one minute after the configurations are completed.

4.21.2 Diagnostic

Choose menu "System Tools \rightarrow Diagnostic", and then you can transact Ping or Traceroute function to check connectivity of your network in the following screen.

Diagnostic Tools	
Diagnostic Parameters	
Diagnostic Tool:	
IP address/Domain name:	
Ping Count:	4 ping(1 - 50)
Ping Packet Size:	64 (1 - 65535 Bytes)
Ping Timeout:	1 (1 - 60 Seconds)
Traceroute Max TTL:	20 (1 - 30)
Diagnostic Results	

- > **Diagnostic Tool** Check the radio button to select one diagnostic too.
- Ping This diagnostic tool troubleshoots connectivity, reachability, and name resolution to a given host or gateway.
- > **Traceroute** This diagnostic tool tests the performance of a connection.

Note:

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

- IP Address/Domain Name Enter the IP Address or Domain Name of the PC whose connection you wish to diagnose.
- > **Ping Count -** Specifies the number of Echo Request messages sent. The default is 4.
- > Ping Packet Size Specifies the number of data bytes to be sent. The default is 64.

- > **Ping Timeout -** Time to wait for a response, in milliseconds. The default is 800.
- Traceroute Max TTL Set the maximum number of hops (max TTL to be reached) in the path to search for the target (destination). The default is 20.

Click Start to check the connectivity of the Internet.

The **Diagnostic Results** page displays the result of diagnosis.

If the result is similar to the following screen, the connectivity of the Internet is fine.

Diagnostic Results	
Pinging 202.108.22.5 with 64 bytes of data:	
Reply from 202.108.22.5: bytes=64 time=1 TTL=127 seq=1 Reply from 202.108.22.5: bytes=64 time=1 TTL=127 seq=2 Reply from 202.108.22.5: bytes=64 time=1 TTL=127 seq=3 Reply from 202.202.5: bytes=64 time=1 TTL=127 seq=3	
Reply from 202.108.22.5: bytes=64 time=1 TTL=127 seq=4 Ping statistics for 202.108.22.5 Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),	
Approximate round trip times in milliseconds: Minimum = 1, Maximum = 1, Average = 1	

Note:

- 1. Only one user can use the diagnostic tools at one time.
- 2. "Ping Count", "Ping Packet Size" and "Ping Timeout" are Ping Parameters, and "Traceroute Max TTL" is Traceroute Parameter.

4.21.3 Firmware Upgrade

Choose menu "System Tools \rightarrow Firmware Upgrade", and then you can update the latest version of firmware for the router on the following screen.

Firmware Upgrade	
Firmware File Path:	Browse
Firmware version:	0.9.1 0.1 v0044.0 Build 141121 Rel.32711n
Hardware version:	Archer C20 v1 00000000
	Upgrade

- Firmware Version Displays the current firmware version.
- Hardware Version Displays the current hardware version. The hardware version of the upgrade file must accord with the router's current hardware version.

To upgrade the router's firmware, follow these instructions below:

1. Download a most recent firmware upgrade file from our website (www.tp-link.com).

- 2. Enter or select the path name where you save the downloaded file on the computer into the **Firmware File Path** blank.
- 3. Click the **Upgrade** button.
- 4. The router will reboot while the upgrading has been finished.

Note:

- New firmware versions are posted at www.tp-link.com and can be downloaded for free. There
 is no need to upgrade the firmware unless the new firmware has a new feature you want to
 use. However, when experiencing problems caused by the router rather than the
 configuration, you can try to upgrade the firmware.
- 2) When you upgrade the router's firmware, you may lose its current configurations, so before upgrading the firmware please write down some of your customized settings to avoid losing important settings.
- 3) Do not turn off the router or press the Reset button while the firmware is being upgraded. Loss of power during the upgrade could damage the router.
- 4) The firmware version must correspond to the hardware.
- 5) The upgrade process takes a few moments and the router restarts automatically when the upgrade is complete.

