MERCUSYS®

User Guide

AC1200 Wireless Dual Band Router

AC12

REV2.0.0
1910080038

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http://www.mercusys.com

CE Mark Warning

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

OPERATING FREQUENCY(the maximum transmitted power)

2400 MHz -2483.5 MHz(20dBm)

5150 MHz -5250 MHz(23dBm)

EU declaration of conformity

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

The original EU declaration of conformity may be found at http://www.mercusys.com/en/ce

RF Exposure Information

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

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

National restrictions

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

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

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

Safety Information

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

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

NCC Notice

注意！

依據低功率電波輻射性電機管理辦法

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

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

4. 7. 9. 1 應避免影響附近雷達系統之操作。

4. 7. 9. 2 高增益指向性天線只得應用於固定式點對點系統。

BSMI Notice

安全諮詢及注意事項

- 請使用原裝電源供應器或只能按照本產品注明的電源類型使用本產品。
- 清潔本產品之前請先拔掉電源線。請勿使用液體、噴霧清潔劑或濕布進行清潔。
- 注意防潮，請勿將水或其他液體潑灑到本產品上。

- 插槽與開口供通風使用，以確保本產品的操作可靠並防止過熱，請勿堵塞或覆蓋開口。
- 請勿將本產品置放於靠近熱源的地方。除非有正常的通風，否則不可放在密閉位置中。
- 請不要私自打開機殼，不要嘗試自行維修本產品，請由授權的專業人士進行此項工作。

限用物質含有情況標示聲明書

產品元件名稱	限用物質及其化學符號					
	鉛 Pb	鎘 Cd	汞 Hg	六價鉻 CrVI	多溴聯苯 PBB	多溴二苯醚 PBDE
PCB	○	○	○	○	○	○
外殼	○	○	○	○	○	○
電源適配器	–	○	○	○	○	○

備考 1. "超出 0.1 wt %" 及 "超出 0.01 wt %" 系指限用物質之百分比含量超出百分比含量基準值。

備考 2. "○"系指該項限用物質之百分比含量未超出百分比含量基準值。

備考 3. " – " 系指該項限用物質為排除項目。

Explanation of the symbols on the product label

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

CONTENTS

Conventions

The router or AC12, or device mentioned in this User Guide stands for AC1200 Wireless Dual Band Router without any explanations.

Parameters provided in the pictures are just references for setting up the product, which may differ from the actual situation.

You can set the parameters according to your demand.

More Info

Specifications and the latest software can be found at the product page at the official website http://www.mercusys.com.

The Quick Installation Guide can be found where you find this guide or inside the package of the router.

*Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and wireless coverage are not guaranteed and will vary as a result of 1) environmental factors, including building materials, physical objects, and obstacles, 2) network conditions, including local interference, volume and density of traffic, product location, network complexity, and network overhead, and 3) client limitations, including rated performance, location, connection, quality, and client condition.

Chapter 1. Introduction

1.1 Product Overview

The router integrates 4-port Switch, Firewall, NAT-Router and Wireless AP. Powered by 2x2 MIMO technology, the 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.

1.2 Product Appearance

1.2.1 The Front Panel

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

Name	Status	Indication
SYS	Off	Power is off or the router is not working properly.
	On	The router is working properly.
WI-FI	Off	The wireless function is disabled.
	On	The wireless function is working properly.
WAN	Off	The WAN port is not connected.
	On	The WAN port is connected.
	Flashing	The WAN port is transmitting/receiving data.
LAN	Off	None of LAN ports are connected.
	On	At least one LAN port is connected.

1.2.2 The Rear Panel

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

Item	Description
1-3(LAN)	These ports connect the router to the local devices.
WAN	This port is where you will connect the DSL/cable Modem, or Ethernet.
Power	The power socket is where you will connect the power adapter. Please use the power adapter provided with this router.
WPS/Reset	Press this button for 1 second to use WPS function. Press and hold this button for more than 5 seconds to reset the 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

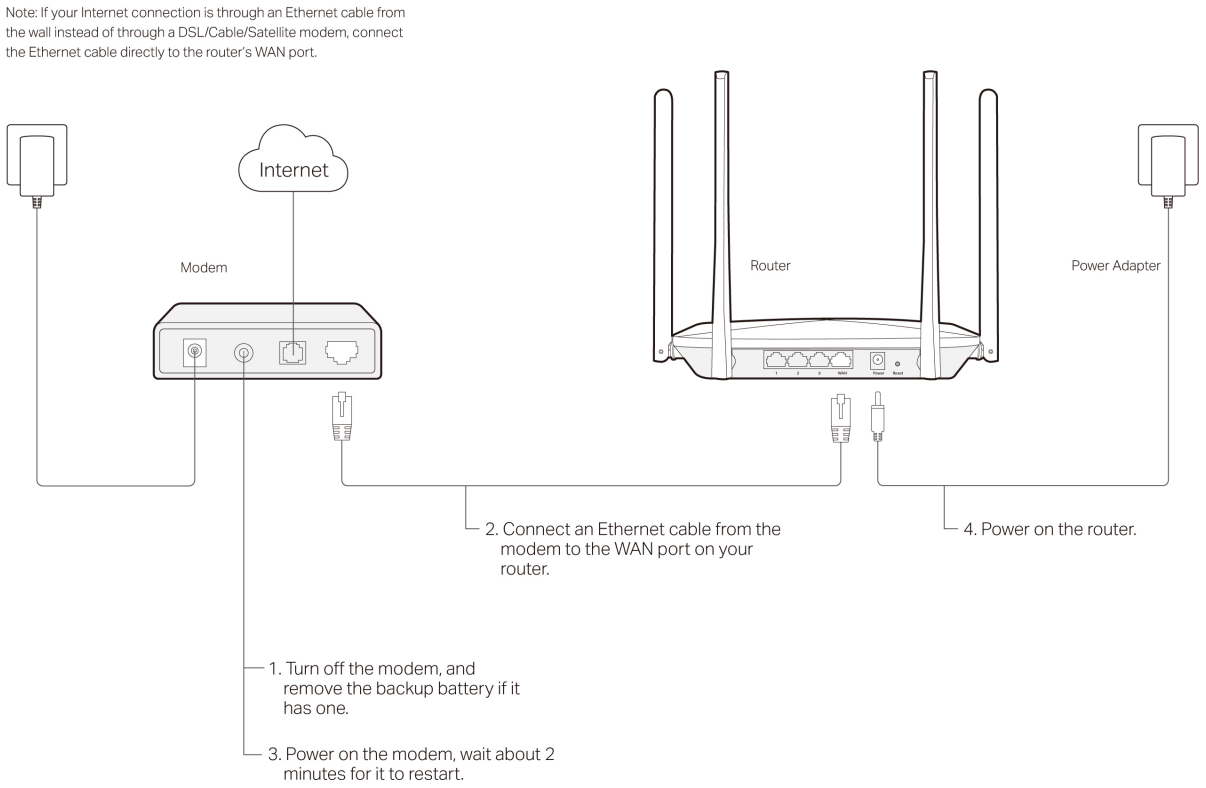
2.2 Installation Environment Requirements

- 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℃~40℃ (32℉~104℉)
- Operating Humidity: 10%~90%RH, Non-condensing

2.3 Connecting the Router

If your Internet connection is through an Ethernet cable from the wall instead of through a DSL/Cable/Satellite modem, connect the Ethernet cable directly to the router's Internet port, then follow steps 4 and 5 to complete the hardware connection.

1. Turn off the modem and remove the backup battery if it has one.
2. Connect the modem to the WAN port on your router with an Ethernet cable.
3. Turn on the modem, and then wait about 2 minutes for it to restart.
4. Turn on the router.



5. Verify that the hardware connection is correct before continuing.

Chapter 3. Quick Installation Guide

This chapter will show you how to configure the basic functions of your router using **Quick Setup Wizard** within minutes.

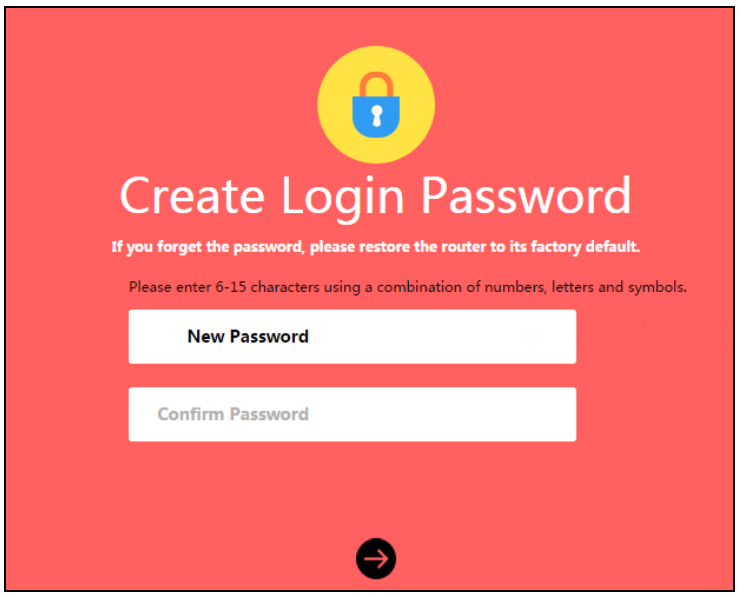
NOTE:

Before configuring the router, you need to set up the TCP/IP Protocol in **Obtain an IP address automatically** mode on your PC. For detailed instructions, please refer to Appendix B: Configuring the PC.

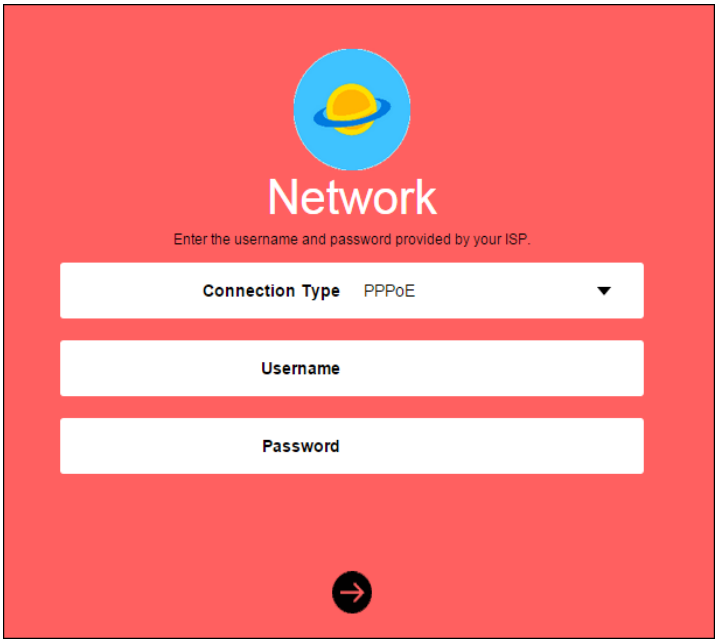
1. To access the web management page, open a web browser and enter the default domain name http://mwlogin.net in the address field.

2. A login window will appear. Create a login password when prompted. Then click .

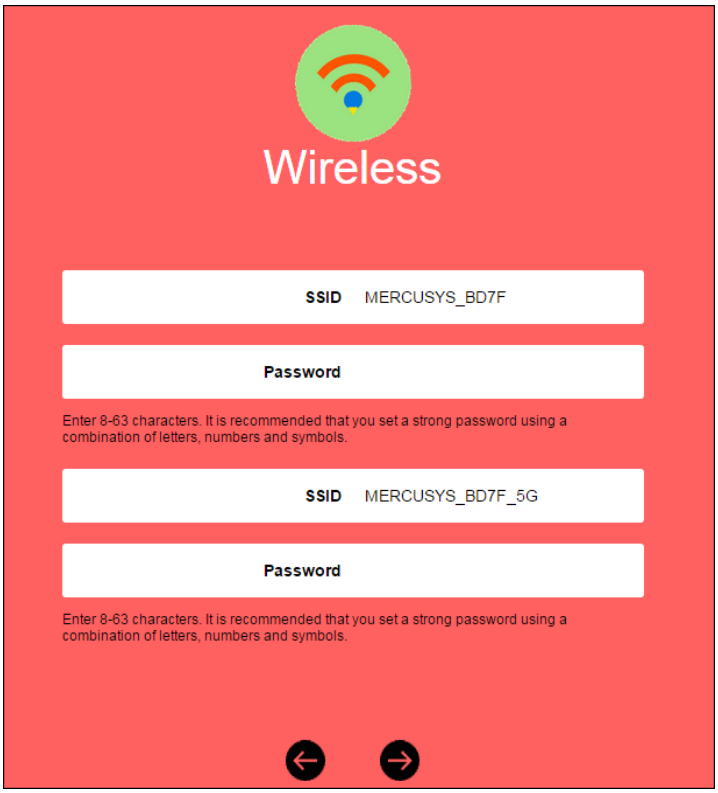
   For subsequent login, use the password you have set.



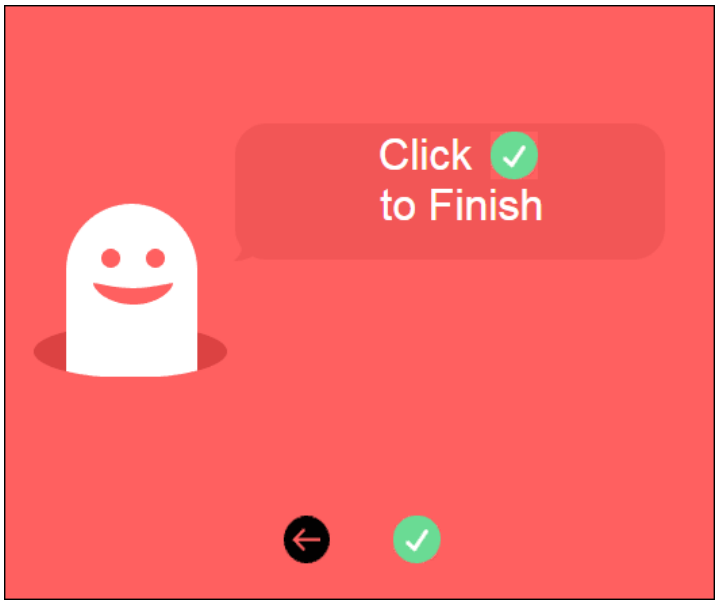
3. Select your Internet connection type and enter the corresponding parameters with the information provided by your ISP and click .



4. Customize the 2.4GHz and 5GHz wireless network name and password, or leave them as default. It is recommended that you set a strong password using a combination of letters, numbers and symbols. Then click .

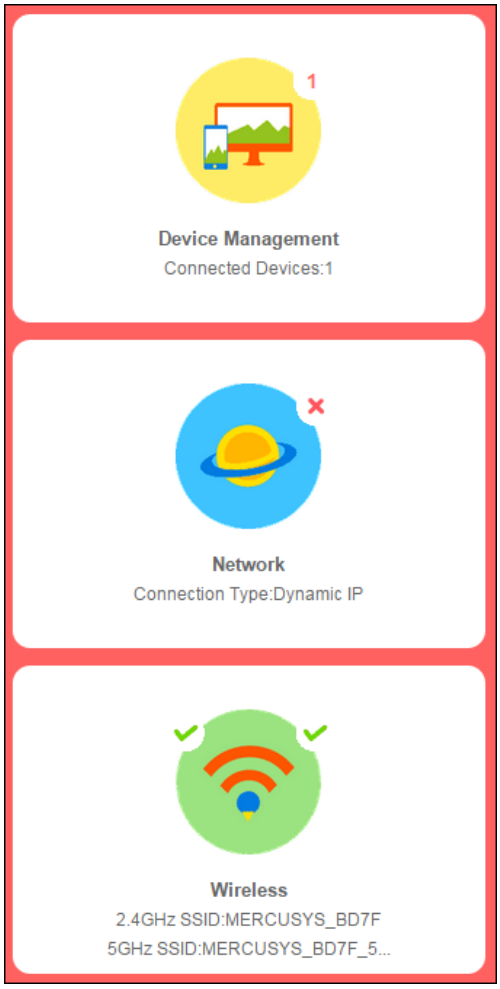


5. Click  to complete the Quick Setup.



Chapter 4. Basic Configuration

After your successful login, you will see the basic configuration page. The main menus are on the left of the page. On the right you can configure the corresponding function.

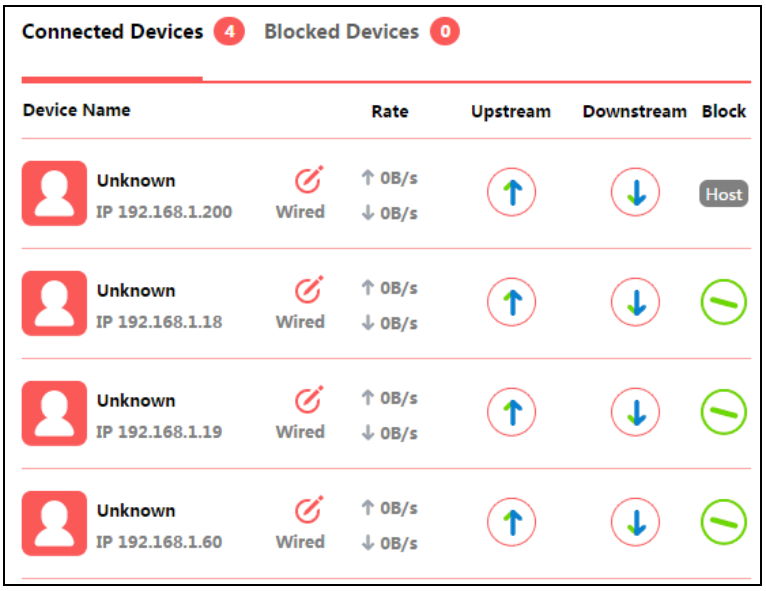


There are three functions on the **Basic** page: **Device Management**, **Network** and **Wireless**. The detailed explanations for each function are listed below.

4.1 Device Management

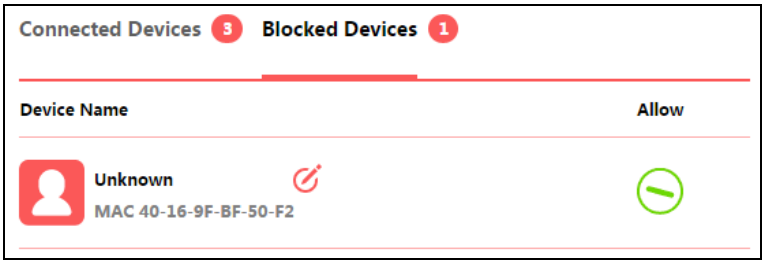
Choose **Device Management**, you can view and manage the connected or blocked devices on the page.

1. Connected Devices



- **Device Name-** Displays the name and IP address of the device. You can click to edit the device name.
- **Rate -** Displays the current upstream and downstream speed of the device.
- **Upstream/Downstream -** You can click the button or in the column to limit the upstream or downstream speed for the device.
- **Block -** Click to remove the device from the list.

