Table of Contents

1. ABOUT THIS GUIDE

Thank you very much for purchasing this Wireless N ADSL Modem Router. This guide will introduce the features of the Modem Router and tell you how to connect and setup the router. Please follow the instructions in this guide to avoid affecting the Modem Router's performance by improper operation.

1.1 Navigation of the User's Guide

Product Overview: Describes functions, features and appearance of the Modem Router.

Hardware Installation: Describes the hardware installation and configuration of your PC.

Connecting to Internet: Tells how you can setup the Modem Router quickly to access Internet.

Advanced Settings: Lists all technical functions including Interface Setup, Advanced Setup, Access Management and Maintenance.

2. PRODUCT OVERVIEW

2.1 Introduction

This device is a Wireless ADSL Modem Router which integrates functions of high speed ADSL Modem, wireless router and 4-port switch. It complies with the most advanced IEEE 802.11n standard and can deliver up to 300Mbps wireless data rate. It also supports the latest ADSL 2/2+ standards to provide higher performance for users and make the transmission coverage wider than other devices.

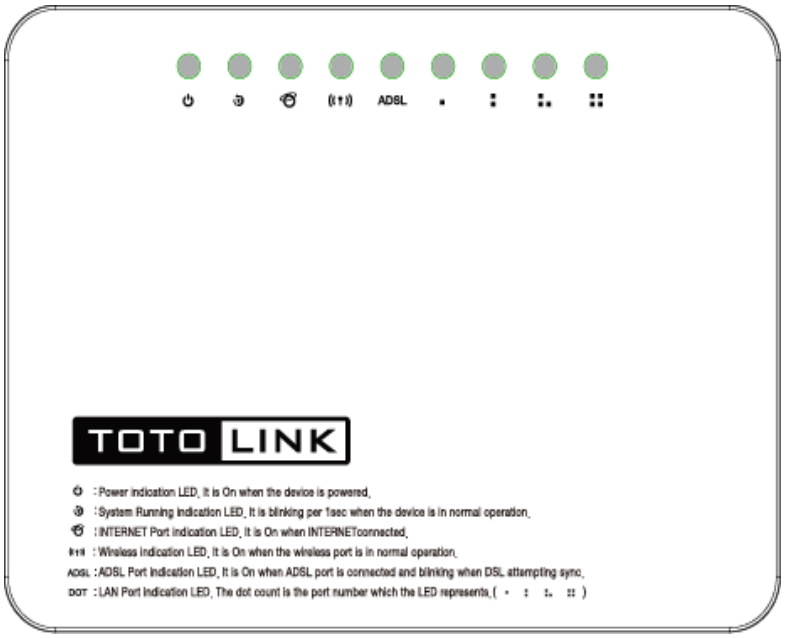
2.2 Features

- Complies with IEEE 802.11n/g/b standards for 2.4GHz Wireless LAN.
- Up to 300Mbps data rate for Wi-Fi network.
- Combines functions of high speed ADSL Modem, wireless router and 4-port switch.
- Supports both ADSL and LAN broadband access.
- Provides 64/128-bit WEP, WPA, WPA2 and WPA/WPA2 (TKIP+AES) security.
- Supports PVC detecting automatically.
- Supports IPv6 protocol.
- The IP, MAC and URL filtering makes access and time control more flexibly.
- Repeater and WDS function for easy WiFi expansion.
- QoS function allocates network bandwidth reasonably.
- WiFi on/off and Power on/off buttons make configuration simple.
- IGMP multicast and IGMP proxy are supported.
- Supports both ADSL and WAN broadband access.

2.3 Panel Layout

2.3.1 Front Panel

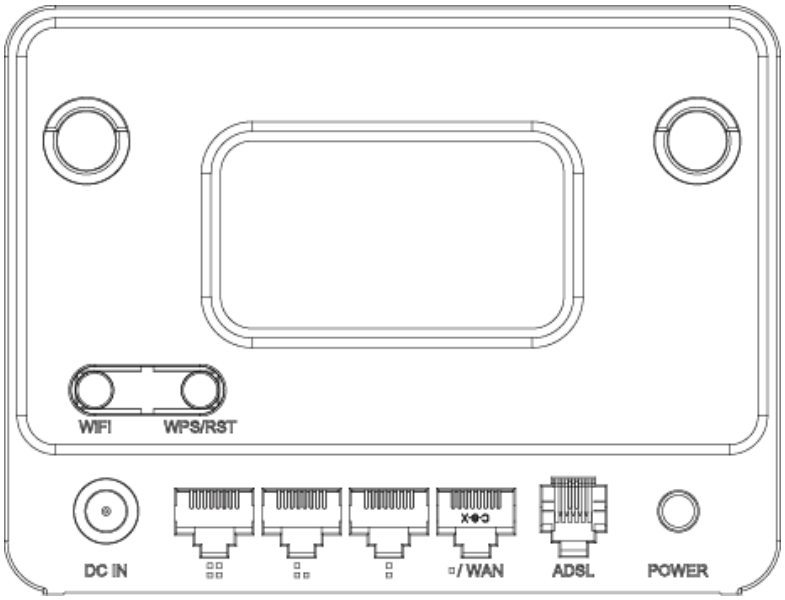
The front panel of Modem Router consists of 9 LEDs, which is designed to indicate connection status.



POWER	This indicator lights blue when the router powered on, otherwise it is off.
CPU	When the router powered on, this indicator keeps lighting.
ADSL	It is on when ADSL port is connected and blinking when there are data transmitting.
Internet	It is on when Internet is connected.
WLAN	This indicator lights when the wireless connection enabled.
1/2/3/4 LAN	When the LAN port has a successful connection, the indicator lights.
	While transmitting or receiving data through the LAN port the indicator blinks.

2.3.2 Rear Panel

The figure below shows the rear panel of Modem Router.



DC IN	This socket is used to connect the power adapter.
WiFi ON/OFF	This slide switch is used to turn on or turn off WiFi.
ADSL	This RJ11 ADSL port is used to connect to ADSL modem
Power ON/OFF	Turn on or turn off the router by the switch.
2/3/4 LAN	This port is used to connect the router to local PC.
1 LAN/WAN	This port is where you will connect the DSL/cable Modem, Ethernet or local PC.
WPS/RST	**WPS:** If you have client devices you can press this button to quickly establish secured connections between this router and client devices.
	RST: There is a RST button on the opposite side of the rear panel which is used to reset the router to factory default settings. Press the button for more than 5 seconds, the router will restore factory settings.

3. HARDWARE INSTALLATION

3.1 Hardware Installation

For the first time you use this ADSL Router, wired connection is recommended to setup the router. Please follow below steps to build correct connections through provided UTP cables.

Step1: Connect Modem Router's ADSL port to external Filter's (provided by your ISP) ADSL port.

Step 2: Connect your PC's network interface to any one LAN port of Modem Router.

Step 3: Plug the Power adapter into the router and then into an outlet.

Step 4: Power on the Router and turn on your PC.

3.2 Check the Installation

The control LEDs of the Modem Router are clearly visible and the status of the network link can be seen instantly:

1. With the power source on, once the device is connected to the external filter, the Power, CPU, ADSL and LAN ports LEDs of the Modem Router will light up indicating a normal status.

2. After a few seconds, the LAN LED indicators without connection go out and WLAN indicator will light up.

3.3 Set up PC

The default IP address of the Router is 192.168.0.1, the default Subnet Mask is 255.255.255.0. Both of these parameters can be changed as you want. In this guide, we will use the default values for description.

Connect the local PC to the LAN port on the Router. There are then two ways to configure the IP address for your PC.

- **Configure the IP address manually**

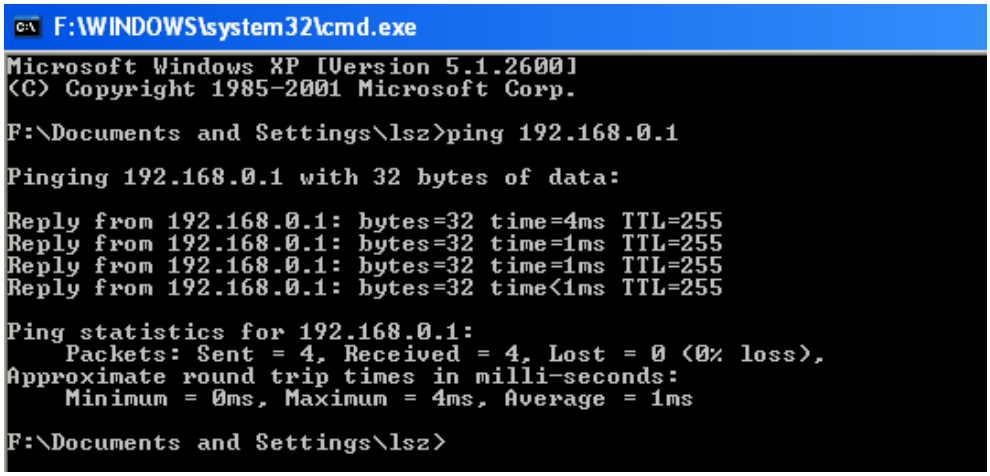
1. Set up the TCP/IP Protocol for your PC.
2. Configure the network parameters. The IP address is 192.168.0.xxx ("xxx" range from 2 to 254). The Subnet Mask is 255.255.255.0 and Gateway is 192.168.0.1 (Router's default IP address).

- **Obtain an IP address automatically**

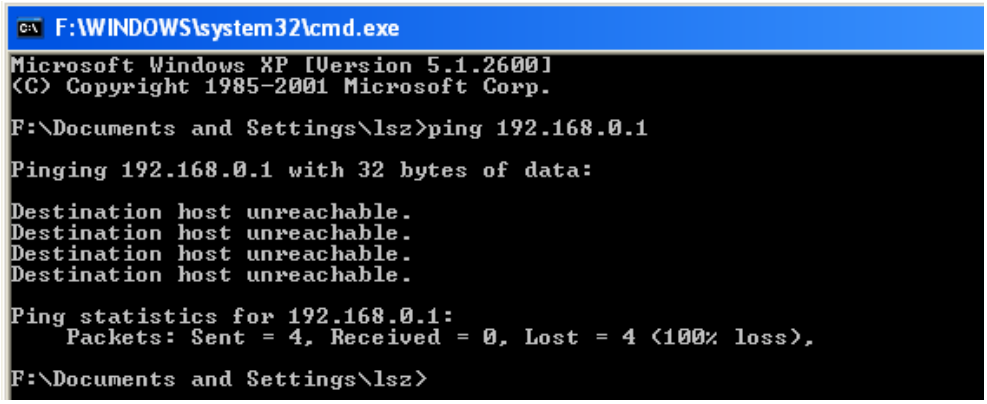
1. Set up the TCP/IP Protocol in **Obtain an IP address automatically** mode on your PC.
2. Power off the Router and PC. Then turn on the Router and restart the PC. The built-in DHCP server will assign IP address for the PC.

Now, you can run the Ping command in the **command prompt** to verify the network

connection between your PC and the Router. Open a command prompt, and type in **ping 192.168.0.1**, then press **Enter.**



If the result displayed is similar to that shown in above figure, it means that the connection between your PC and the Router has been established.



If the result displayed is similar to that shown in the above figure, it means that your PC has not connected to the Router successfully. Please check it following below steps:

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

If correct, the LAN port on the Router and LED on your PC's adapter should be lit.

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

Since 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, the Gateway must be 192.168.0.1.

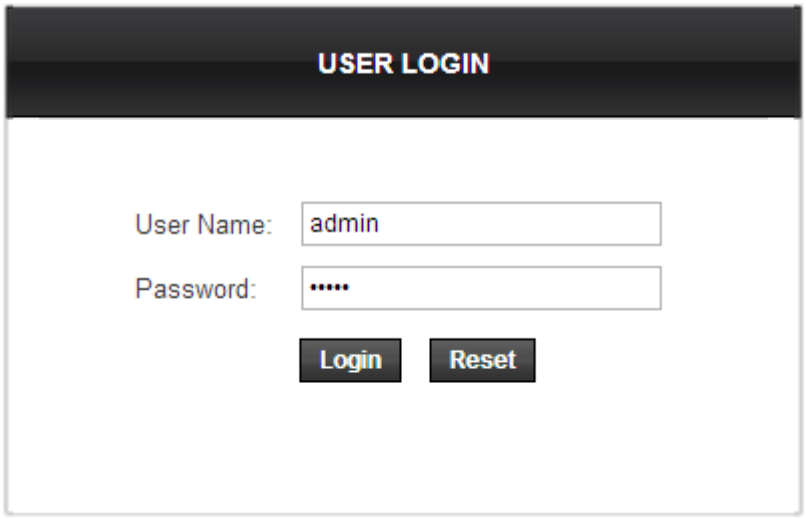
4. EASY SETUP

This chapter introduces how to **Easy Setup** the Modem Router so that users can easily finish the settings step by step following with the guide to access Internet.

4.1 Accessing Web page

Connect to the Modem Router by typing **http://192.168.0.1** in the address field of Web Browser. Then press **Enter** key.

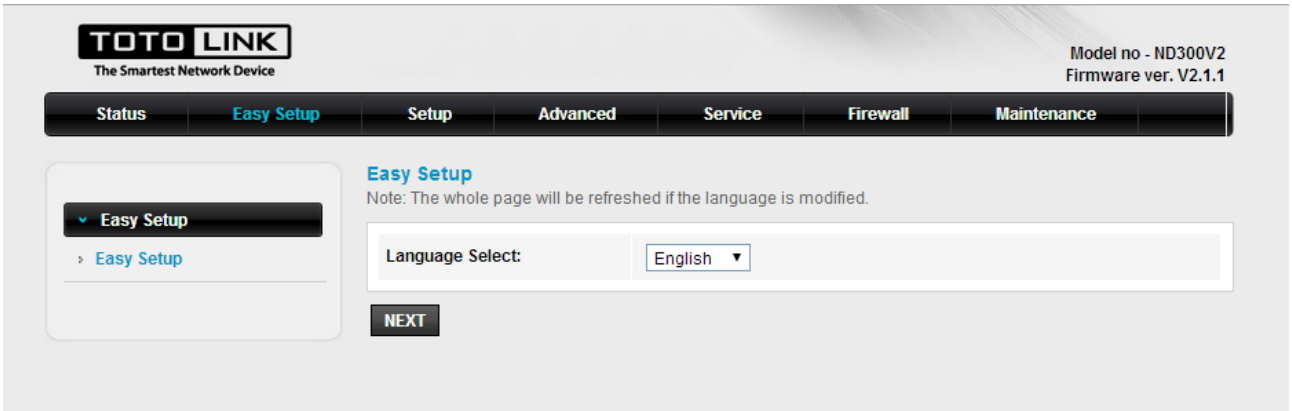
Then below window will pop up that requires you to enter valid User Name and Password.



Enter **admin** for User Name and Password, both in lower case letters. Then click **OK** button or press **Enter** key.

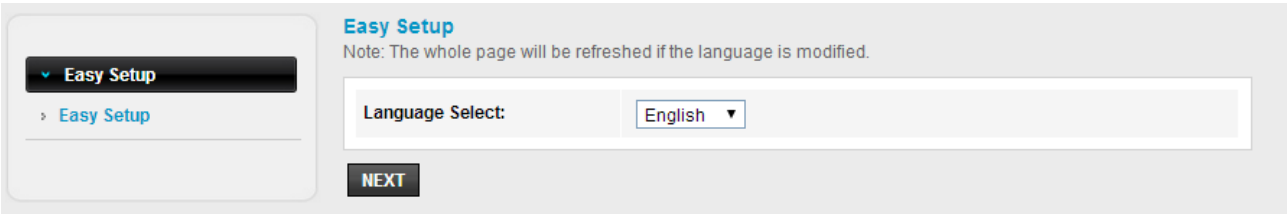
> ***Note:*** *If the above screen does not prompt, it means that your web-browser has been set to using a proxy. Go to* ***Tools menu***>***Internet Options***>***Connections***>***LAN Settings****, in the screen that appears, cancel the* ***Using Proxy checkbox****, and click* ***OK*** *to finish it.*

Now you have logged into the web interface of the Modem Router. First, you can see the **Easy Setup** page.



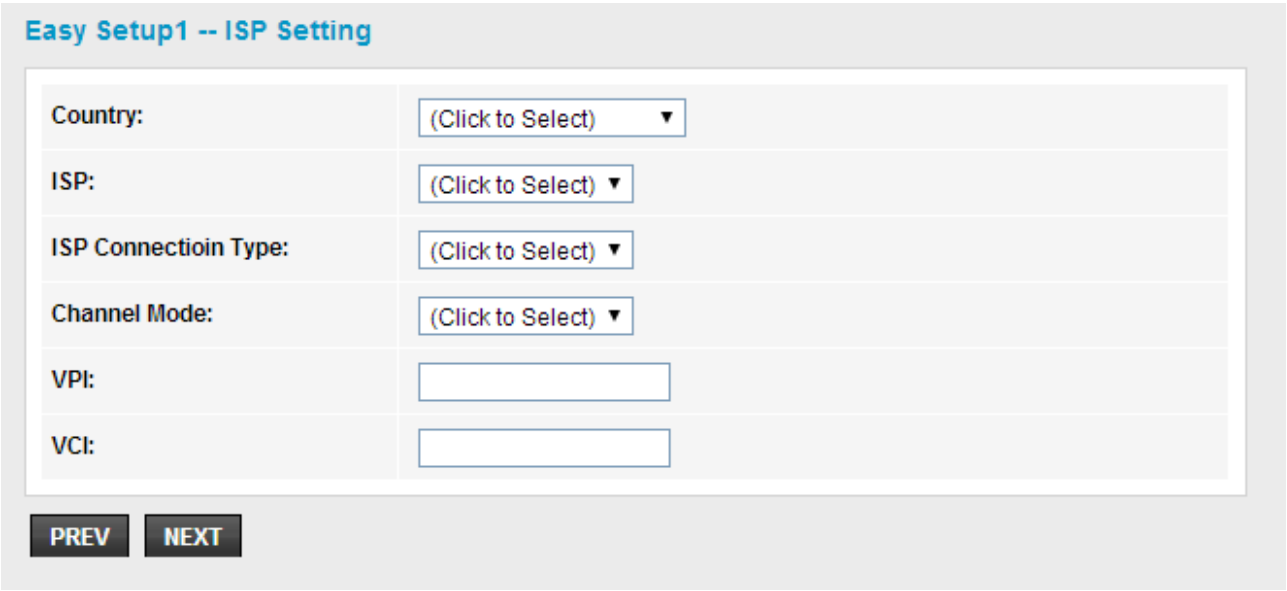
4.2 Easy Setup

Easy Setup is provided as part of the web configuration utility. Users can follow the introductions to finish the basic settings of the Modem Router step by step.
Select language at first and click **NEXT** button.



4.2.1 ISP Setting

You're required to choose one ISP Connection Type, after configuration is finished, please click **NEXT** to continue the setting.



Country: please select the correct country name.
ISP Connection Type: there are five ISP connection type supported: PPPoE, PPPoA,

Dynamic IP, Static IP and Bridge.

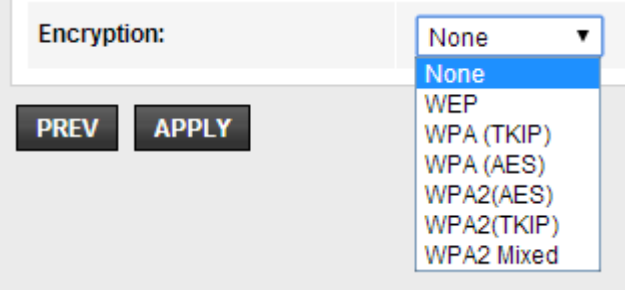
VPI: Virtual Path Identifier, this is based on the region you are living, generally provided by ISP.

VCI: Virtual Channel Identifier, this is based on the region you are living, generally provided by ISP.

4.2.2 Wireless Setting& Security

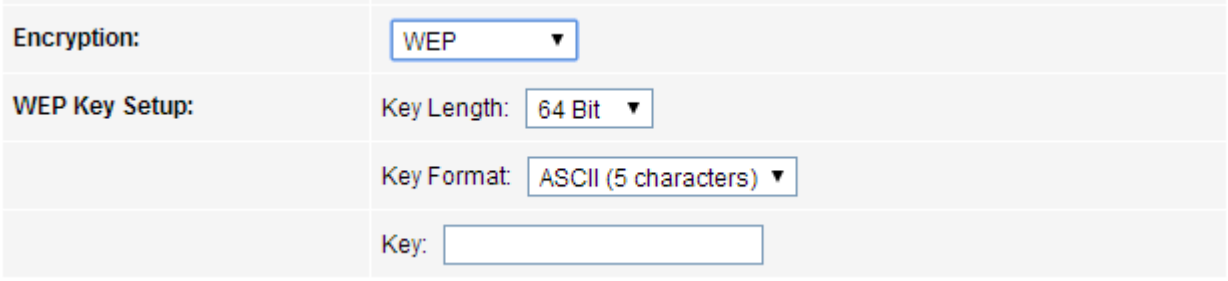
In this page, you can disable or enable SSID broadcast, change the Wireless SSID and also the encryption mode, after changing settings, please click **APPLY** to finish easy setup.

Encryption: choose an encryption method for this wireless network, WEP, WPA, WPA2 and WPA2 Mixed can be selected here.



1. WEP

WEP (Wired Equivalent Privacy) is based on the IEEE 802.11 standard and uses the RC4 encryption algorithm. WEP is the oldest security algorithm, and there are few applications that can decrypt the WEP key in less than 10 minutes.

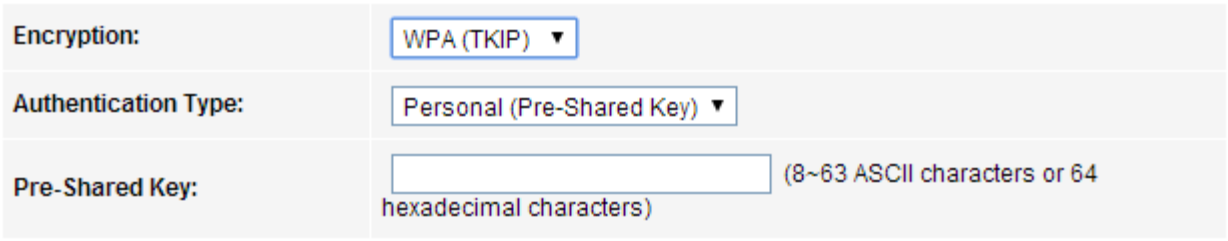


2. WPA/WPA2

Wi-Fi Protected Access (WPA) is the most dominating security mechanism in industry. It is separated into two categories: WPA-personal or called WPA Pre-Share Key (WPA/PSK), and WPA-Enterprise or called WPA/802.1x. WPA2 means Wi-Fi Protected Access 2, it is the current most secure method of wireless security and required for 802.11n performance.

TKIP--Temporal Key Integrity Protocol is one cipher for data encryption supported by WPA.

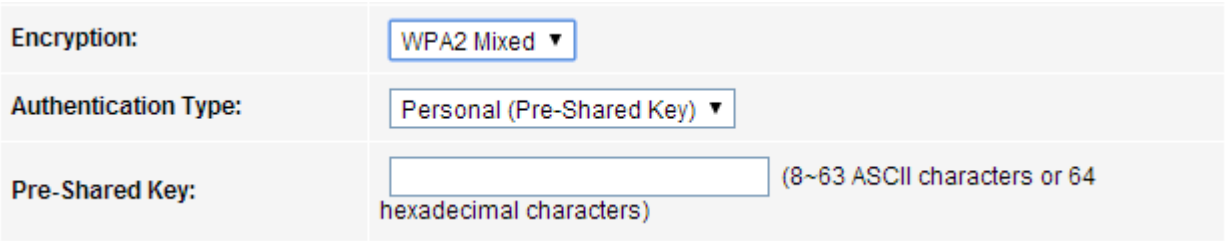
AES--Advanced Encryption Standard is another cipher for data encryption supported by WPA.



Pre-Shared Key Format/Pre-Shared Key: This is a pre-defined key used for encryption during data transmission. It has two formats: Passphrase and Hex (64 characters). Then you need to enter the Pre-Shared Key, either 8~63 ASCII characters, such as 012345678 or 64 Hexadecimal digits leading by 0x, such as “0x321253abcde…”).

2. WPA2-Mixed (Recommended)

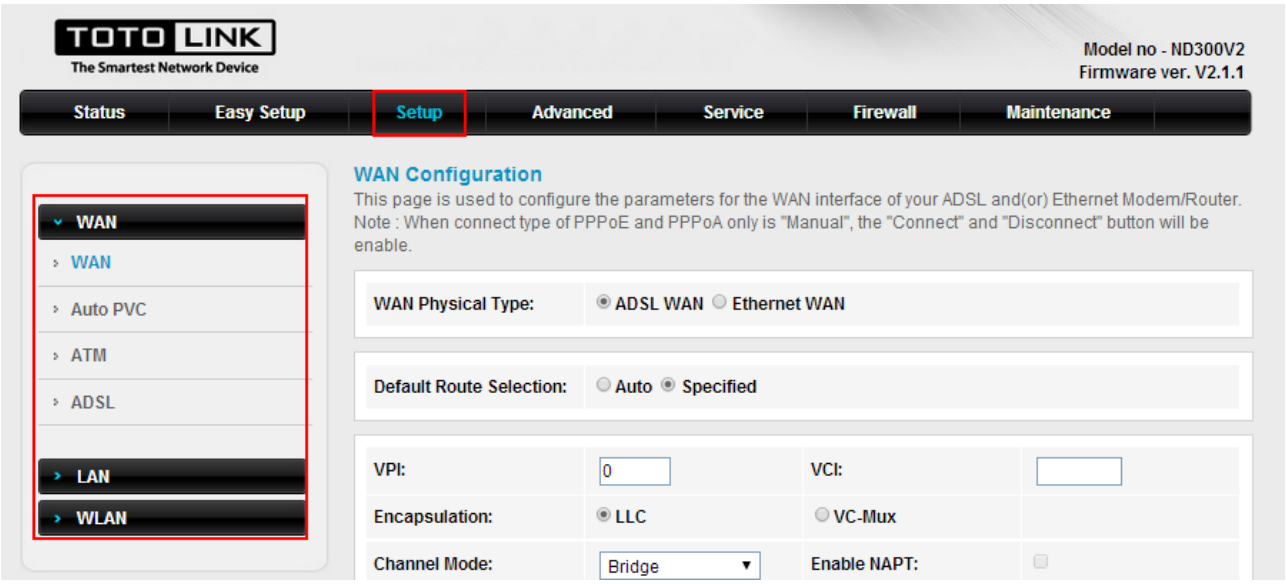
This option mixes WPA/WPA2 together. It will provide the best security for your router.



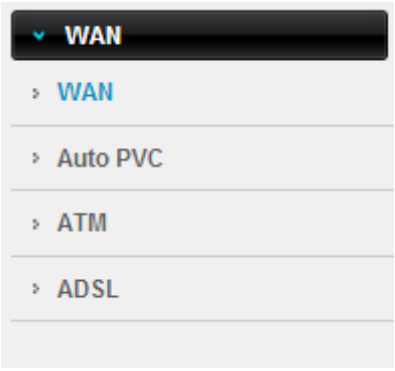
5. ADVANCED SETUP

5.1 Setup

This setup interface allows you to configure WAN, LAN and WLAN settings.