4.21.4 Factory Defaults

Choose menu "System Tools \rightarrow Factory Defaults", and then and you can restore the configurations of the router to factory defaults on the following screen

Factory Defaults
Click to restore all settings within this device back to factory defaults. It is strongly recommended that you back up your current configurations before you restore factory defaults.
Restore

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

- > The default **User Name**: admin
- > The default **Password**: admin
- > The default **Subnet Mask**: 255.255.255.0

Note:

All changed settings will be lost when defaults are restored.

4.21.5 Backup & Restore

Choose menu "System Tools \rightarrow Backup & Restore", and then you can save the current configuration of the router as a backup file and restore the configuration via a backup file as shown in figure below.

Backup and Restore
Backup
You can restore a previously saved configuration bin file.
Configuration File: Browse Restore

- Click the **Backup** button to save all configuration settings as a backup file in your local computer.
- > To upgrade the router's configuration, follow these instructions.
 - Click the **Browse** button to find the configuration file which you want to restore.
 - Click the **Restore** button to update the configuration with the file whose path is the one you have input or selected in the blank.

Note:

The current configuration will be covered with the uploading configuration file. Wrong process will lead the device unmanaged. The restoring process lasts for 20 seconds and the router will restart automatically then. Keep the power of the router on during the process, in case of any damage.

4.21.6 Reboot

Choose menu "System Tools \rightarrow Reboot", and then you can click the Reboot button to reboot the router via the next screen.

System Reboot
Click Reboot to restart the device without applying any changes to your current settings.
Reboot

Some settings of the router will take effect only after rebooting, which include

- Change the LAN IP Address (system will reboot automatically).
- Upgrade the firmware of the router (system will reboot automatically).
- Restore the router's settings to factory defaults (system will reboot automatically).
- Update the configuration with the file (system will reboot automatically).

4.21.7 Password

Choose menu "System Tools \rightarrow Password", and then you can change the factory default user name and password of the router in the next screen as shown in figure below.

Password	
Username and password can contain betwee	n 1 - 15 characters and may not include spaces.
Old User Name:	
Old Password:	
New User Name:	
New Password:	
Confirm password:	
	Save Clear All

It is strongly recommended that you should change the factory default user name and password of the router, because all users who try to access the router's Web-based utility or Quick Setup will be prompted for the router's default user name and password.

Note:

The new user name and password must not exceed 14 characters in length and not include any spaces. Enter the new Password twice to confirm it.

Click the Save button when finished.

Click the **Clear All** button to clear all.

4.21.8 System Log

Choose menu "System Tools \rightarrow System Log", and then you can view the logs of the router.

Log	Type: ALL	L	og Level: D	ebug 🔽
Index	Time	Туре	Level	Content
1	1970-01-02 20:15:11	HTTPD	Notice	Clear log.

- **Log Type -** By selecting the log type, only logs of this type will be shown.
- **Log Level -** By selecting the log level, only logs of this level will be shown.
- > **Refresh -** Refresh the page to show the latest log list.
- > Clear Log All the logs will be deleted from the router permanently, not just from the page.

- > Save Log Click to save all the logs in a txt file.
- > Log Settings Click to change the log settings.

4.21.9 Statistics

Choose menu "System Tools \rightarrow Statistics", and then you can view the statistics of the router, including total traffic and current traffic of the last Packets Statistic Interval.

Traffic Statis	tics							
Traffic StatisticsLA	N							
Trai	ffic Statistics: (🔵 Enable 💿	Disable	Save				
		Statistics Inte	erval: 10 🔽	seconds				
tatistics List:								
	Т	otal		с	urrent			
IP Address MAC Address	Packets	Bytes	Packets	Bytes	ІСМР Тх	UDP Tx	SYN TX	Operation
Current list is blank								
		Reset All	Dele	ete All	Refrest	ı		

- Statistics Status Enable or Disable. The default value is disabled. To enable it, click the Enable button. If it is disabled, the function of DoS protection in Security settings will be disabled.
- Statistics Interval (5-60) The default value is 10. Select a value between 5 and 60 seconds in the drop-down list. The Packets Statistic interval indicates the time section of the packets statistic.