2. Blocked Devices



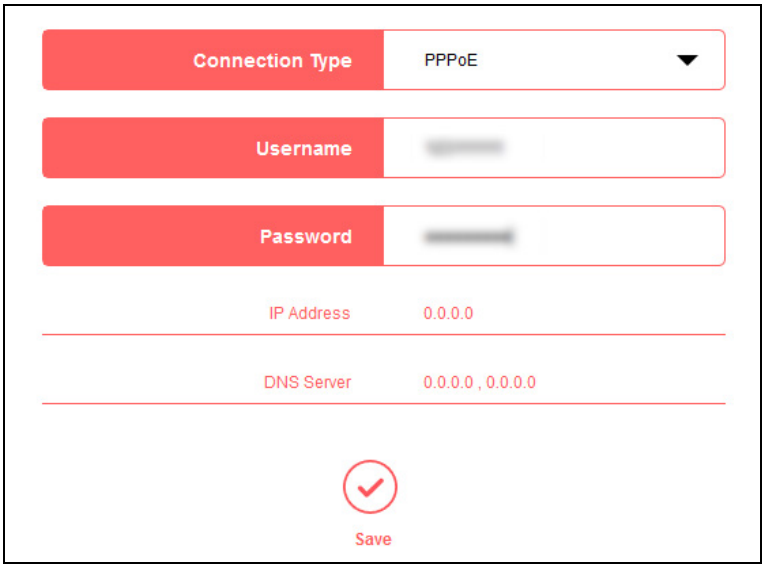
- **Device Name-** Displays the name and MAC address of the blocked device. You can click to edit the device name.
- **Allow -** Click to allow the device to connect to the router.

4.2 Network

Choose **Network**, you can view and customize the basic Internet settings on the page.

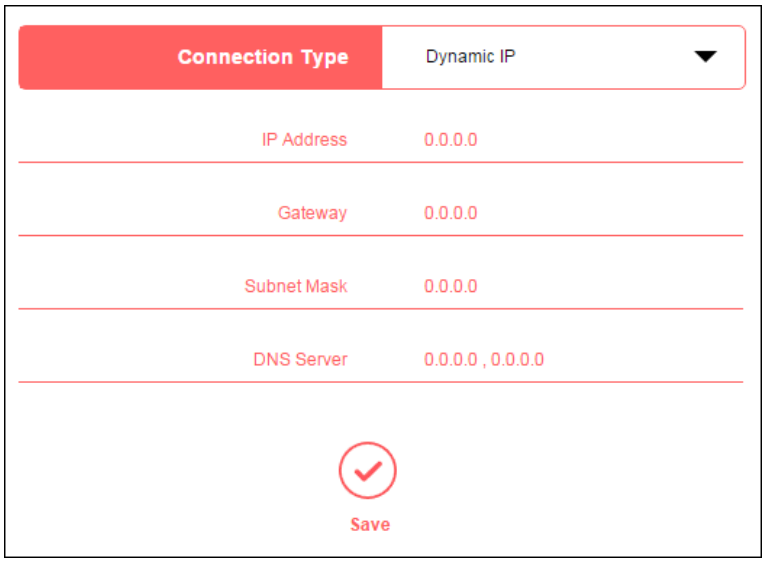
1. **PPPoE**

Select this type if you use DSL (Digital Subscriber Line) service and are provided with a username and password by the ISP.



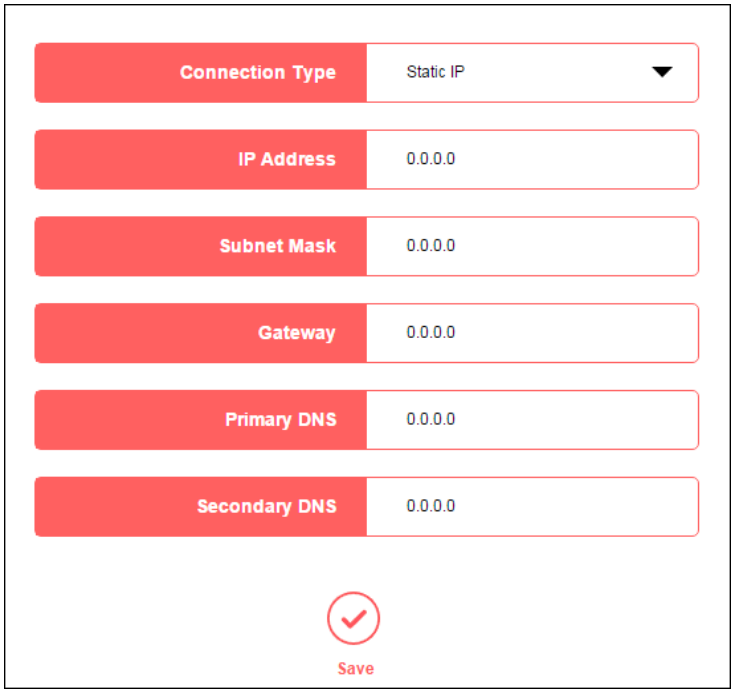
2. **Dynamic IP**

Select this type if your ISP provides the DHCP service, and the router will automatically get IP parameters from your ISP.



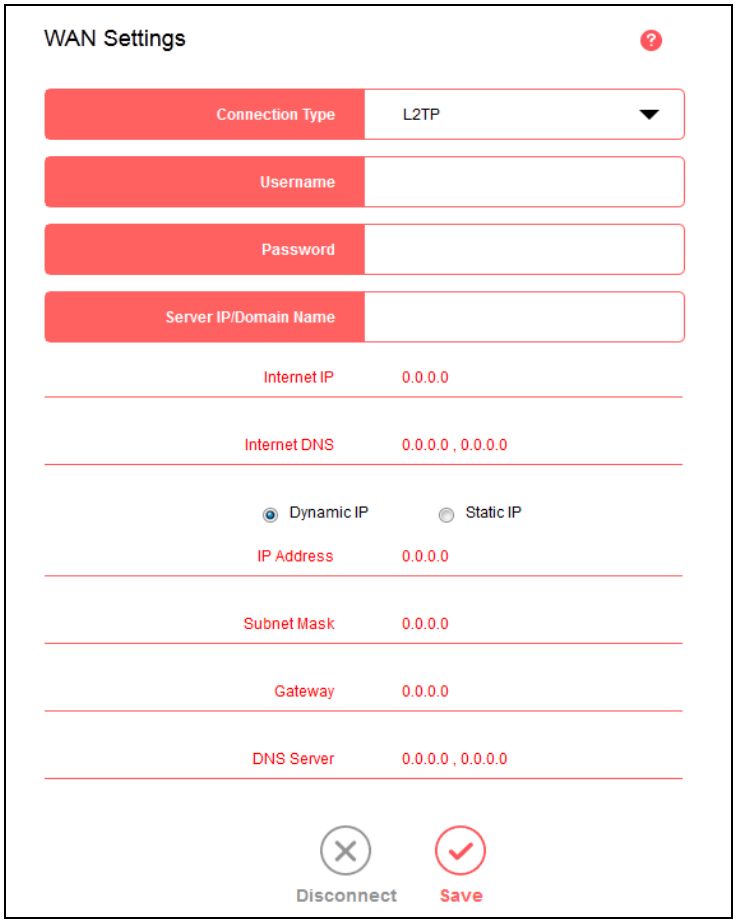
3. **Static IP**

Select this type if your ISP provides a static IP address, subnet mask, gateway and DNS settings.



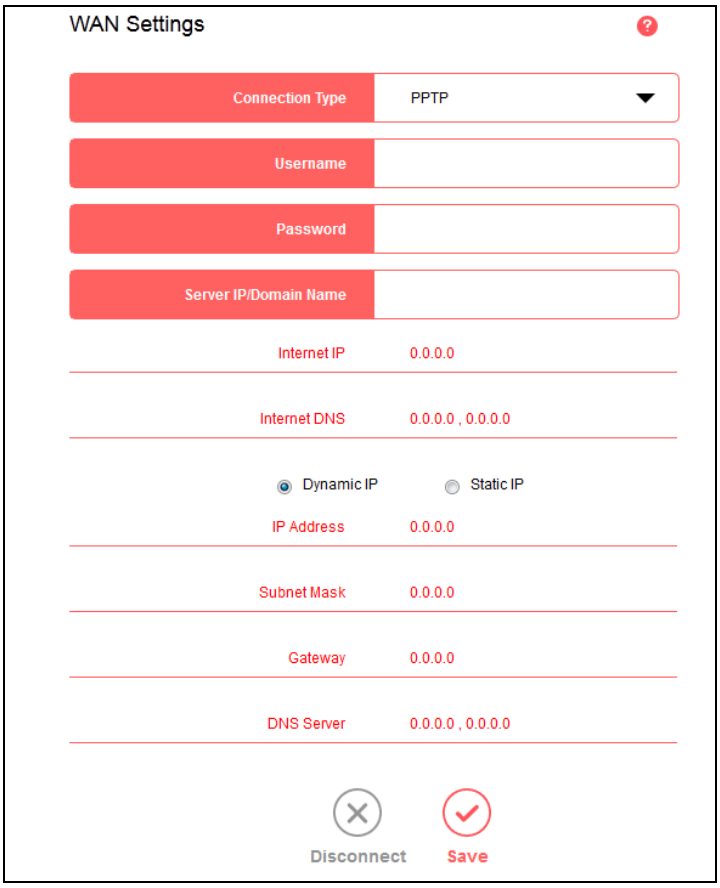
4. **L2TP**

Select this type if you connect to an L2TP VPN Server and are provided with a username, password, and IP address/domain name of the server by the ISP.



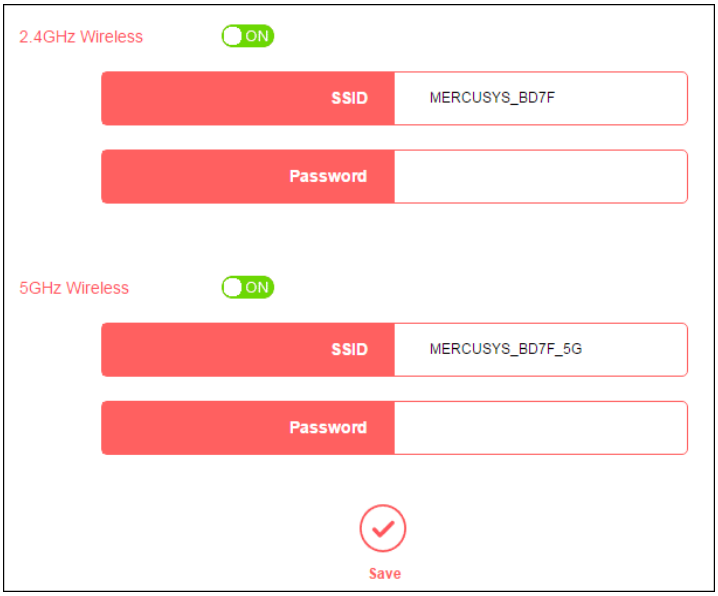
5. **PPTP**

Select this type if you connect to a PPTP VPN Server and are provided with a username, password, and IP address/domain name of the server by the ISP.



4.3 Wireless

Choose **Wireless**, and you can change the SSID (network name) and password on the page.

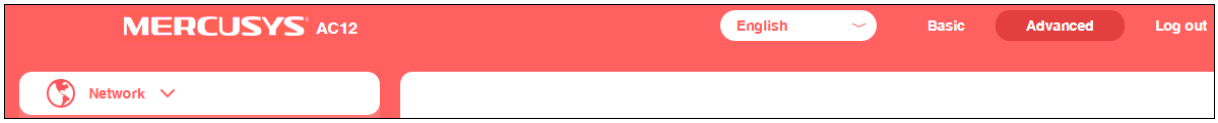


- **SSID** - Enter a value of up to 32 characters. The default SSID is MERCUSYS_XXXX for 2.4GHz and MERCUSYS_XXXX_5G for 5GHz (XXXX indicates the last unique four numbers of each router's MAC address). This field is case-sensitive.
- **Password -** Enter 8-63 characters using a combination of numbers, letters and symbols. The security version is WPA2-PSK/WPA-PSK, which supports AES encryption that provides a good level of security.

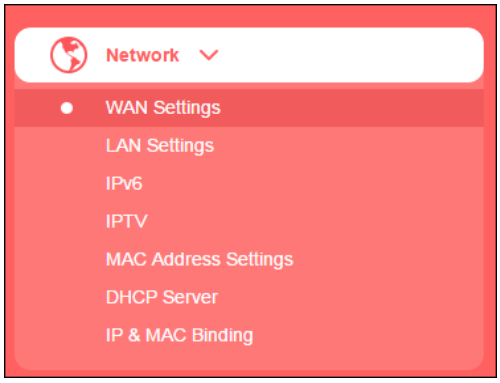
Click **Save** to make the settings effective.

Chapter 5. Advanced Configuration

To know more about the router's key functions, you can go to **Advanced** page. This chapter will show the configuration details of each function.



5.1 Network



There are seven submenus under the Network menu: **WAN Settings**, **LAN Settings**, **IPv6**, **IPTV**, **MAC Address Settings**, **DHCP Server** and **IP&MAC Binding**. Click any of them, and you can configure the corresponding function.

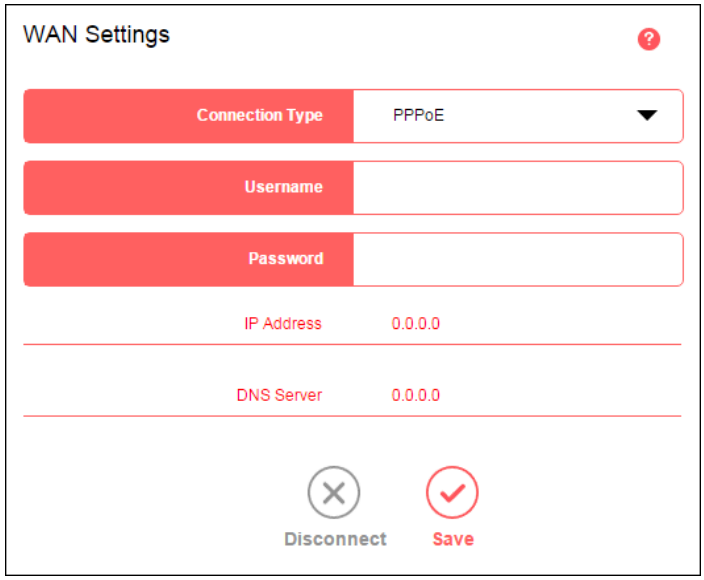
5.1.1 WAN Settings

Go to **Network→WAN Settings**, you can configure the IP parameters of the WAN.

1. PPPoE

Select this type if you use DSL (Digital Subscriber Line) service and are provided with a username and password by the ISP.

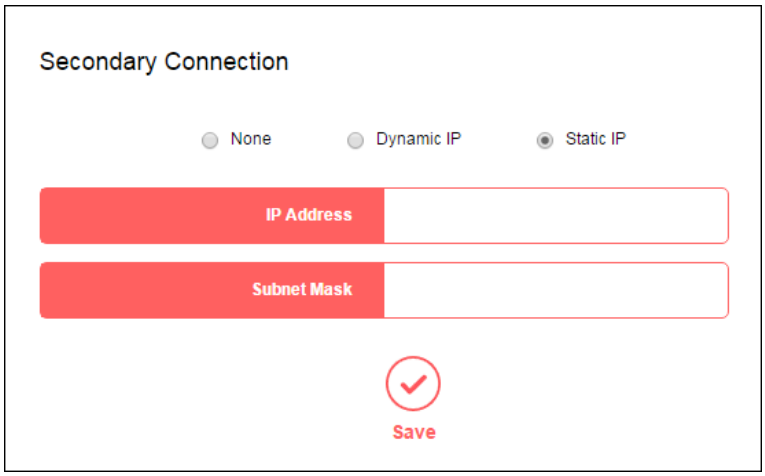
- **WAN Settings**



- **Username/Password -** Enter the username and password provided by your ISP. These fields are case-sensitive.

Click **Save** to make your settings effective.

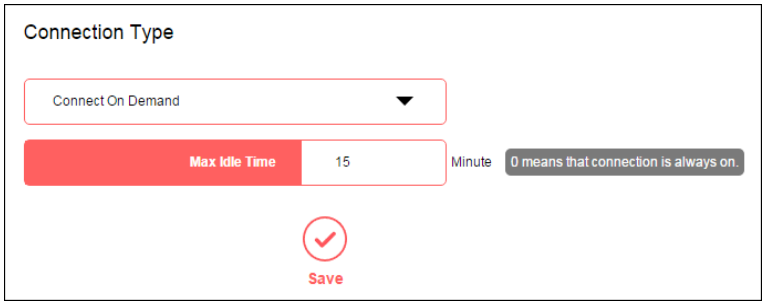
- **Secondary Connection**



- **None -** Select if your ISP does not provides a secondary connection.
- **Dynamic IP** - Select if the IP address and subnet mask are assigned automatically as the secondary connection by the ISP.
- **Static IP** - Select if the IP address and subnet mask are provided as the secondary connection by the ISP, and enter IP Address/Subnet Mask into the corresponding fields.

Click **Save** to make your settings effective.

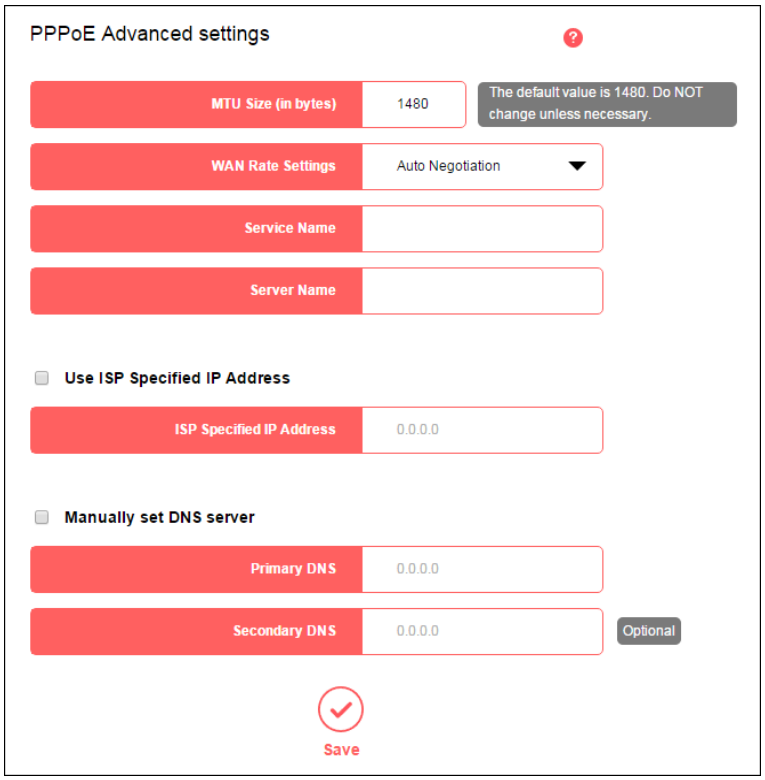
- **Connection Type**



- **Connect Automatically -** The connection can be re-established automatically when it is down.
- **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 -** 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.

Click **Save** to make the settings effective.