5.1.1 WAN



5.1.1.1 WAN

The ADSL router provides ADSL WAN or Ethernet WAN for you to connect to Internet. Select one type accordingly and enter the parameters provided by your ISP.

WAN Configuration

This page is used to configure the parameters for the WAN interface of your ADSL and(or) Ethernet Modem/Router. Note : When connect type of PPPoE and PPPoA only is "Manual", the "Connect" and "Disconnect" button will be enable.

WAN Physical Type:	◉ ADSL WAN ○ Ethernet WAN

Default Route Selection:	○ Auto ◉ Specified

VPI:	0	VCI:	
Encapsulation:	◉ LLC	○ VC-Mux	
Channel Mode:	Bridge ▼	Enable NAPT:	☐
Enable IGMP:	☐		

PPP Settings:			
User Name:		Password:	
Type:	Continuous ▼	Idle Time (min):	

WAN IP Settings:			
Type:	◉ Fixed IP	○ DHCP	
Local IP Address:		Remote IP Address:	
NetMask:			
Default Route:	○ Disable	◉ Enable	○ Auto
Unnumbered:	☐		

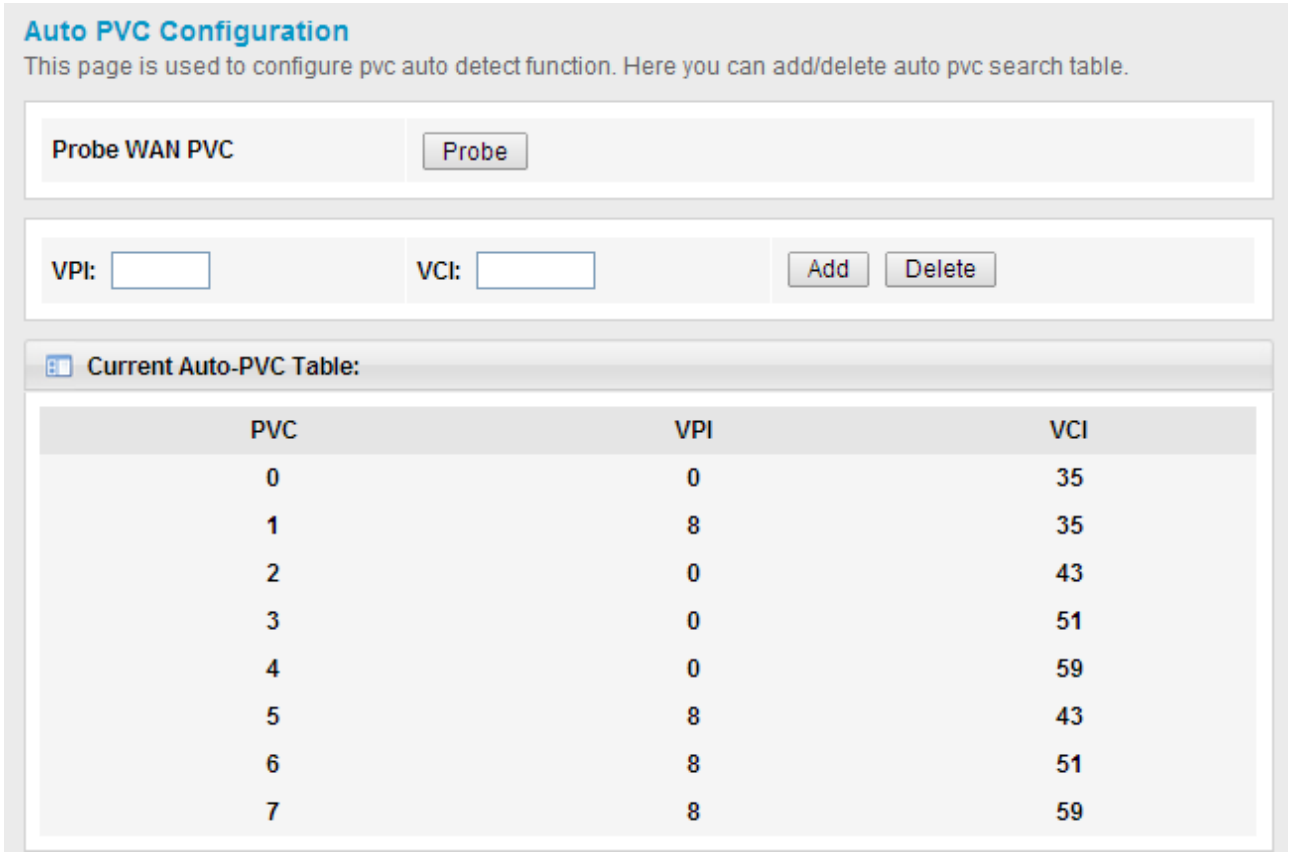
Connect | Disconnect | Add | Modify | Delete | Undo | Refresh

WAN Interfaces Table:

Select	Inf	Mode	VPI	VCI	Encap	NAPT	IGMP	DRoute	IP Addr	Remote IP	NetMask	User Name	Status	Edit
○	WAN0	br1483	8	35	LLC	Off	Off	Off	0.0.0.0	0.0.0.0	0.0.0.0	---	down	✎ 🗑

5.1.1.2 Auto PVC

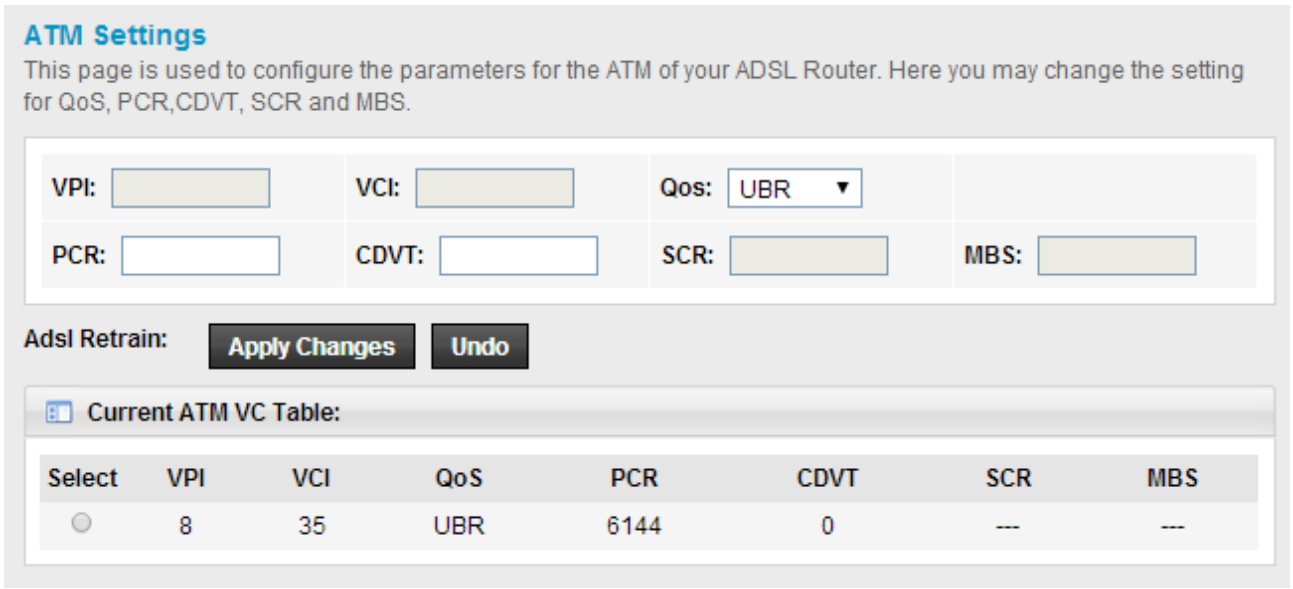
PVC auto detecting can be setup in this page.



VPI: Virtual Path Identifier, this is based on the region you are living, generally provided by ISP.

VCI: Virtual Channel Identifier, this is based on the region you are living, generally provided by ISP.

5.1.1.3 ATM



VPI: Virtual Path Identifier, this is based on the region you are living, generally provided

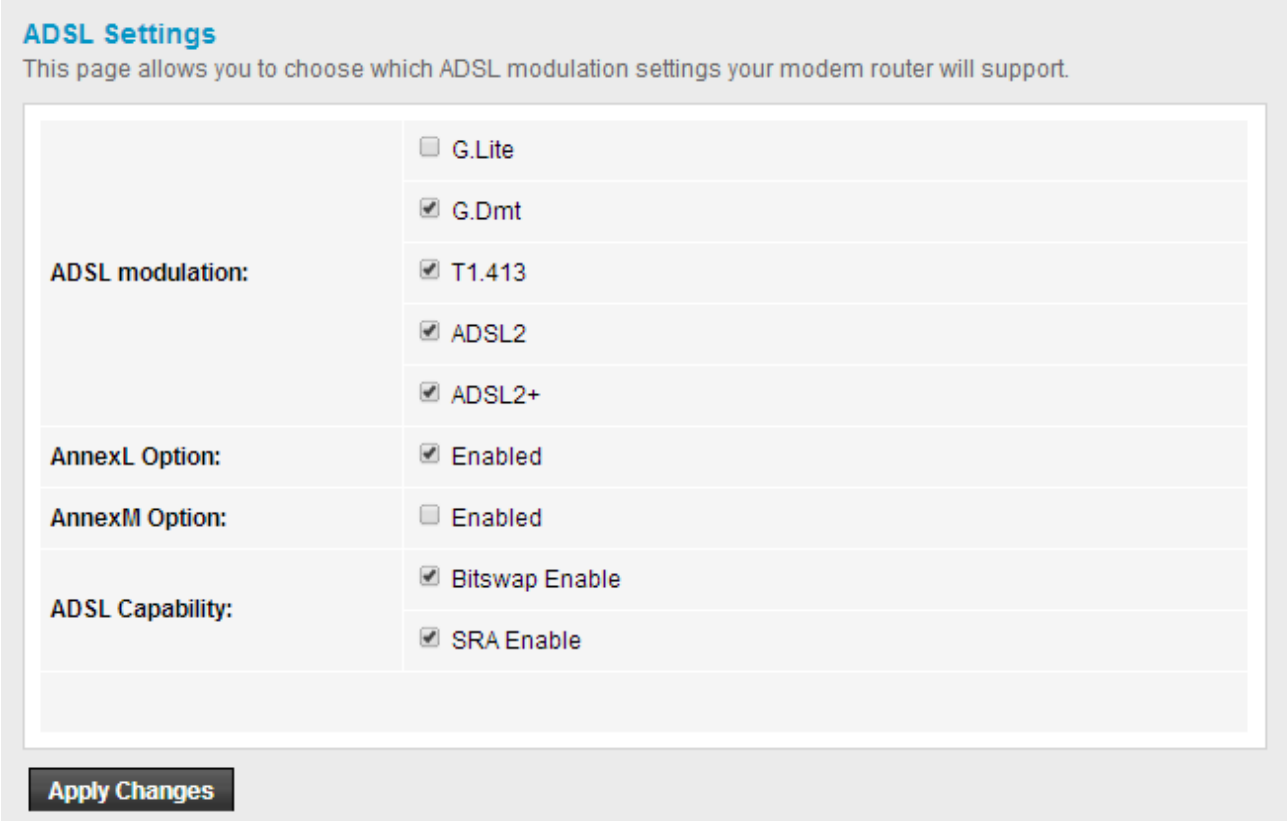
by ISP.

VCI: Virtual Channel Identifier, this is based on the region you are living, generally provided by ISP.

ATM QoS: Choose the ATM QoS type provided by your ISP. By default, it is UBR selected.

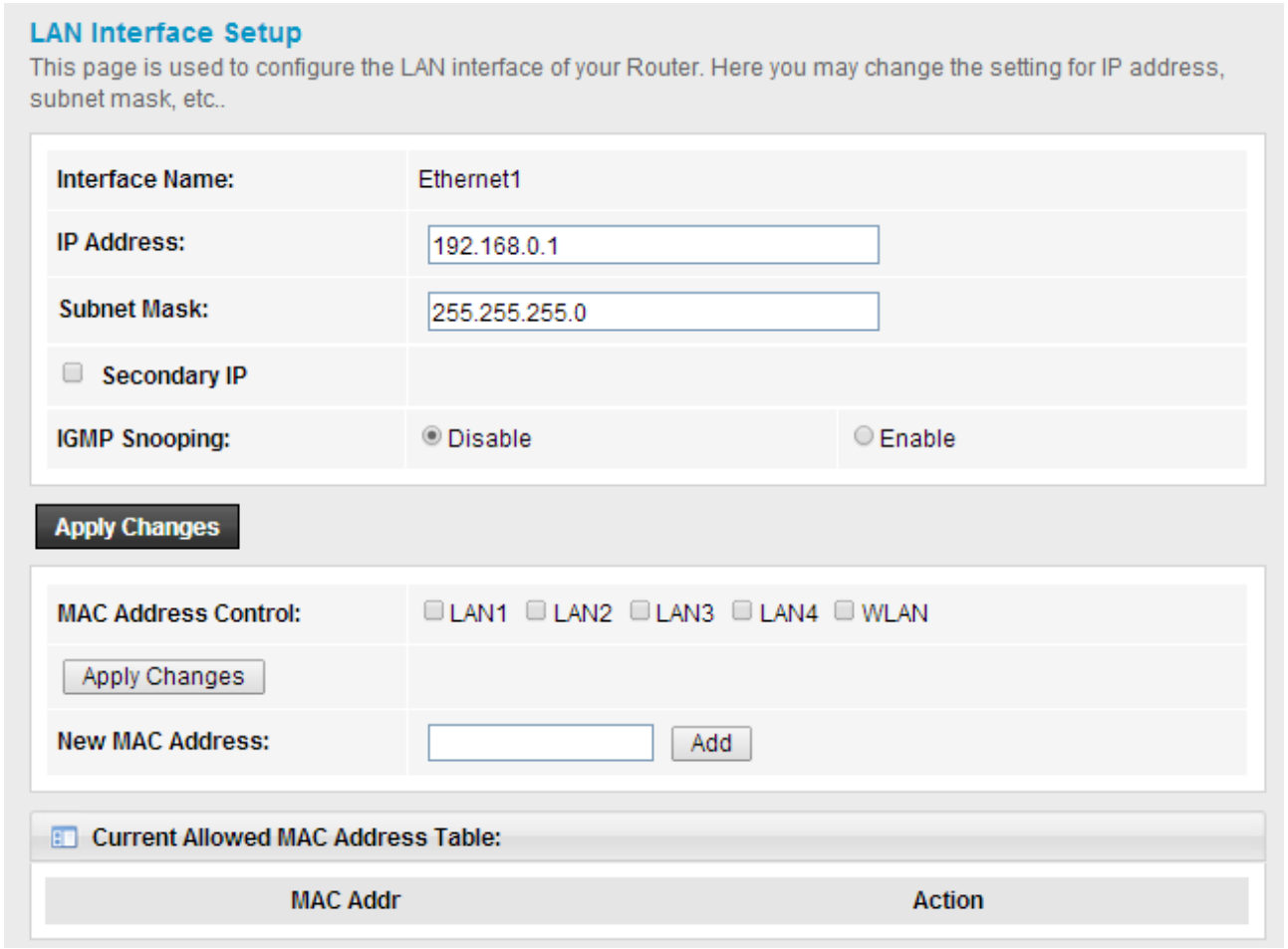
5.1.1.4 ADSL

This interface allows you to choose some ADSL parameters that your modem router will support. You could keep the default value.



5.1.2 LAN

5.1.2.1 LAN

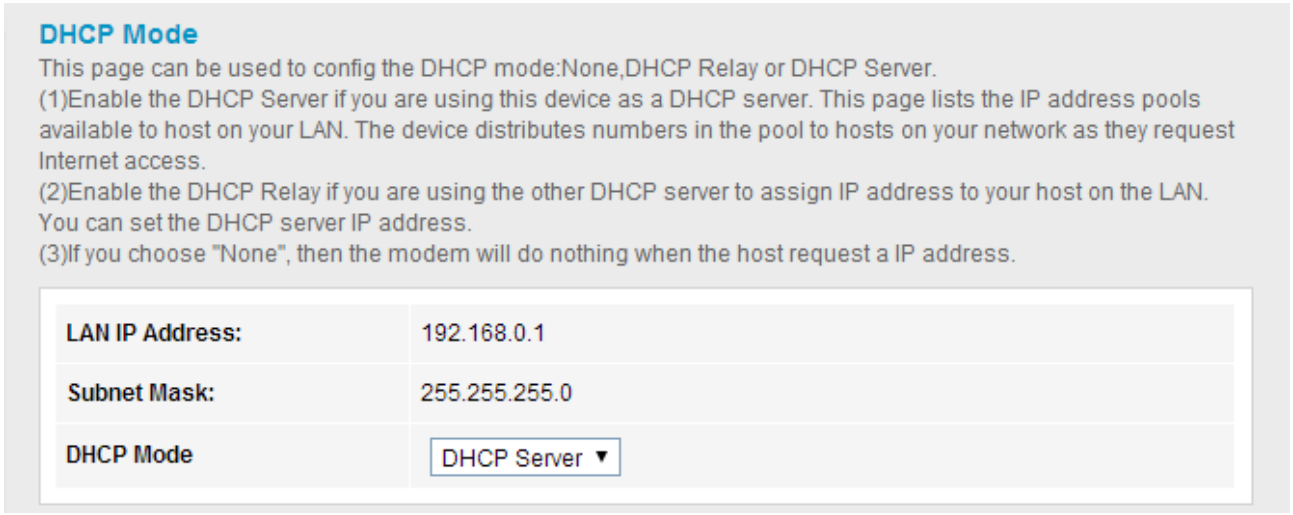


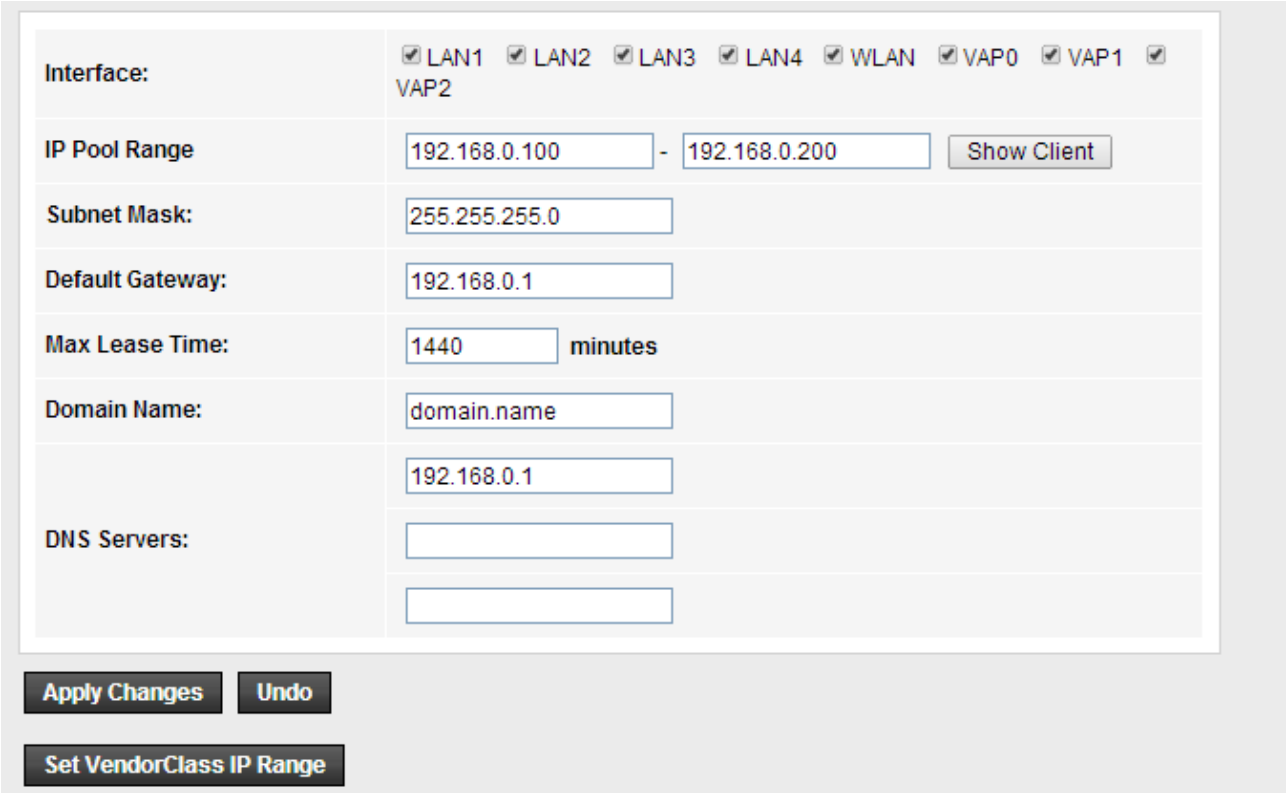
IP Address: IP Address of this ADSL Router. By default, it is 192.168.0.1. You can change it as well.

Subnet Mask: Subnet Mask of this ADSL Router is 255.255.255.0. Please just keep the value.

5.1.2.2 DHCP

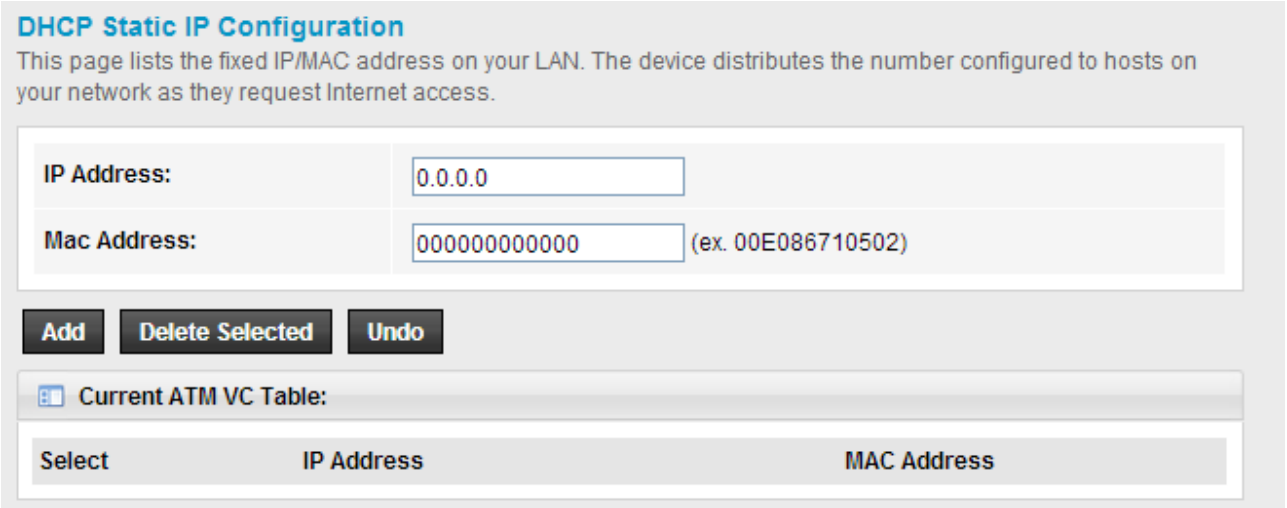
Dynamic Host Configuration Protocol. DHCP service will supply IP settings to computers which are connected to this Router and configured to obtain IP settings automatically.





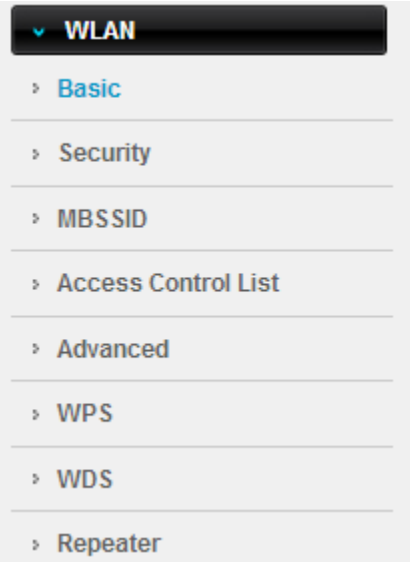
IP Pool Range: enter an IP address for the DHCP server. Since the default IP address of the Modem Router is 192.168.0.1, the IP pool range is from 192.168.1.100 to 192.168.1.200.

5.1.2.3 DHCP Static



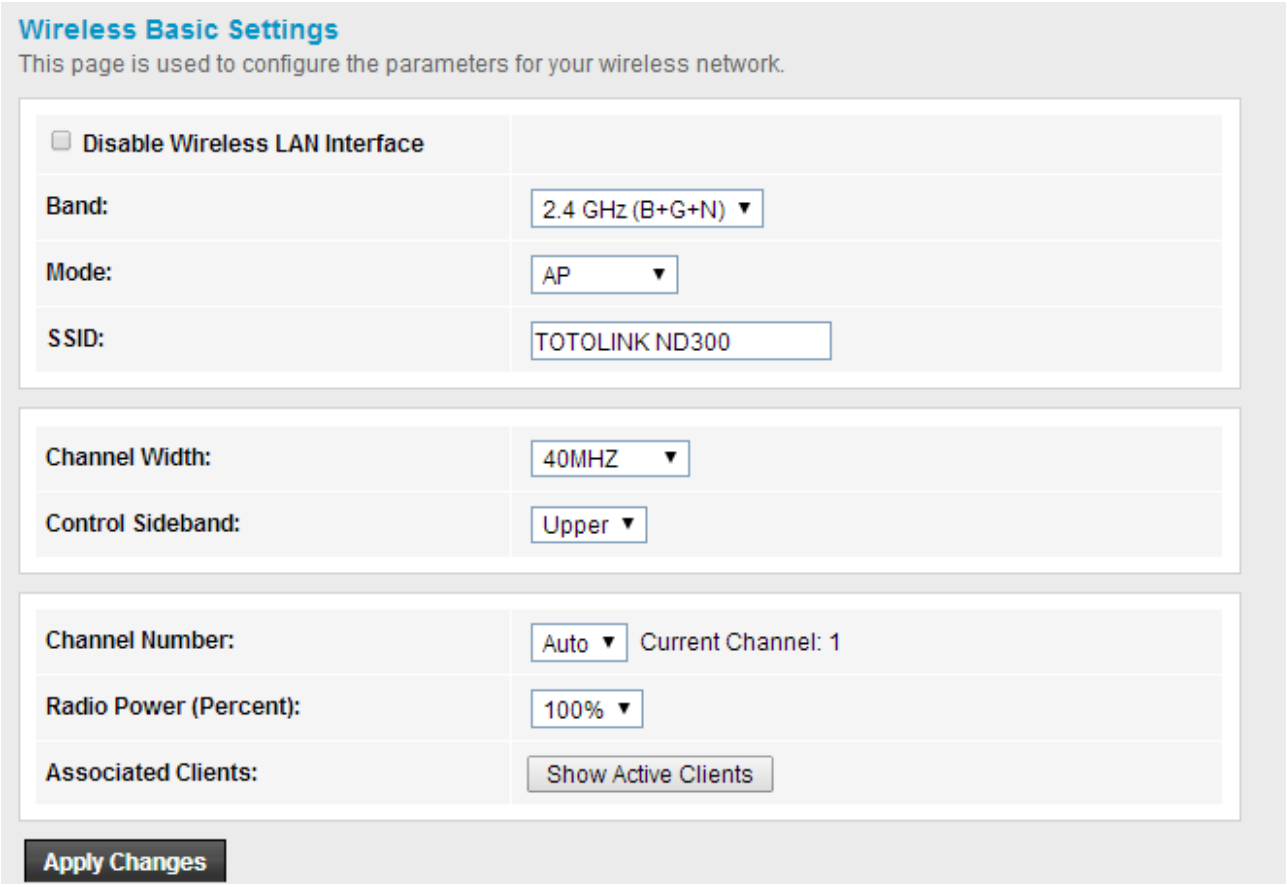
5.1.2.4 LAN IPv6

5.1.3 WLAN



5.1.3.1 Basic

On this page, you could configure the parameters for Wireless LAN client that may connect to your Access Point.