Click Reset All to reset the values of all the entries to zero.

Click **Delete All** to delete all entries in the table.

Click the **Refresh** button to refresh immediately.

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

Statistics Table:

There would be 5 entries on each page. Click **Previous** to return to the previous page and **Next** to the next page.

4.22 Logout

Choose "Logout", and you will be back to the login screen as shown in figure below.

TP-LINK [®]	AC750 Wireless Dual Band Router Model No. Archer C20
	admin
	Login
	Copyright © 2014 TP-LINK Technologies Co., Ltd. All rights reserved.

Appendix A: FAQ

- 1. How do I configure the router to access Internet by ADSL users?
 - 1) First, configure the ADSL Modem configured in RFC1483 bridge model.
 - Connect the Ethernet cable from your ADSL Modem to the Internet port on the router. The telephone cord plugs into the Line port of the ADSL Modem.
 - 3) Login to the router, click the "Network" menu on the left of your browser, and click "WAN" submenu. On the WAN page, select "PPPoE/Russia PPPoE" for WAN Connection Type. Type user name in the "User Name" field and password in the "Password" field, type password in the "Confirm Password" field again, finish by clicking "Connect".

Connection Type:	PPPoE	~	Detect		
PPP Username: PPP Password: Confirm password:		-			

4) If your ADSL lease is in "pay-according-time" mode, select "Connect on demand" or "Connect manually" for Internet connection mode. Type an appropriate number for "Max Idle Time" to avoid wasting paid time. Otherwise, you can select "Always on" for Internet connection mode.

	Connection Mode:	 Always on
		Connect on demand
		Connect manually
		Max Idle Time: 15 minutes (0 meaning connection reamins active at all
times)		
	Authentication Type:	AUTO_AUTH
		Connect Disconnect

Note:

- 1. Sometimes the connection cannot be disconnected although you specify a time to Max Idle Time, since some applications is visiting the Internet continually in the background.
- 2. If you are a Cable user, please configure the router following the above steps.

2. How do I configure the router to access Internet by Ethernet users?

 Login to the router, click the "Network" menu on the left of your browser, and click "WAN" submenu. On the WAN page, select "Dynamic IP" for "WAN Connection Type", finish by clicking "Save".

Archer C20 AC750 Wireless Dual Band Router

2) Some ISPs require that you register the MAC Address of your adapter, which is connected to your cable/DSL Modem during installation. If your ISP requires MAC register, login to the router and click the "Network" menu link on the left of your browser, and then click "MAC Clone" submenu link. On the "MAC Clone" page, if your PC's MAC address is proper MAC address, click the "Clone MAC Address" button and your PC's MAC address will fill in the "WAN MAC Address" field. Or else, type the MAC Address into the "WAN MAC Address" field. The format for the MAC Address is XX:XX:XX:XX:XX:XX:XX:XX:Then click the "Save" button. It will take effect after rebooting.

MAC Clone		
WAN MAC Address: Your PC's MAC Address:	00:0A:EB:13:09:6A 90:2B:34:63:59:B6	Restore Factory MAC Clone MAC Address
	Save	

3. I want to use Netmeeting, what do I need to do?

- 1) If you start Netmeeting as a host, you don't need to do anything with the router.
- 2) If you start as a response, you need to configure Virtual Server or DMZ Host and make sure the H323 ALG is enabled.
- 3) How to configure Virtual Server: Log in to the router, click the "Forwarding" menu on the left of your browser, and click "Virtual Servers" submenu. On the "Virtual Servers" page, click Add New. Then on the "Add or Modify a Virtual Server Entry" page, enter "1720" for the "Service Port" blank, and your IP address for the "IP Address" blank, taking 192.168.0.169 for an example, remember to Enable and Save.

