TN500 User Manual

Index

Note:

Operating temperature: -10℃—45℃.

Safety Precautions

Do not operate the ROUTER:

- In areas where blasting is in progress
- Where explosive atmospheres may be present
- Near medical equipment
- ROUTER complies with RF specifications when ROUTER used at 20 cm from your body
- Near life support equipment or any equipment that may be susceptible to any form of radio interference. In such areas, the ROUTER MUST BE POWERED OFF. The ROUTER can transmit signals that could interfere with this equipment.

Do not operate the ROUTER in any aircraft, whether the aircraft is on the ground or in flight. In aircraft, the ROUTER MUST BE POWERED OFF. When operating, the ROUTER can transmit signals that could interfere with various onboard systems.

Note: Some airlines may permit the use of cellular phones while the aircraft is on the ground and the door is open. The ROUTER may be used at this time.

The driver or operator of any vehicle should not operate the ROUTER while in control of a vehicle. Doing so will detract from the driver or operator's control and operation of that vehicle. In some states and provinces, operating such communications devices while in control of a vehicle is an offense.

FCC Statement

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

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

--Reorient or relocate the receiving antenna.

--Increase the separation between the equipment and receiver.

--Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

--Consult the dealer or an experienced radio/TV technician for help.

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

RF Expoure Warning Statement:

The antenna(s) used for this device must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other transmitter.

1. About this Manual

The content of this User Manual has been made as accurate as possible. However, due to continual product improvements, specifications and other information are subject to change without notice.

2. Product Overview

This ROUTER supports LTE Band4 and it supports popular operating systems like Windows, Linux and Mac.

Once you have identified the place for ROUTER, insert USIM card supplied by your service provider at the appropriate place, plug in the adapter in the AC socket and DC in the power port of ROUTER. Switch on the power Off/On switch and after few minutes the ROUTER should attach itself to the LTE network. It is as simple as that. It is advised to read this manual at leisure to make best use of the ROUTER.

3. Knowing your Modem

3.1 Package Contents

- ROUTER
- 2x Antenna
- User Manual
- Power Supply and Battery

3.2 ROUTER Interfaces

The ROUTER has been designed to be placed on a desktop. All of the cables exit from the front of the ROUTER for better organization and utility. The LED indicators are easily visible on the top of the ROUTER to provide you with information about network activity and status:

- **LED:**

Items	Description	
Power	On(Yellow)	Only charger plug or Full charged
	Blinking(Yellow)	Charger plug in and charge for battery
	Blinking (Red)	Battery in and no charger plug in the battery is in low status,
WI-FI	On(Yellow)	WI-FI has turned on

	Blinking(Yellow)	Active data passed through Wi-Fi
	OFF	WI-FI has turned off
WPS	Blinking(Yellow)	WPS is activated. WPS led is off after one minutes
	Off	WPS is Off
Connect	On(Yellow)	LTE data connection has established
	Blinking(Yellow)	The device is trying to establish connection
	Off	No data connection
Signal	On(Yellow)	There has Service or Connected
	Off	No USIM or Limited Service

- **Power**

Connect the included 12V DC power supply to this jack

Note：

Adapter shall be installed near the equipment and shall be easily accessible.

4. Configuring the ROUTER

The basic settings in WebGUI consist of four main parts named Dashboard, Status, Settings and 4G. You can login to WebGUI as follows, and configure the settings according to your requirements.

Connect the PC to ROUTER using the CAT-5 Ethernet cable. Use any one of the three Ethernet ports on the ROUTER. Power on the device and waiting for about 40 seconds until the device finished initializing. Please ensure that USIM card has been inserted into USIM slot in ROUTER.

You can also connect the PC to ROUTER by Wi-Fi, choose the correct Wi-Fi SSID and input the accurate password as the label shows. The default Wi-Fi SSID is CLARO-XXXX, XXXX denotes the last 4 digits of the ROUTER's MAC address.

4.1 Login

Open your Web browser and enter 192.168.1.1 in the address bar;

Login window will popup;

When prompted for User name and password, enter the following username and password.