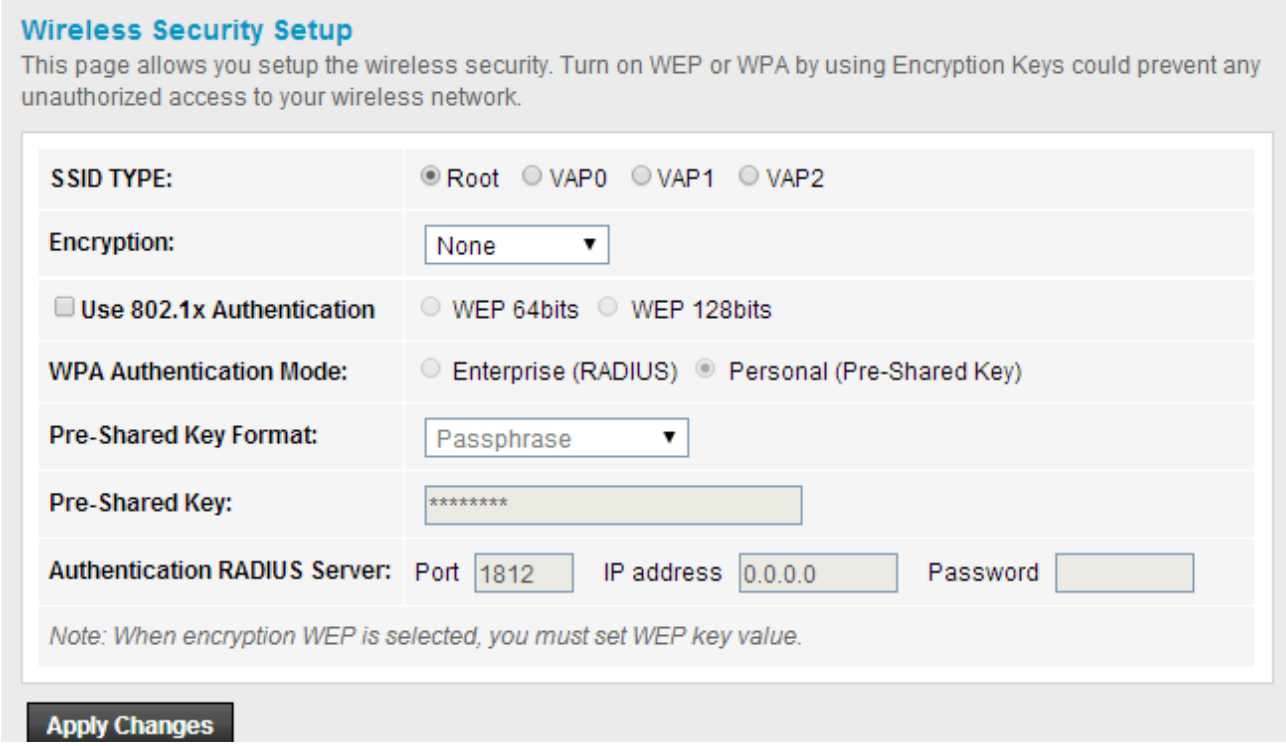
Band: Specifies the standards this Modem Router complies with. Generally, it is 2.4GHz (B+G+N) selected

SSID: This is your wireless network name. Others can access Internet wirelessly by searching for this SSID and connecting to it.

Channel Bandwidth: this is the spectral width of the radio channel.
RF Output Power: you can select the output power of the wireless device. The default value is 100%. It will deliver the best performance of the device.

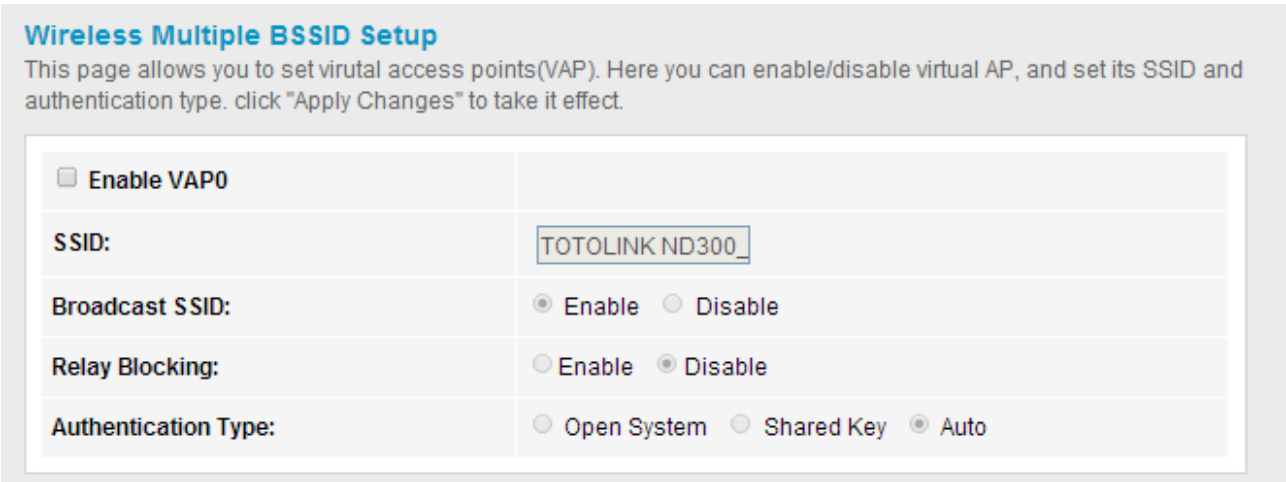
5.1.3.2 Security

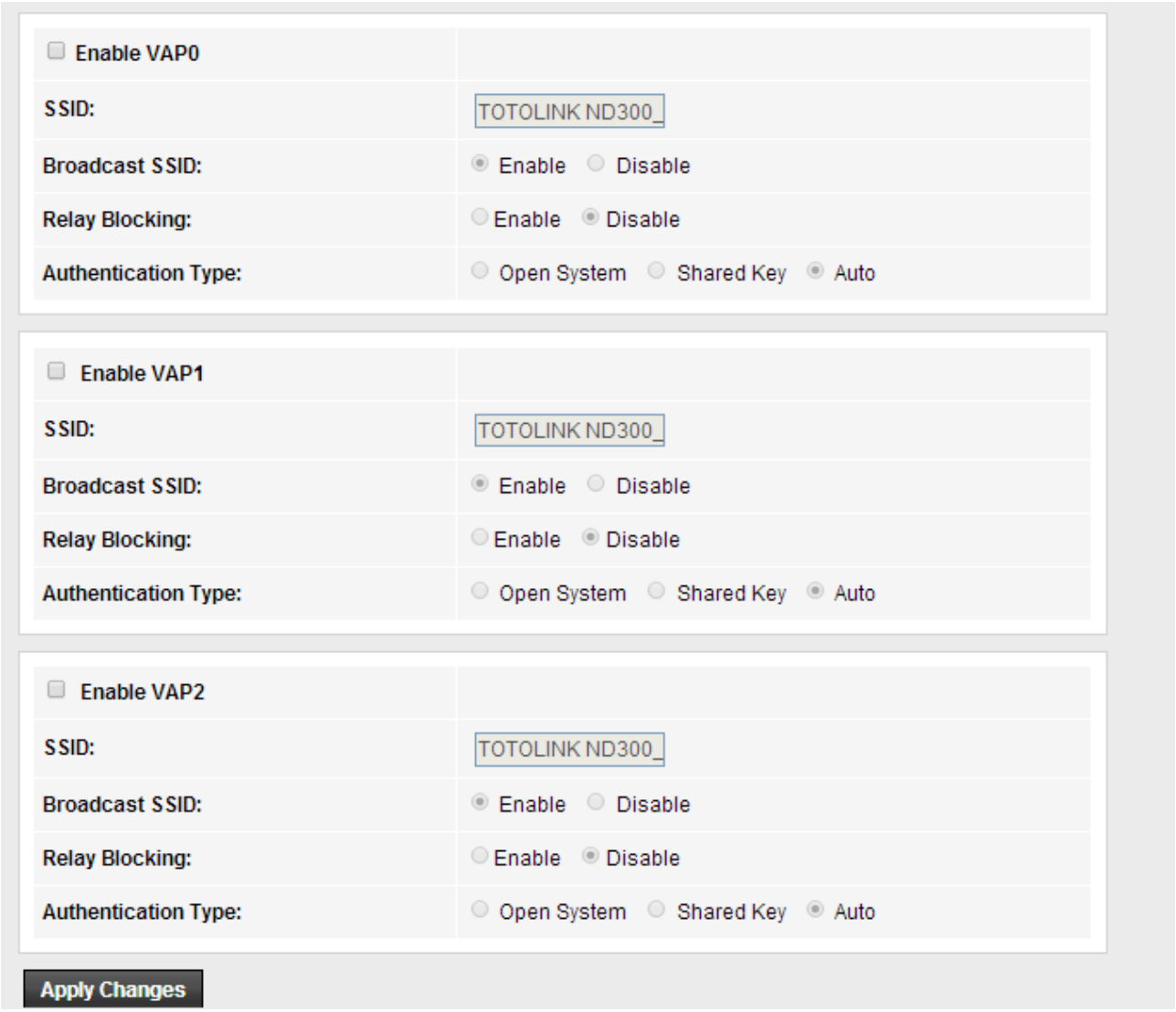
You can setup wireless security in this page. Setup different encryptions for different SSIDs so that makes your wireless network more secure.



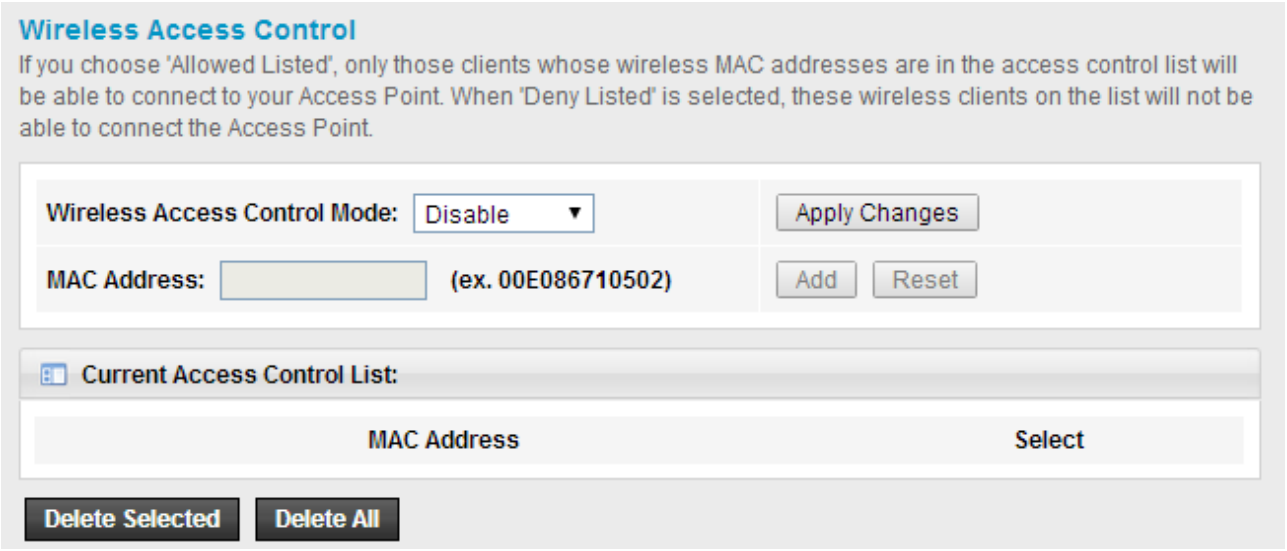
5.1.3.3 MBSSID

In this page, you can enable and set multiple VAP function. It is practical to set different SSID with encryption for different clients or friends.





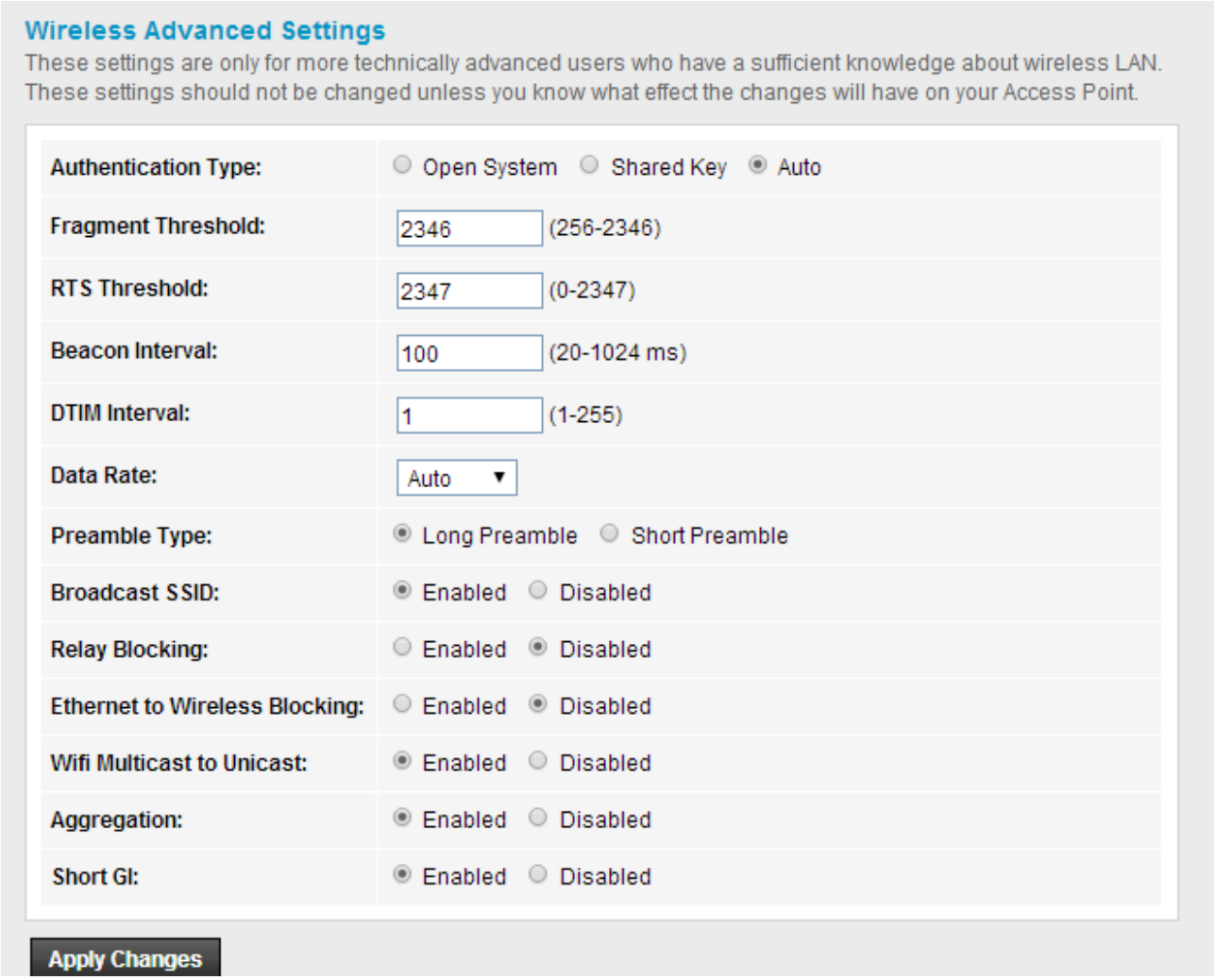
5.1.3.4 Access Control List



Mode: you could choose to allow or deny the following addresses entered by you.

MAC Address: enter the MAC address that you want to deny or allow.

5.1.3.5 Advanced Settings



Fragment Threshold: specifies the maximum size for a packet before data is fragmented into multiple packets. The range is 256-2346 bytes. Setting the Fragment Threshold too low may result in poor network performance. The use of fragment can increase the reliability of frame transmissions. Because of sending smaller frames, collisions are much less likely to occur. However, lower values of the Fragment Threshold will result in lower throughput as well. Minor or no modifications of the Fragmentation Threshold value is recommended while default setting of 2346 is optimum in most of the wireless network use cases.

RTS Threshold: determines the packet size of a transmission and, through the use of an access point, helps control traffic flow. The range is 0-2347 bytes. The default value is 2347, which means that RTS is disabled.

Beacon Interval: By default, it is set to 100ms. Higher Beacon interval will improve the device's wireless performance and is also power-saving for client side. If this value set lower than 100ms, it will speed up the wireless client connection.

Data Rates: you can choose the wireless data rate. This router provides three options. Be default, it is Default (1-2-5.5-11Mbps).**TX Power:** display the data transmission rate power.

Preamble type: it is to define the length of the sync field in an 802.11 packet. Most modern wireless network uses shot preamble with 56 bit sync filed.

5.1.3.6 WPS

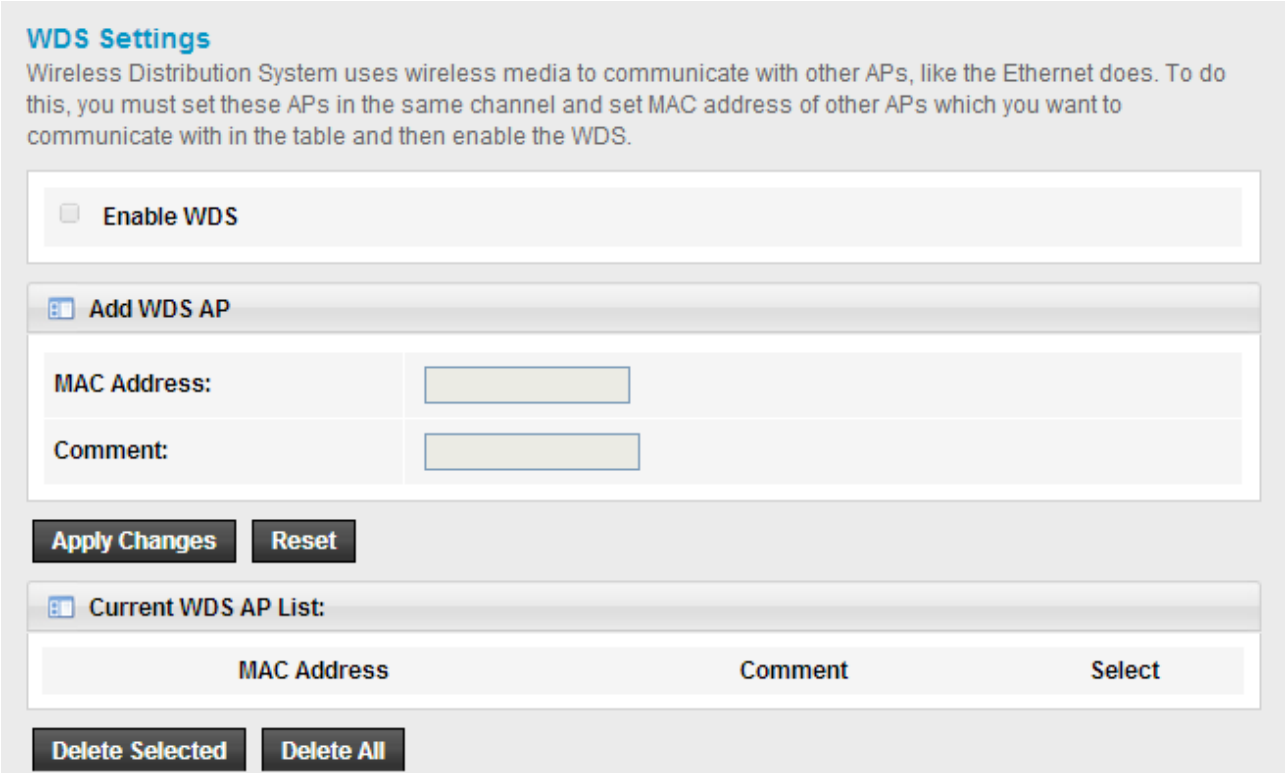
WPS (Wi-Fi Protected Setup) provides easy procedure to make network connection between wireless station and wireless access point with the encryption of WPA and WPA2.

5.1.3.7 WDS

WDS means Wireless Distribution System. It is a protocol for connecting two access points wirelessly. Usually, it can be used for the following application:

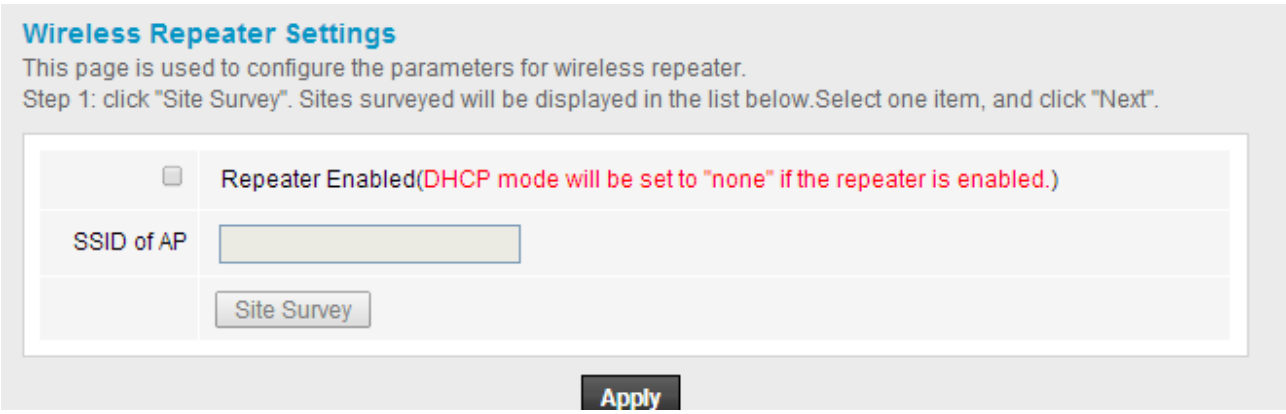
- Provide bridge traffic between two LANs though the air.
- Extend the coverage range of a WLAN.

To meet the above requirement, you must set these APs in the same channel and set MAC address of other APs which you want to communicate with in the table and then enable the WDS.

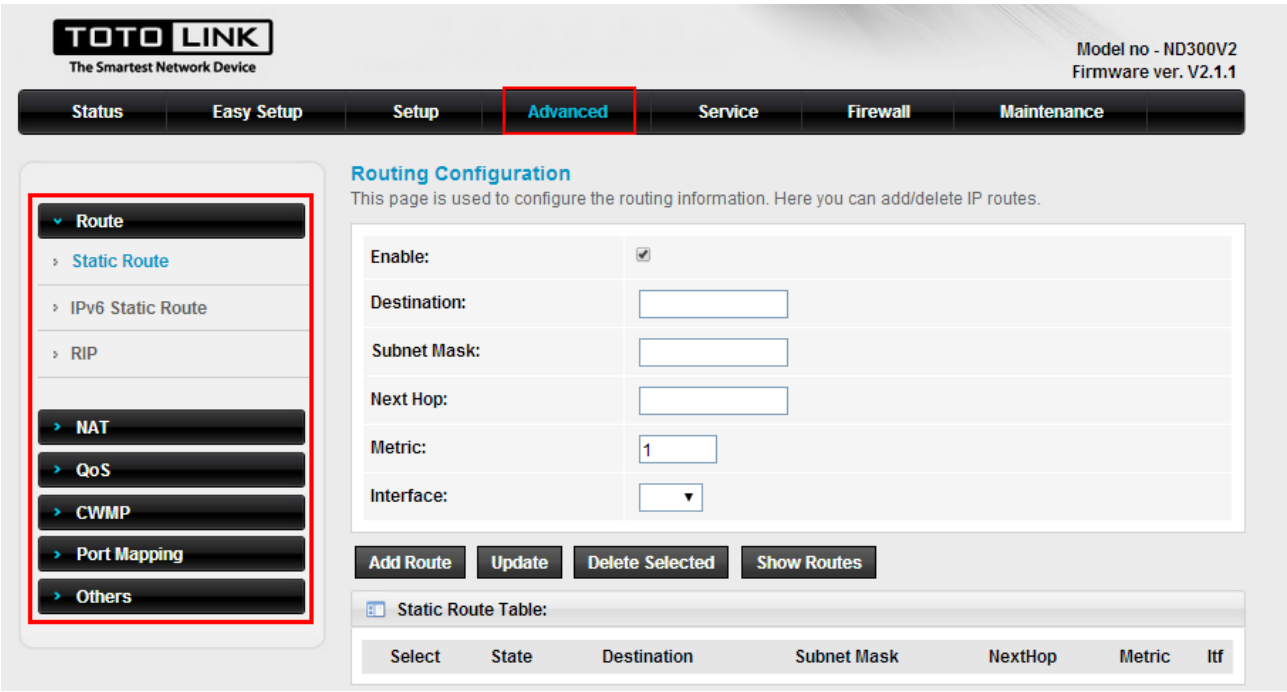


5.1.3.8 Repeater

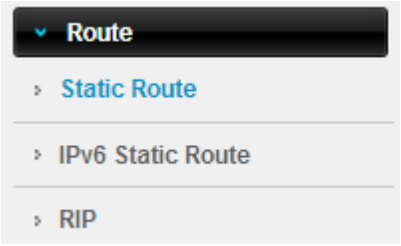
The Repeater methods can help you to expand the wireless coverage and allow more terminals to access Internet.