- **PPPoE Advanced Settings**



- **MTU Size -** The default MTU size is 1480 bytes. It is NOT recommended that you change

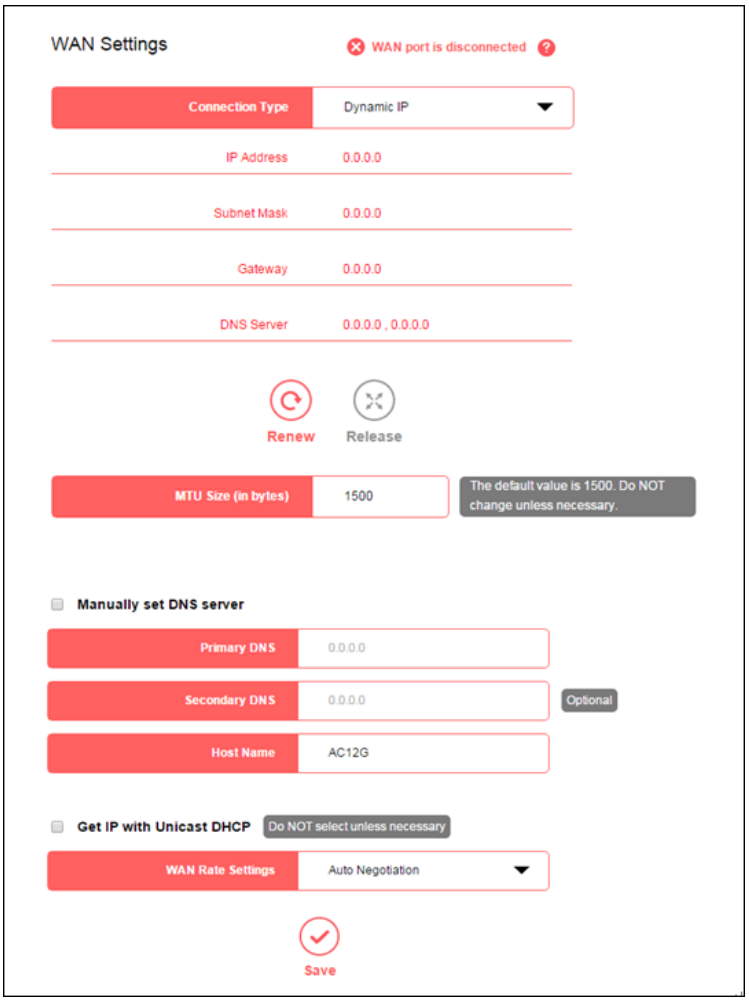
the default **MTU Size** unless required by your ISP.

- **WAN Rate Settings -** Select the rate(10Mbps/100Mbps) and duplex mode(Full Duplex/Half Duplex) for the WAN port. It is recommended to keep the default auto mode.
- **Service Name/Server Name -** The service name and server name should not be configured unless it is necessary for your ISP. In most cases, leaving these fields blank will work.
- **ISP Specified IP Address -** If your ISP does not automatically assign IP addresses to the router during login, please select **Use ISP Specified IP Address** and enter the IP address provided by your ISP in dotted-decimal notation.
- **Primary DNS/Secondary DNS -** If your ISP does not automatically assign DNS addresses to the router during login, please select **Manually Set DNS Server** and enter the IP address in dotted-decimal notation of your ISP's primary DNS server. If a secondary DNS server address is available, enter it as well.

Click **Save** to make the settings effective.

2. Dynamic IP

Select this type if your ISP provides the DHCP service, and the router will automatically get IP parameters from your ISP.

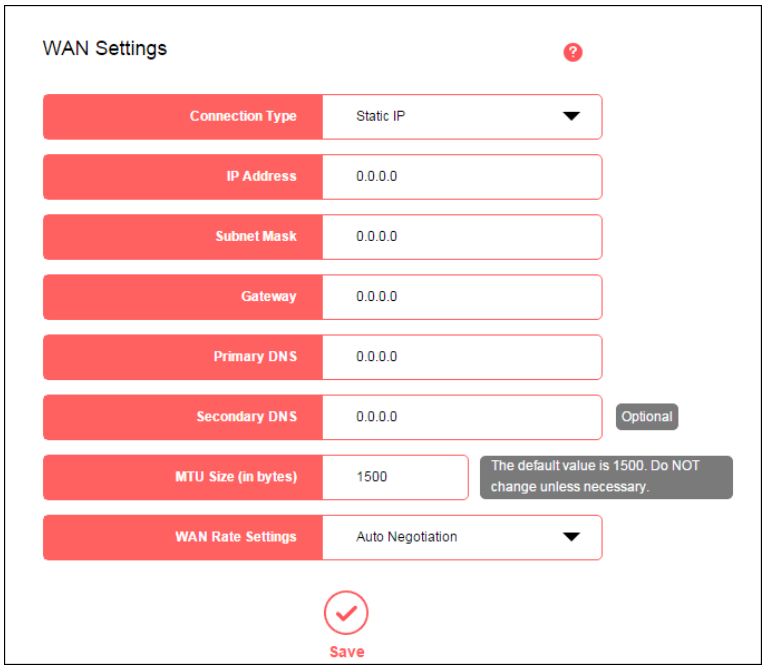


- **Renew -** Click to renew the IP parameters from your ISP.
- **Release -** Click to release the IP parameters.
- **MTU Size -** The normal MTU (Maximum Transmission Unit) value for most Ethernet networks is 1500 bytes. Do not change the default MTU Size unless required by your ISP.
- **Manually set DNS server -** If your ISP gives you one or two DNS addresses, select this option and enter the primary and secondary addresses into the corresponding fields. Otherwise, the DNS servers will be assigned dynamically from your ISP.
- **Host Name -** This option specifies the host name of the router.
- **Get IP with Unicast DHCP -** 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.)

Click **Save** to make the settings effective.

3. Static IP

Select this type if your ISP provides a static IP address, subnet mask, gateway and DNS settings.

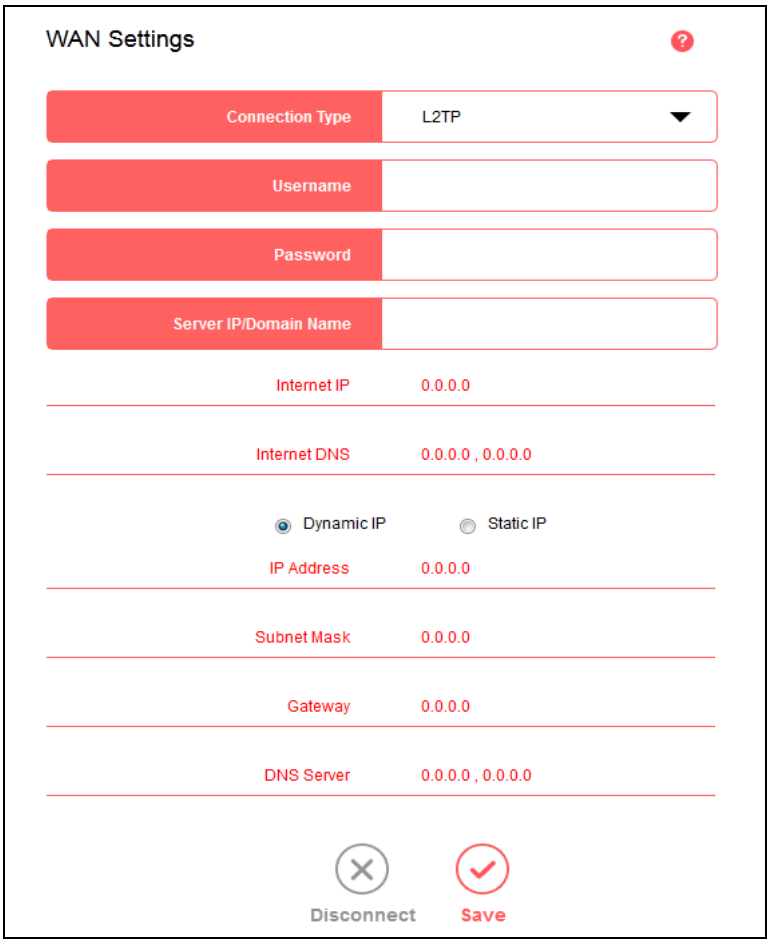


- **IP Address -** Enter the IP address in dotted-decimal notation provided by your ISP.
- **Subnet Mask -** Enter the subnet mask in dotted-decimal notation provided by your ISP, usually is 255.255.255.0.
- **Gateway -** Enter the gateway IP address in dotted-decimal notation provided by your ISP.
- **Primary/Secondary DNS -** Enter one or two DNS addresses in dotted-decimal notation provided by your ISP.
- **MTU Size -** The normal MTU (Maximum Transmission Unit) value for most Ethernet networks is 1500 Bytes. Do not change the default MTU Size unless required by your ISP.
- **WAN Rate Settings -** Select the rate(10Mbps/100Mbps) and duplex mode(Full Duplex/Half Duplex) for the WAN port. It is recommended to keep the default auto mode.

Click **Save** to make the settings effective.

4. L2TP

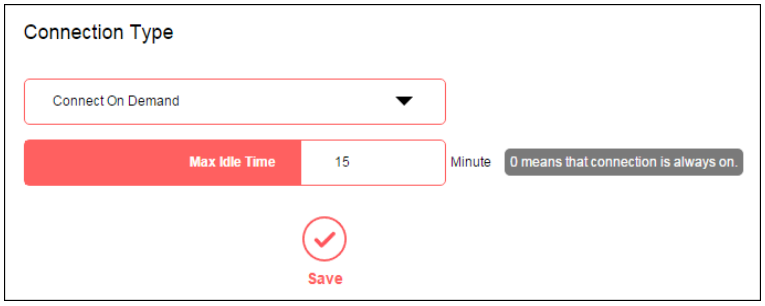
Select this type if you connect to an L2TP VPN Server and are provided with a username, password, and IP address/domain name of the server by the ISP.



- **Username/Password** - Enter the username and password provided by your ISP. These fields are case-sensitive.
- **Server IP/Domain Name** - Enter the VPN server's IP address or domain name provided by your ISP.
- **Internet IP/Internet DNS** – Displays the internet IP address/DNS server address assigned by your L2TP server.
- **Dynamic IP/Static IP** - Select Dynamic IP if the IP address and subnet mask are assigned automatically by the ISP. Select Static IP if the IP address, subnet mask, gateway, and DNS addresses are provided by the ISP, and enter these information into the corresponding fields.

Click **Save** to make the settings effective.

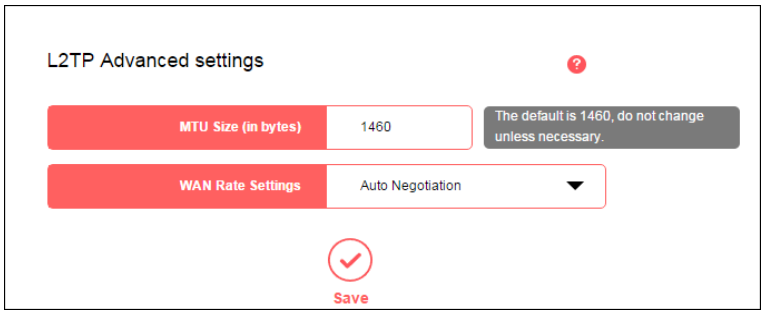
- **Connection Type**



- **Connect Automatically -** The connection can be re-established automatically when it is down.
- **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 -** 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.

Click **Save** to make the settings effective.

- **L2TP Advanced settings**

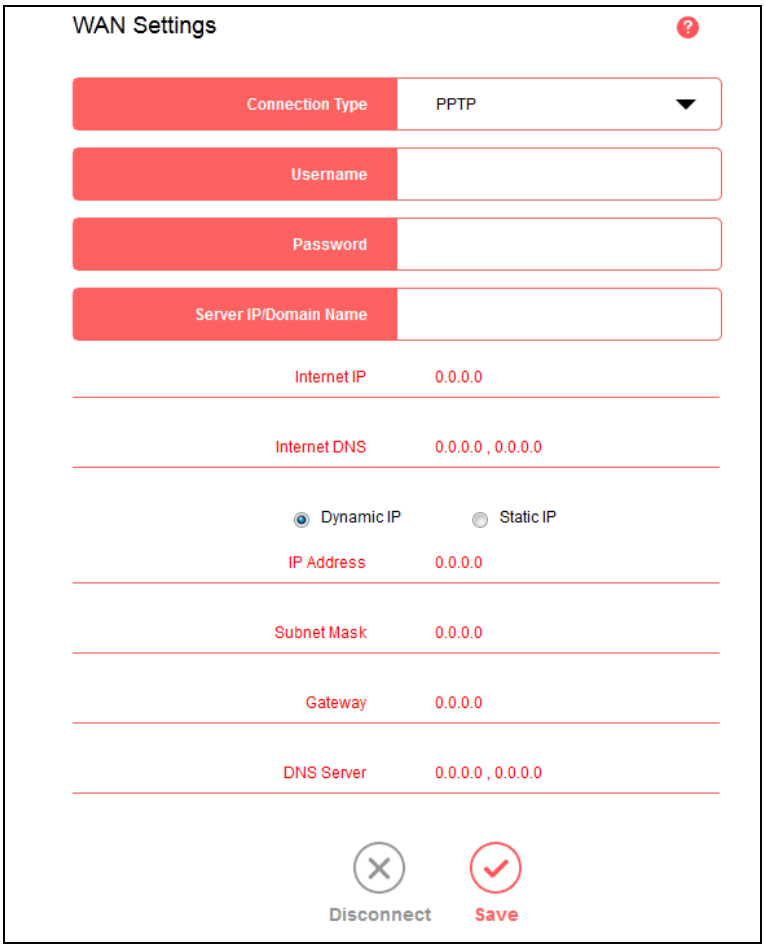


- **MTU Size (in bytes)** - The default MTU size is 1460 bytes. It is NOT recommended that you change the default MTU size unless required by your ISP.
- **WAN Rate Settings** - Select the rate and duplex mode for the WAN port. It is recommended to keep the default auto mode.

Click **Save** to make the settings effective.

5. PPTP

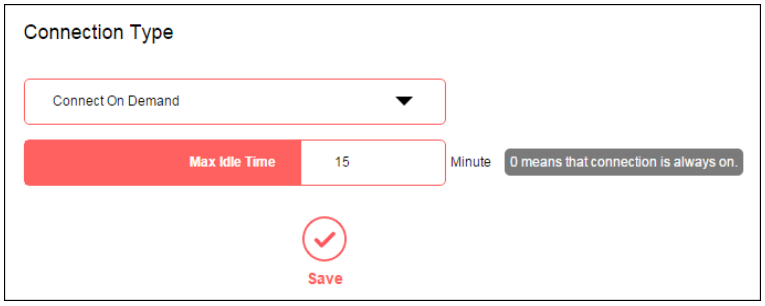
Select this type if you connect to a PPTP VPN Server and are provided with a username, password, and IP address/domain name of the server by the ISP.



- **Username/Password** - Enter the username and password provided by your ISP. These fields are case-sensitive.
- **Server IP/Domain Name** - Enter the VPN server's IP address or domain name provided by your ISP.
- **Internet IP/Internet DNS** – Displays the internet IP address/DNS server address assigned by your PPTP server.
- **Dynamic IP/Static IP** –Select Dynamic IP if the IP address and subnet mask are assigned automatically by the ISP. Select Static IP if the IP address, subnet mask, gateway, and DNS addresses are provided by the ISP, and enter these information into the corresponding fields.

Click **Save** to make the settings effective.

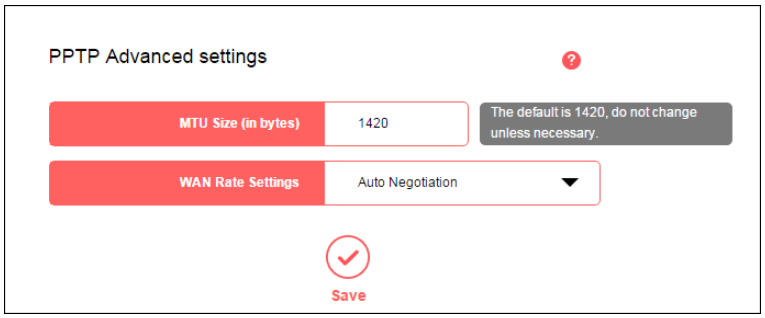
- **Connection Type**



- **Connect Automatically -** The connection can be re-established automatically when it is down.
- **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 -** 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.

Click **Save** to make the settings effective.

- **PPTP Advanced settings**

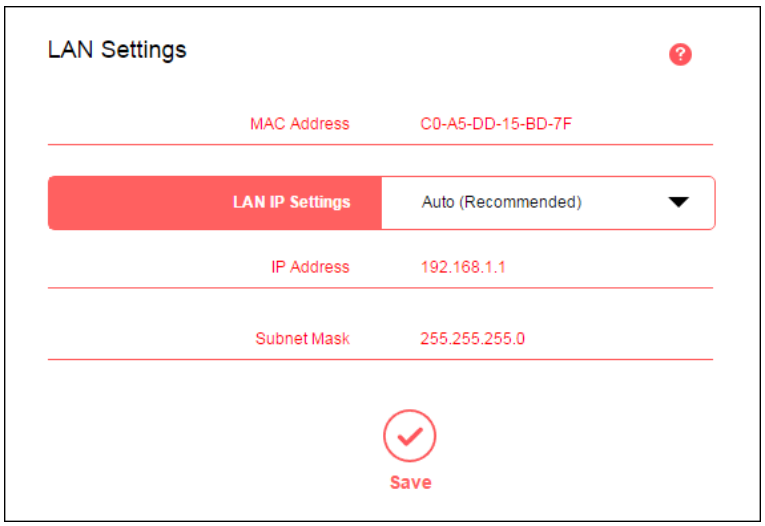


- **MTU Size (in bytes)** - The default MTU size is 1420 bytes. It is NOT recommended that you change the default MTU size unless required by your ISP.
- **WAN Rate Settings** - Select the rate and duplex mode for the WAN port. It is recommended to keep the default auto mode.

Click **Save** to make the settings effective.

5.1.2 LAN Settings

Go to **Network→LAN Settings**, you can configure the IP parameters of the LAN on the screen as below.



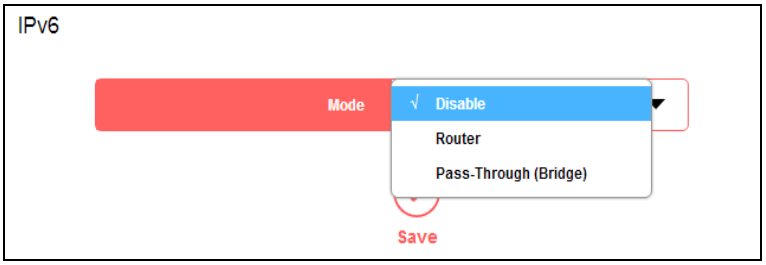
- **MAC Address -** The physical address of the router, as seen from the LAN. The value can't be changed.
- **LAN IP Settings -** Select Auto or Manual. In Auto mode, the router will automatically detect the LAN-WAN IP address confliction.
- **IP Address -** Enter the IP address of your router.
- **Subnet Mask -** An address code that determines the size of the network. Normally use 255.255.255.0 as the subnet mask.

NOTE:

1) If you change the LAN IP address, you must use the new IP address to log in to the router.
2) If the new LAN IP address you set is not in the same subnet with the previous one, the IP Address Pool in the DHCP server will be configured automatically, but the Virtual Server and DMZ Host will not take effect until they are re-configured.