Virtual	Server					
	Service Port	IP Address	Internal Port	Protocol	Status	Edit
	1720	192.168.0.169	1720	TCP or UDP	Enabled	Edit
Image: 1720 192.168.0.169 1720 TCP or UDP Enabled Edit Add New Enable Selected Disable Selected Delete Selected						
			Refresh	1		

		_
Service Port:		(XX-XX or XX)
IP Address:		
Internal Port:		(XX or keep empty. If it's empty, Internal port
equals to Service port)		
Protocol:	ALL	
Status:	Enabled	
Common Service Port:	Please Select	



Your opposite side should call your WAN IP, which is displayed on the "Status" page.

4) How to enable DMZ Host: Log in to the router, click the "Forwarding" menu on the left of your browser, and click "DMZ" submenu. On the "DMZ" page, click Enable radio button and type your IP address into the "DMZ Host IP Address" field, using 192.168.0.169 as an example, remember to click the Save button.

DMZ	
DMZ Status:	○ Enable ④ Disable
DMZ Host IP Address:	0.0.0.0
	Save

5) How to enable H323 ALG: Log in to the router, click the "Security" menu on the left of your browser, and click "Basic Security" submenu. On the "Basic Security" page, check the Enable radio button next to H323 ALG. Remember to click the Save button.

Basic Secur	Basic Security		
Firewall	Enable SPI Firewall:	V	
VPN			
	PPTP Pass-through:		
	L2TP Passt-hrough:		
	IPSec Pass-through:		
ALG			
	FTP ALG:		
	TFTP ALG:	Inable O Disable	
	H323 ALG:	● Enable ○ Disable	
	SIP ALG:	● Enable ○ Disable	
	RTSP ALG:	Inable O Disable	
		Save	

4. I want to build a WEB Server on the LAN, what should I do?

- 1) Because the WEB Server port 80 will interfere with the WEB management port 80 on the router, you must change the WEB management port number to avoid interference.
- 2) To change the WEB management port number: Log in to the router, click the "Security" menu on the left of your browser, and click "Remote Management" submenu. On the "Remote Management" page, type a port number except 80, such as 88, into the "Web Management Port" field. Click Save and reboot the router.

Remote Management	
Web Management Port: Remote Management IP Address:	88 0.0.0.0 (Enter 255.255.255.255 for all)
	Save

Note:

If the above configuration takes effect, you can visit and configure the router by typing http://192.168.0.1:88 (the router's LAN IP address: Web Management Port) in the address field of the Web browser. If the LAN IP of the modem connected with your router is 192.168.0.x, the default LAN IP of the router will automatically switch from 192.168.0.1 to 192.168.1.1 to avoid IP conflict; in this case, please try http://192.168.1.1:88.

3) Log in to the router, click the "Forwarding" menu on the left of your browser, and click the "Virtual Servers" submenu. On the "Virtual Servers" page, click Add New, then on the "Add or Modify a Virtual Server" page, enter "80" into the blank next to the "Service Port", and your IP address next to the "IP Address", assuming 192.168.0.188 for an example, remember to Enable and Save.

/irtual	Server					
	Service Port	IP Address	Internal Port	Protocol	Status	Edit
	80	192.168.0.188	80	TCP or UDP	Enabled	<u>Edit</u>
80 192.168.0.188 80 TCP or UDP Enabled Edit Add New Enable Selected Disable Selected Delete Selected						
			Refresh			

Service Port:		(XX-XX or XX)
		(///-/// 01 ///)
IP Address:		
Internal Port:		(XX or keep empty. If it's empty, Internal port
equals to Service port)		
Protocol:	ALL	
Status:	Enabled	
Common Service Port:	Please Select	

5. The wireless stations cannot connect to the router.

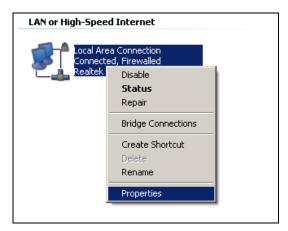
- 1) Make sure the "Wireless Radio Band" is enabled.
- 2) Make sure that the wireless stations' SSID accord with the router's SSID.
- Make sure the wireless stations have right KEY for encryption when the router is encrypted.
- If the wireless connection is ready, but you can't access the router, check the IP Address of your wireless stations.