5.2 Advanced

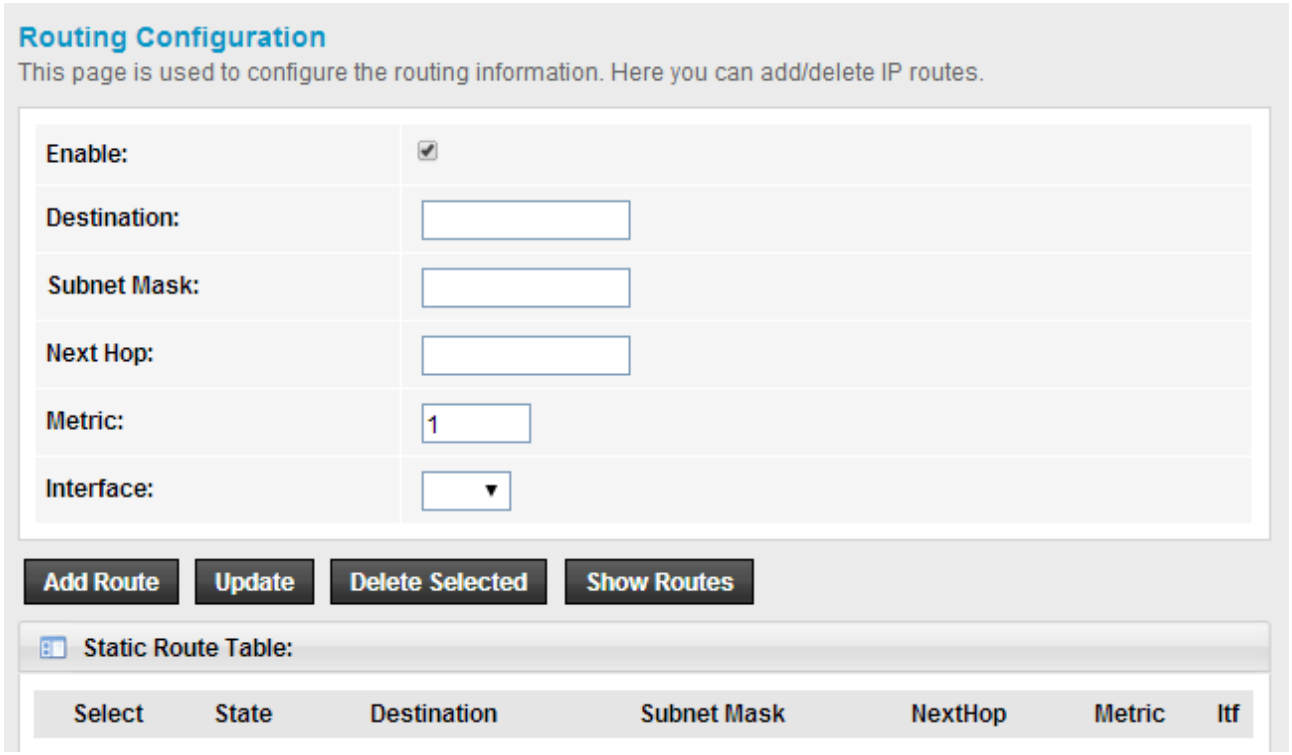


5.2.1 Route



5.2.1.1 Static Route

This page allows you to specify that a specific target IP addresses passes through a determined gateway manually.



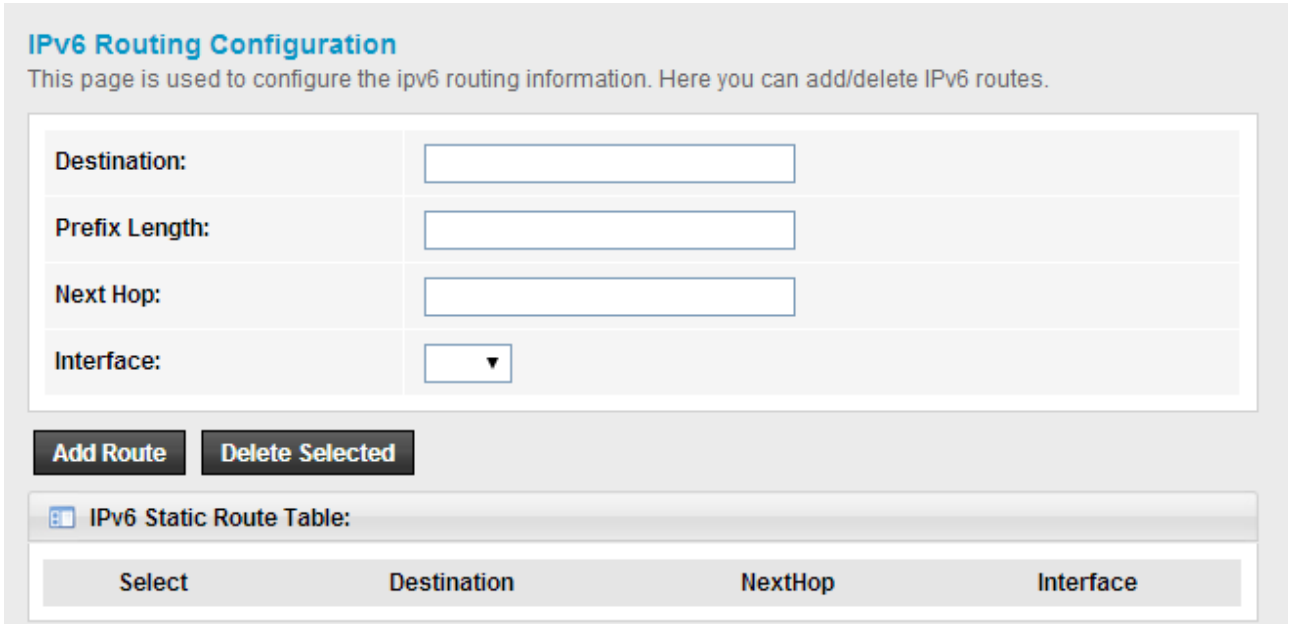
Destination: This is the address of the network or host that you want to assign to a static route.

Subnet Mask: This value determines which portion of an IP Address is the network portion, and which portion is the host portion.

Metric: Enter the metric or priority of the route. The metric range is 1 to 15, the lowest number 1 being the highest priority.

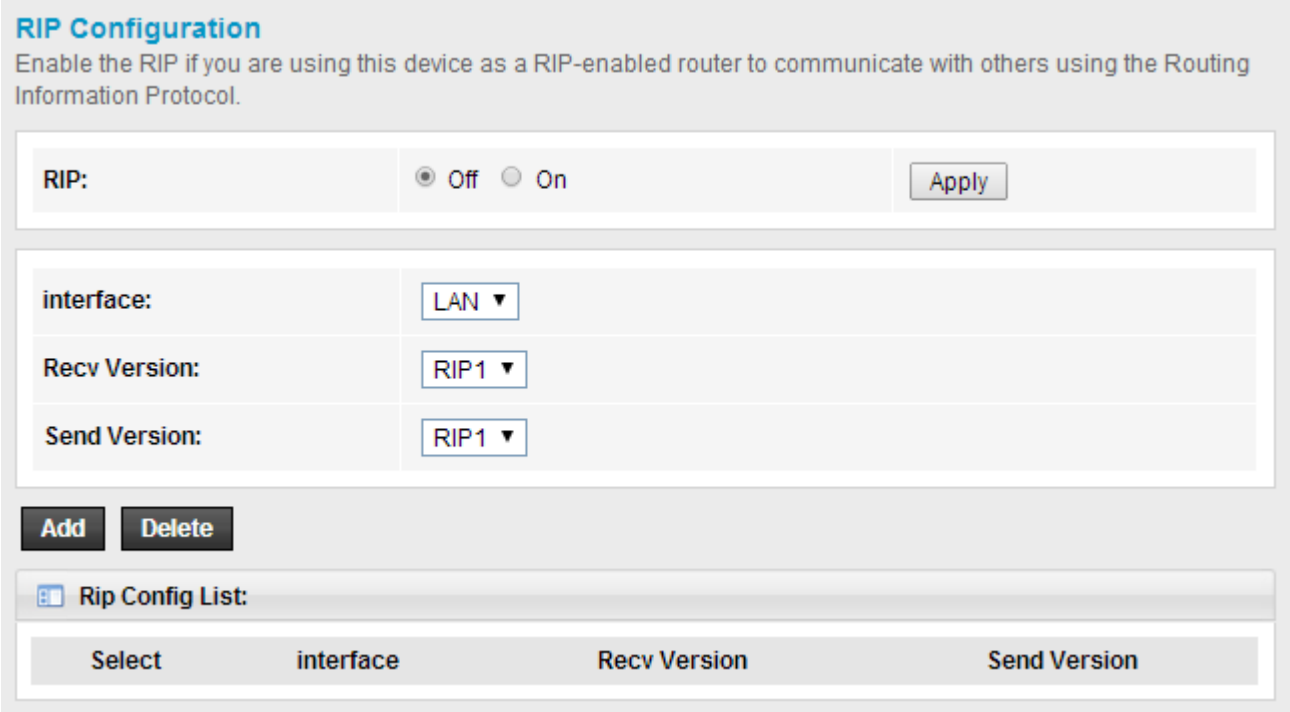
5.2.1.2 IPv6 Static Route

This page allows you to configure a static route to an Internet Protocol version 6 (IPv6) network.

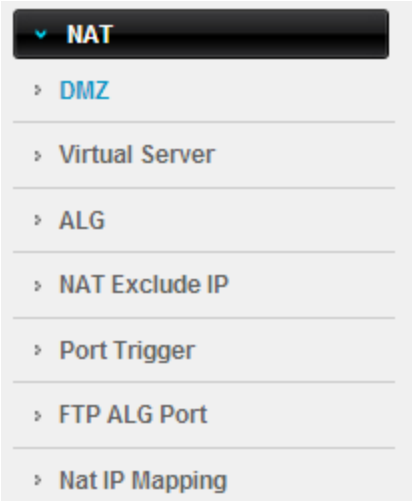


5.2.1.3 RIP

RIP means Routing Information Protocol.

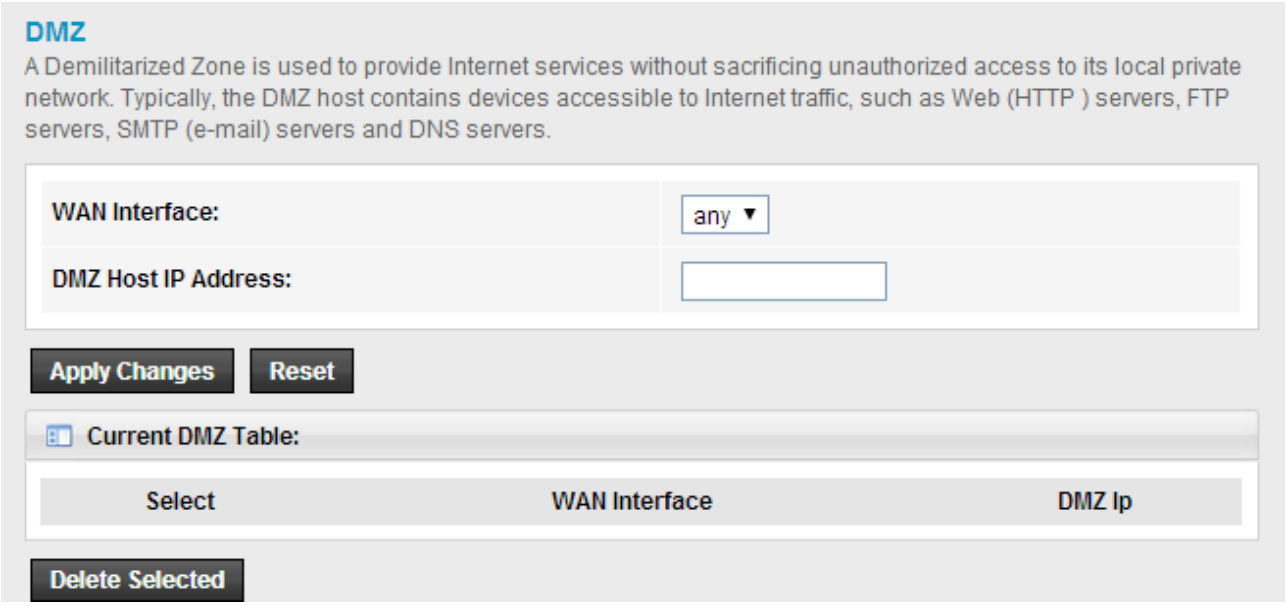


5.2.2 NAT



5.2.2.1 DMZ

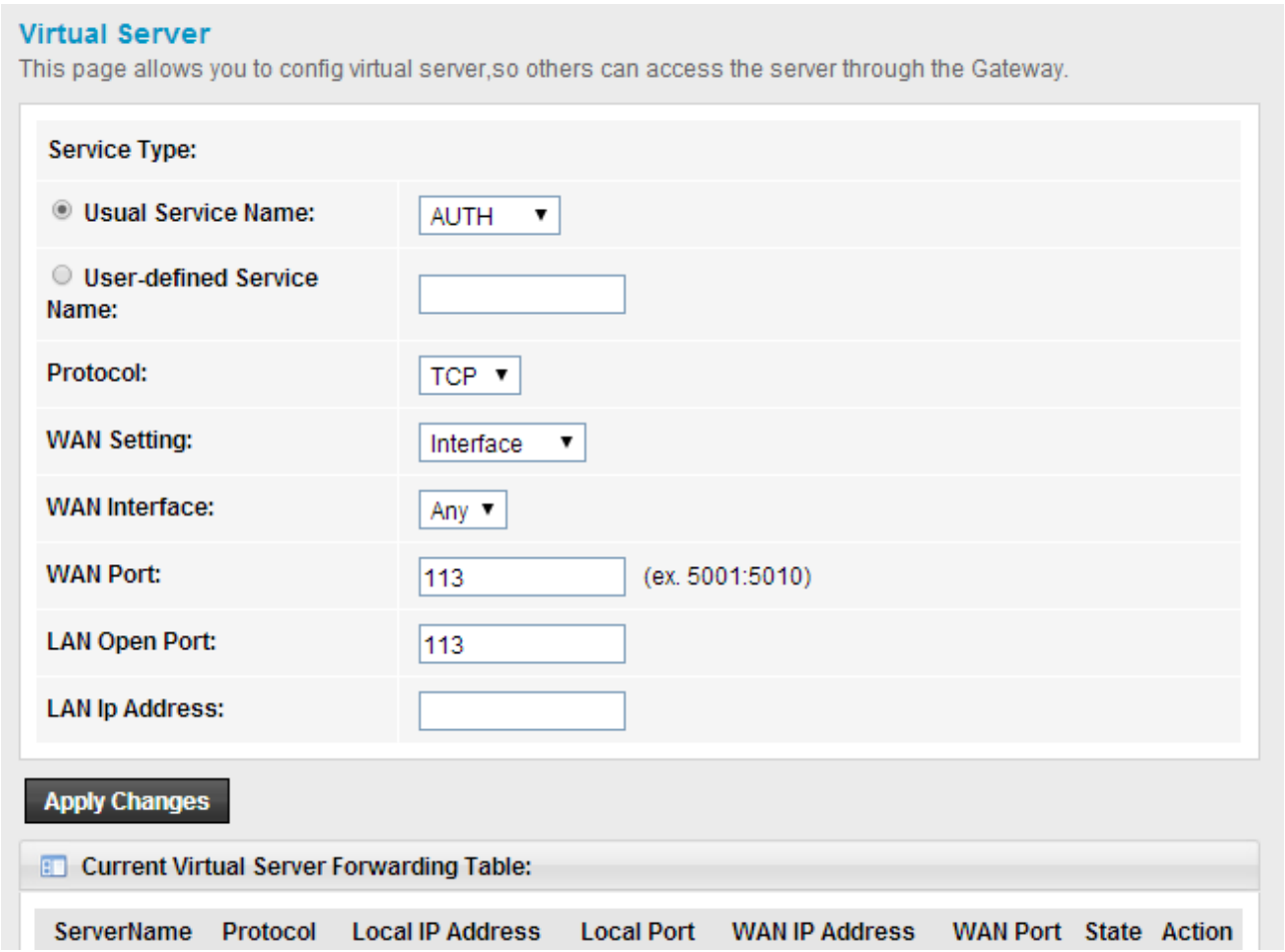
DMZ means Demilitarized Zone. It can be enabled and used as a place where services can be placed such as Web Servers, Proxy Servers and E-mail Servers such that these services can still serve the local network and are at the same time isolated from it for additional security.



DMZ Host IP Address: Type in the DMZ Host IP address.

5.2.2.2 Virtual Server

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 used for a virtual server must have a static or reserved IP address because its IP address may change when using DHCP function.



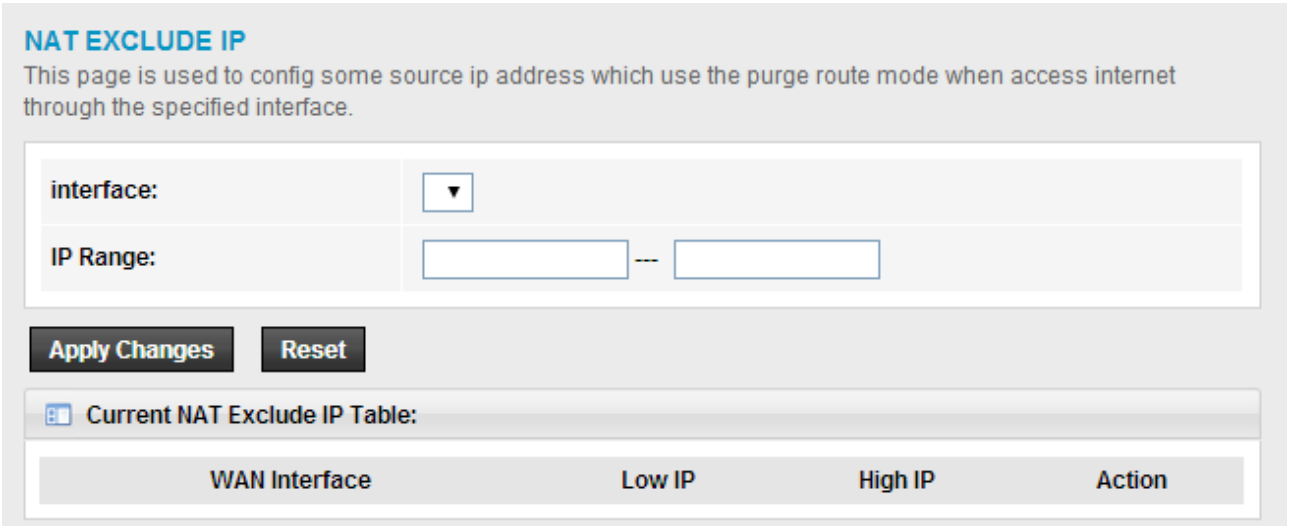
Protocol: The protocol used for this application, either TCP, or UDP.
Local IP Address: The IP address of the PC running the service application.

5.2.2.3 ALG

Application Layer Gateway consists of a security component that augments a firewall or NAT employed in a computer network.

5.2.2.4 NAT Exclude IP

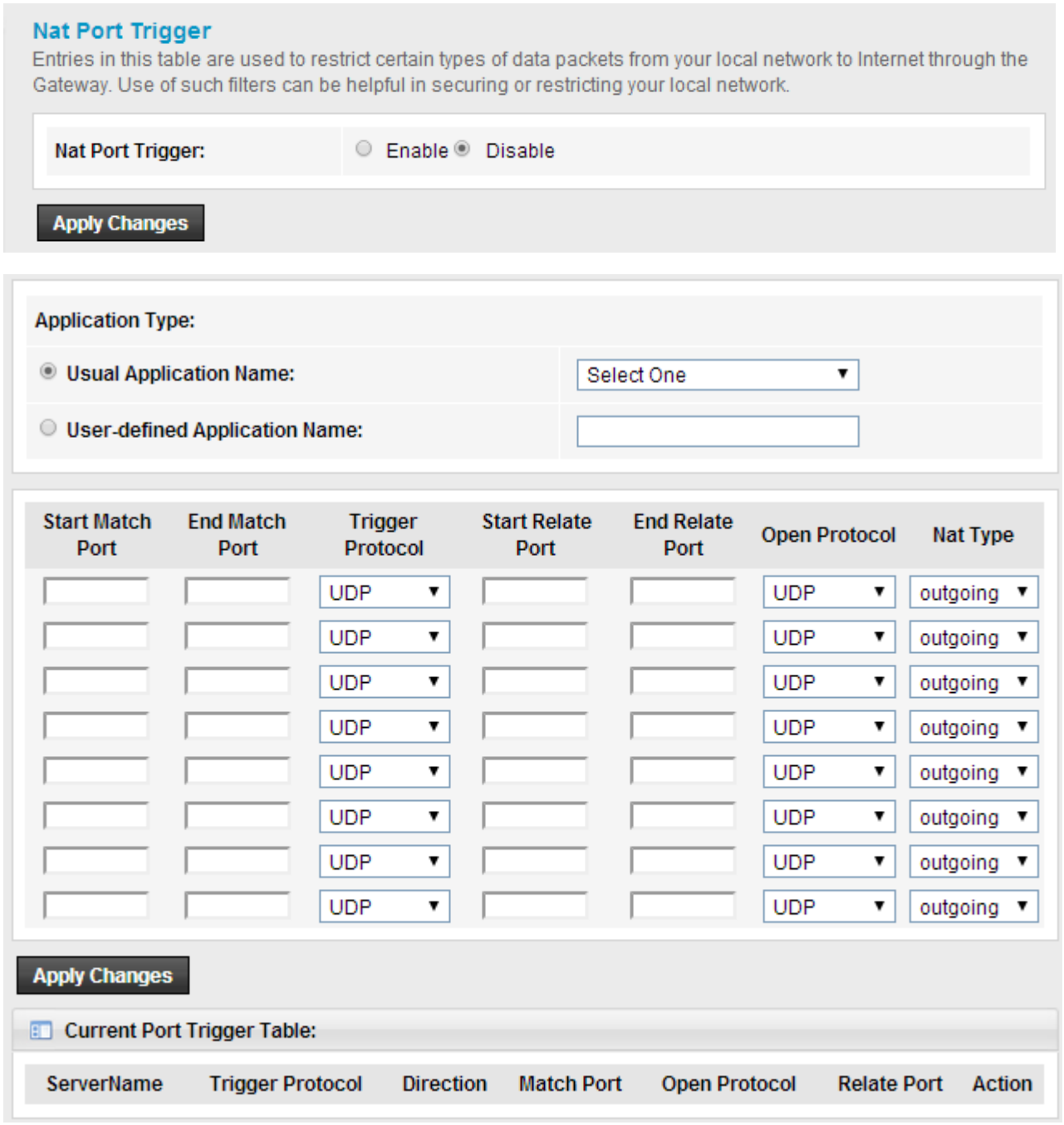
NAT Exclude IP page is help to exclude addresses in the configured network range from being assigned to DHCP clients on the private network.



5.2.2.5 Port Trigger

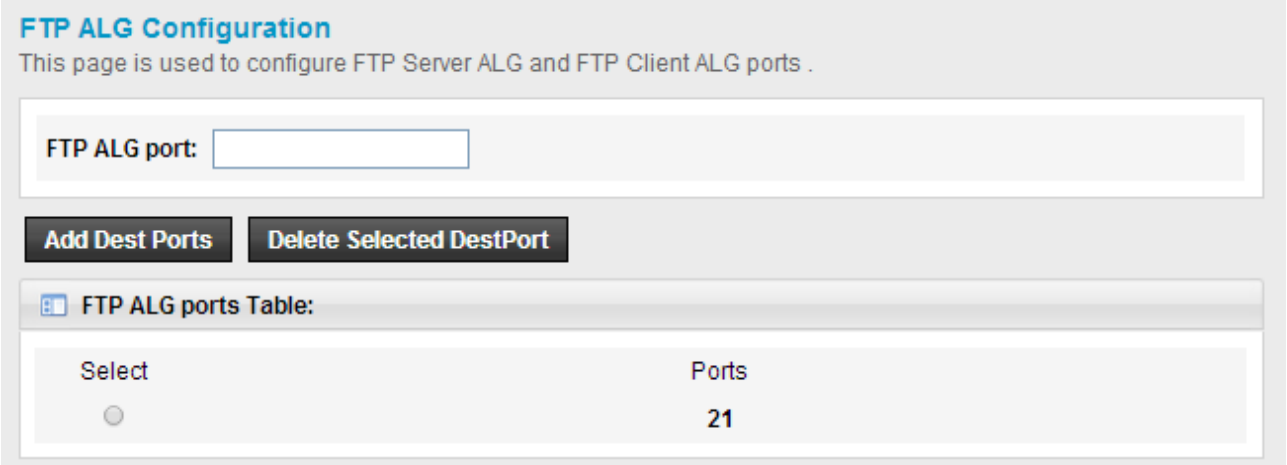
Port Trigger is used to realize that when there comes the Outbound streaming from a

specified network port (triggered port), automatically opens the gateway WAN-side interfaces specified port (forwarded port), and the streams will forward to the triggered ports. You can achieve some special purposes by this setting.



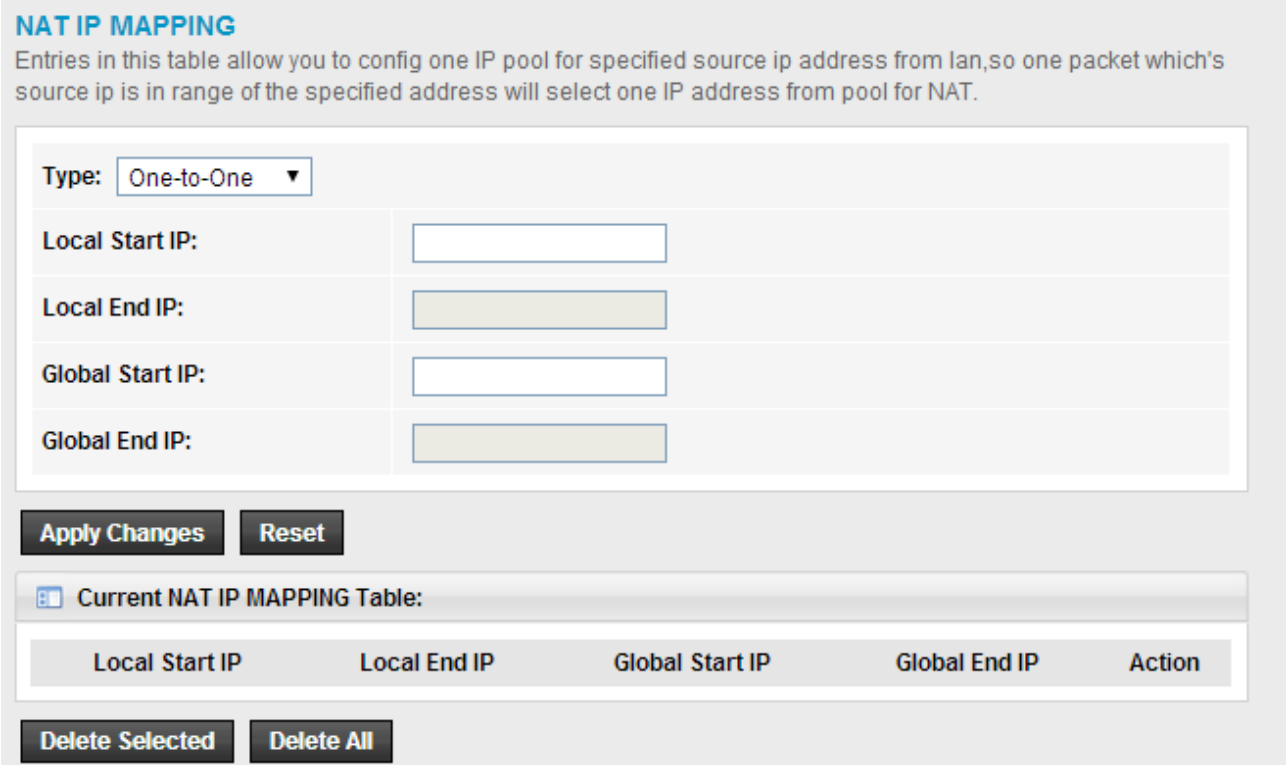
5.2.2.6 FTP ALG Configuration

FTP ALG may use separate connections for passing control commands and for exchanging data between the client and a remote server. After enabled FTP ALG in ALG page, you can setup FTP ALG Port in this page.