5.1.3 IPv6

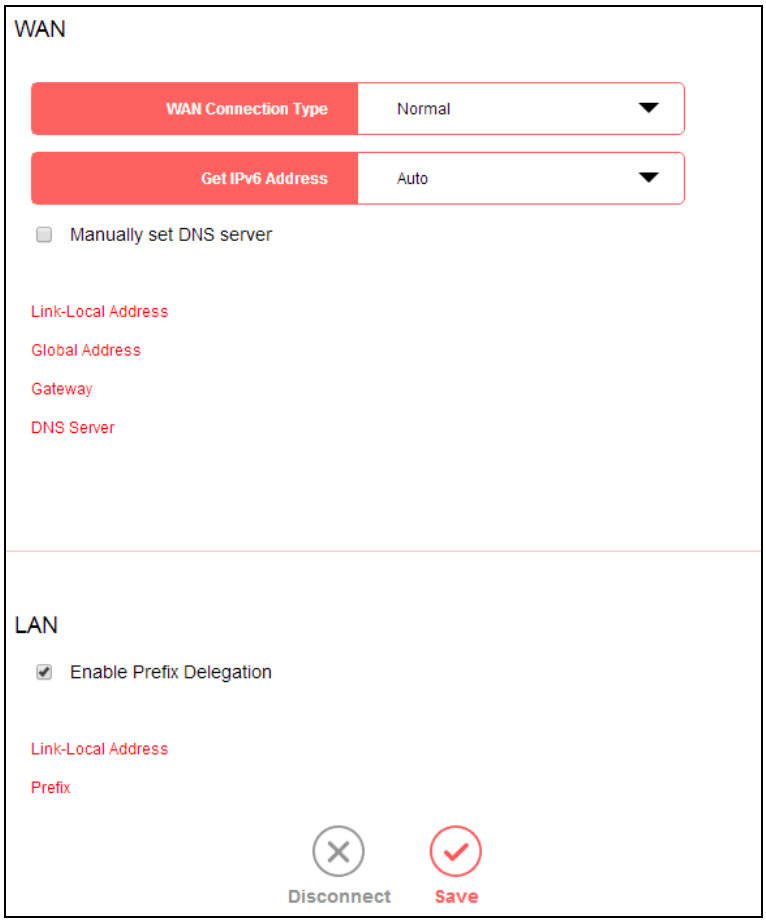
Go to **Network→IPv6,** you can configure IPv6 settings of your router.



Select a working mode according to your ISP network topology.

If your ISP uses **Pass-Through (Bridge)** network deployment, select Pass-Through (Bridge). No configuration is required for this type of connection.

For other connection types, select **Router** and complete the IPv6 configuration.



- **WAN Connection Type** - Select an appropriate WAN connection type according to the information provided by your ISP.
  - **Normal** - Select this type for normal IPv6 internet connection.
  - **PPPoE** - Select this type if your ISP uses PPPoEv6 for assigning address, and provides a username and password.
  - **Tunnel 6to4** - Select this type if your ISP uses 6to4 deployment for assigning address.
- **Get IPv6 Address** - Select Auto or Static according to the information provided by your ISP.
  - **Address** - The IPv6 address of the router's WAN interface.
  - **Prefix Length** - The IPv6 prefix length of the router's WAN interface.

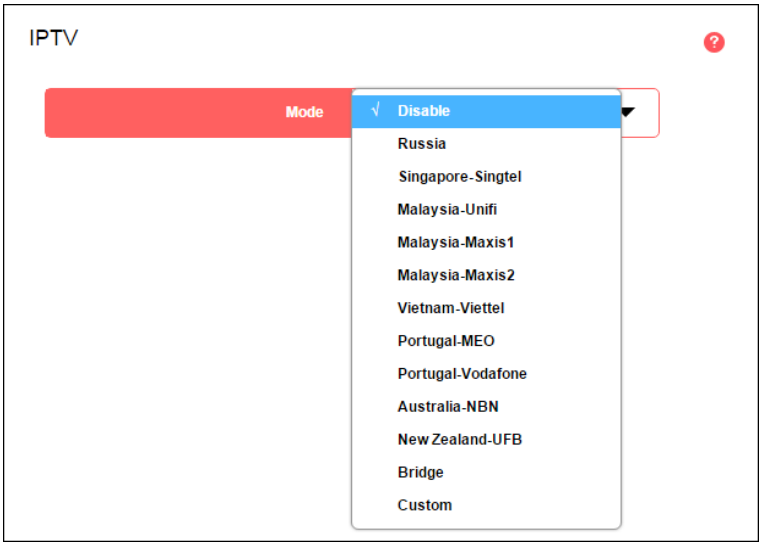
- **Gateway** - The default IPv6 gateway for the router's WAN interface.

- **Manually set DNS server** - The DNS addresses will be automatically assigned to the router. You can also set manually according to your needs.
  - **Primary/Secondary DNS** - Enter the primary/Secondary IPv6 DNS server address provided by your ISP.
- **Enable Prefix Delegation -** Select to get a prefix delegation by DHCPv6 server from the ISP. Clients in LAN will generate an IPv6 address with this prefix.

Click **Save** to make the settings effective.

5.1.4 IPTV

Go to **Network→IPTV,** you can configure IPTV setup to enable IPTV service provided by your ISP.

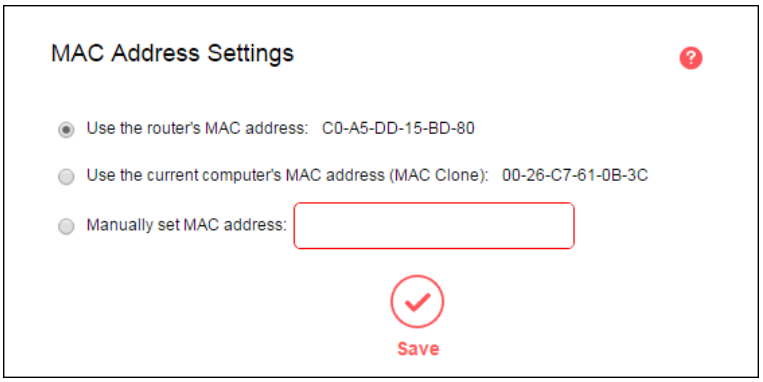


To configure IPTV, follow the steps below.

1. Select the appropriate mode according to your ISP.
   - Select **Bridge** if your ISP is not listed and no other parameters are required.
   - Select **Custom** if your ISP is not listed but provides necessary parameters.
2. After you have selected a mode, the necessary parameters, including the LAN port for IPTV connection, are predetermined.
3. Click **Save**.
4. Connect the set-top box to the corresponding LAN port which is predetermined or you have specified.

5.1.5 MAC Address Settings

Go to **Network→MAC Address Settings**, you can configure the MAC address of the WAN on the page.



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

- **Use the router's MAC address -** By default, this option is selected.
- **Use the current computer's MAC address (MAC Clone) -** Some ISPs will register the MAC address of your computer when you access the Internet for the first time through their cable modem. If you add a router into your network to share your Internet connection, the ISP will not accept it as the MAC address is changed. In this case, you need to clone your computer's MAC address to the router.
- **Manually set MAC address -** 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-XX format (X is any hexadecimal digit).

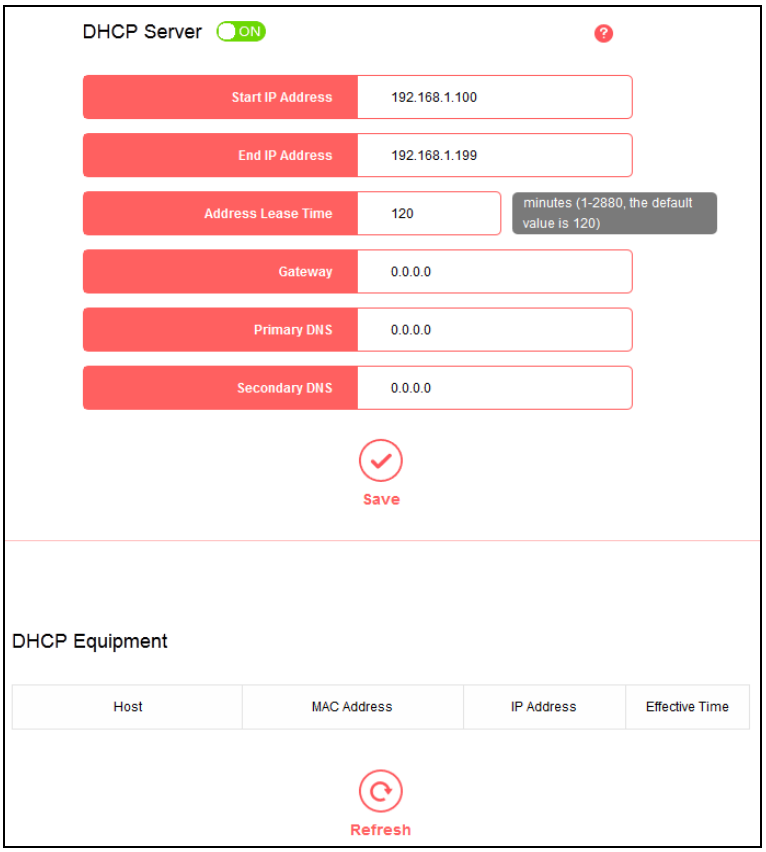
Click **Save** to make the settings effective.

NOTE:

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

5.1.6 DHCP Server

Go to **Network→DHCP Server**, you can configure the DHCP Server settings on the page. The router is set up by default as a DHCP (Dynamic Host Configuration Protocol) server, which provides the TCP/IP configuration for all the PCs that are connected to the router on the LAN.



- **DHCP Server -** Click the button to enable or disable the DHCP server. If you disable the server, you must have another DHCP server within your network or else you must configure the computer manually.
- **Start IP Address -** Specify an IP address for the DHCP Server to start with when assigning IP addresses. 192.168.1.100 is the default start address.
- **End IP Address -** Specify an IP address for the DHCP Server to end with when assigning IP addresses. 192.168.1.199 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.
- **Gateway -** (Optional.) It is recommended to enter the IP address of the LAN port of the router. The default value is 192.168.1.1.

- **Primary DNS -** (Optional.) Enter the DNS IP address provided by your ISP or consult your ISP.
- **Secondary DNS -** (Optional.) Enter the IP address of another DNS server if your ISP provides two DNS servers.

Click **Save** to make the settings effective.

NOTE:

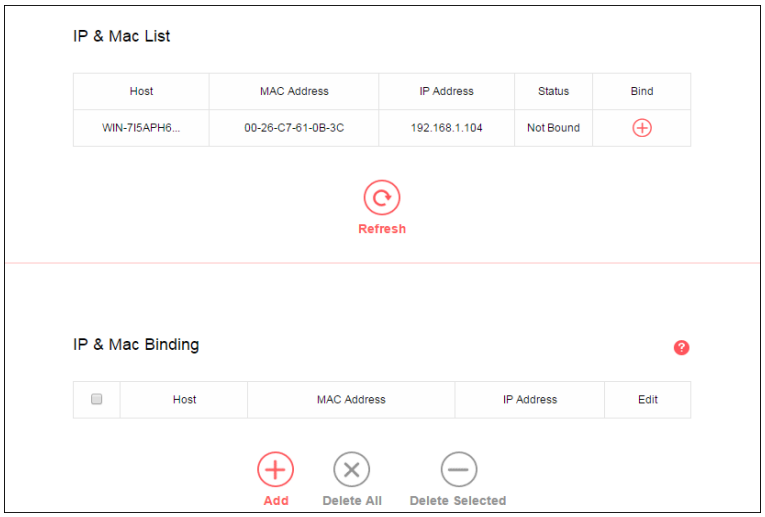
To use the DHCP server function of the router, you must configure all computers on the LAN as Obtain an IP Address automatically.

- **Host -** The name of the DHCP Equipment
- **MAC Address -** The MAC address of the DHCP client
- **IP Address -** The IP address that the router has allocated to the DHCP client
- **Effective 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.

Click **Refresh** to show the current attached devices.

5.1.7 IP & MAC Binding

Go to **Network→IP & MAC Binding**, you can control access of a specific computer in the LAN by binding the IP address and the MAC address of the device together.



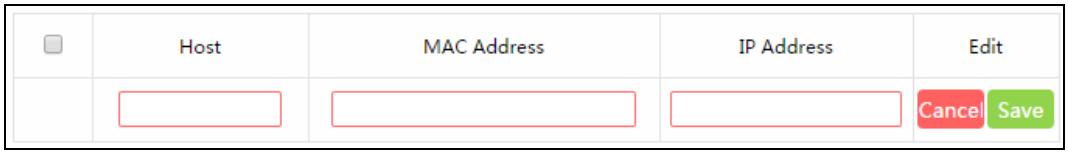
- **Host -** The name of the computer in the LAN.
- **MAC Address -** The MAC address of the computer in the LAN.
- **IP Address -** The assigned IP address of the computer in the LAN.
- **Status -** Displays whether the MAC and IP address are bound or not.

- **Bind -** Click ⊕ to add an entry to the IP & Mac binding list.

Click **Refresh** to refresh all items.

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

1. Click **Add**.



2. Enter the **Host** name.
3. Enter the **MAC Address** of the device.
4. Enter the **IP Address** that you want to bind to the MAC address.
5. Click **Save**.

To edit an existing entry, follow the steps below.

1. Find the entry in the table.
2. Click ✎ in the **Edit** column.
3. Enter the parameters as you desire, then click **Save**.

To delete existing entries, select the entries in the table, then click **Delete Selected**.

To delete all entries, click **Delete All**.

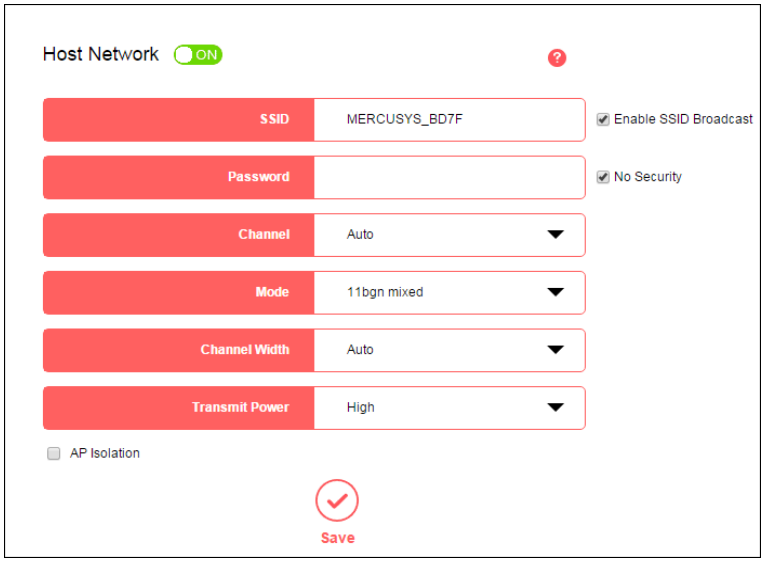
5.2 2.4GHz Wireless

There are three submenus under the **2.4GHz Wireless** menu: **Host Network**, **Guest Network** and **WDS Bridging**. Click any of them, and you will be able to configure the corresponding function.

5.2.1 Host Network

Go to **2.4GHz Wireless→Host Network**, you can configure the settings for the 2.4GHz wireless

host network on this page.



- **SSID** - Enter a value of up to 32 characters. The default SSID is MERCUSYS_XXXX (XXXX indicates the last unique four numbers of each router's MAC address). This field is case-sensitive.
- **Password -** Enter 8-63 characters using a combination of numbers, letters and symbols. The security version is WPA2-PSK/WPA-PSK, which supports AES encryption that provides a good level of security. If you select No Security, the field will be left blank.
- **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.

NOTE:

If **11bg mixed**, **11g only** or **11b only** 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.

- **Mode -** Select the desired mode.

  Select the desired wireless mode. It is strongly recommended to select **11bng mixed**, and all of 802.11b, 802.11g and 802.11n wireless stations can connect to the router.

  11bgn mixed - Select if you are using a mix of 802.11b, 11g, and 11n wireless clients.

  11bg mixed - Select if you are using both 802.11b and 802.11g wireless clients.

  11n only - Select if you are using only 11n wireless clients.

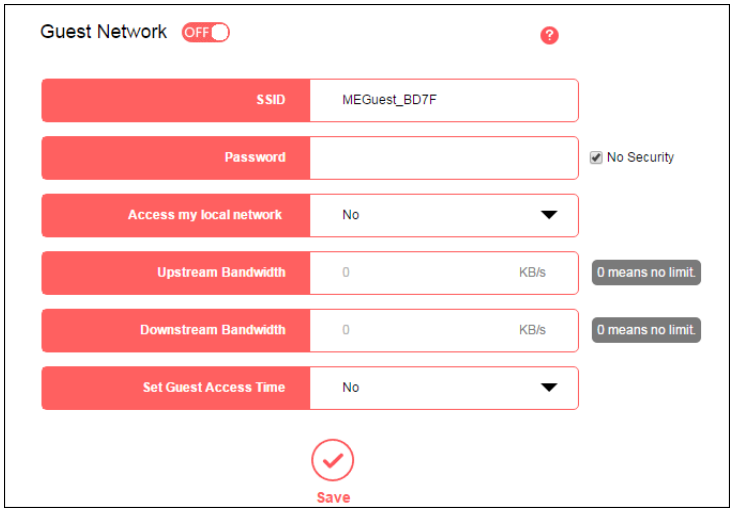
  11g only - Select if you are using only 11g wireless clients.

  11b only - Select if you are using only 11b wireless clients.

- **Channel width -** Select the channel width from the drop-down list. The default setting is **Auto**, which can adjust the channel width for your clients automatically.
- **Transmit Power -** Select either High, Middle, or Low to specify the data transmit power. The default and recommended setting is High.
- **Enable SSID Broadcast -** If you select the Enable SSID Broadcast checkbox, the wireless router will broadcast its name (SSID) on the air.
- **AP Isolation -** Select this checkbox to enable the AP Isolation feature that allows you to confine and restrict all wireless devices on your network from interacting with each other, but still able to access the Internet. AP isolation is disabled by default.

5.2.2 Guest Network

Go to **2.4GHz Wireless→Guest Network**, you can configure the settings for the wireless guest network on this page.



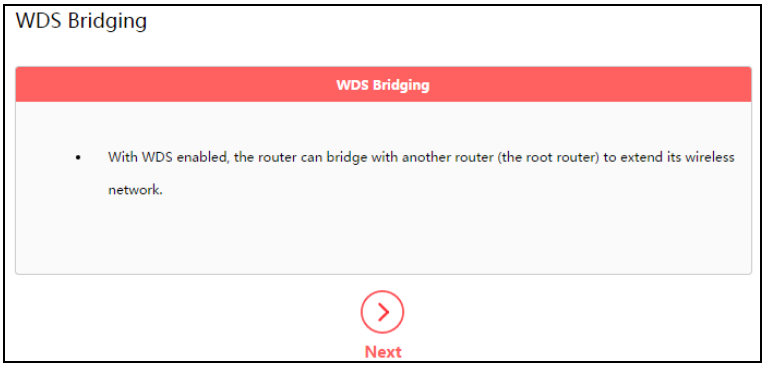
- **Guest Network** - Click to enable or disable the Guest Network function here.
- **SSID/Password** - Set the network name and password for Guest Network. Password may contain 8-63 characters. It is recommended you use a combination of numbers, letters and symbols.
- **Access my local network** - If Yes is selected, the wireless devices on the guest network are able to access your local network. The default value is No.
- **Upstream Bandwidth** - The upload speed through the WAN port for Guest Network.
- **Downstream Bandwidth** - The download speed through the WAN port for Guest Network.
- **Set Guest Access Time** - During this time the wireless stations could access the AP.