Username/Password: 1admin0/ltecl4r0

4.2 Dashboard

After successful login, the following screen will appear and you will see four main menus on the top bar of the WebGUI.

The bars in the middle indicate the received signal level and USIM icon displays the status of USIM. Click "Logout", the screen will turn to login window.

From this page, you can also know 4G status, Wi-Fi status, WAN Info, LAN Info, Data Traffic and Device&SIM Info. You can see the dashboard page as figure

4-2-1.

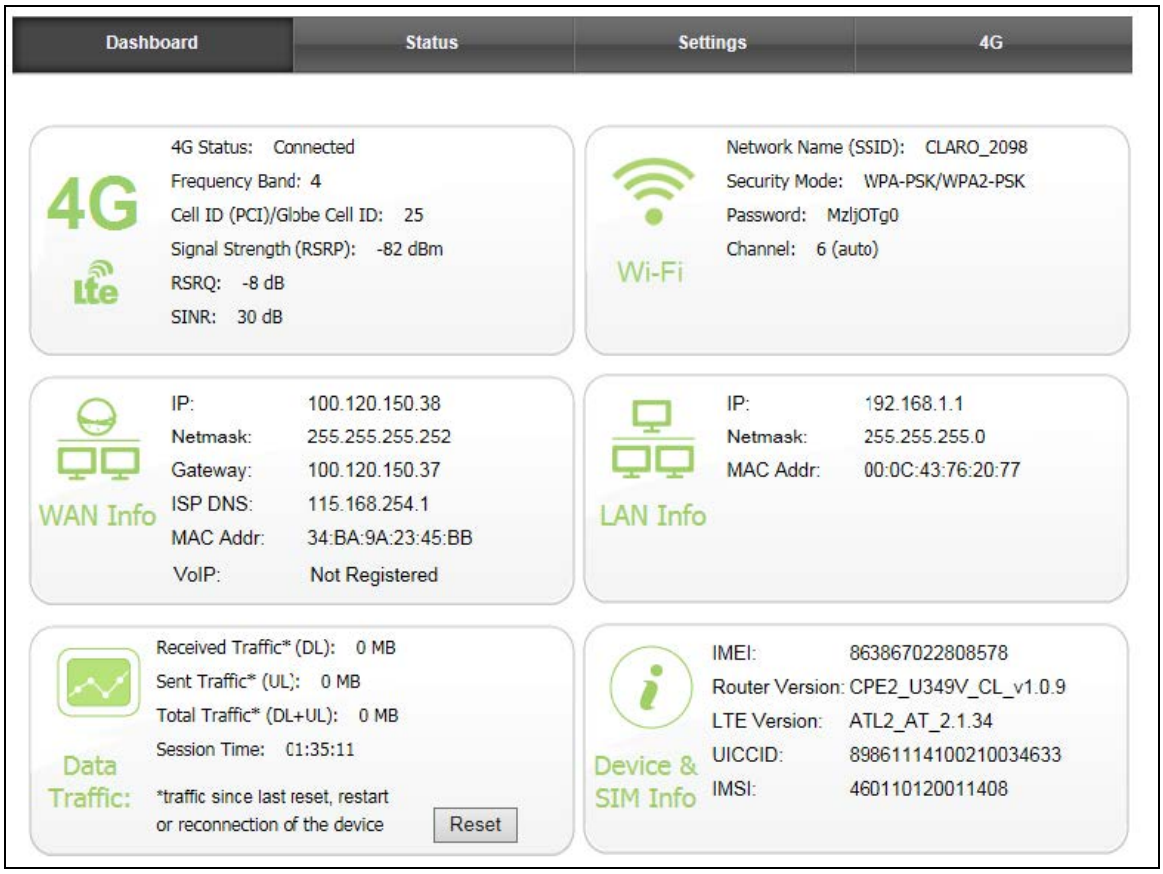


Figure 4-2-1 Dashboard Page

4.3 Status

On this page, you can see WAN Status, Wi-Fi&LAN Status, LTE Status, Software Status, Device List, UPnP Status and VoIP.