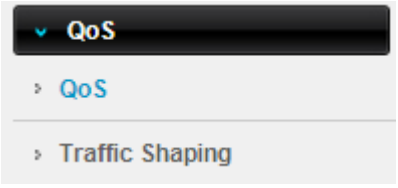


5.2.2.7 NAT IP Mapping

NAT Mapping function is very useful for a domestic network with one wireless router and a few devices with private IP addresses.

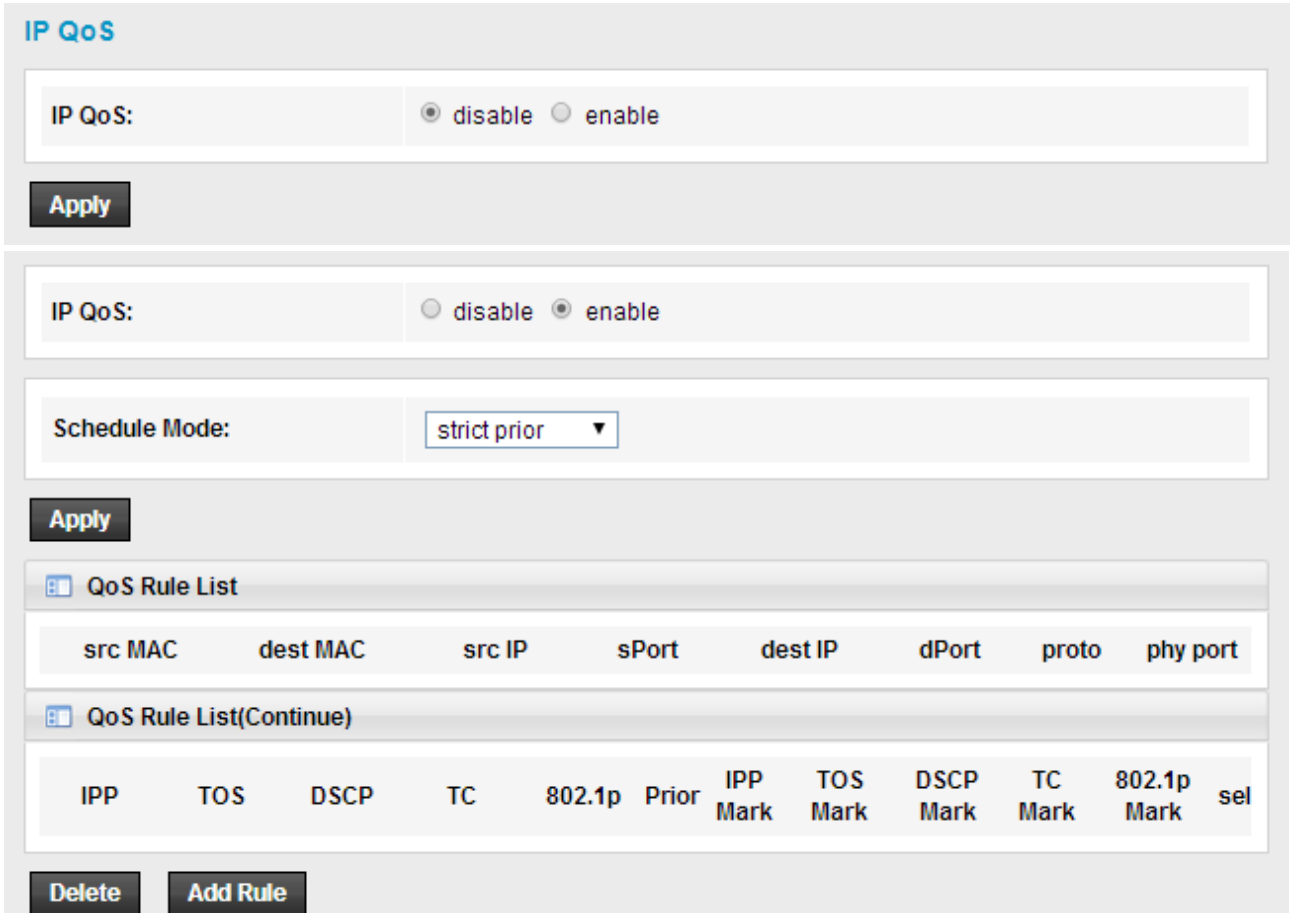


5.2.3 QoS



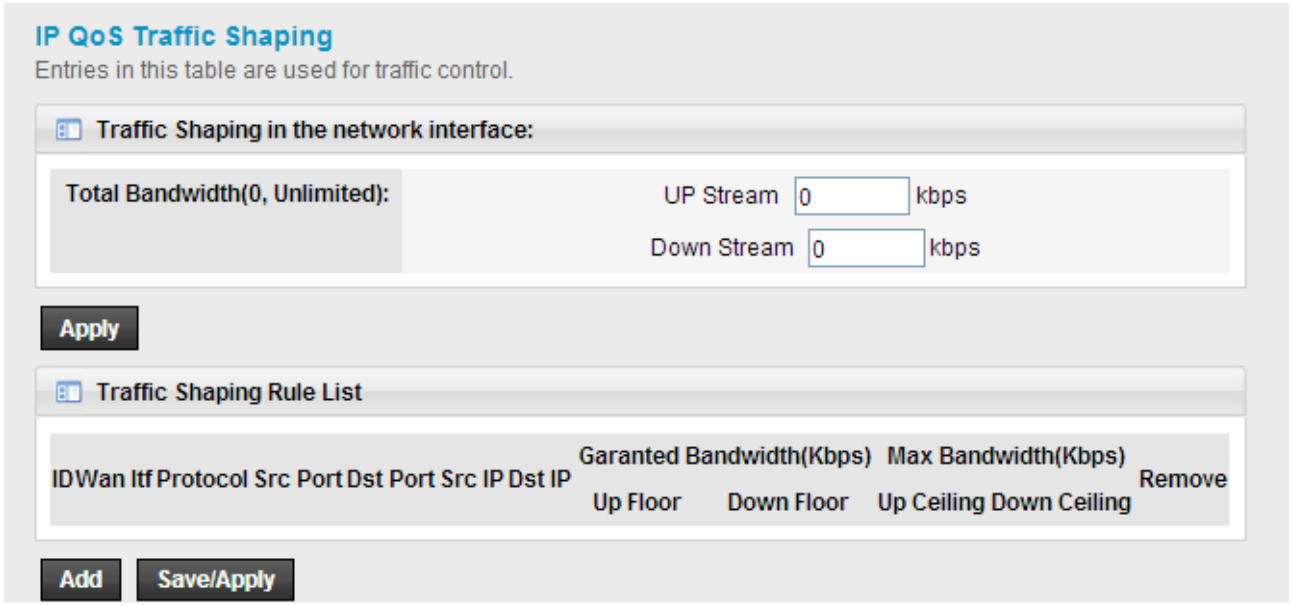
5.2.3.1 QoS

QoS means Quality of Service. Deploying QoS management to guarantee that all applications receive the service levels required and sufficient bandwidth to meet performance expectations is indeed one important aspect of modern enterprise network.



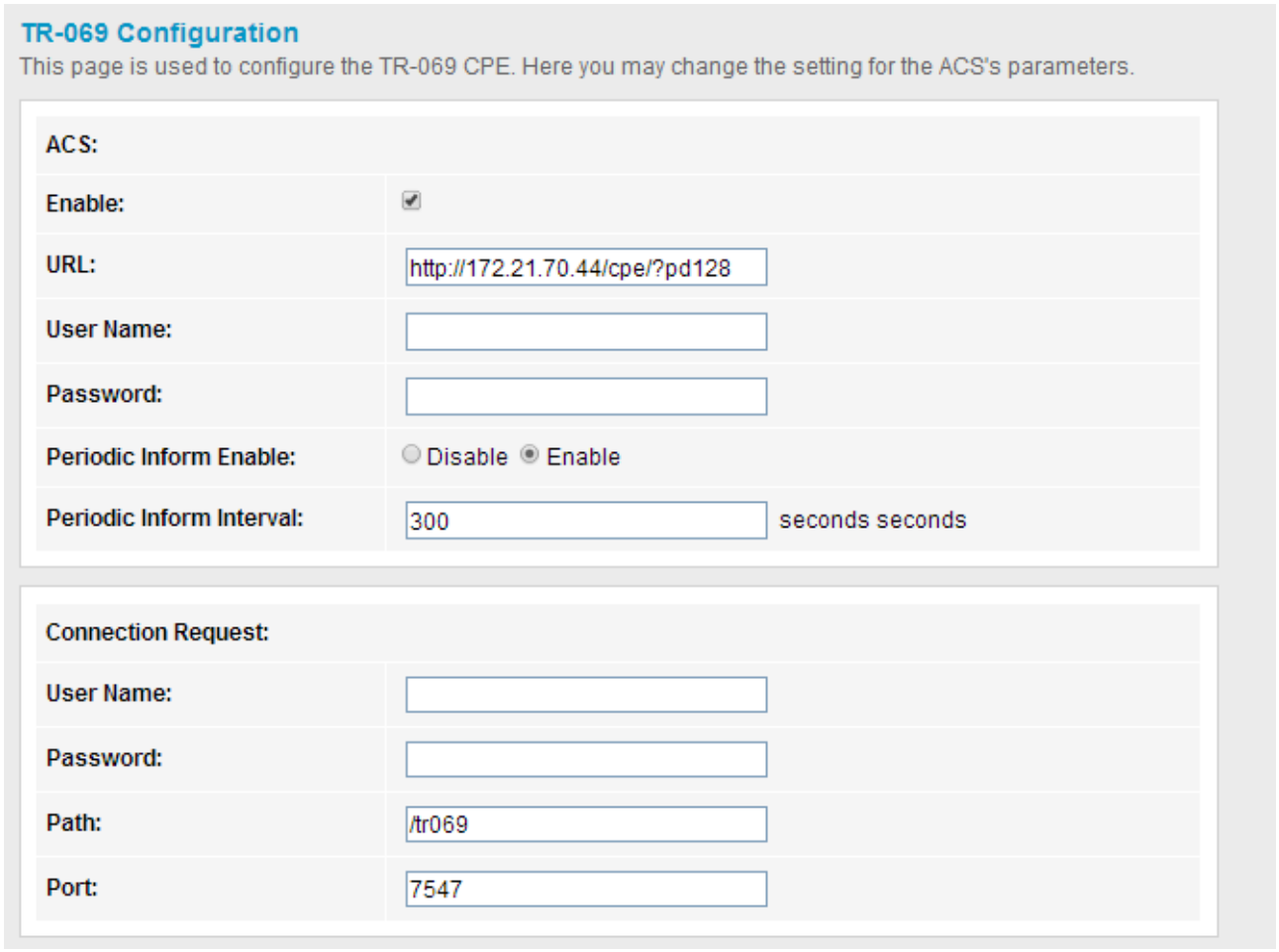
5.2.3.2 Traffic Shaping

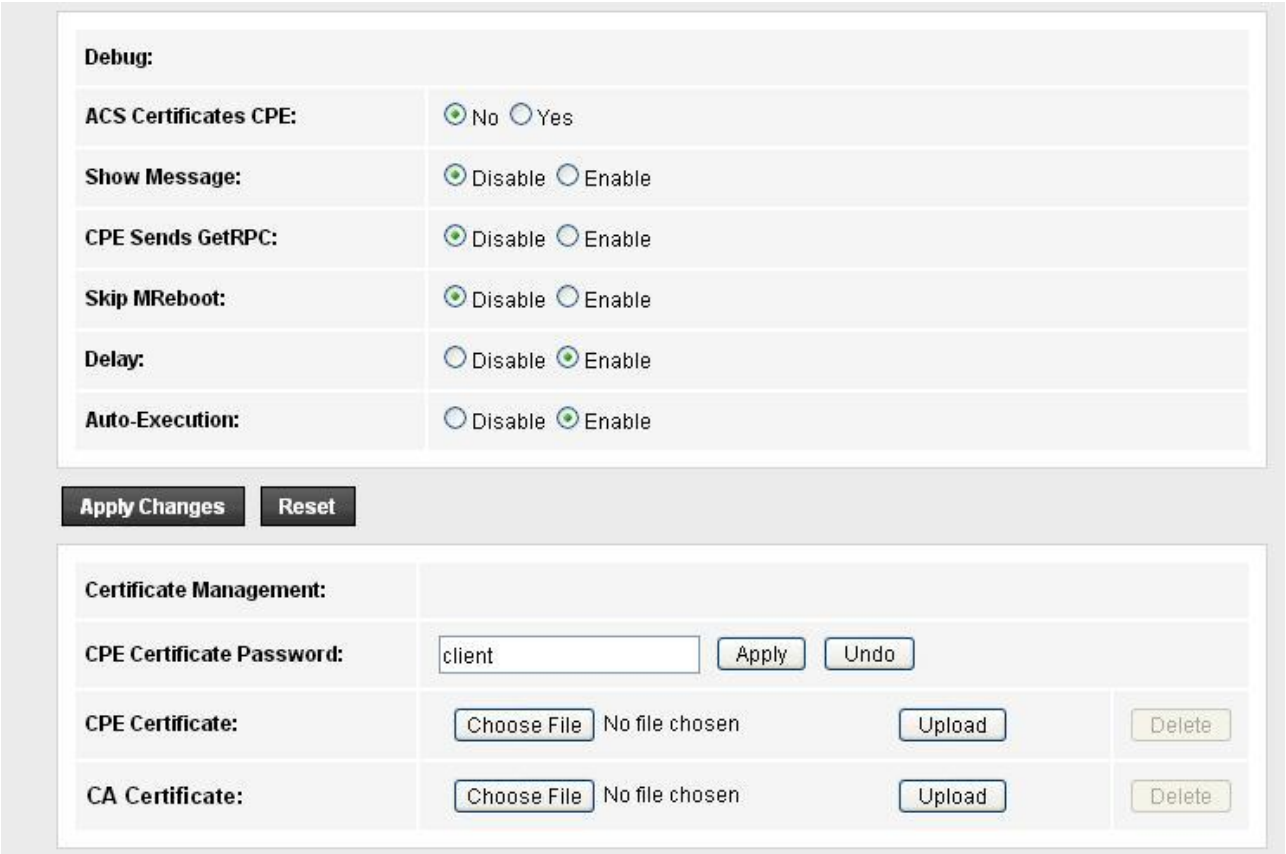
For better traffic control, you can setup upstream and downstream speeds in this page.



5.2.4 CWMP

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





ACS

URL: Enter the website of ACS which is provided by your ISP.

User Name: Enter the User Name to login the ACS server.

Password: Enter the password to login the ACS server.

Connection Request

User Name: Enter the User Name that provided by the ACS server to login the Modem Router.

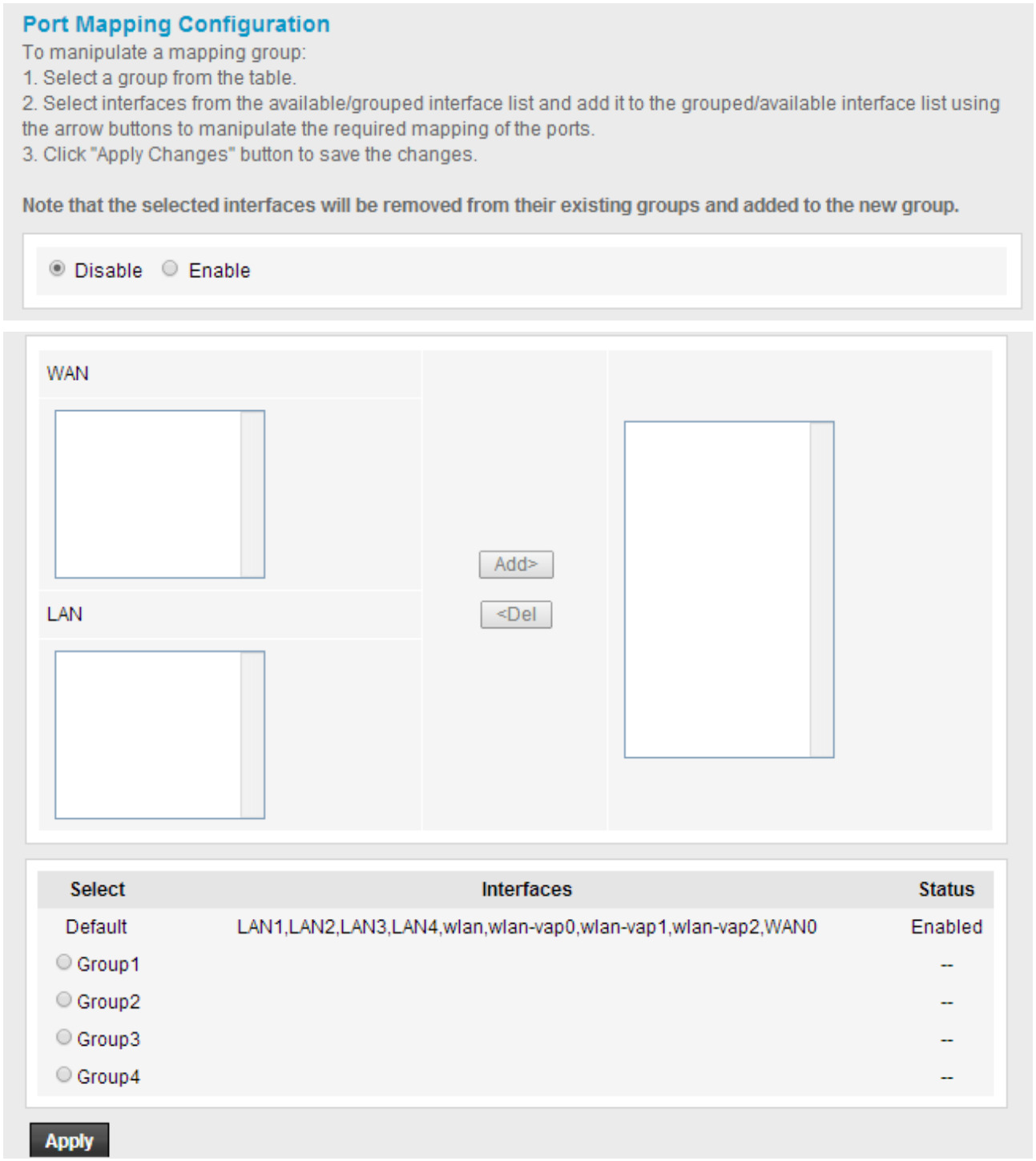
Password: Enter the password that provided by the ACS server to login the Modem Router.

Path: Enter the path that connects to the ACS server.

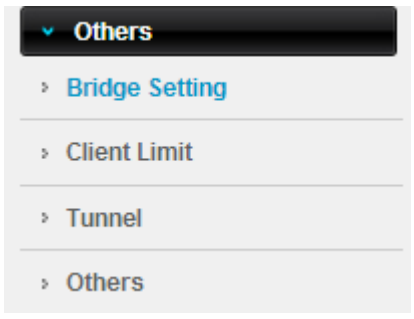
Port: Enter the port that connects to the ACS server.

5.2.5 Port Mapping

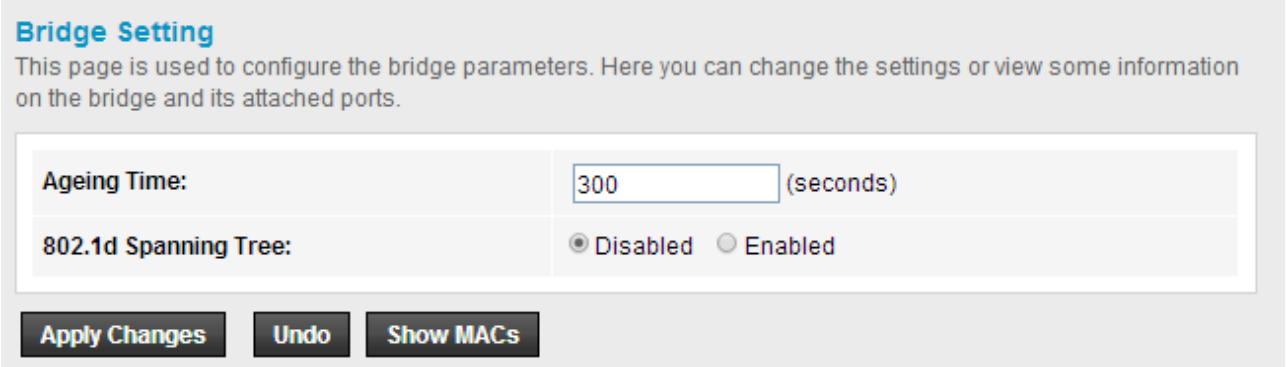
Port Mapping function allows a computer in a private network (behind a NAT router) to automatically configure the router to allow parties outside the private network to contact it.


Port Mapping Configuration
To manipulate a mapping group:
1. Select a group from the table.
2. Select interfaces from the available/grouped interface list and add it to the grouped/available interface list using the arrow buttons to manipulate the required mapping of the ports.
3. Click "Apply Changes" button to save the changes.
Note that the selected interfaces will be removed from their existing groups and added to the new group.
Disable
Enable
WAN
LAN
Add>
<Del
Select
Interfaces
Status
Default
LAN1,LAN2,LAN3,LAN4,wlan,wlan-vap0,wlan-vap1,wlan-vap2,WAN0
Enabled
Group1
--
Group2
--
Group3
--
Group4
--
Apply

5.2.6 Others


Others
Bridge Setting
Client Limit
Tunnel
Others

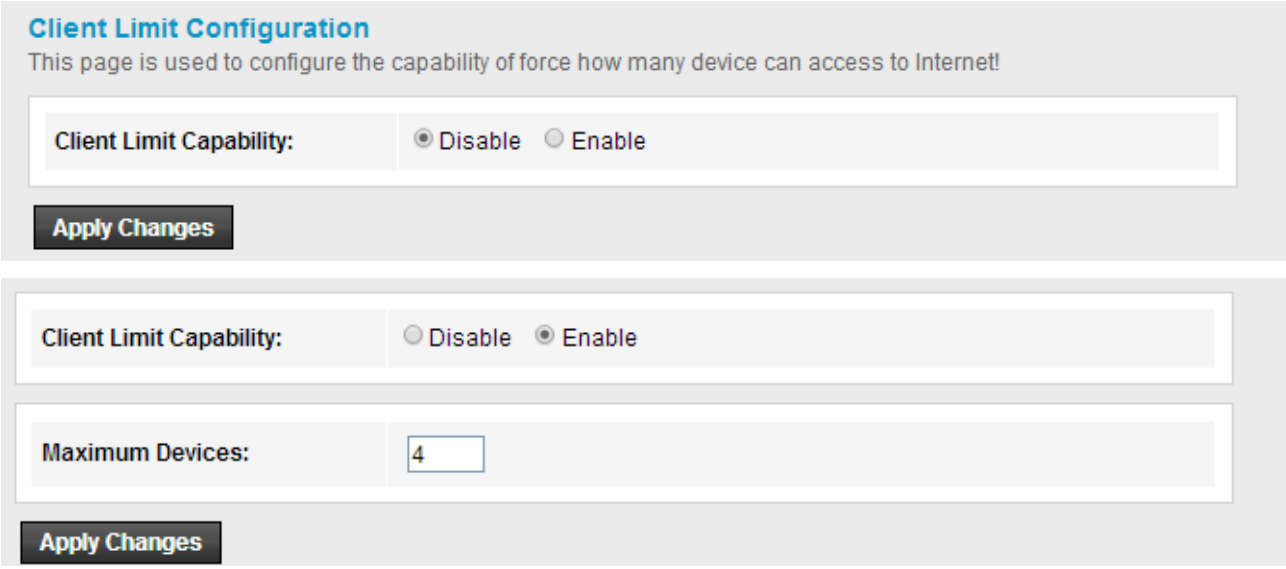
5.2.6.1 Bridge Setting



802.1d Spanning Tree: STP is implemented through the exchange of bridge protocol data unit (BPDU) messages between adjacent switches. It helps to ensure a loop-free topology for any bridged Ethernet local area network.

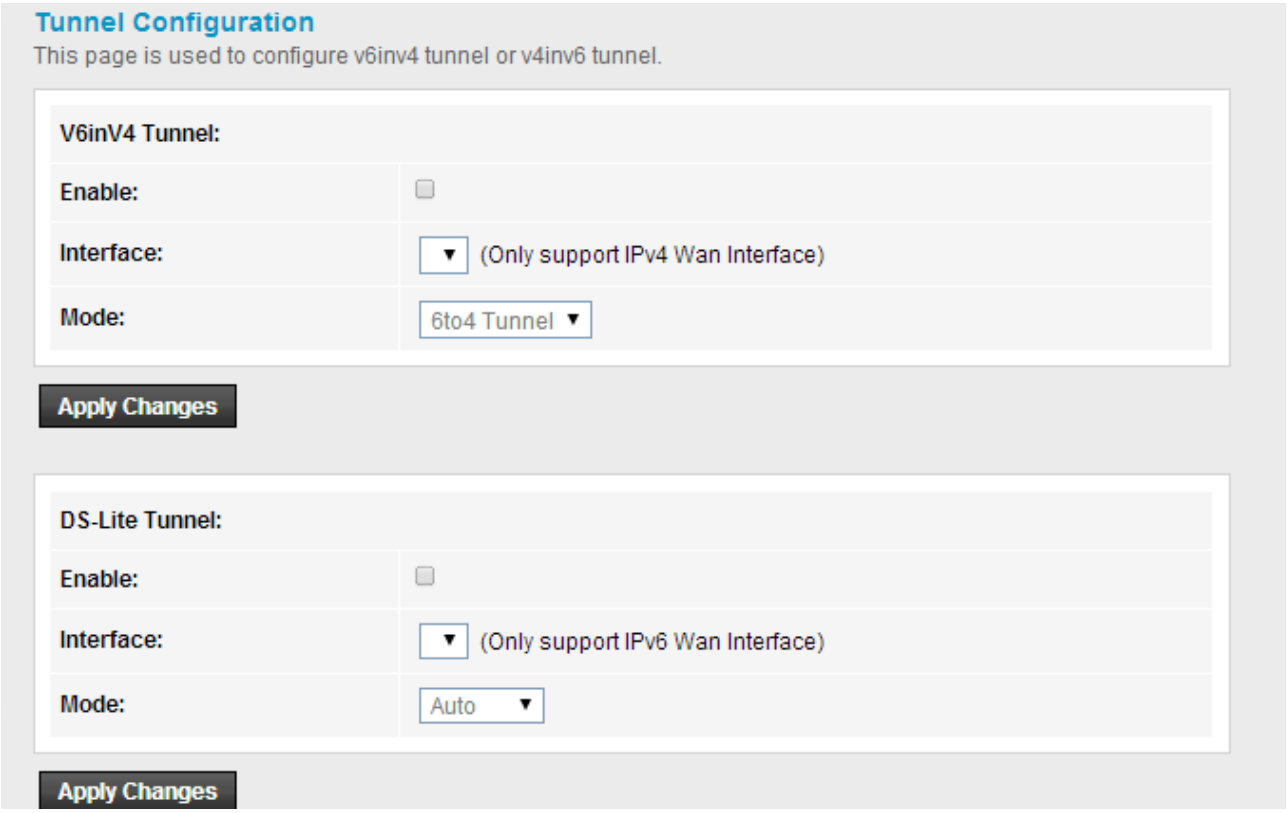
5.2.6.2 Client Limit

After enabled client limit capability, you can setup the maximum devices that are allowed to access to Internet.