5.2.3 WDS Bridging

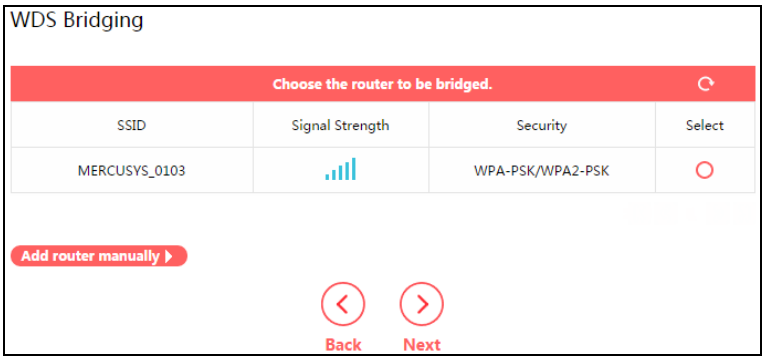
Go to **2.4GHz Wireless→WDS Bridging**, and follow the steps below to configure WDS bridging

settings.

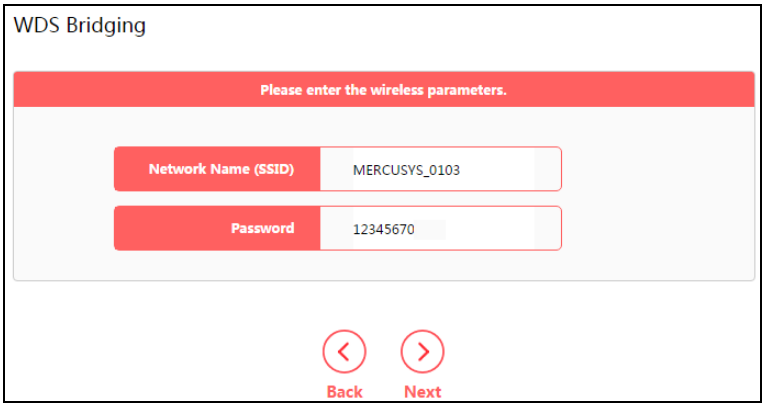
1. Click **Next** to start the setup.



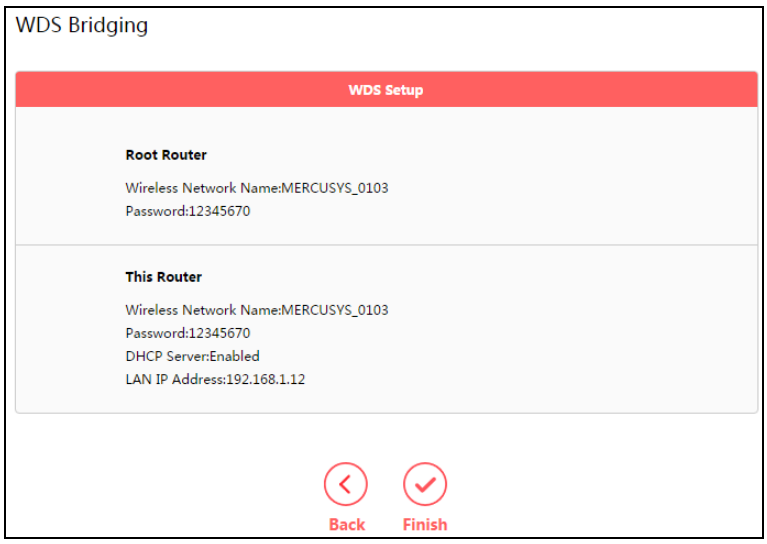
2. Select a network from the table and enter the password, or you can click **Add router manually** and enter the network name and password. Then click **Next**.



3. Enter the wireless parameters of your router. It is recommended to set the same SSID and Password as the root router. Then click **Next**.



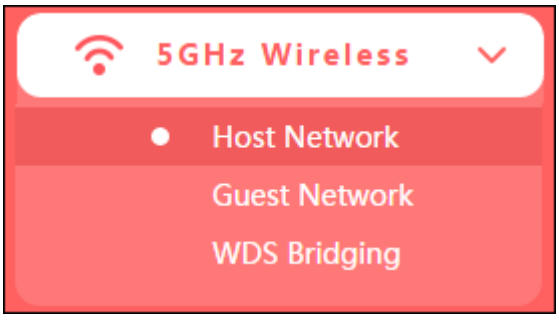
4. Check the parameters and click **Finish** to complete the setup.



5. The following information indicates successful connection.

Note: If you have changed the LAN IP address of your router during the setup, you need to log in to the web management page using the domain name (mwlogin.net) or the new LAN IP you have just set.

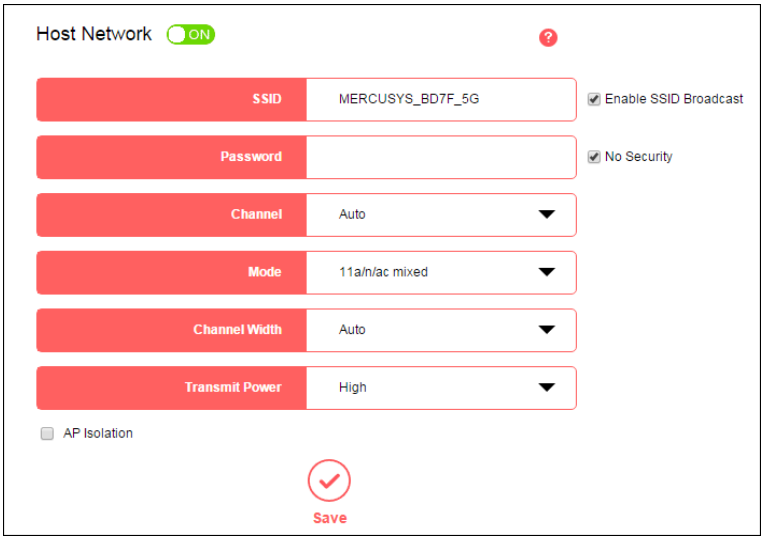
5.3 5GHz Wireless



There are three submenus under the **5GHz Wireless** menu: **Host Network**, **Guest Network** and **WDS Bridging**. Click any of them, and you will be able to configure the corresponding function.

5.3.1 Host Network

Go to **5GHz Wireless→Host Network**, you can configure the settings for the 5GHz wireless host network on this page.



- **SSID** - Enter a value of up to 32 characters. The default SSID is MERCUSYS_XXXX_5G (XXXX indicates the last unique four numbers of each router's MAC address).
- **Password -** Enter 8-63 characters using a combination of numbers, letters and symbols. The security version is WPA2-PSK/WPA-PSK, which supports AES encryption that provides a good level of security. If you select No Security, the field will be left blank.
- **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.
- **Mode -** Select the desired mode.

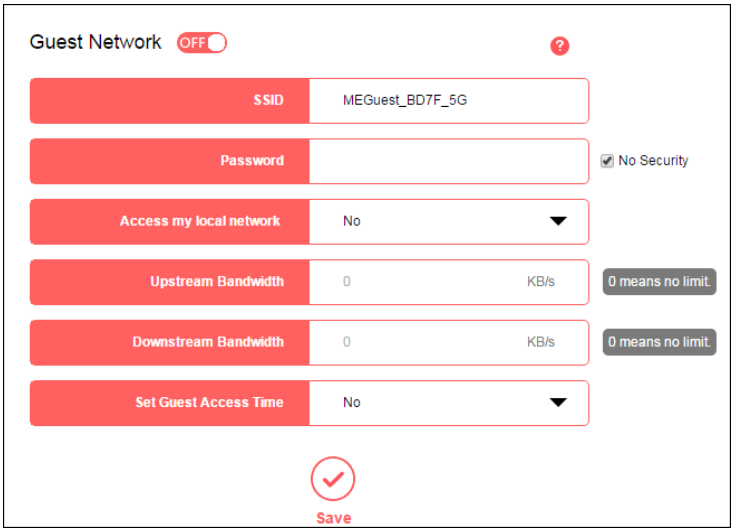
  Select the desired wireless mode. It is recommended to select **11a/n/ac mixed**, and all of 802.11a, 802.11n and 802.11ac wireless clients can connect to the router.

  11 a/n/ac mixed - Select if you are using a mix of 802.11a, 802.11n and 802.11ac wireless clients.

  11 a/n mixed - Select if you are using both 802.11a and 802.11n wireless clients.
- **Channel width -** Select the channel width from the drop-down list. The default setting is **Auto**, which can adjust the channel width for your clients automatically.
- **Transmit Power -** Select either High, Middle, or Low to specify the data transmit power. The default and recommended setting is High.
- **Enable SSID Broadcast -** If you select the Enable SSID Broadcast checkbox, the wireless router will broadcast its name (SSID) on the air.
- **AP Isolation -** Select this checkbox to enable the AP Isolation feature that allows you to confine and restrict all wireless devices on your network from interacting with each other, but still able to access the Internet. AP isolation is disabled by default.

5.3.2 Guest Network

Go to **5GHz Wireless→Guest Network**, you can configure the settings for the wireless guest network on this page.



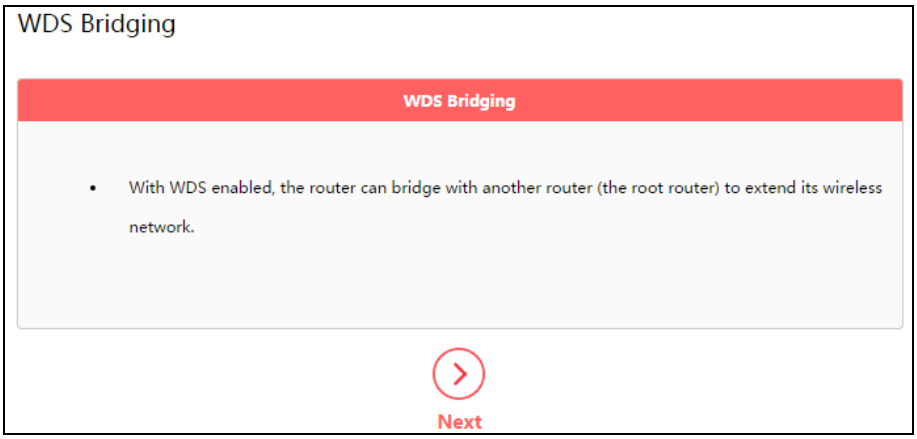
- **Guest Network** - Click to enable or disable the Guest Network function here.
- **SSID/Password** - Set the network name and password for Guest Network. Password may contain 8-63 characters. It is recommended you use a combination of numbers, letters and symbols.
- **Access my local network** - If Yes is selected, the wireless devices on the guest network are able to access your local network. The default value is No.
- **Upstream Bandwidth** - The upload speed through the WAN port for Guest Network.
- **Downstream Bandwidth** - The download speed through the WAN port for Guest Network.
- **Set Guest Access Time** - During this time the wireless stations could access the AP.

Click **Save** to make the settings effective.

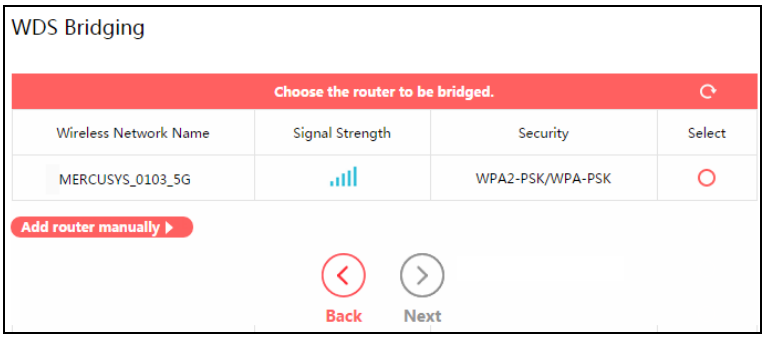
5.3.3 WDS Bridging

Go to **5GHz Wireless→WDS Bridging**, and follow the steps below to configure WDS bridging settings.

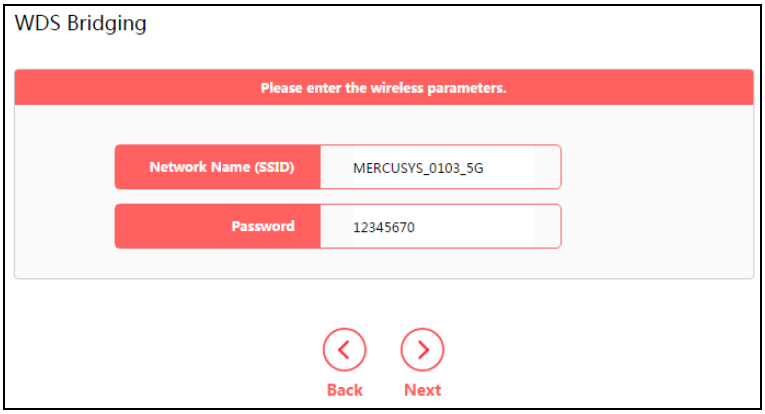
1. Click **Next** to start the setup.



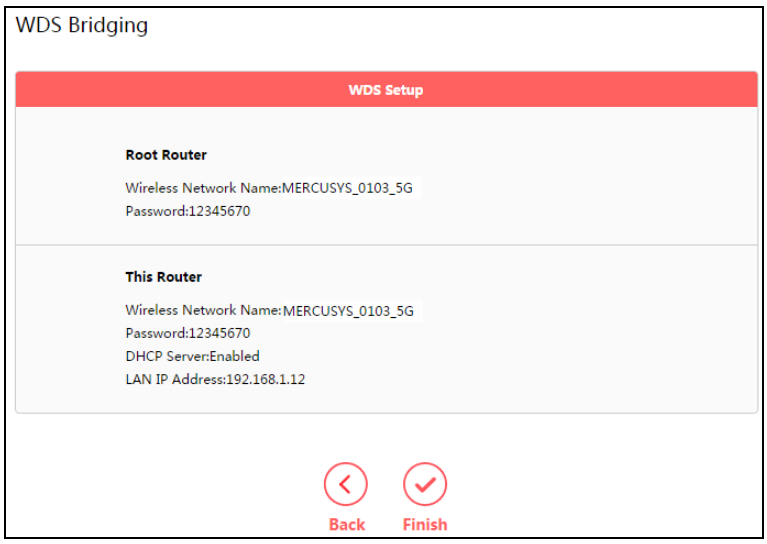
2. Select a network from the table and enter the password, or you can click **Add router manually** and enter the network name and password. Then click **Next**.



3. Enter the wireless parameters of your router. It is recommended to set the same SSID and Password as the root router. Then click **Next**.



4. Check the parameters and click **Finish** to complete the setup.



5. The following information indicates successful connection.

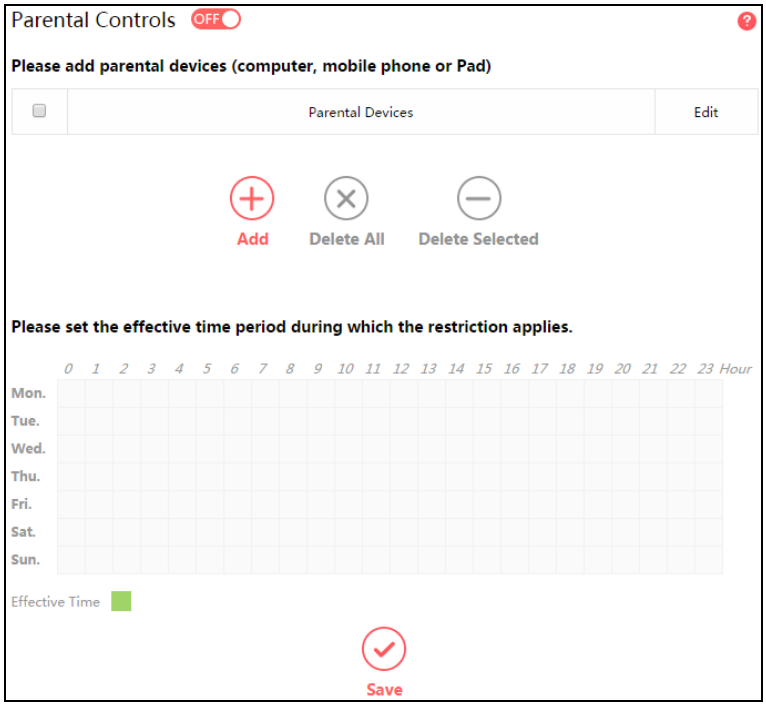
Note: If you have changed the LAN IP address of your router during the setup, you need to log in to the web management page using the domain name (mwlogin.net) or the new LAN IP you have just set.

5.4 Network Control

There are two submenus under the Network Control menu: **Parental Controls** and **Access Control**. Click any of them, and you will be able to configure the corresponding function.

5.4.1 Parental Controls

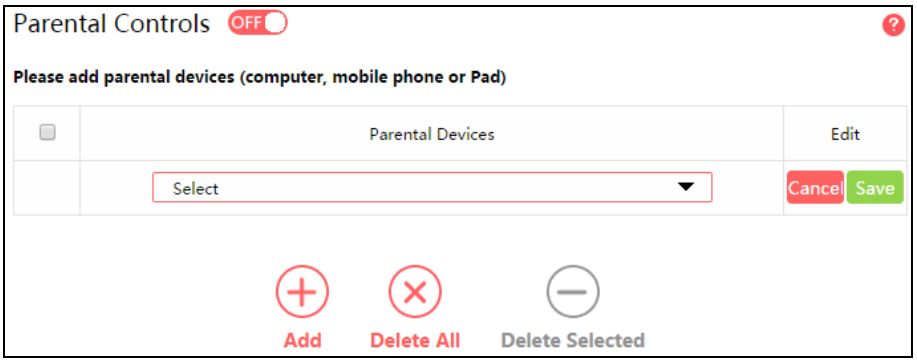
Go to **Network Control→Parental Controls**, and then you can configure the parental controls in the screen. The Parental Controls function can be used to control the internet activities of the child, limit the child to access certain websites and restrict the time of surfing.



- **Parental Controls** – Click to enable or disable this function.
- **Parental Devices** – Displays the MAC address of the controlling PC.
- **Edit -** Here you can edit an existing entry.
- **Add -** Click to add a new device.
- **Delete All -** Click to delete all devices in the table.
- **Delete Selected -** Click to delete selected devices in the table.
- **Effective Time -** All devices except the parental devices will be restricted. Click and drag across the cells to set the restriction time periods.

To add a new entry, follow the steps below.

1. Click **Add**.



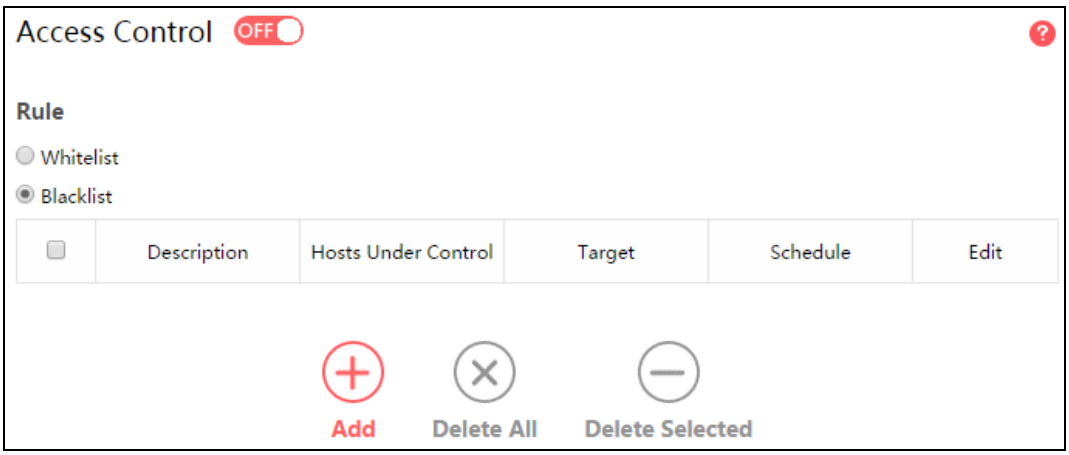
2. Select a device from the drop-down list.
3. Click **Save**.