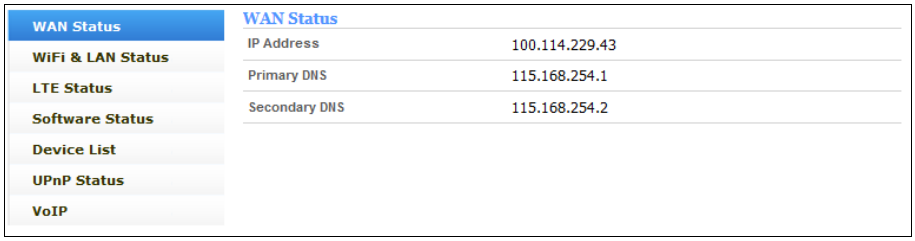
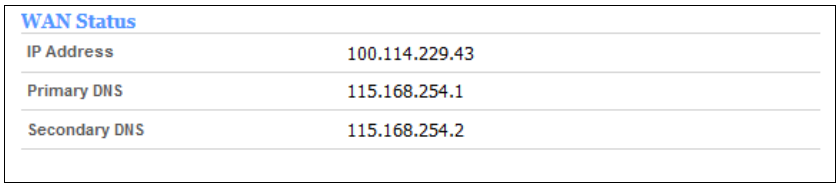


Figure 4-3-1 Status

4.3.1 WAN Status

From the WAN Status, you can see WAN IP Address, WAN Primary DNS and WAN Secondary DNS information.

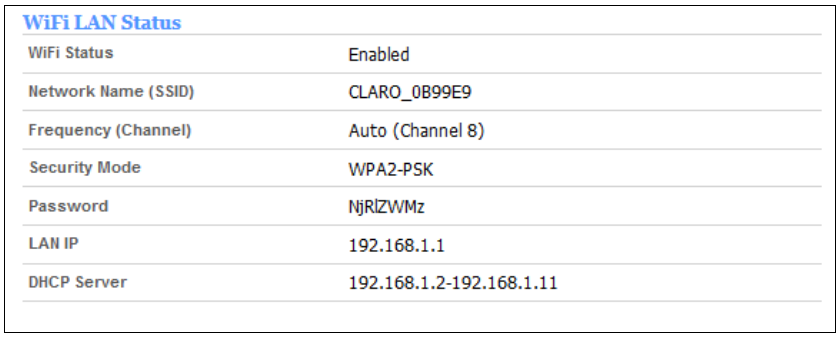


WAN Status	
IP Address	100.114.229.43
Primary DNS	115.168.254.1
Secondary DNS	115.168.254.2

Figure4-3-1-1 WAN Status

4.3.2 Wi-Fi LAN Status

From this page, you can know the Wi-Fi LAN Status such as SSID, Channel, Security, Key, LAN IP and DHCP Server.

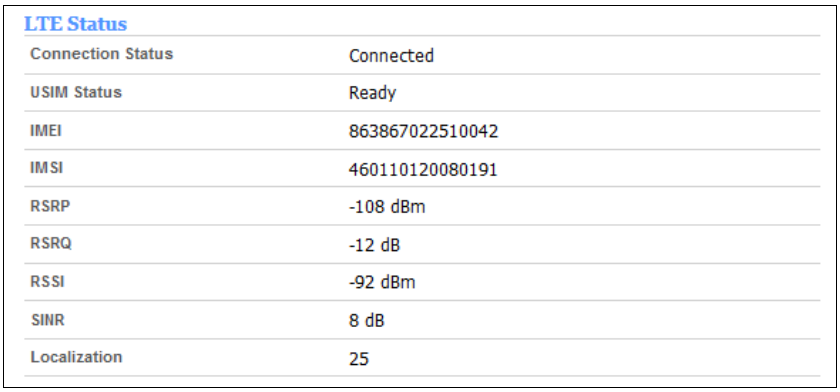


WiFi LAN Status	
WiFi Status	Enabled
Network Name (SSID)	CLARO_0B99E9
Frequency (Channel)	Auto (Channel 8)
Security Mode	WPA2-PSK
Password	NjRlZWMz
LAN IP	192.168.1.1
DHCP Server	192.168.1.2-192.168.1.11

Figure 4-3-2-1 Wi-Fi LAN Status

4.3.3 LTE Status

Clicking on the “LTE Status”, you can see the LTE information i.e. Connection Status, USIM Status, IMEI, IMSI, RSRP, RSRQ, RSSI, SINR and Localization.