5.2.6.3 Tunnel Configuration

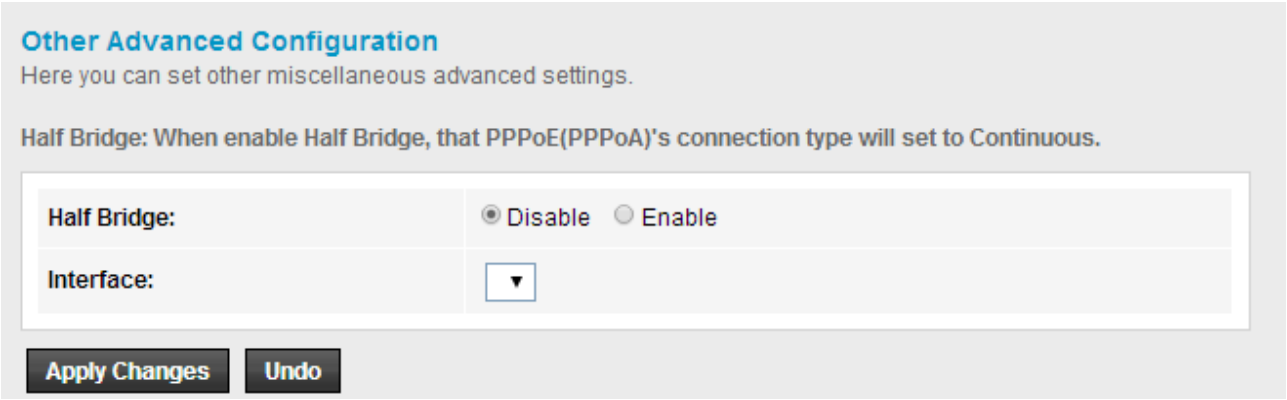
V6inv4 tunnel or v4inv6 tunnel can be configured in this page.



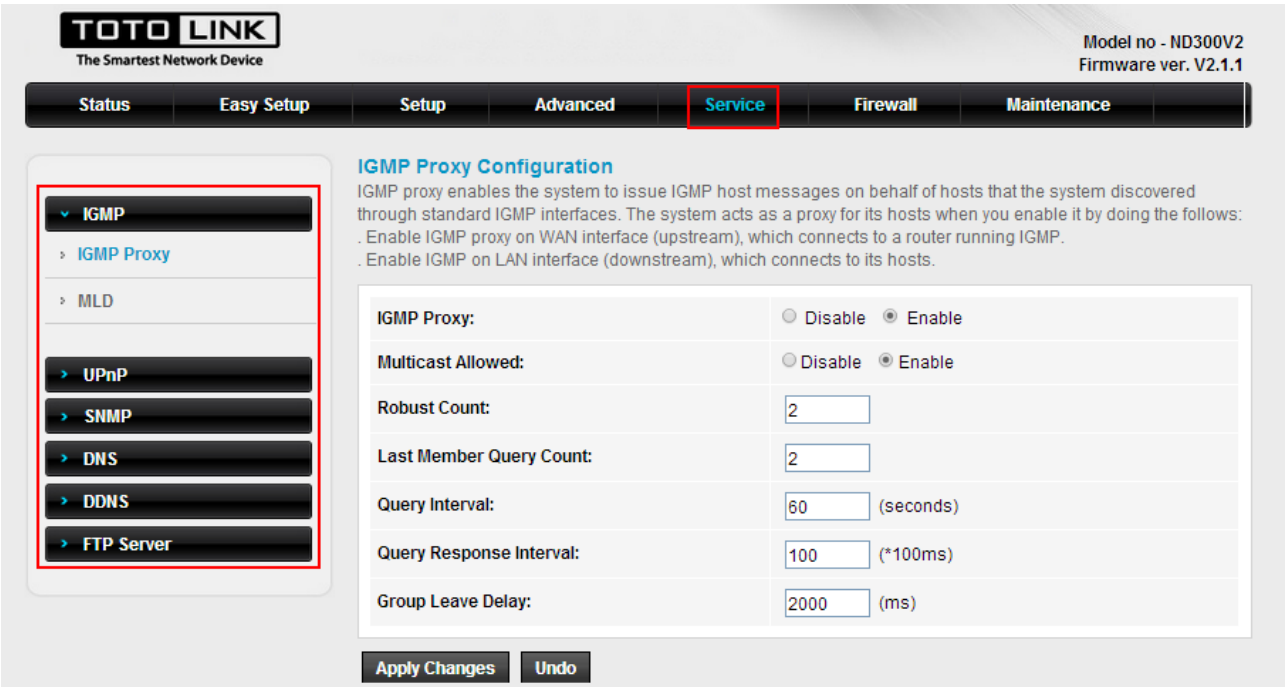
V6inV4 is an Internet transition mechanism for migrating from Internet Protocol version 4 (IPv4) to IPv6.

5.2.6.4 Others

In this page you can enable or disable half bridge.

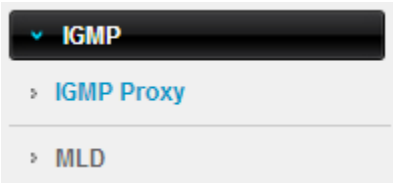


5.3 Service



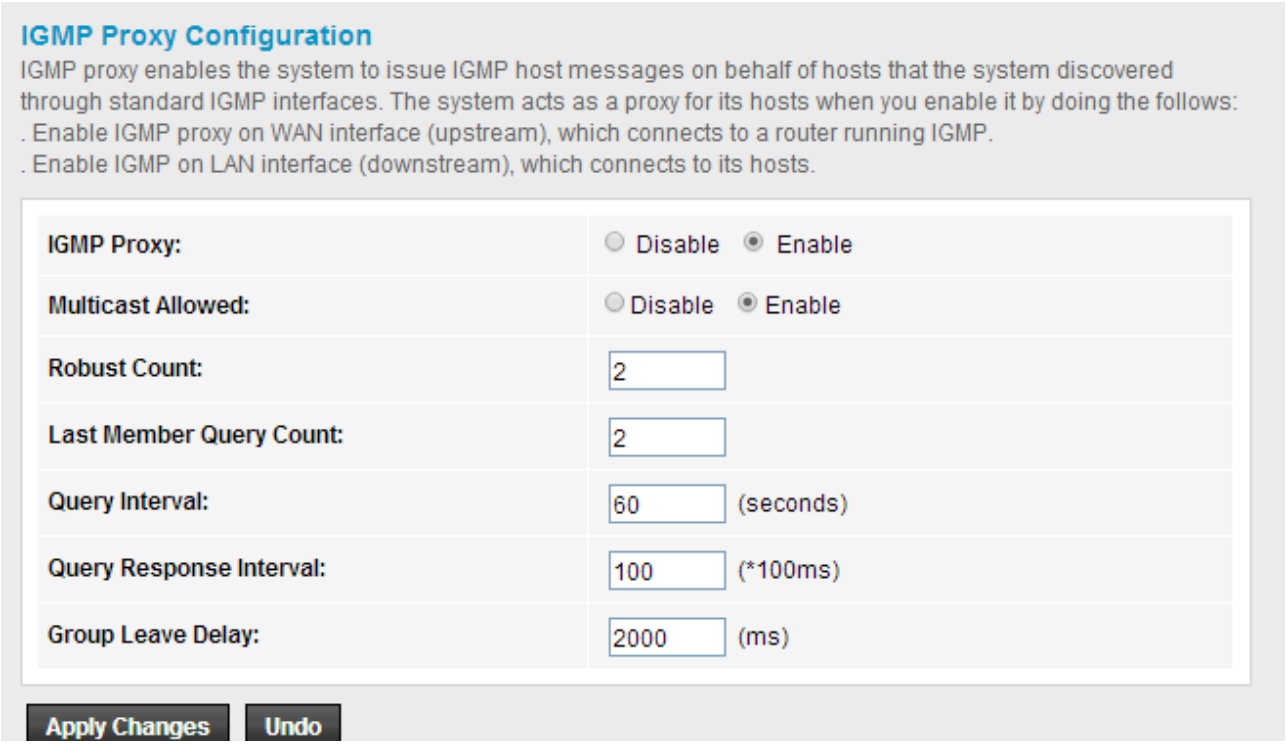
5.3.1 IGMP

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.



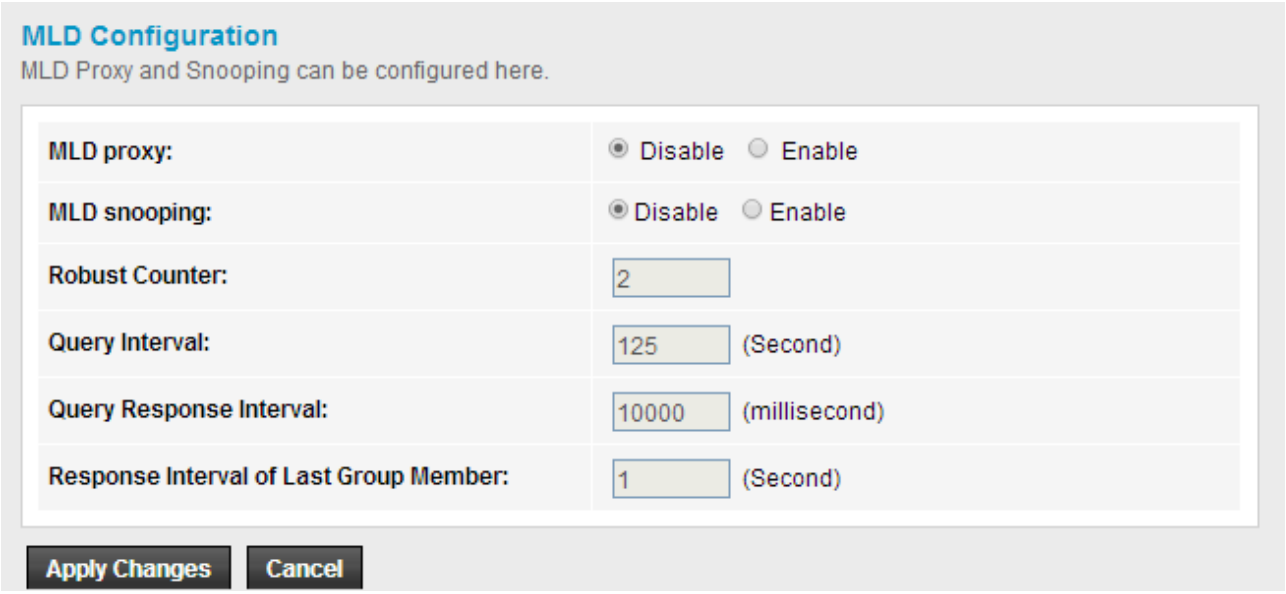
5.3.1.1 IGMP Proxy

IGMP Proxy and Multicast allowed can be configured in this page.



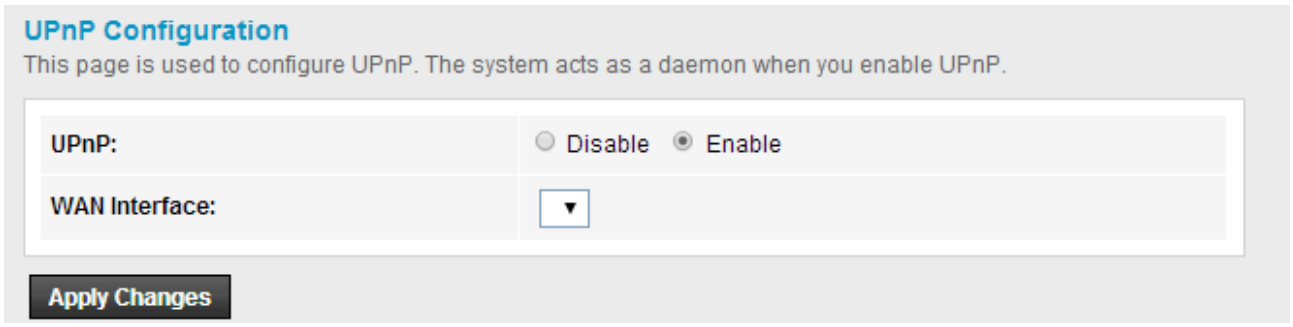
5.3.1.2 MLD

MLD (Multicast Listener Discovery), it allows the router to find out if there is an IPv6 multicast group listeners on their directly connected network segments.



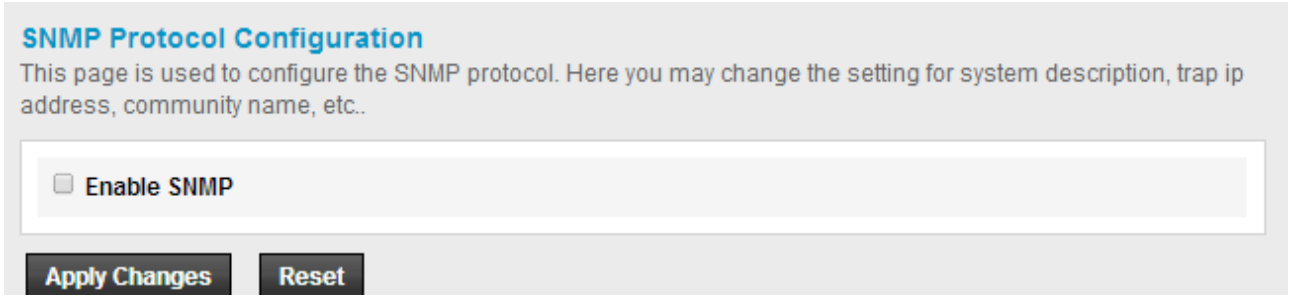
5.3.2 UPnP

The Universal Plug and Play (UPnP) devices can be automatically discovered by the UPnP service application on the LAN.



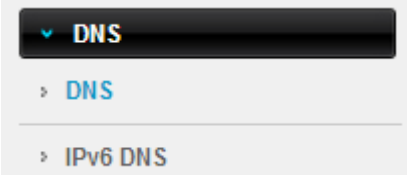
5.3.3 SNMP

Simple Network Management Protocol (SNMP) is an "Internet-standard protocol for managing devices on IP networks". It is used mostly in network management systems to monitor network-attached devices for conditions that warrant administrative attention.



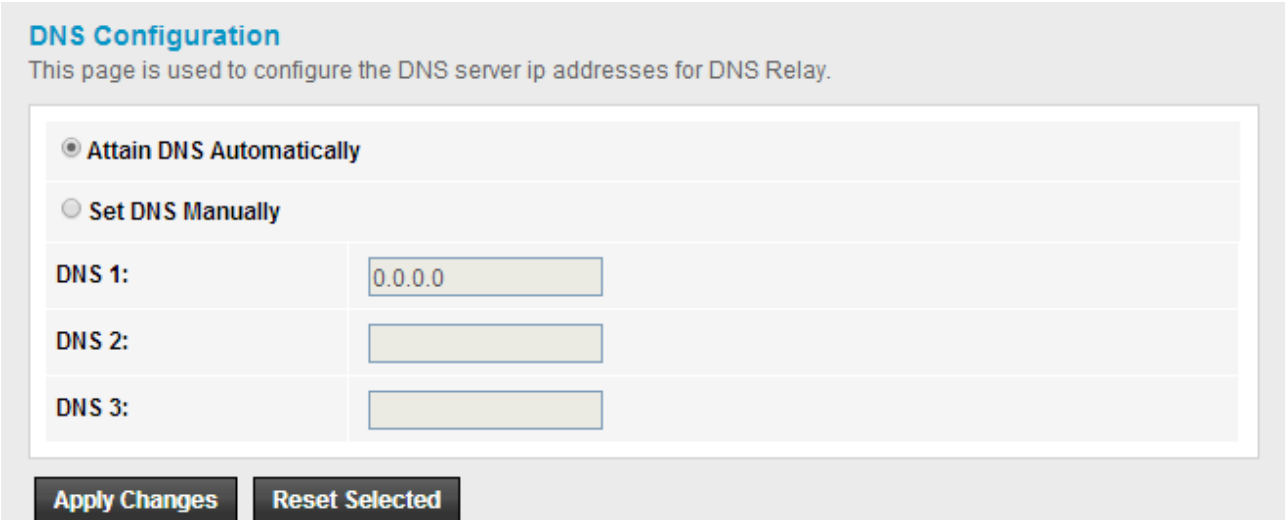
System Name/ Location: set the administrator name and physical location.

5.3.4 DNS



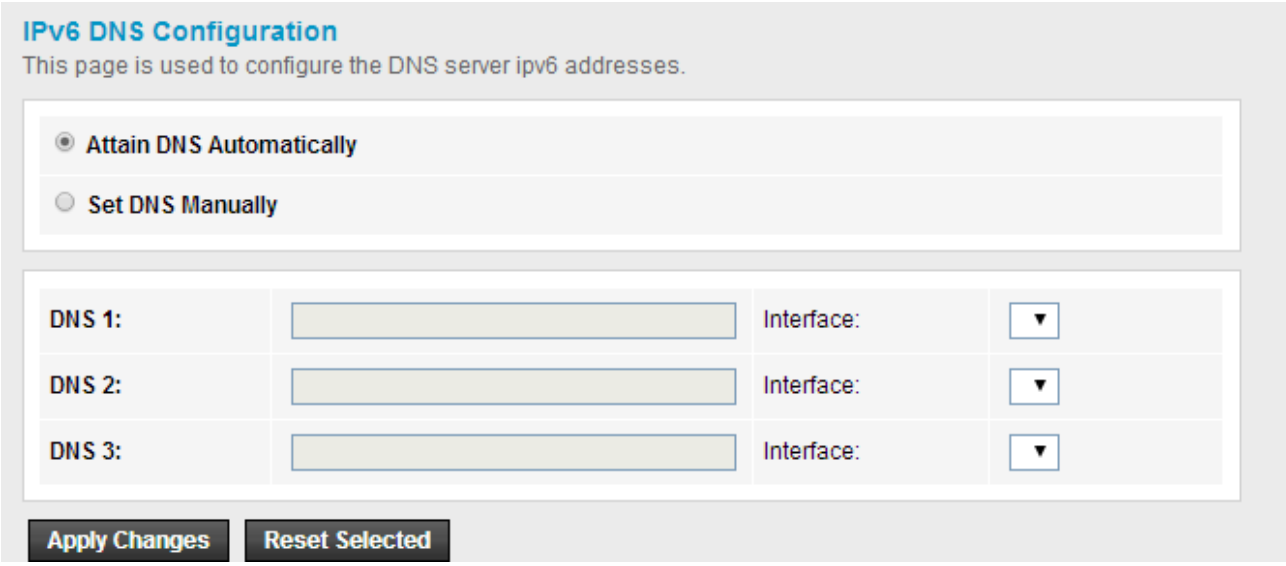
5.3.4.1 DNS

DNS: Domain Name System. Every Internet host must have a unique IP address, also they may have a human-friendly, easy to remember name. The DNS server converts the user-friendly name into its equivalent IP address.



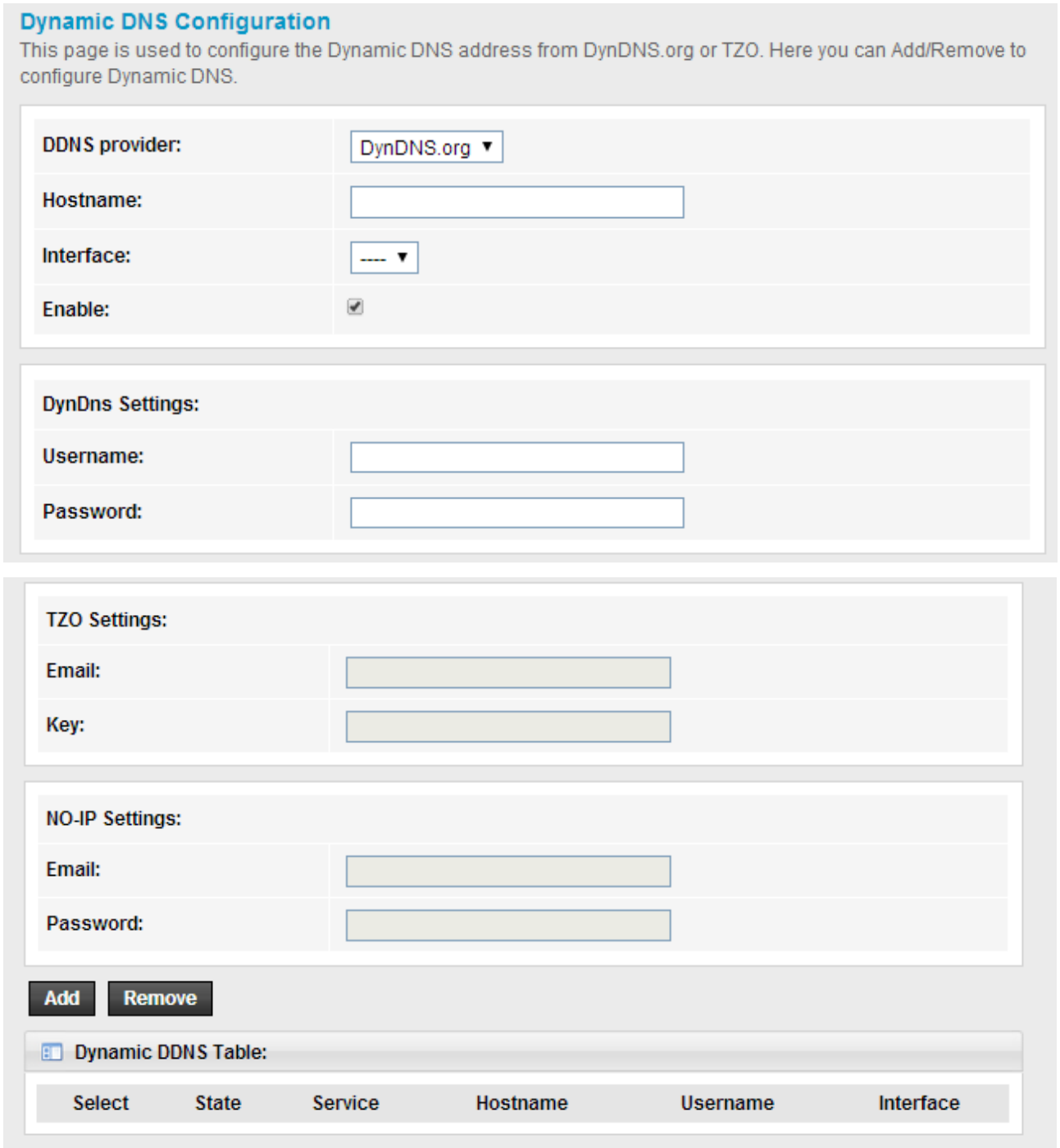
5.3.4.2 IPv6 DNS

This page allows you to configure the DNS server IPv6 address.

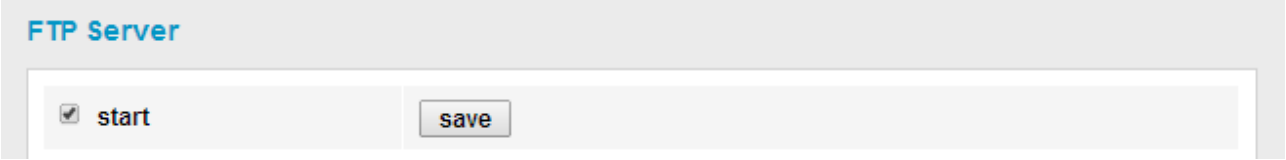


5.3.5 DDNS

DDNS means Dynamic Domain Name System. The ISP often provides you with a dynamic IP address when you connect to the Internet via your ISP. It means that the public IP address assigned to your router changes each time you access the Internet. The Dynamic DNS feature lets you assign a domain name to a dynamic WAN IP address.
Before you user the Dynamic DNS feature, you have to apply for free DDNS service to the DDNS service providers.