To set the effective time, follow the steps below.

1. Click and drag across the cells to set the restriction time periods.
2. Click **Save**.

5.4.2 Access Control

Go to **Network Control→Access Control**, and then you can configure the access control in the screen.



- **Access Control -** Click the button to enable or disable Access Control.
- **White List -** Select to **allow** only the Internet activities specified in the table.
- **Black List -** Select to **block** only the Internet activities specified in the table
- **Description -** Displays the name of the rule and this name is unique.
- **Hosts Under Control -** Displays the host selected in the corresponding rule.
- **Target -** Displays the target selected in the corresponding rule.
- **Schedule -** Displays the schedule selected in the corresponding rule.
- **Edit -** Here you can edit an existing rule.
- **Add -** Click to add a new rule entry.
- **Delete All -** Click to delete all the entries in the table.
- **Delete Selected -** Click to delete selected entries in the table.

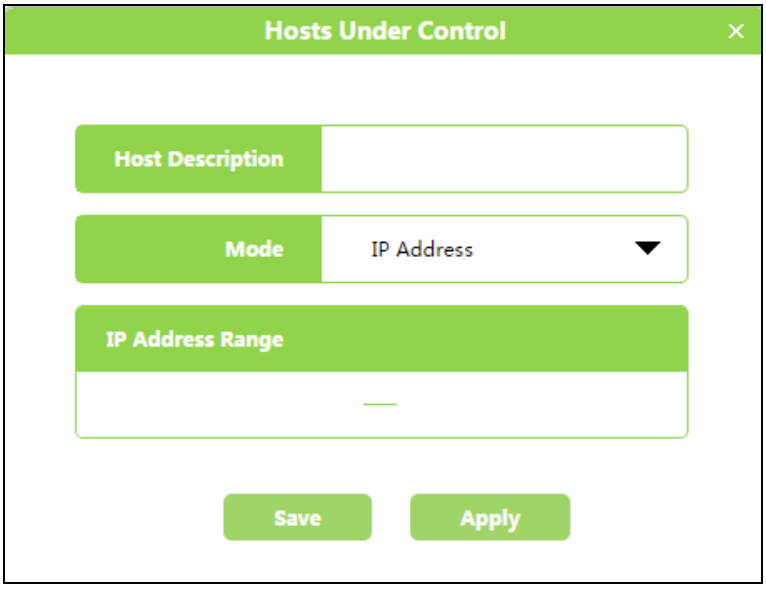
To add a new rule, follow the steps below.

1. Toggle on to enable Access Control.

2. Select Whitelist or Blacklist.

3. Click **Add** and enter a brief description for the rule.

4. Click **Configure** in the **Hosts Under Control** column to add a host, then click **Apply**.



- **Host Description -** In this field, create a unique description for the host.
- **Mode** - Here are two options, **IP Address** and **MAC Address**. You can select either of them from the drop-down list.

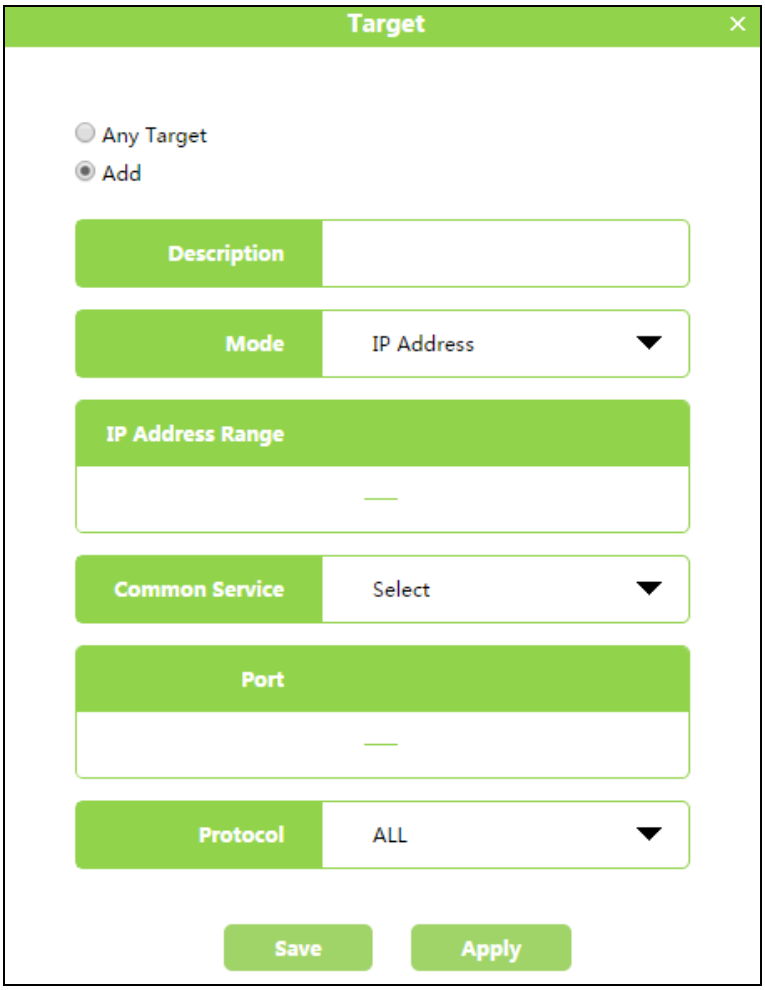
If the **IP Address** is selected, you can see the following item:

- **IP Address Range** - Enter the IP address or address range of the host in dotted-decimal format (e.g. 192.168.0.23).

If the MAC Address is selected, you can see the following item:

- **MAC Address** - Enter the MAC address of the host in XX-XX-XX-XX-XX-XX format (e.g. 00-11-22-33-44-AA).

5. Click **Configure** in the **Target** column, you can select **Any Target**, or select **Add** to add a new target. Then click **Apply**.



- **Description** - In this field, create a description for the target. Note that this description should be unique.
- **Mode** - Here are two options, IP Address and Website Domain. You can choose either of them from the drop-down list.

If the **IP Address** is selected, you will see the following items:

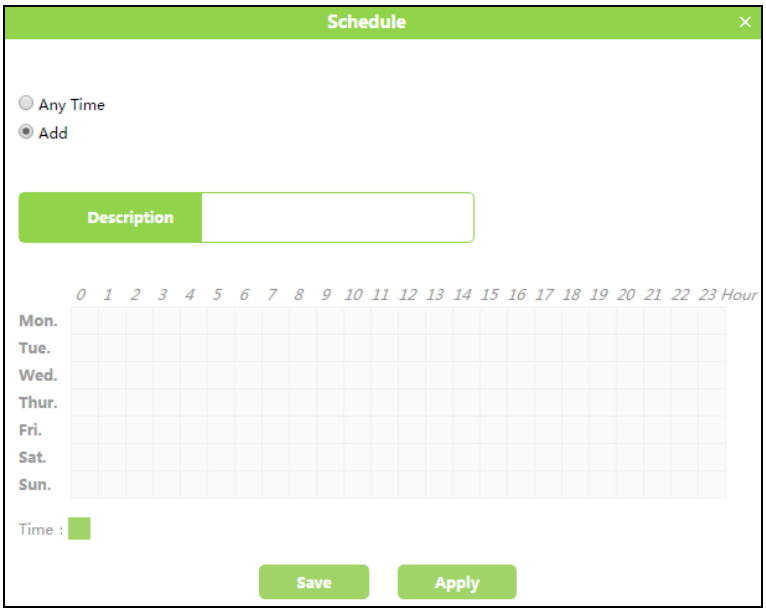
- **IP Address Range** - Enter the IP address (or address range) of the target (targets) in dotted-decimal format.
- **Common Service** - Here lists some common service ports. Select one from the drop-down list, and the corresponding port number will be filled in the Port field automatically. For example, if you select **HTTP**, **80** will be filled in the Port field automatically.
- **Port** - Specify the port or port range for the target. For some common service ports, you can make use of the Common Service item above.

- **Protocol** - Here are three options, All, TCP and UDP. Select one of them from the drop-down list for the target.

If the **Website Domain** is selected, you will see the following items:

- **Domain Name** - Here you can enter 4 domain names, either the full name or the keywords (for example, Mercusys). Any domain name with keywords in it (www.mercusys.com) will be blocked or allowed.

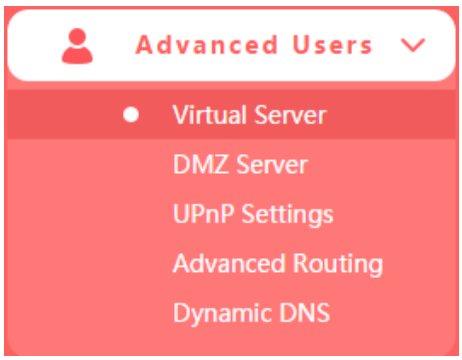
6. Click **Configure** in the **Schedule** column, you can select **Any Time**, or select **Add** to add a new schedule. Then click **Apply**.



- **Description** - In this field, create a description for the schedule. Note that this description should be unique.
- **Time -** Click and drag across the cells to set the effective time periods.

7. Click **Save** to complete the settings.

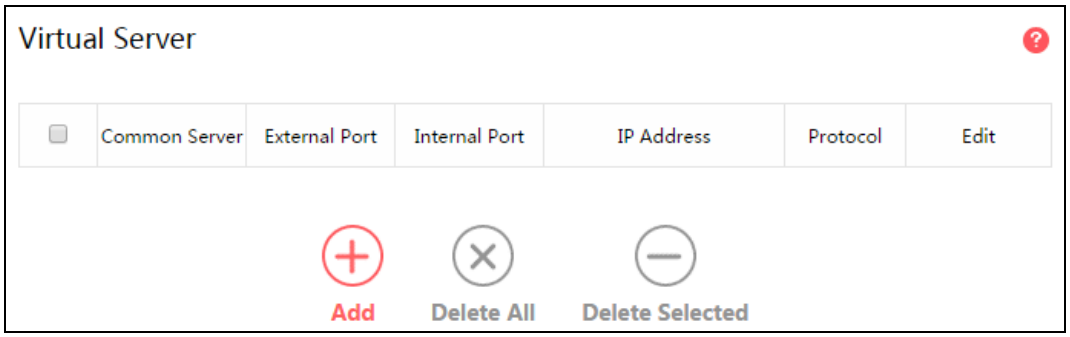
5.5 Advanced Users



There are five submenus under the **Advanced Users** menu: **Virtual Server**, **DMZ Server, UPnP Settings, Advanced Routing** and **Dynamic DNS**. Click any of them, and you will be able to configure the corresponding function.

5.5.1 Virtual Server

Go to **Advanced Users→Virtual Server**, and then you can view and add virtual server on the page. Virtual server can be used for setting up public services on your LAN.



- **Common Server** - Some common services already exist in the drop-down list.
- **External 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).
- **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 **External Port**, or enter a specific port number when **External Port** is a single one.
- **IP Address** - The IP address of the PC running the service application.
- **Protocol** - The protocol used for this application, either **All** (all protocols supported by the router), **TCP** or **UDP**.
- **Edit** - Here you can edit an existing entry.

- **Add -** Click to add a new rule entry.
- **Delete All -** Click to delete all the entries in the table.
- **Delete Selected -** Click to delete selected entries in the table.

To set up a virtual server entry:

1. Click **Add**.

2. Select a service from drop-down list to automatically populate the appropriate port number in the **External Port** field. If the service that you want to use is not listed, enter the number of the service port or service port range in the **External Port** field.
3. Leave the **Internal Port** blank if it is the same as the External Port, or enter a specific port number if the External Port is a single port.
4. Enter the IP address of the computer running the service application in the **IP Address** field.
5. Select the protocol used for this application in the **Protocol** drop-down list, either **TCP**, **UDP**, or **All** (All protocols supported by the router).
6. Click **Save**.

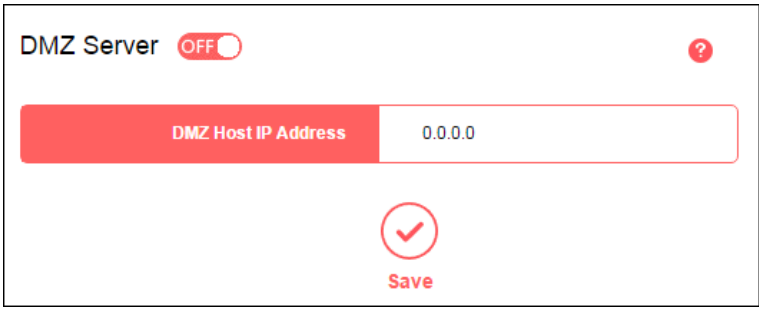
NOTE:
Please make sure the external port is different from the port used for local and remote management, or the virtual server may not be working properly.

To modify an existing entry:

1. Find the desired entry in the table.
2. Click in the **Edit** column.
3. Click **Save** to make the settings effective.

5.5.2 DMZ Server

Go to **Advanced Users→DMZ Server**, and then you can view and configure DMZ host on the page. The DMZ host feature allows one local host to be exposed to the Internet for a special-purpose service such as Internet gaming or video conferencing.

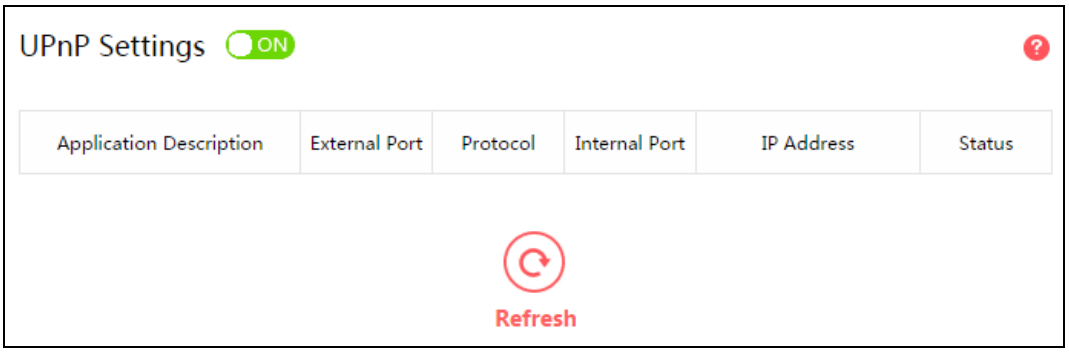


To assign a computer or server to be a DMZ server:

1. Enter the IP address of a local PC that is set to be DMZ host in the **DMZ Host IP Address** field.
2. Click **Save**.
3. Toggle **On** to enable DMZ Server.

5.5.3 UPnP Settings

Go to **Advanced Users→UPnP Settings**, and then you can view the information about **UPnP**. 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.

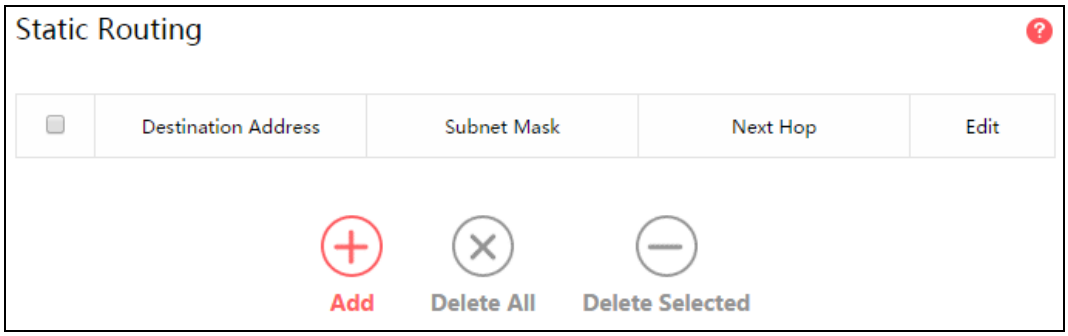


- **Application Description** - The description about the application which initiates the UPnP request.
- **External Port** - The port which the router opened for the application.
- **Protocol** - The type of protocol which is opened.
- **Internal Port** - The port which the router opened for local host.
- **IP Address** - The IP address of the local host which initiates the UPnP request.
- **Status** – Displays the port is active or not.
- **Refresh -** Click to update the current UPnP settings list.

5.5.4 Advanced Routing

Go to **Advanced Users→Advanced Routing**, and then you can configure the static routing and view system routing list. Advanced routing is used to predetermine a fixed route for the network information packets to reach a specific host or network.

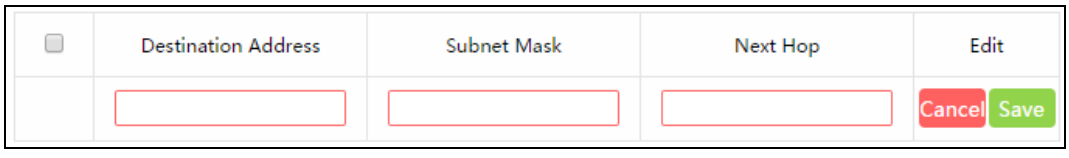
- **Static Routing**



- **Destination Address** - 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.
- **Next Hop** - The IP Address of the gateway device that allows for contact between the router and the network or host.
- **Edit** - Here you can edit an existing entry.
- **Add -** Click to add a new rule entry.
- **Delete All -** Click to delete all the entries in the table.
- **Delete Selected -** Click to delete selected entries in the table.

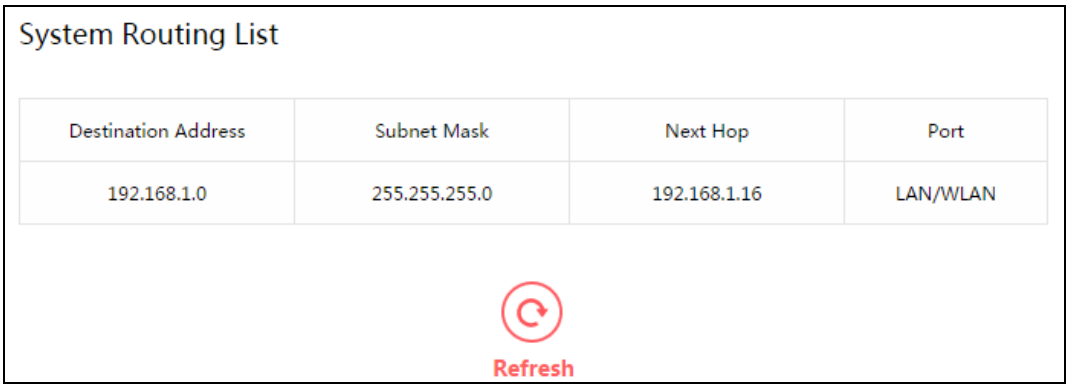
To add a static routing entry:

1. Click **Add**.



2. Enter the parameters in the corresponding fields.
3. Click **Save** to make the settings effective.

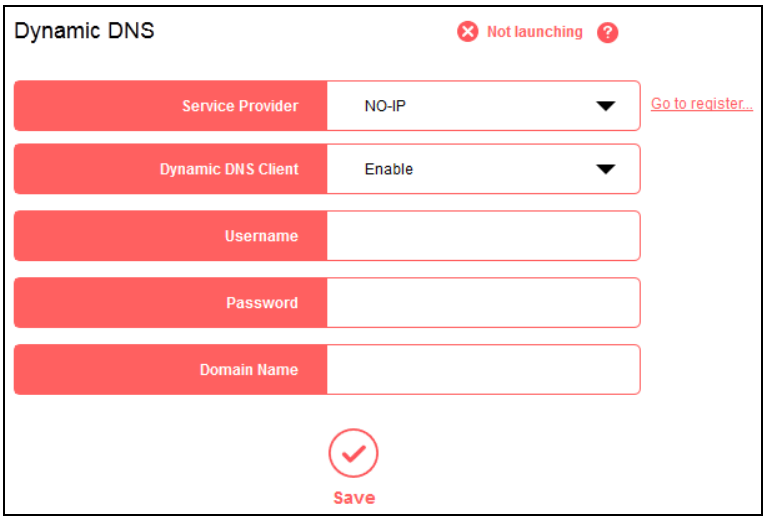
- **System Routing List**



- **Destination Address** - 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.
- **Next Hop** - The IP address of the gateway device that allows for contact between the router and the network or host.
- **Port** - Displays either the Destination IP Address is on the LAN/WLAN or on the WAN.