Appendix B: Configuring the PC

In this section, we'll introduce how to install and configure the TCP/IP correctly in Windows XP. First make sure your Ethernet Adapter is working, refer to the adapter's manual if needed.

1. Install TCP/IP component

- 1) On the Windows taskbar, click the **Start** button, point to **Settings**, and then click **Control Panel**.
- 2) Click the **Network and Internet Connections** icon, and then click on the **Network Connections** tab in the appearing window.
- 3) Right click the icon that showed below, select Properties on the prompt page.



4) In the prompt page that showed below, double click on the Internet Protocol (TCP/IP).

Local Area Connection Properties	? ×
General Authentication Advanced	
Connect using:	
Realtek RTL8139 Family PCI Fast Etł	onfigure
This connection uses the following items:	
☑ ☐ QoS Packet Scheduler ☑ 录 AEGIS Protocol (IEEE 802.1x) v3.4.3.0	
Acting Protocol (TCP/IP)	
Install Uninstall Pr	operties
Description	
Transmission Control Protocol/Internet Protocol. Th wide area network protocol that provides communic	
across diverse interconnected networks.	
Show icon in notification area when connected	
Notify me when this connection has limited or no c	onnectivity

5) The following **TCP/IP Properties** window will display and the **IP Address** tab is open on this window by default.

6) Select **Obtain an IP address automatically** and **Obtain DNS server automatically**, as shown in the Figure below:

eneral Alternate Configuration	
	ed automatically if your network supports eed to ask your network administrator for
• Obtain an IP address auto	omatically
O Use the following IP address	855:
[P address:	
Sybnet mask:	
Default gateway:	· · · · · ·
 Obtain DNS server addre Use the following DNS se Preferred DNS server: 	
Alternate DNS server:	· · ·
	Ad <u>v</u> anced

Appendix C: Specifications

General			
Standards	IEEE 802.11ac, IEEE 802.11n, IEEE 802.11g, IEEE 802.11b, IEEE 802.11a, IEEE 802.11e, IEEE 802.11i, IEEE 802.1X, IEEE 802.3X, IEEE 802.3, IEEE 802.3u,		
Protocols	TCP/IP, PPPoE, DHCP, ICMP, NAT, SNTP, IGMPv3, L2TP, PPTP, IPv6, MLD		
Ports	 1 10/100M Auto-Negotiation Internet RJ45 port; 4 10/100M Auto-Negotiation Ethernet RJ45 ports supporting Auto MDI/MDIX; 1 USB port supporting storage/FTP/Media/Print Server; 		
Cabling Type	10BASE-T: UTP category 3, 4, 5 cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100m) 100BASE-TX: UTP category 5, 5e cable (maximum 100m)		
	EIA/TIA-568 100 Ω STP (maximum 100m)		
LEDs	$ \begin{array}{c} \textcircled{0}{lllllllllllllllllllllllllllllllllll$		
Safety & Emissions	FCC, CE		
Wireless			
Frequency Band*	2.4GHz, 5GHz		
Radio Data Rate	11b: 1/2/5.5/11Mbps 11a/g: 6/9/12/18/24/36/48/54/Mbps 11n: up to 300Mbps 11ac: up to 450Mbps		
Frequency Expansion	DSSS (Direct Sequence Spread Spectrum)		
Modulation	11ac: 256-QAM for OFDM 11n/g/a: QPSK,BPSK,16-QAM, 64-QAM for OFDM 11b: CCK,DQPSK,DBPSK		
Security	WEP, WPA/WPA2, WPA2-PSK/WPA-PSK		
	5G: 2.4G:		
	11a 6Mbps: -91dBm 11g 54M: -76dBm		
Sensitivity @PER	11a 54Mbps: -74dBm 11n HT20: -74dmB		
	11ac HT20: -66dBm 11n HT40: -71dBm		
	11ac HT40:-64dBm		
	11ac HT80: -61dBm		
Environmental and Pl	hysical		
Temperature	Operating: 0°C~40°C (32°F~104°F)		
	Storage: -40°C ~70°C (-40°F ~158°F)		
Humidity	Operating: 10% - 90% RH, Non-condensing		
	Storage: 5% - 90% RH, Non-condensing		

* Only 2.412GHz~2.462GHz is allowed to be used in USA, which means only channel 1~11 is available for American users to choose.