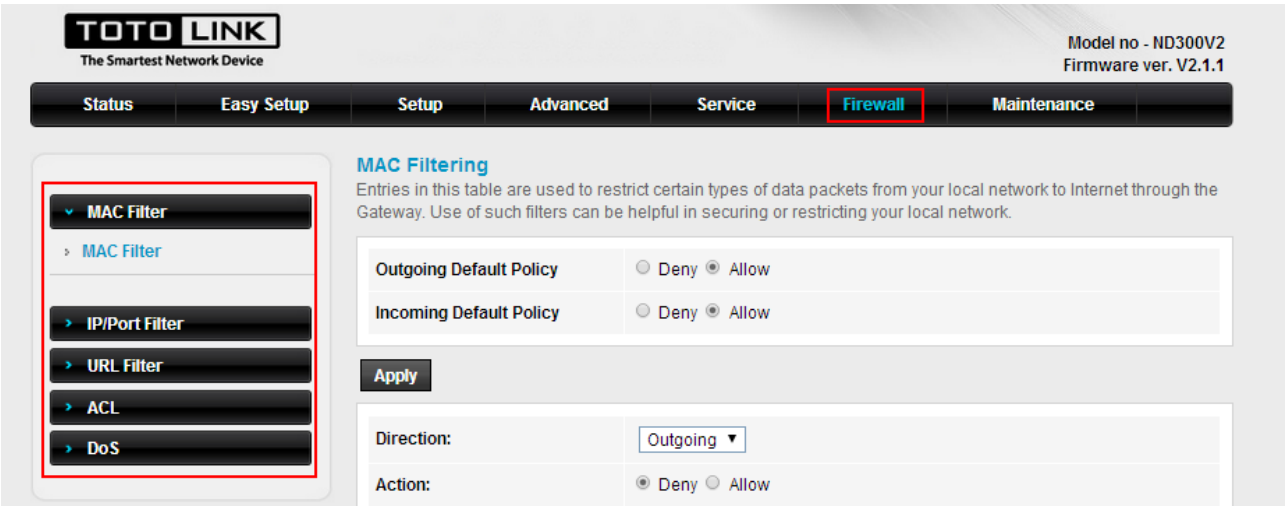


5.3.6 FTP Server



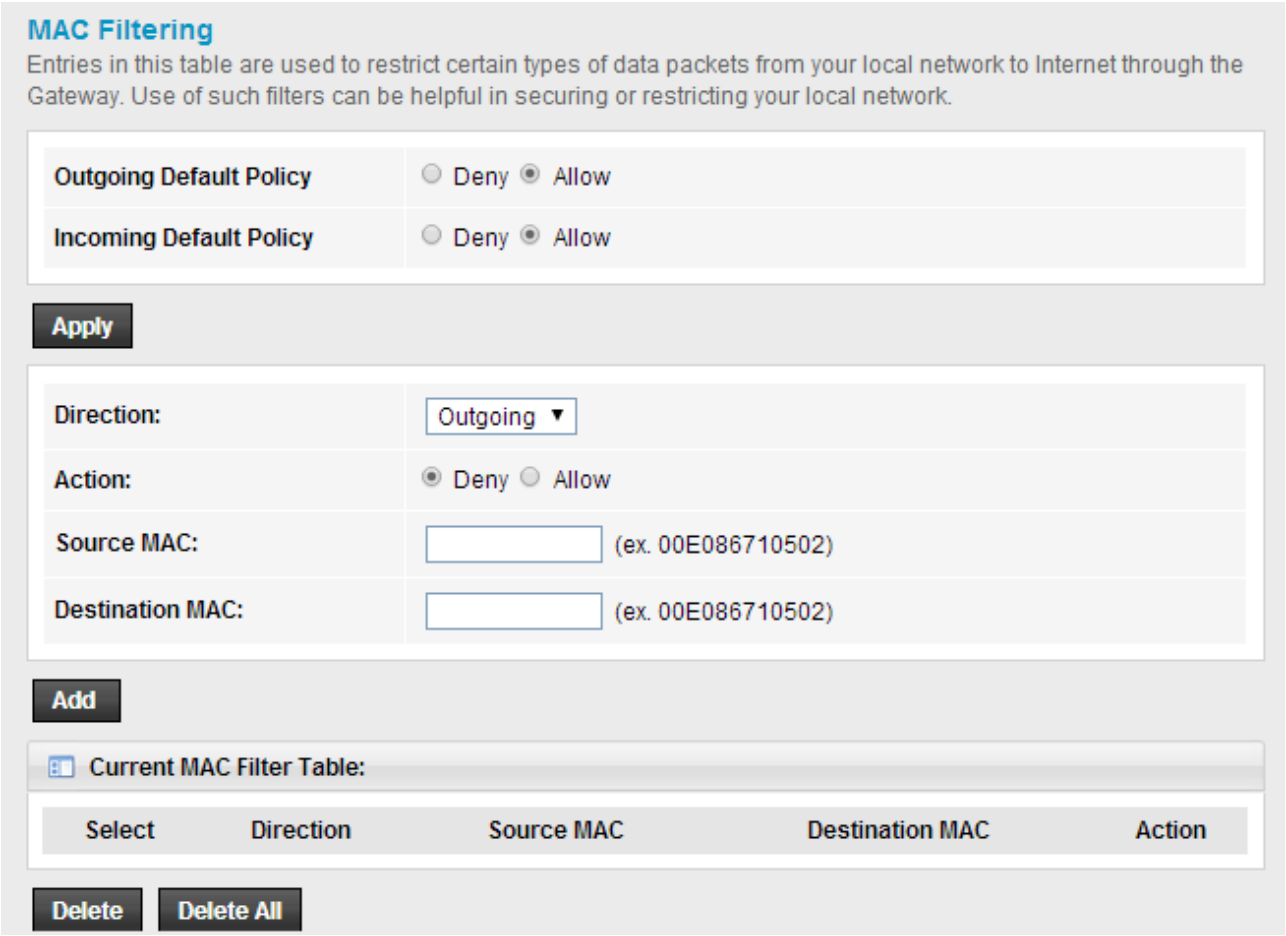
5.4 Firewall

While the broadband users demand more bandwidth for multimedia, interactive applications, or distance learning, security has been always the most concerned. The firewall of this router helps to protect your local network against attack from unauthorized access.



5.4.1 MAC Filter

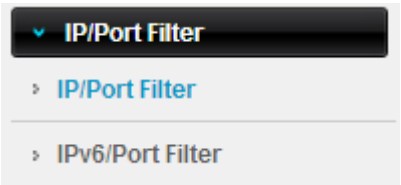
MAC Filter function is useful for restricting certain types of data packets from your local network to Internet through the Gateway.



Direction: select outgoing or incoming to setup the corresponding value.
Source MAC: enter the starting IP address that you want to deny or allow.

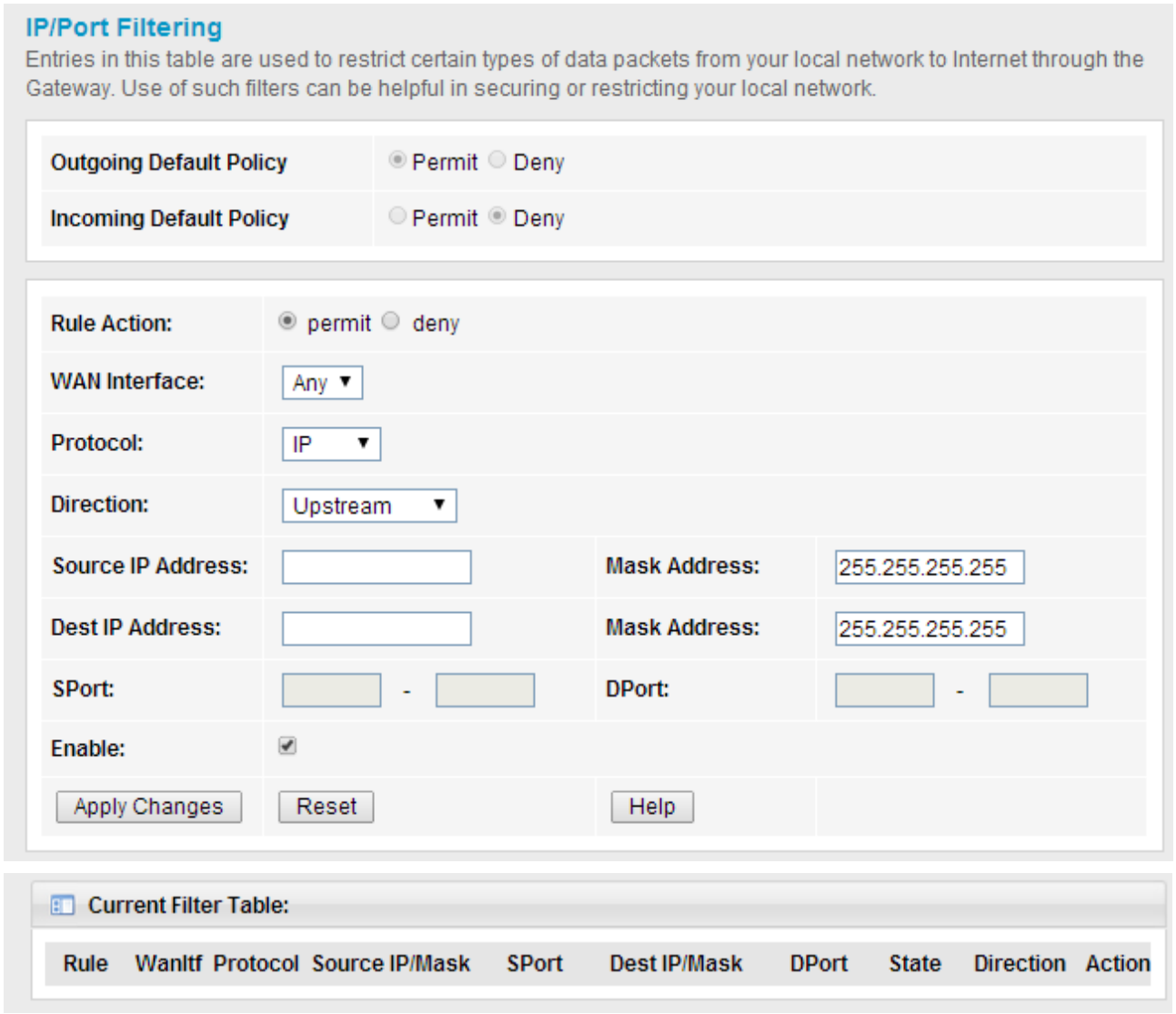
Destination MAC: enter the ending IP address that you want to deny or allow.

5.4.2 IP/Port Filter



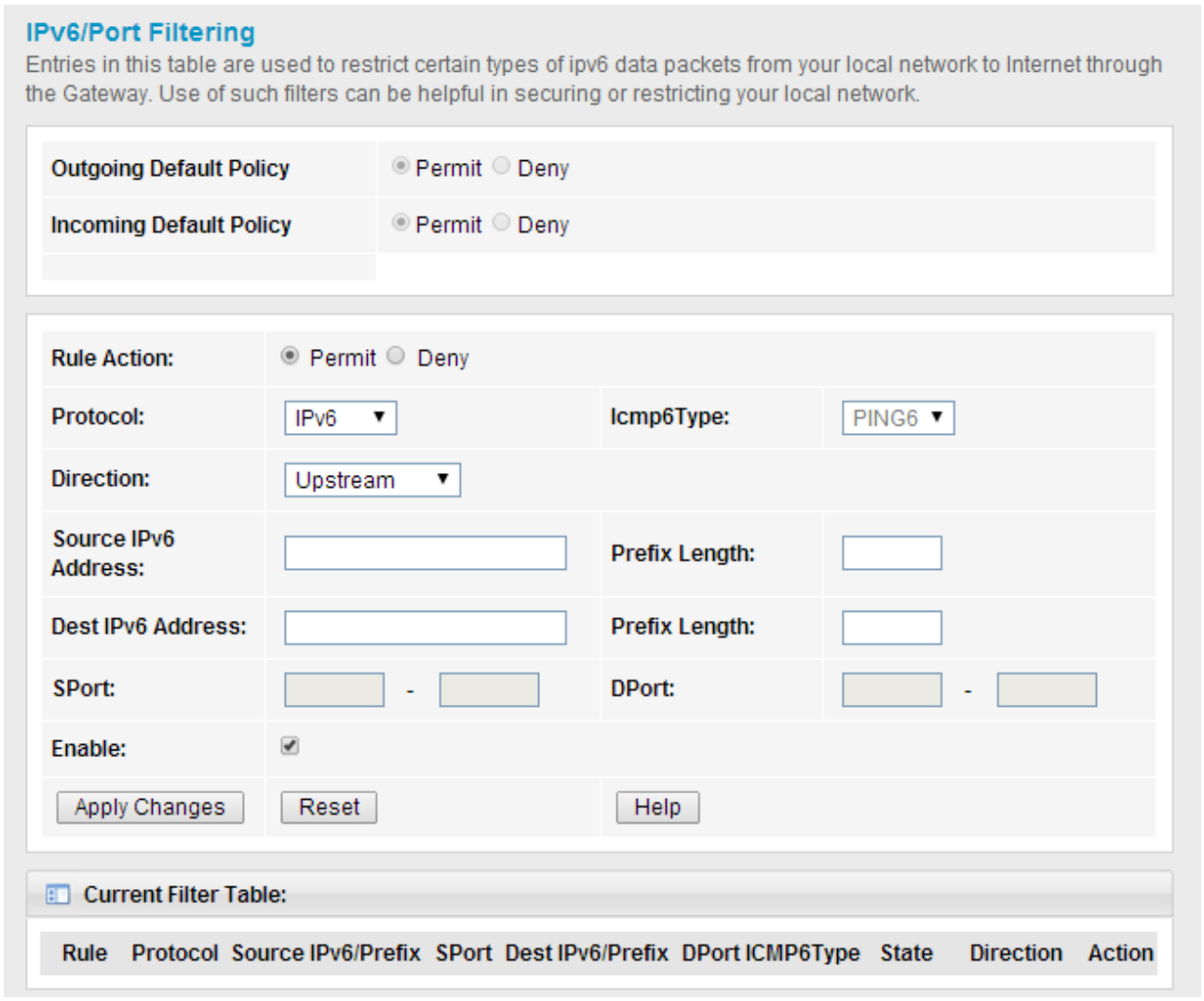
5.4.2.1 IP/Port Filter

This page is used to set IP/Port filter rule.



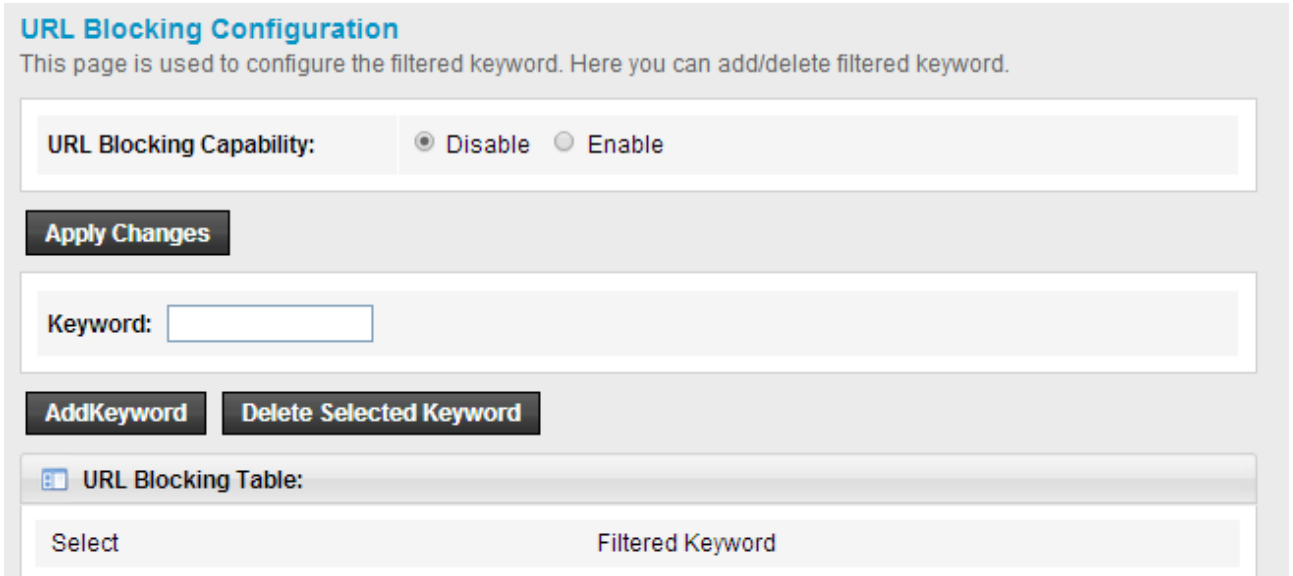
5.4.2.2 IPv6/Port Filter

This page is used to set IPv6/Port filter rule.



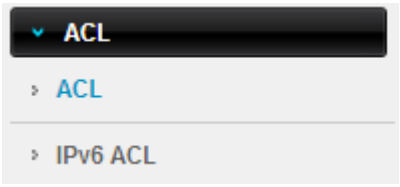
5.4.3 URL Filter

This page is used to set URL filter rule. You can active this function and enter URL links that want to filter.

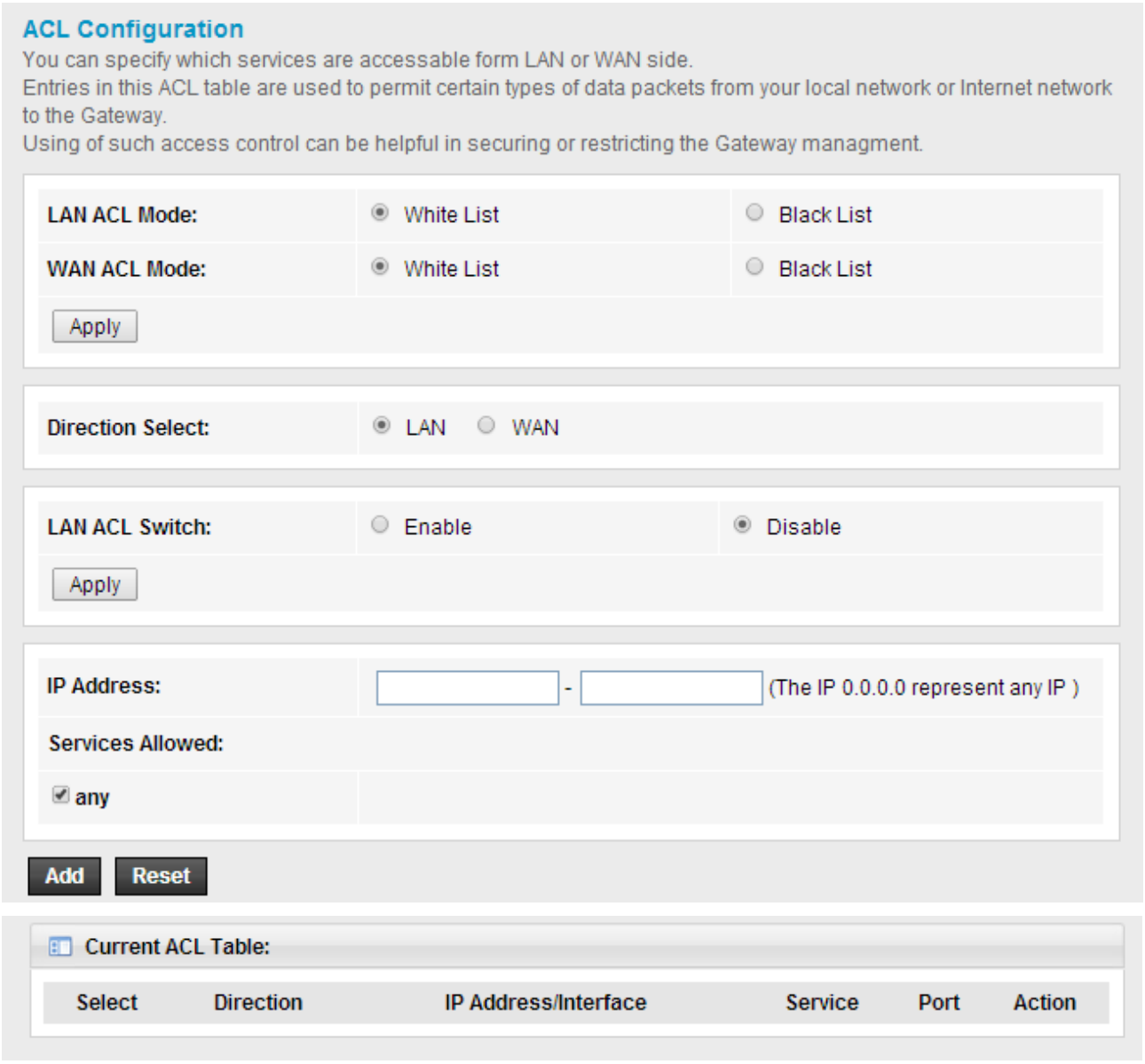


5.4.4 ACL

ACL means Access Control List. This page is used to control the access of this Modem Router.



5.4.4.1 ACL

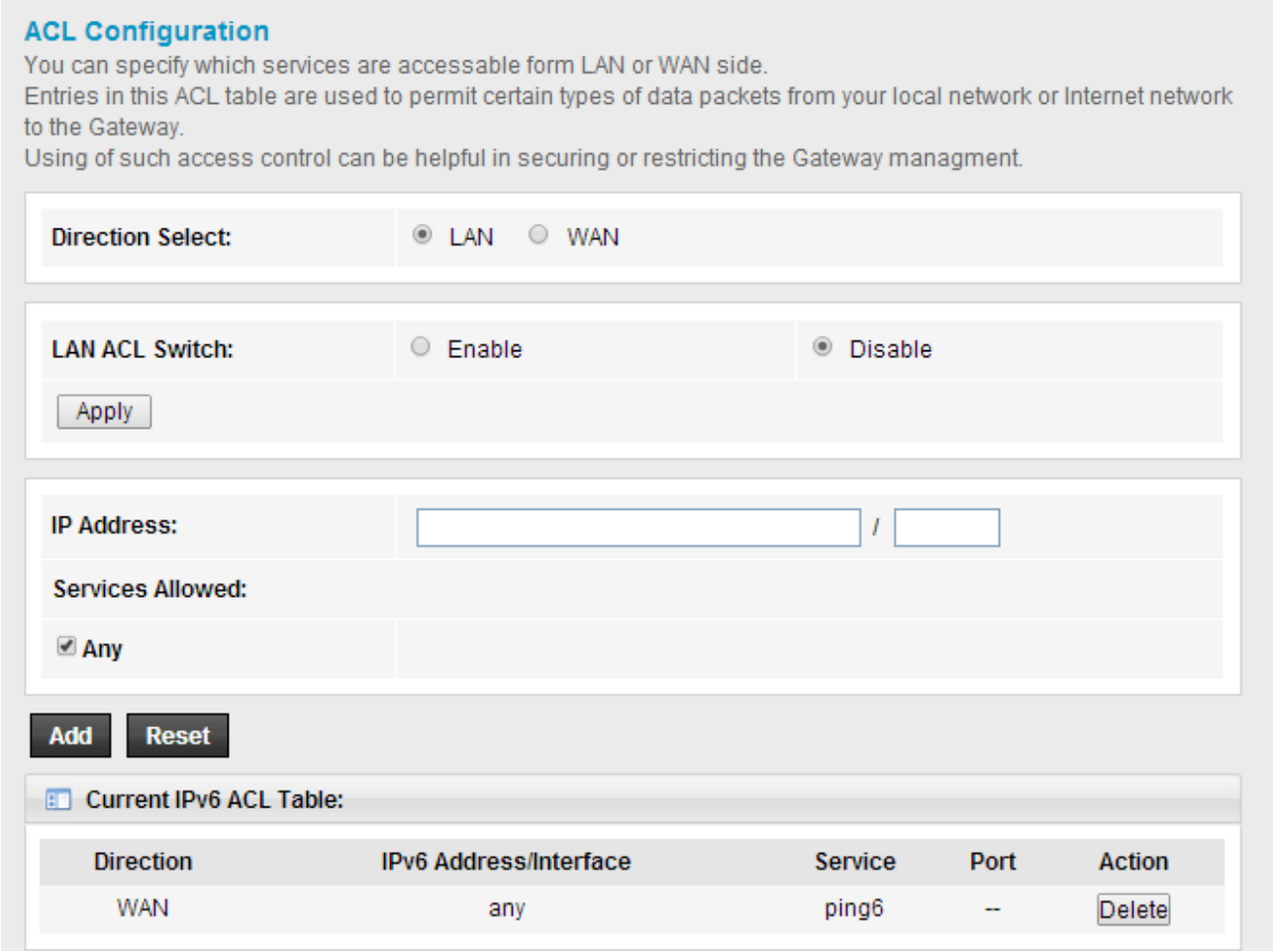


Direction Select: Set the ACL rule for LAN or WAN.

Secure IP Address: Enter the secure IP address range that you allow to access this Modem Router.

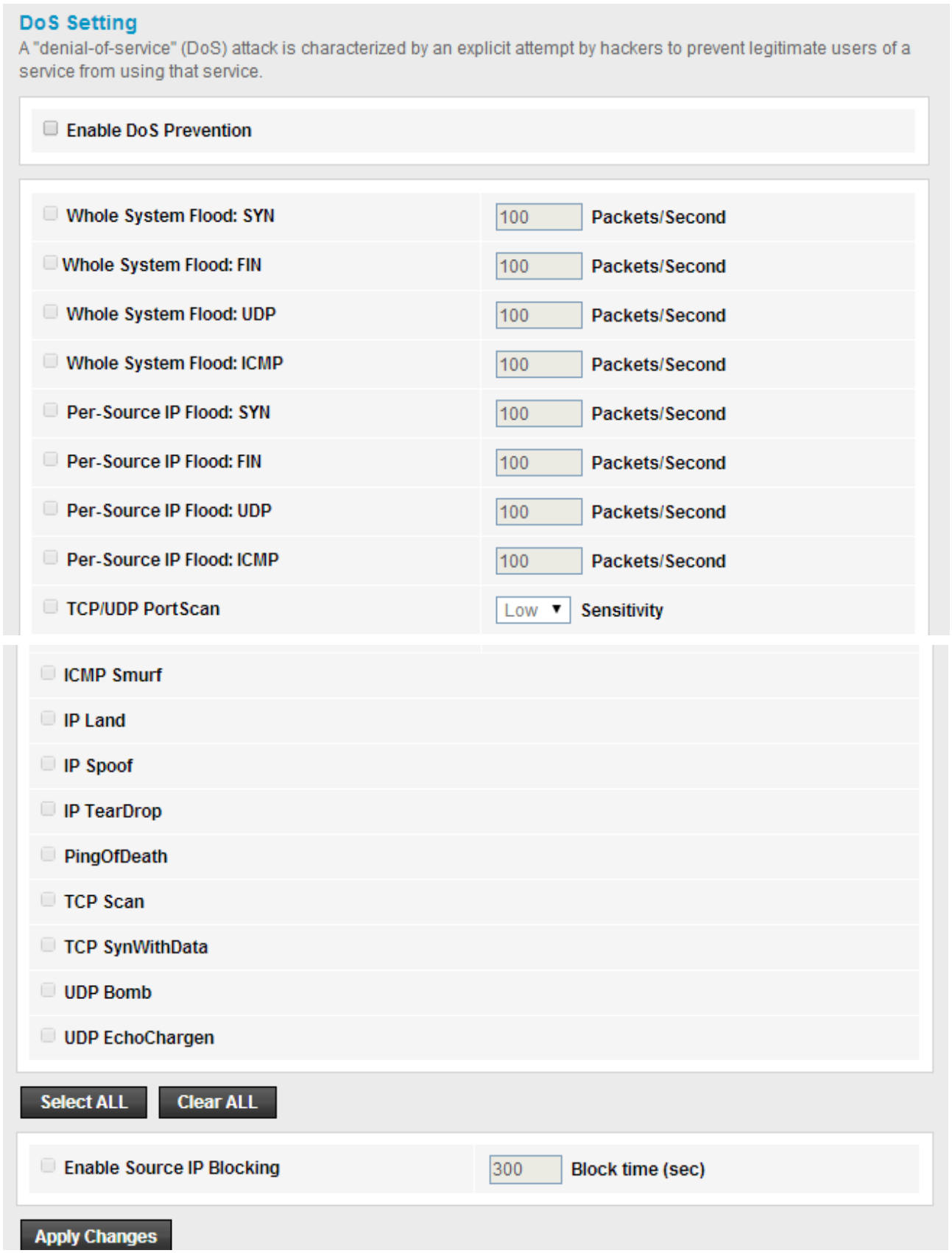
Current ACL Table: This form lists all information about the current ACL rule.