5.5.5 Dynamic DNS

Go to **Advanced Users→Dynamic DNS**, and you can configure the Dynamic DNS function.

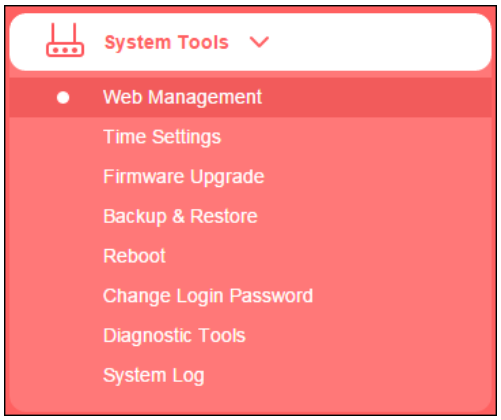


- **Service Provider -** The Dynamic DNS service provider.
- **Dynamic DNS Client –** Select to enable or disable dynamic DNS client.
- **Username/Password** - Enter the username and password of your DDNS account.
- **Domain Name** - Enter the domain name provided by the DDNS service provider.

To set up for Dynamic DNS, follow these steps:

1. Select your service provider from the drop-down list.
2. Enable the Dynamic DNS client.
3. Enter the username and password of your DDNS account. If you do not have an account, click **Go to register**... to register an account.
4. Enter domain name you registered with the Dynamic DNS service provider.
5. Click **Save**.

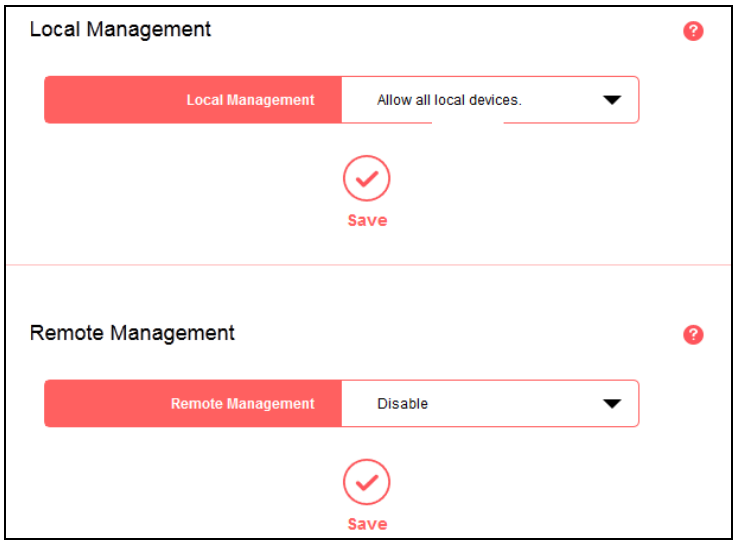
5.6 System Tools



There are eight submenus under the **System Tools** menu: **Web Management**, **Time Settings**, **Firmware Upgrade**, **Backup & Restore, Reboot, Change Login Password, Diagnostic Tools** and **System Log**. Click any of them to configure the corresponding function.

5.6.1 Web Management

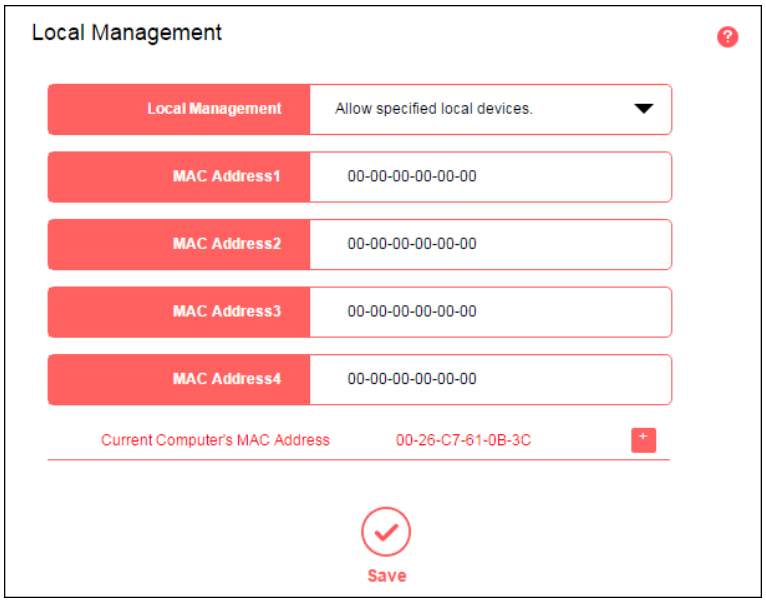
Go to **System Tools→Web Management**, and then you can configure the management rule on the page.



- **Local Management**

To allow specific devices to access and manage the router locally, follow these steps:

1. Select **Allow specified local devices**.

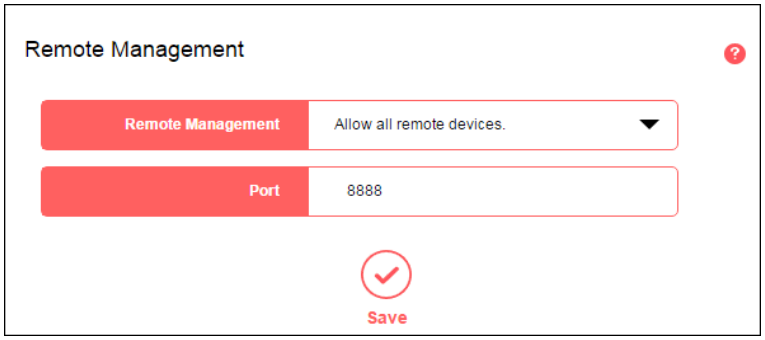


2. Enter each MAC address in a separate field. You can click + to add your current PC's MAC address to the list above.
3. Click **Save.**

- **Remote Management**

To allow all devices to access and manage the router remotely, follow the steps below:

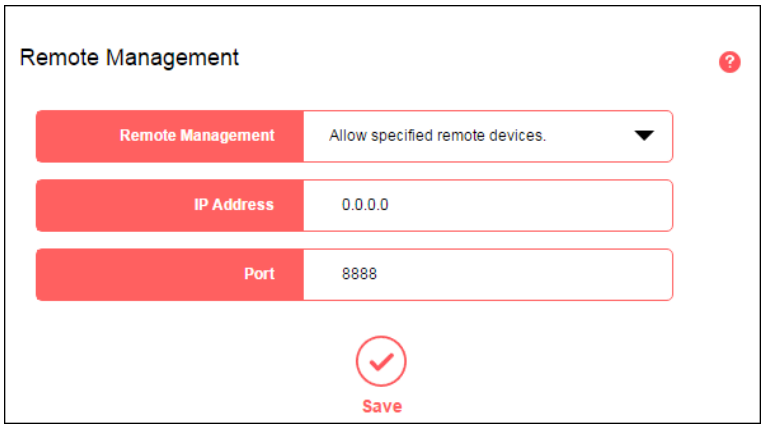
1. Select **Allow all remote devices.**



2. Enter the port number to be used to access the router between 1024 and 65535. The default value is 8888.
3. Click **Save**.

To allow specified devices to access and manage the router remotely, follow the steps below:

1. Select **Allow specified remote devices.**



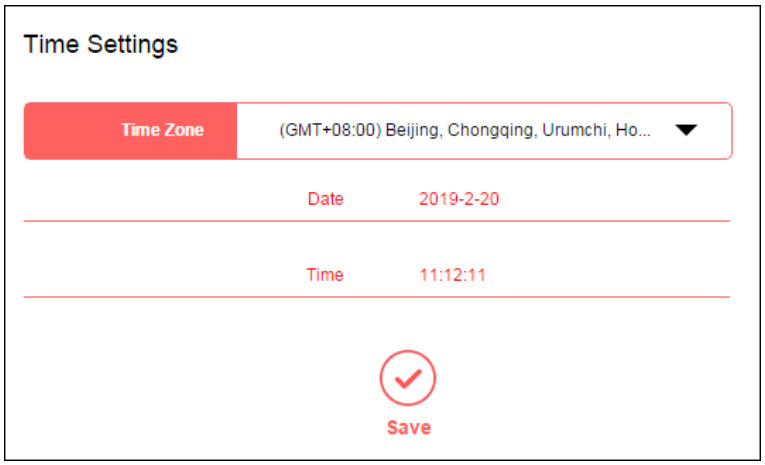
2. Enter the **IP Address** you will use when accessing your router from the Internet.
3. Enter the port number to be used to access the router between 1024 and 65535. The default value is 8888.
4. Click **Save**.

NOTE:

1. To access the router, you should type your router's WAN IP address into your browser's address field, followed by a colon and the custom port number (e.g. http://202.96.12.8:8080). After entering the correct password, you will be able to access the router's web management page.
2. Be sure to set a very secure password for the router.

5.6.2 Time Settings

Go to **System Tools→Time Settings**, and then you can configure the time on the following page.



- **Time Zone -** Select your local time zone from this drop-down list.
- **Date/Time -** The router automatically obtains GMT from the Internet based on the time zone you select.

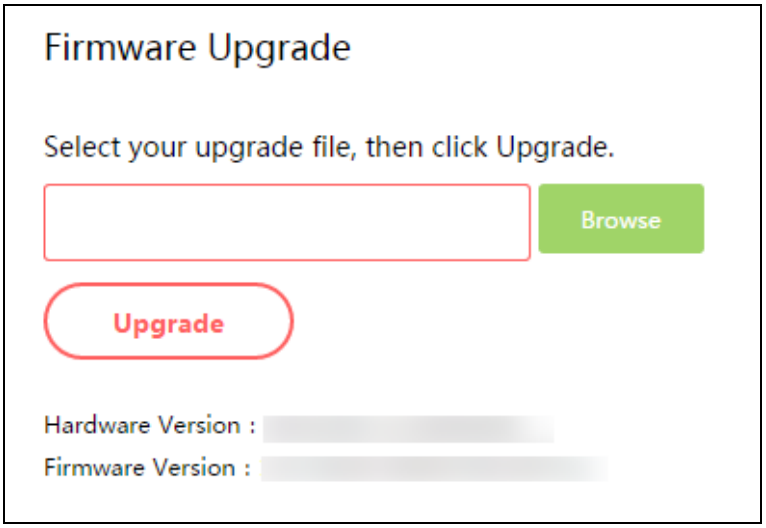
To change the time settings, follow these steps:

1. Select your local time zone from the drop-down list.
2. Click **Save**.

NOTE:
This setting will be used for some time-based functions such as Parental Controls and Access Control. Please specify your time zone before you configure these functions.

5.6.3 Firmware Upgrade

Go to **System Tools→Firmware Upgrade**, and then you can update the latest version of firmware for the router on the page.



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

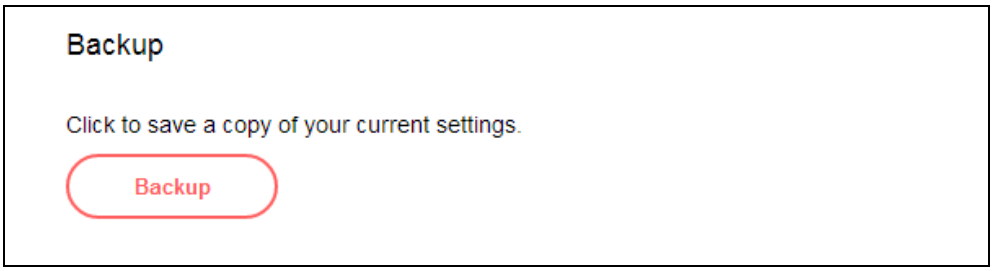
To upgrade the router's firmware, follow the steps below:

1. Download the latest firmware upgrade file from our website (www.mercusys.com).
2. Click **Browse** to locate and select the downloaded firmware file.
3. Click **Upgrade**.
4. The router will reboot automatically after the upgrade.

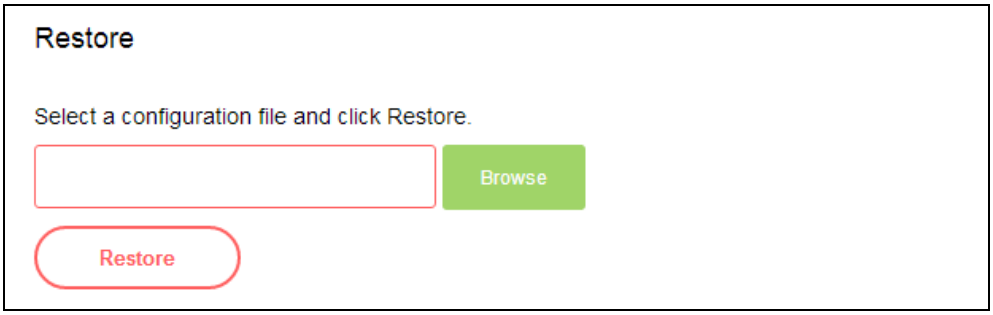
NOTE:
To avoid any damage, it is important to keep router powered on during the entire process.

5.6.4 Backup & Restore

Go to **System Tools→Backup & Restore**, and then you can save the current configuration of the router as a backup file and restore the configuration via a backup.



Click **Backup** to save all configuration settings as a backup file to your local computer.

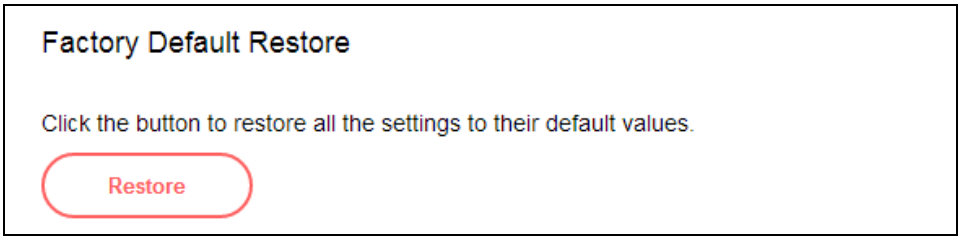


To upgrade the router's configuration, follow the steps below.

1. Click **Browse** to locate and select the configuration file which you want to restore.
2. Click **Restore** to update the configuration with the file you have selected.

NOTE:

1. All current configurations will be lost once the router is restored.
2. To avoid any damage, keep the device powered on during the process
3. After the upgrade process is complete (about 20 seconds), the device will reboot automatically.



To restore the configurations of the router to factory defaults, follow the steps below.

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

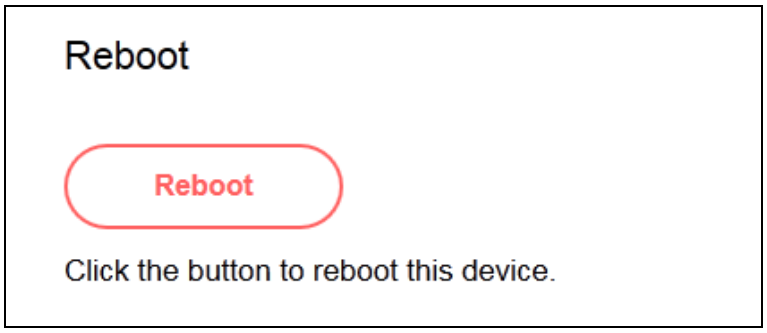
- The default **IP address**: 192.168.1.1
- The default **Subnet Mask**: 255.255.255.0

NOTE:

All your custom settings will be lost when defaults are restored.

5.6.5 Reboot

Go to **System Tools→Reboot**, and then you can click the **Reboot** button to reboot the router on the page.

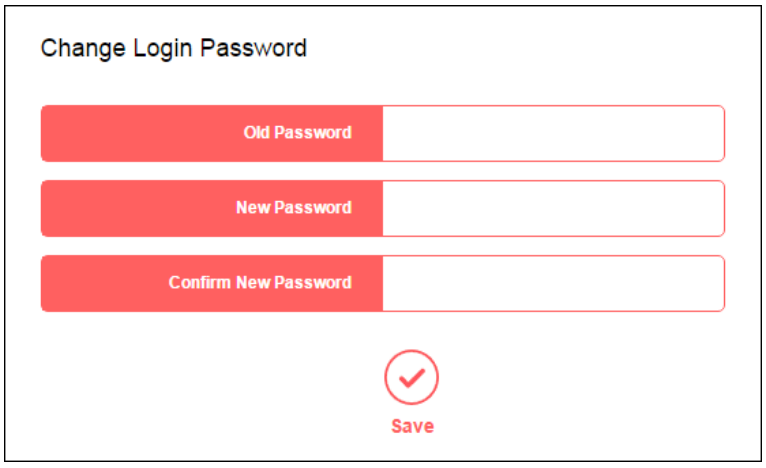


Some settings of the router will take effect only after rebooting, which include:

- 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).

5.6.6 Change Login Password

Go to **System Tools→ Change Login Password**, and then you can change the login username and password of the router on the page.



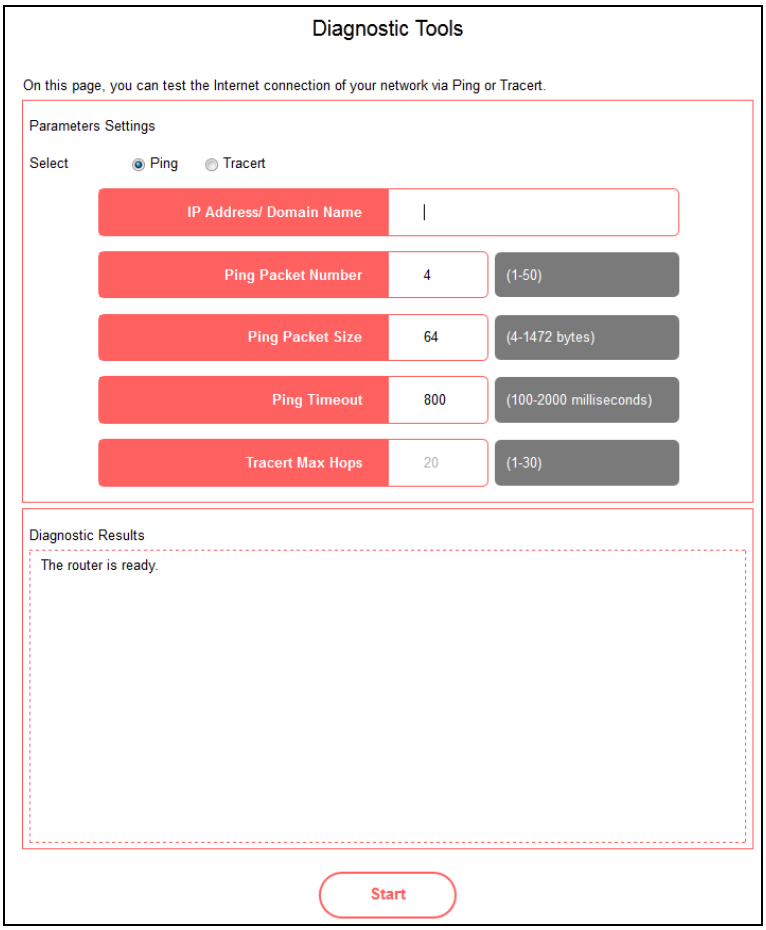
To change the router's login password, follow the steps below.