Appendix D: Glossary

- 802.11ac IEEE 802.11ac is a wireless computer networking standard of 802.11.This specification will enable multi-station WLAN throughput of at least 1 gigabit per second .This is accomplished by extending the air interface concepts embraced by 802.11n: wider RF bandwidth, more MIMO spatial streams, multi-user MIMO, and high-density modulation (up to 256 QAM).
- 802.11n 802.11n builds upon previous 802.11 standards by adding MIMO (multiple-input multiple-output). MIMO uses multiple transmitter and receiver antennas to allow for increased data throughput via spatial multiplexing and increased range by exploiting the spatial diversity, perhaps through coding schemes like Alamouti coding. The Enhanced Wireless Consortium (EWC) [3] was formed to help accelerate the IEEE 802.11n development process and promote a technology specification for interoperability of next-generation wireless local area networking (WLAN) products.
- 802.11b The 802.11b standard specifies a wireless networking at 11 Mbps using direct-sequence spread-spectrum (DSSS) technology and operating in the unlicensed radio spectrum at 2.4GHz, and WEP encryption for security. 802.11b networks are also referred to as Wi-Fi networks.
- 802.11g specification for wireless networking at 54 Mbps using direct-sequence spread-spectrum (DSSS) technology, using OFDM modulation and operating in the unlicensed radio spectrum at 2.4GHz, and backward compatibility with IEEE 802.11b devices, and WEP encryption for security.
- DDNS (Dynamic Domain Name System) The capability of assigning a fixed host and domain name to a dynamic Internet IP Address.
- DHCP (Dynamic Host Configuration Protocol) A protocol that automatically configure the TCP/IP parameters for the all the PC(s) that are connected to a DHCP server.
- DMZ (Demilitarized Zone) A Demilitarized Zone allows one local host to be exposed to the Internet for a special-purpose service such as Internet gaming or videoconferencing.
- DNS (Domain Name System) An Internet Service that translates the names of websites into IP addresses.
- **Domain Name -** A descriptive name for an address or group of addresses on the Internet.
- DSL (Digital Subscriber Line) A technology that allows data to be sent or received over existing traditional phone lines.
- > **ISP** (Internet Service Provider) A company that provides access to the Internet.

- MTU (Maximum Transmission Unit) The size in bytes of the largest packet that can be transmitted.
- NAT (Network Address Translation) NAT technology translates IP addresses of a local area network to a different IP address for the Internet.
- PPPoE (Point to Point Protocol over Ethernet) PPPoE is a protocol for connecting remote hosts to the Internet over an always-on connection by simulating a dial-up connection.
- SSID A Service Set Identification is a thirty-two character (maximum) alphanumeric key identifying a wireless local area network. For the wireless devices in a network to communicate with each other, all devices must be configured with the same SSID. This is typically the configuration parameter for a wireless PC card. It corresponds to the ESSID in the wireless Access Point and to the wireless network name.
- WEP (Wired Equivalent Privacy) A data privacy mechanism based on a 64-bit or 128-bit or 152-bit shared key algorithm, as described in the IEEE 802.11 standard.
- Wi-Fi A trade name for the 802.11b wireless networking standard, given by the Wireless Ethernet Compatibility Alliance (WECA, see http://www.wi-fi.net), an industry standards group promoting interoperability among 802.11b devices.
- WLAN (Wireless Local Area Network) A group of computers and associated devices communicate with each other wirelessly, which network serving users are limited in a local area.