5.4.4.2 IPv6 ACL



5.4.5 DoS

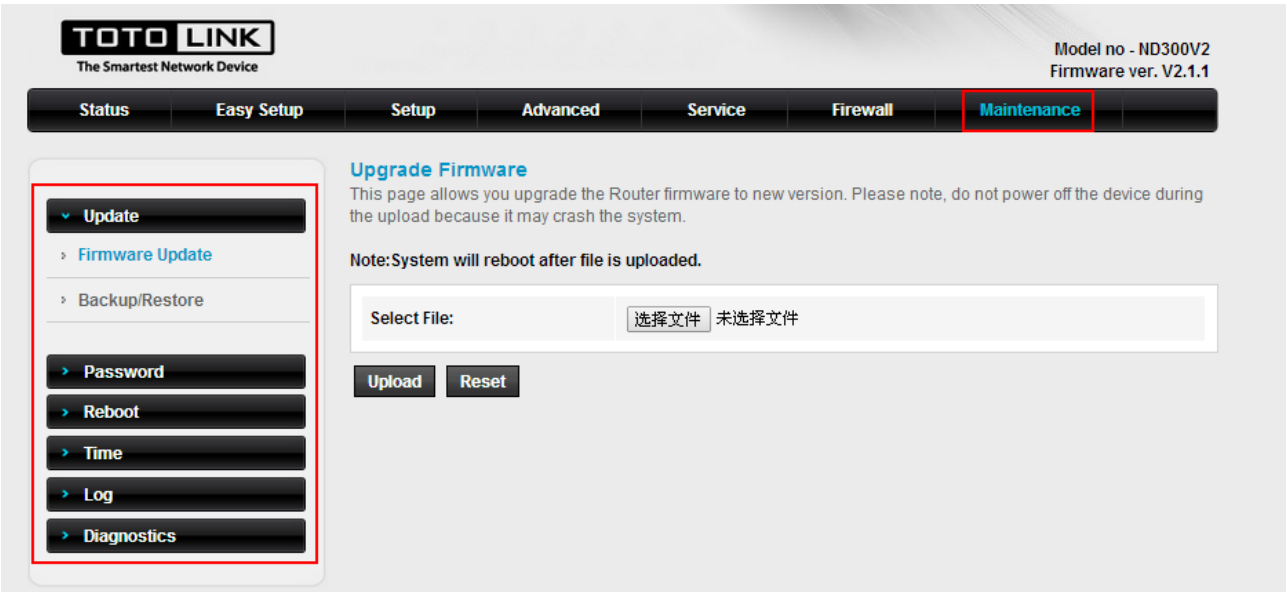
The DoS Prevention functionality helps you to detect and mitigate the DoS attack. The attacks are usually categorized into two types, the flooding-type attacks and the vulnerability attacks. The flooding-type attacks will attempt to exhaust all your system's resource while the vulnerability attacks will try to paralyze the system by offending the vulnerabilities of the protocol or operation system.



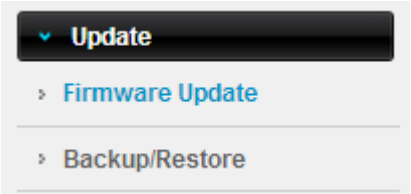
5.5 Maintenance

This section includes settings for Administration, Time Zone, Firmware, Log and

Diagnostics.



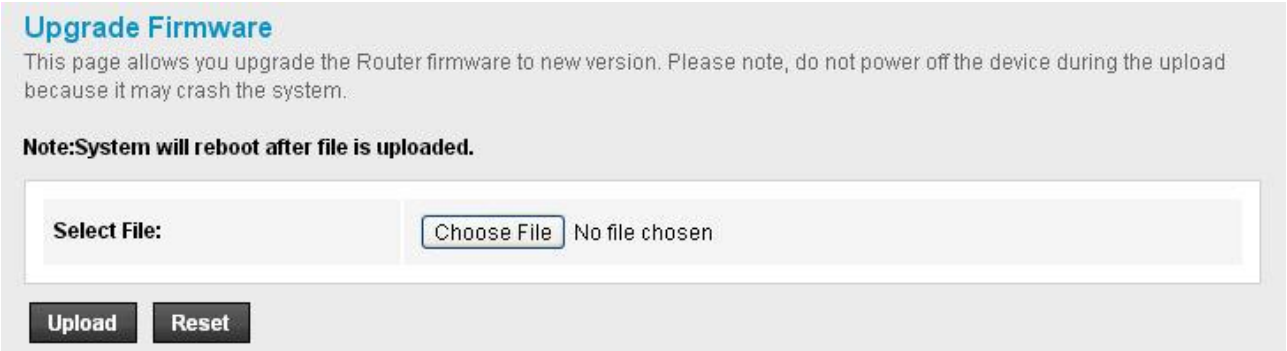
5.5.1 Update



5.5.1.1 Firmware Update

New version of firmware will be released to improve the various efficiency or to fix some bugs. Following the steps show below so as to realize upgrading. This page allows you to upgrade the Access Point firmware to new version.

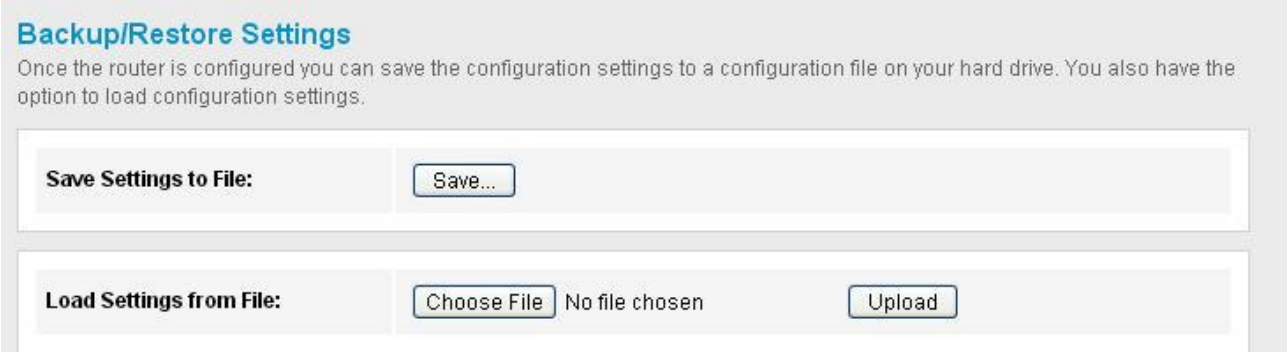
Please note: DO NOT power off the device during the upload because it may crash the system.



5.5.1.2 Backup/Restore

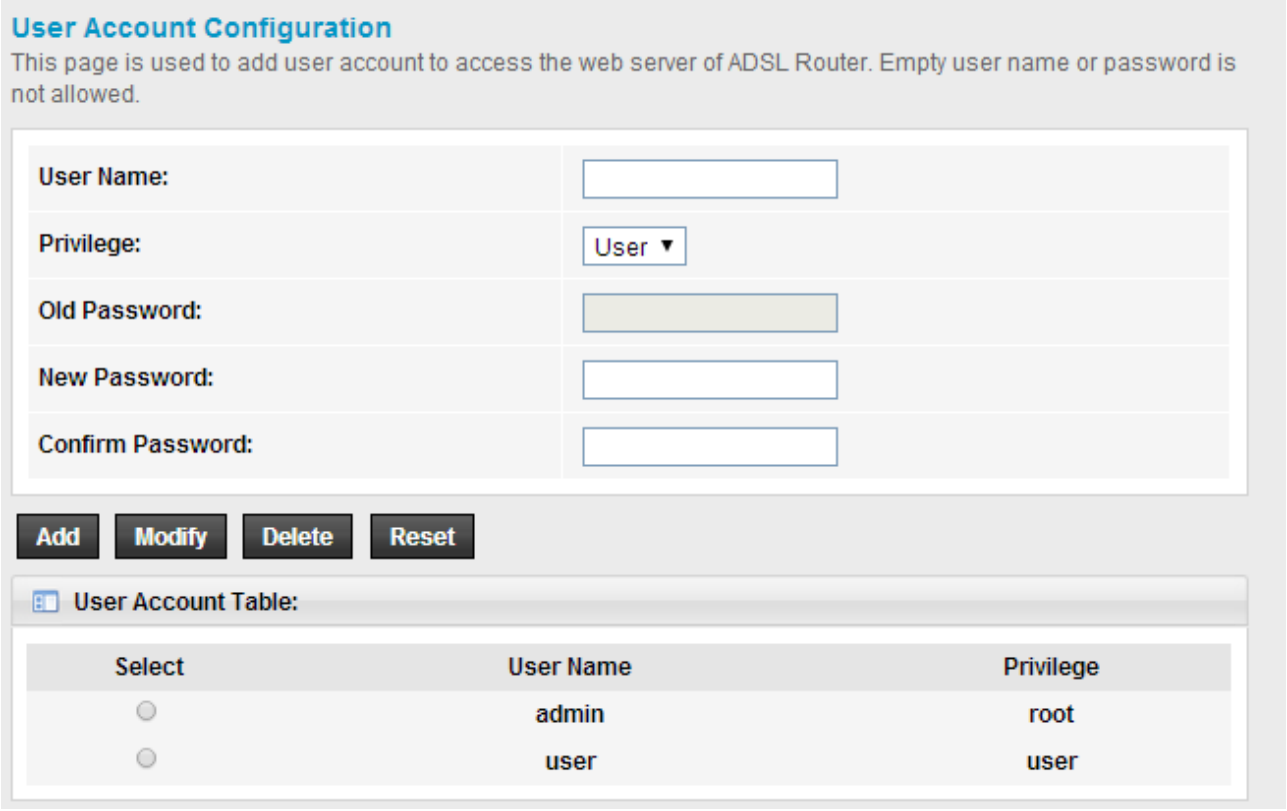
This webpage allows you to save current settings to a file and reload the settings from the file

which was saved previously. Besides, you could reset the current configuration to factory default.



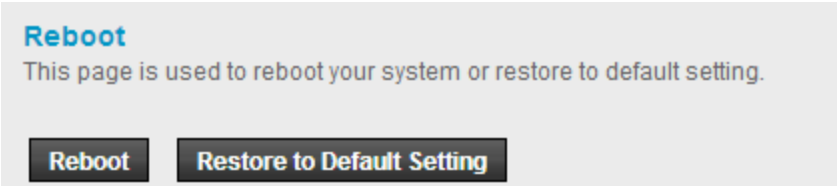
5.5.2 Password

In this section you can modify the administrator password to protect your device from unauthorized configuration. The default administrator's password should be changed on the very first system setup.



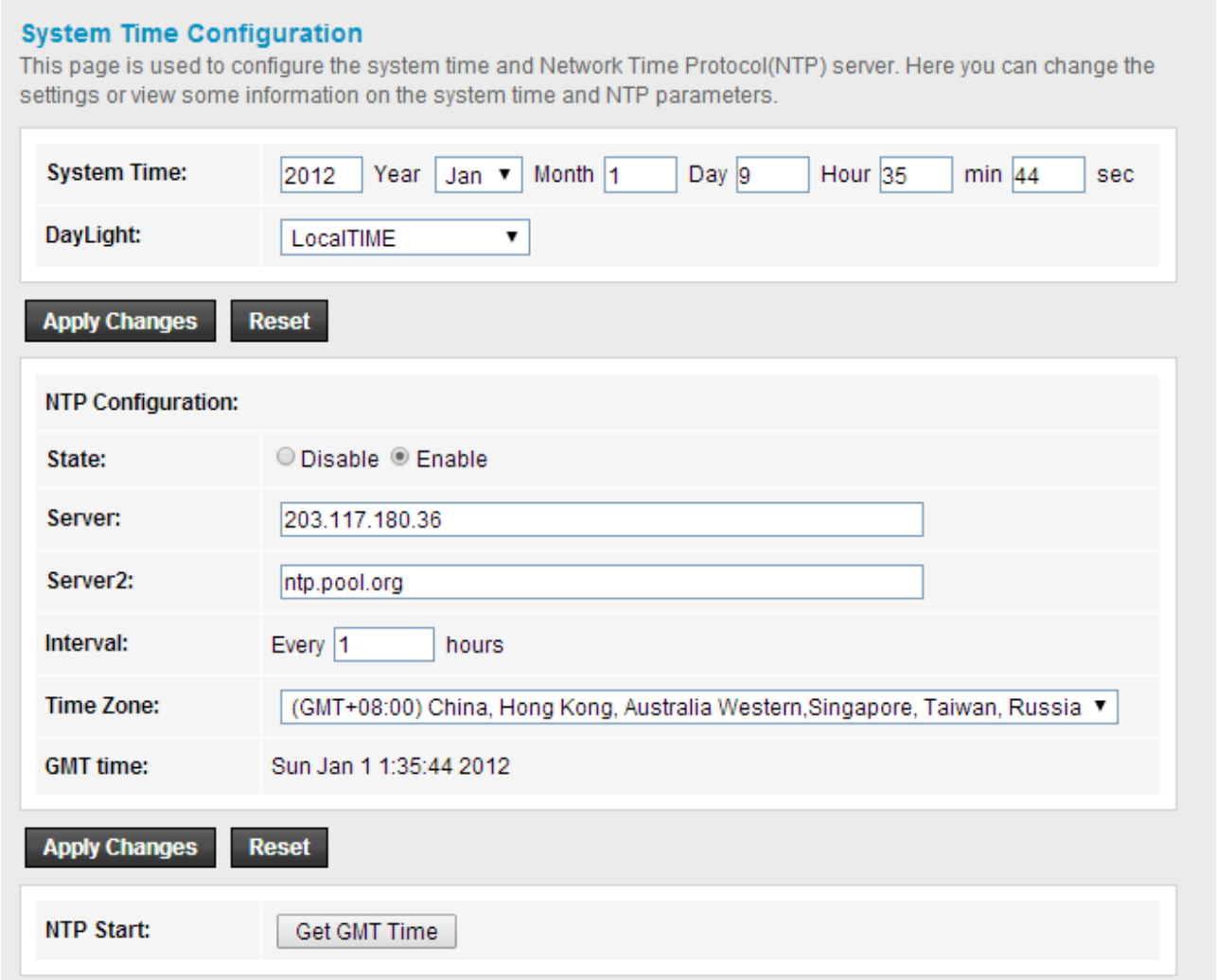
5.5.3 Reboot

You can just click **Reboot** to restore the router to default factory setting.



5.5.4 Time

You can set the time server and time zone for your wireless Router system time.



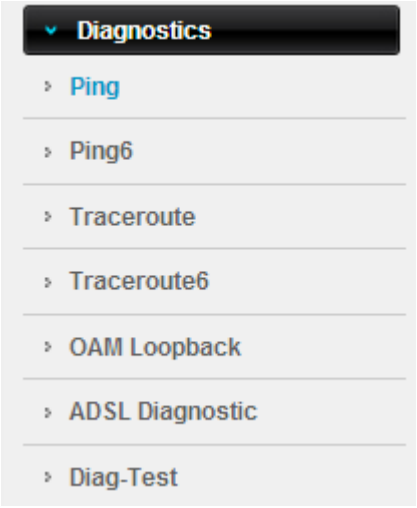
You can specify the device's time zone according to GMT (Greenwich Mean Time) or copy computer time as the current time only by clicking the **Copy Computer Time** button.
Time Zone Select: Select the Time Zone where the router is located.
SNTP server: Please choose the corresponding SNTP server to get right time.

5.5.5 Log

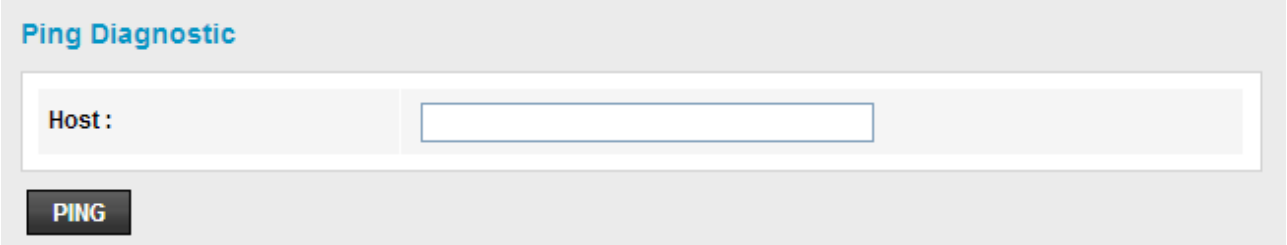
Log page shows the working status of the wireless router, user can check the running status information here:

5.5.6 Diagnostics

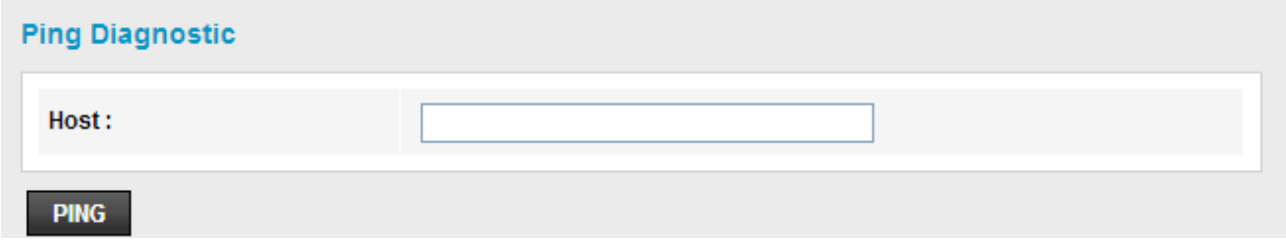
This section is useful for testing unless you know what effect the configuration will have on your wireless router.



5.5.6.1 Ping

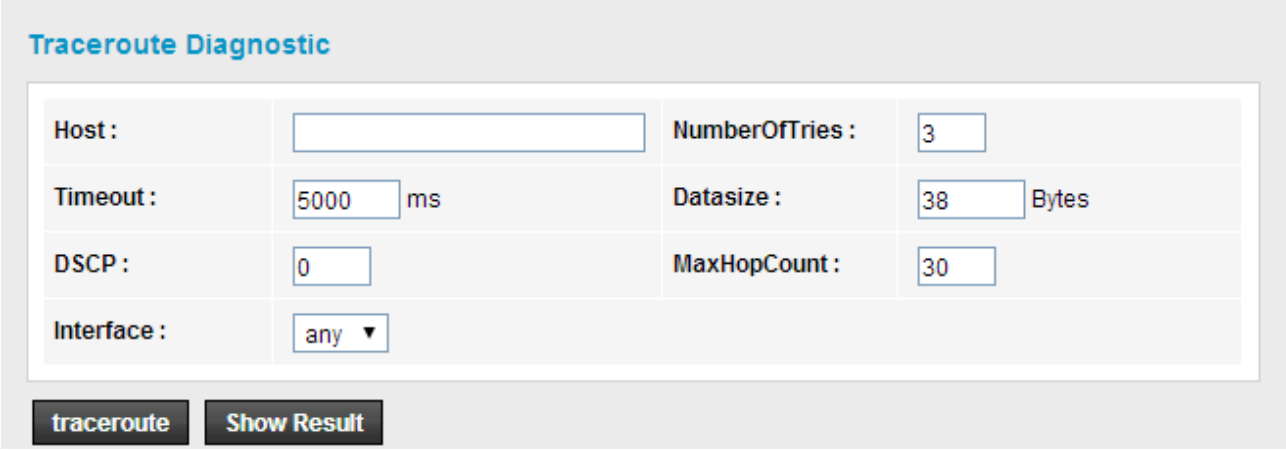


5.5.6.2 Ping6



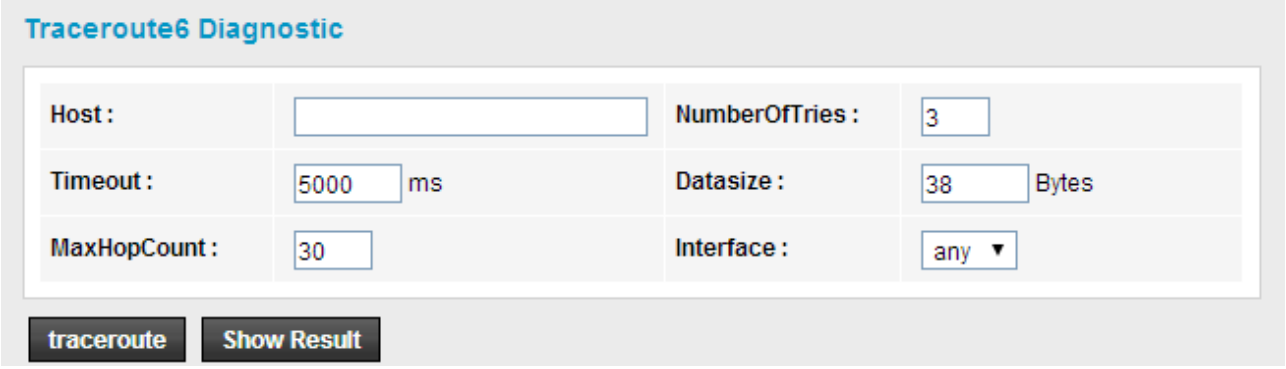
5.5.6.3 Traceroute

Traceroute is a network debugging utility that attempts to trace the path a packet takes through the network.



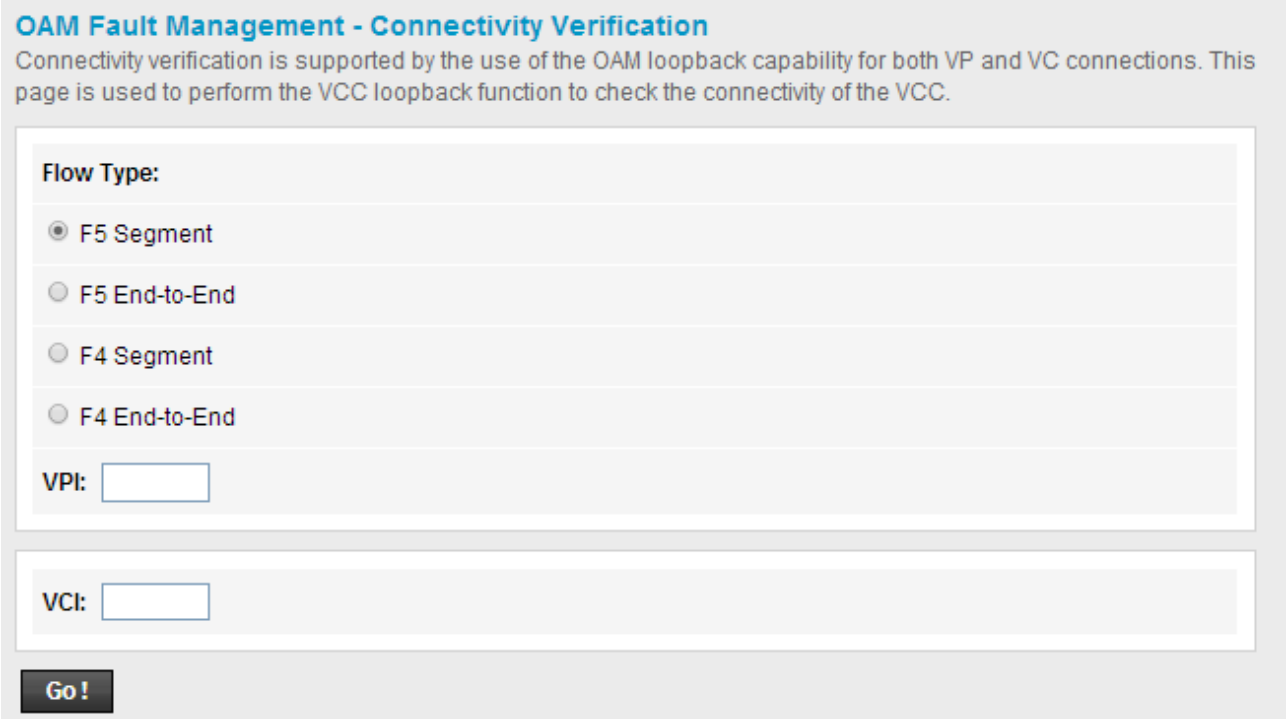
5.5.6.4 Traceroute6

Traceroute6 is an IPv6 varaint of the IPv4 traceroute tool, a computer network tool used to determine the route taken by packets across an IP network.



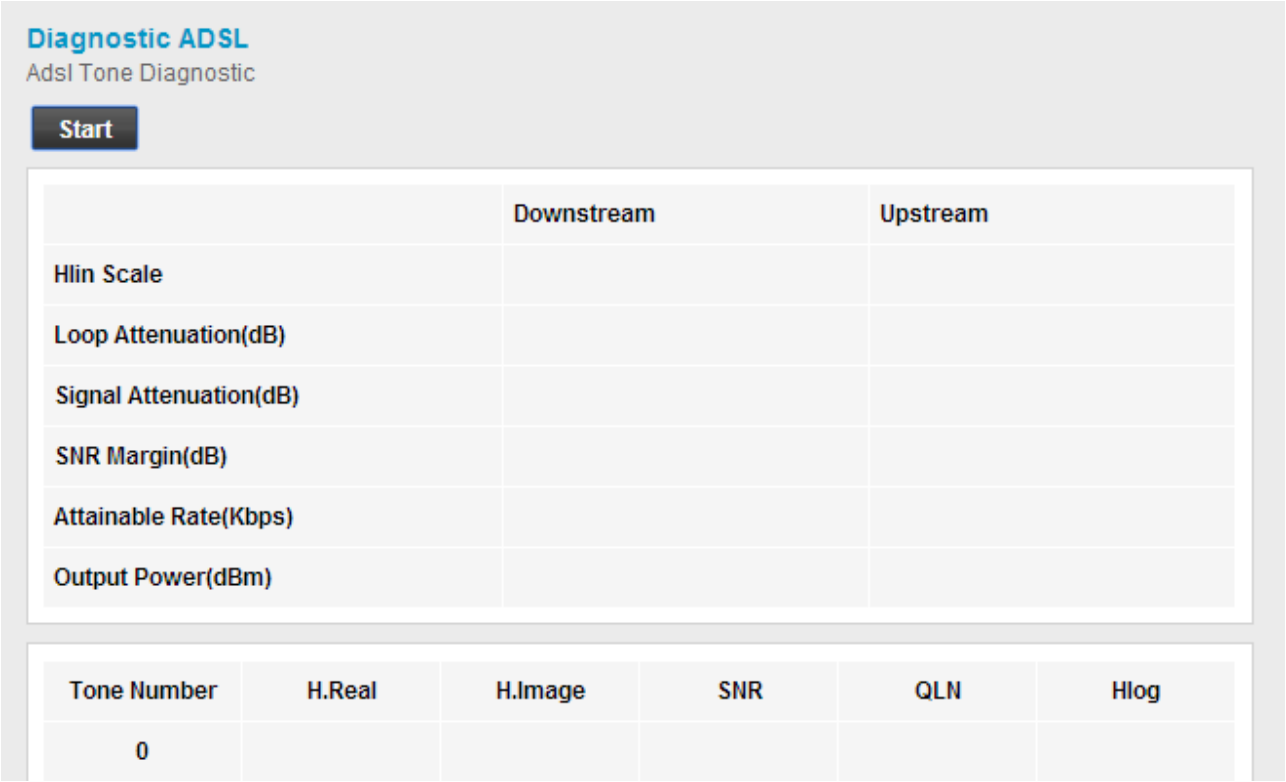
5.5.6.5 OAM Loopback

OAM Loopback capability allows the router to automatically detect the connectivity of the VCC.



5.5.6.6 ADSL Diagnostic

Click **Start** button to enable diagnose function and then you can see ADSL status in this page.



5.5.6.7 Diagnostic Test

It is useful for checking connection status. Please press Run Diagnostic Test button.