1. Enter the **Old Password** of the router.
2. Enter the **New Password**.
3. Enter the new password in the **Confirm New Password** field.
4. Click **Save**.

For subsequent logins, use the new password you have set.

5.6.7 Diagnostic Tools

Go to **System Tools→Diagnostic Tools**, and then you can test the Internet connection of your network via Ping or Tracert on the page.



- **Ping** - This diagnostic tool troubleshoots connectivity, reachability, and name resolution to a given host or gateway.
- **Tracert** - This diagnostic tool tests the performance of a connection.

NOTE:

You can use ping/tracert to test numeric IP address or domain name. If pinging/tracerting 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 specified domain name 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.
- **Pings Packet Number** - 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.
- **Tracert Max Hops** - 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.

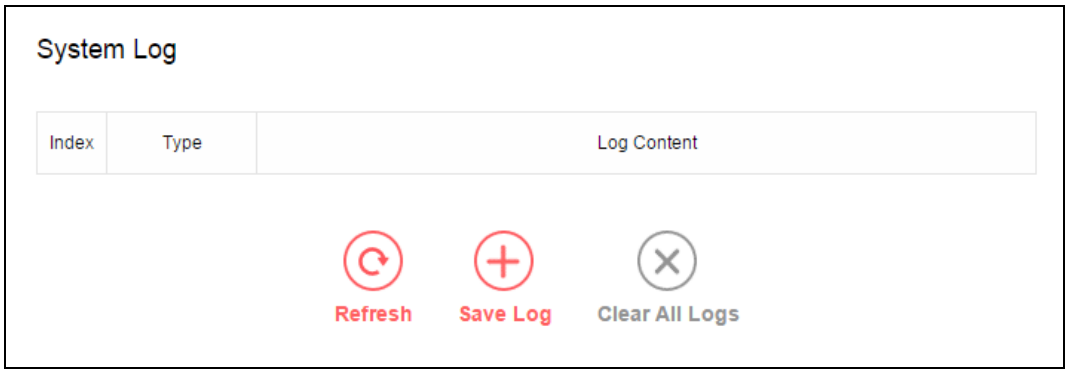
The **Diagnostic Results** page displays the result of diagnosis.

NOTE:

1. Only one user can use the diagnostic tools at one time.
2. Ping Packet Number, Ping Packet Size and Ping Timeout are Ping Parameters, and Tracert Max Hop is Tracert Parameter.

5.6.8 System Log

Go to **System Tools→System Log**, and then you can view the logs of the router.



- **Refresh -** Refresh the page to show the latest log list.
- **Save Log-** Click to save all the logs in a txt file.
- **Clear All Logs -** All the logs will be deleted from the router permanently, not just from the page.

Appendix A: Troubleshooting

T1. What can I do if I forget my password?

1) For wireless password: By default, the wireless network has no password. If you have set password for the network, log in to the router's web management page, go to **Basic→Wireless** to obtain or reset your password.

2) For the web management page password: Refer to T2 to restore the router to its factory default settings and then create a new password when prompted.

T2. How do I restore my router's configuration to its factory default settings?

There are two ways to reset the router.

Method one: With the router powered on, With the router powered on, press and hold the **RESET** button for at least 5 seconds until the LED starts blinking quickly, then release the button and wait the router to reboot to its factory default settings.

Method two: Visit http://mwlogin.net, go to **Advanced→System Tools→Backup & Restore →Factory Default Restore** to restore the router to its default settings.

NOTE:
Once the router is reset, the current configuration settings will be lost and you will need to re-configure the router.

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

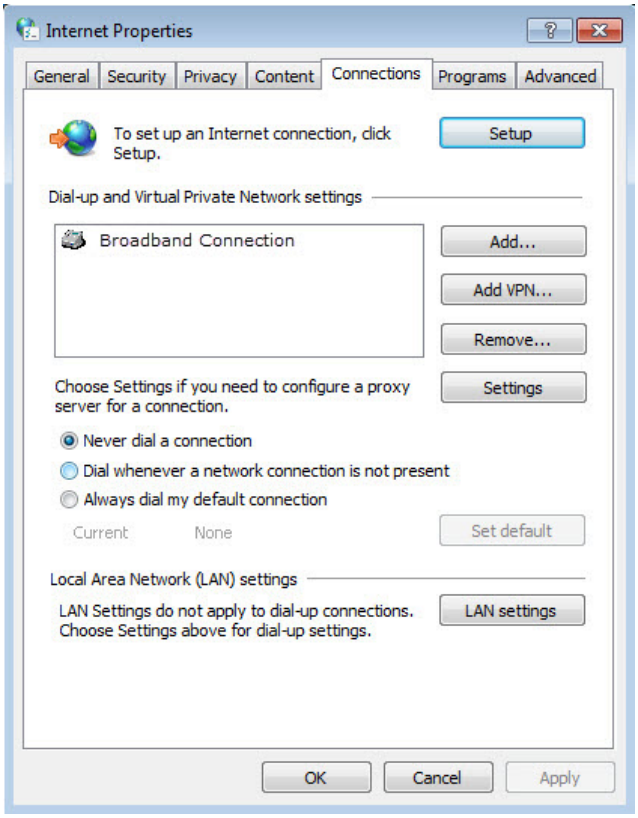
This can happen for a variety of reasons, please try the methods below.

- Make sure the router connects to the computer correctly and the corresponding LED indicator(s) light up.
- Make sure the IP address of your computer is configured as Obtain an IP address automatically and Obtain DNS server address automatically.
- Make sure http://mwlogin.net is correctly entered.
- Check your computer's settings:

  1) Go to **Start→Control Panel→Network and Internet**, and click **View network status and tasks**;

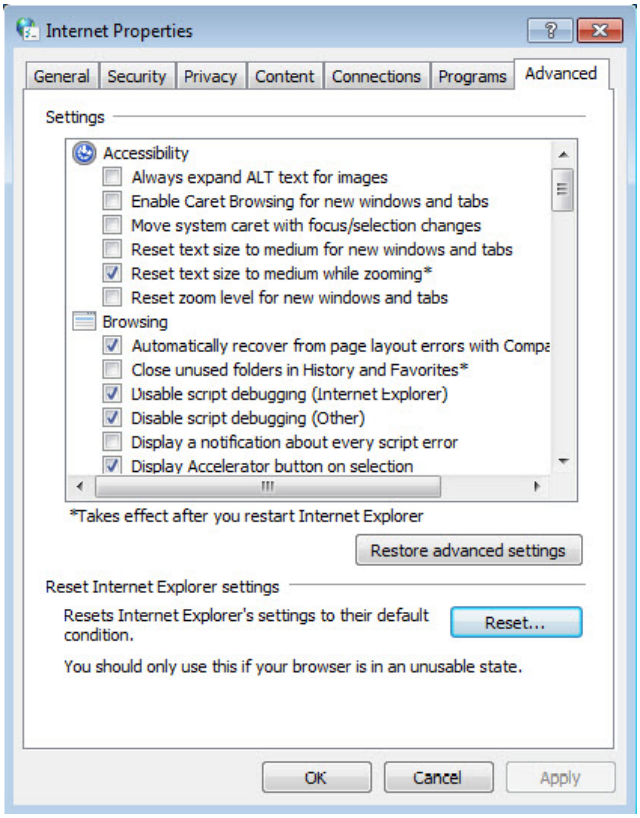
  2) Click **Internet Options** on the bottom left;

  3) Click **Connections**, and select **Never dial a connection**;



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

5) Go to **Advanced→Restore advanced settings**, and click **OK** to save the settings.



• Change a web browser or computer and log in again.

• Reset the router to factory default settings.

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

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

1) Make sure the router connects to the computer correctly and the corresponding LED indicator(s) light up.

2) Check to see if you can log in to the web management page of the router. If you can, try the following steps. If you cannot, please set your computer by referring to **T3** and then try to see if you can access the Internet. If the problem persists, please go to the next step.

3) Make sure you have selected the proper WAN Connection Type and entered the parameters correctly.

4) Go to **Advanced→Network→MAC Address Settings** to clone the MAC address.

5) If you still cannot access the Internet, please restore your router to its factory default settings and reconfigure your router by following the instructions in Chapter 3 Quick Installation Guide.

6) Please feel free to contact our Technical Support if the problem still exists.

Appendix B: Configuring the PC

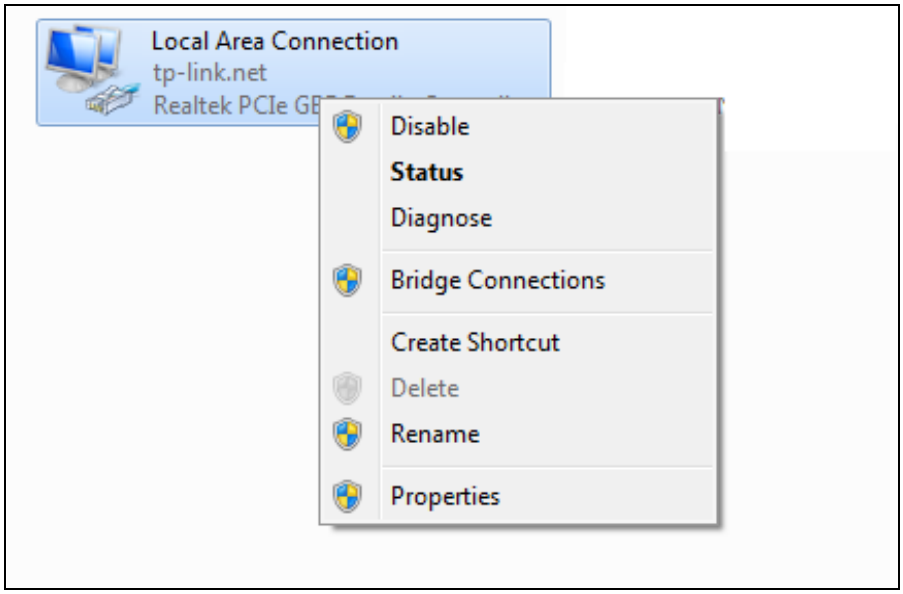
In this section, we'll introduce how to install and configure the TCP/IP correctly in Windows 7. First make sure your Ethernet Adapter is working, refer to the adapter's manual if needed.

1. Install TCP/IP component

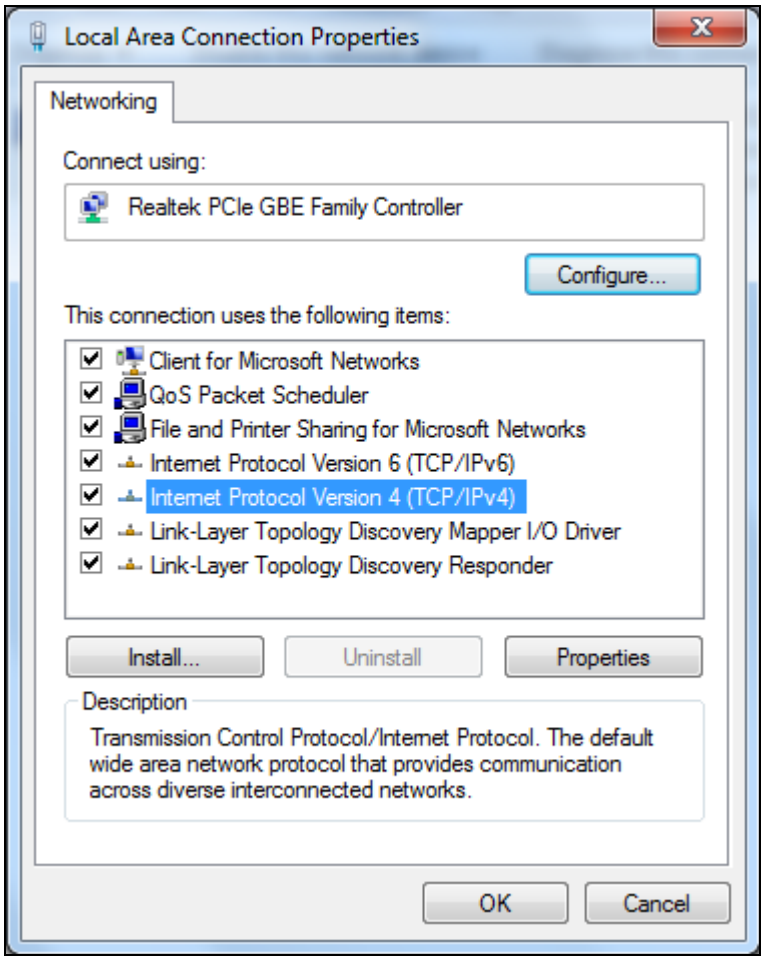
1) On the Windows taskbar, click **Start** button, and then click **Control Panel**.

2) Click the **Network and Internet**, and click the **Network and Sharing Center**, then click **Change adapter settings**.

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 Version 4 (TCP/IPv4)**.

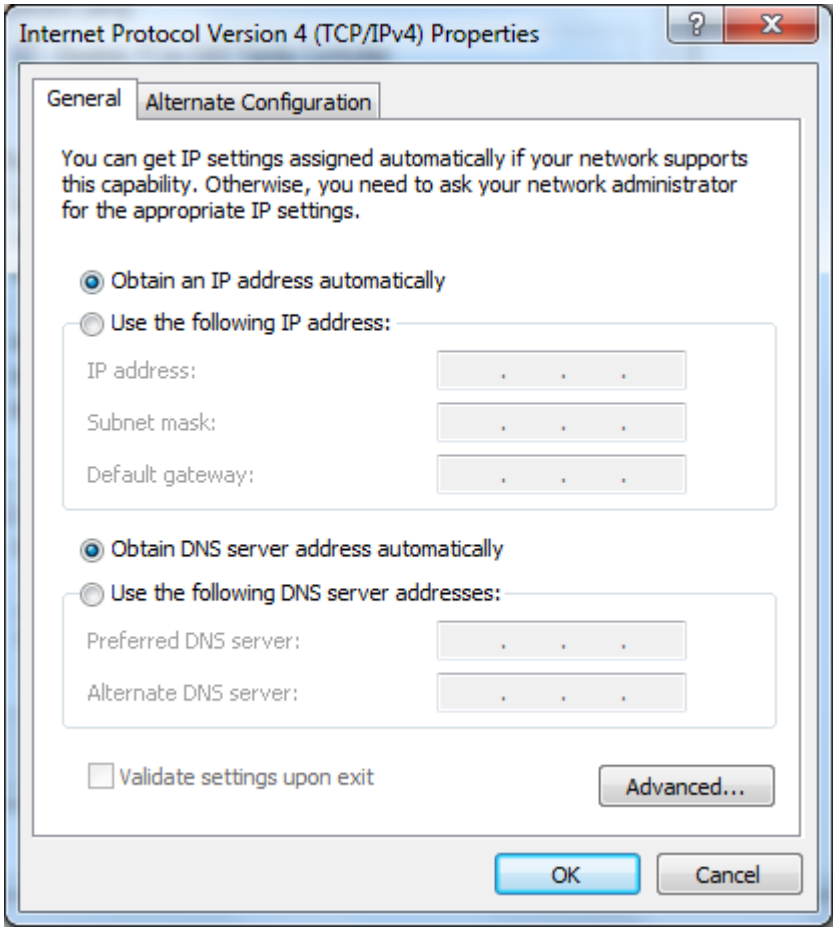


5) The following **TCP/IP Properties** window will display and the **IP Address** tab is open on this window by default.

Now you have two ways to configure the **TCP/IP** protocol below:

- **Setting IP address automatically**

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



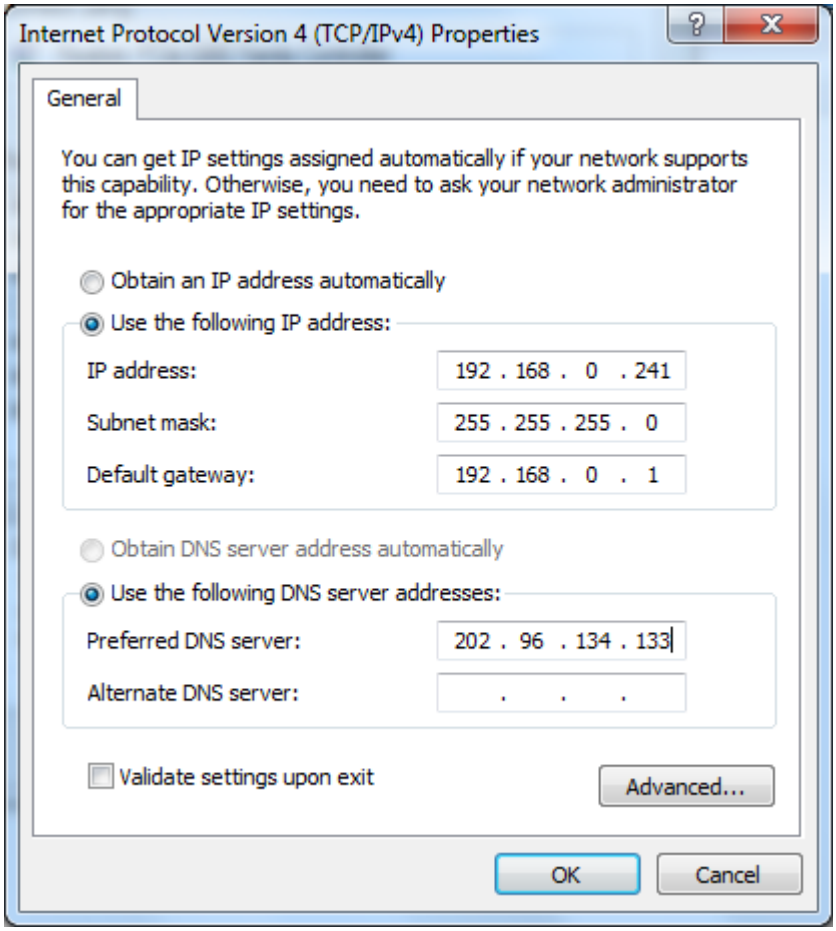
- **Setting IP address manually**

1 Select **Use the following IP address** radio button. And the following items available

2 If the router's LAN IP address is 192.168.1.1, specify the IP address as 192.168.1.x (x is from 2 to 254), and **Subnet mask** is 255.255.255.0.

3 Enter the router's LAN IP address (the default IP is 192.168.1.1) in the **Default gateway** field.

4 Select **Use the following DNS server addresses** radio button. In the **Preferred DNS Server** field you can type the DNS server IP address, which has been provided by your ISP


Internet Protocol Version 4 (TCP/IPv4) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address: 192 . 168 . 0 . 241
Subnet mask: 255 . 255 . 255 . 0
Default gateway: 192 . 168 . 0 . 1
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server: 202 . 96 . 134 . 133
Alternate DNS server: . . .
Validate settings upon exit
Advanced...
OK
Cancel