LTE Status	
Connection Status	Connected
USIM Status	Ready
IMEI	863867022510042
IMSI	460110120080191
RSRP	-108 dBm
RSRQ	-12 dB
RSSI	-92 dBm
SINR	8 dB
Localization	25

Figure 4-3-3-1 LTE Status

4.3.4 Software Status

From this page, you can know the IDU software version and the DTB software version.

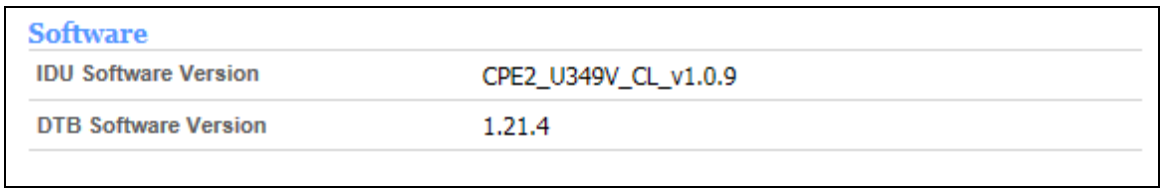


Figure 4-3-4-1 Software Status

4.3.5 Device List

From the device list, you can know the users' information, include hostname, MAC address, IP address, type and expires time.

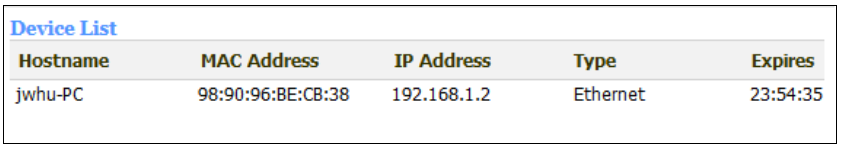


Figure 4-3-5-1 Device List

4.3.6 UPnP Status

The UPnP function is disabled in default; you should enable it on the system security page (4.4.2.12) before using it. The new rules that you added will be shown on this page.

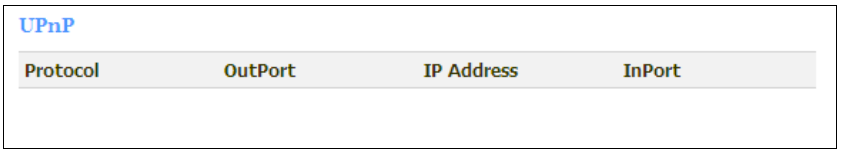


Figure 4-3-6-1 UPnP Status

4.3.7 VoIP

You need an active VoIP subscription to use the VoIP feature. This page displays Registration status and APN. you can setting it in Settings→Advance Settings→VoIP page (4.4.2.14) before using it. The status will be shown on this page.

Figure 4-3-7-1 VoIP

4.4 Settings

The settings menu consists of three main menus named Basic Settings, Advanced Settings and System Settings.

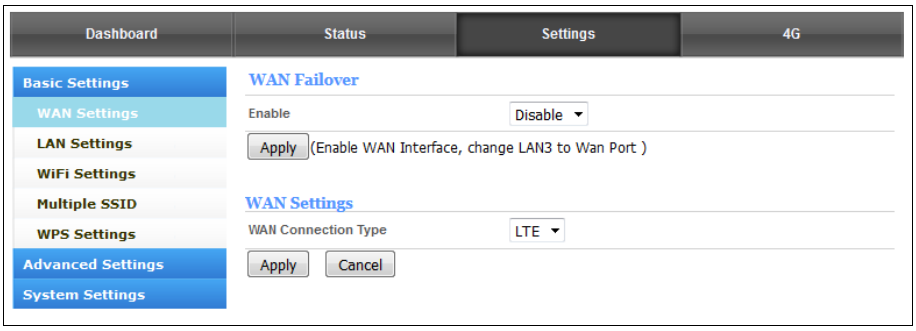


Figure4-4-1 Settings

4.4.1 Basic Settings

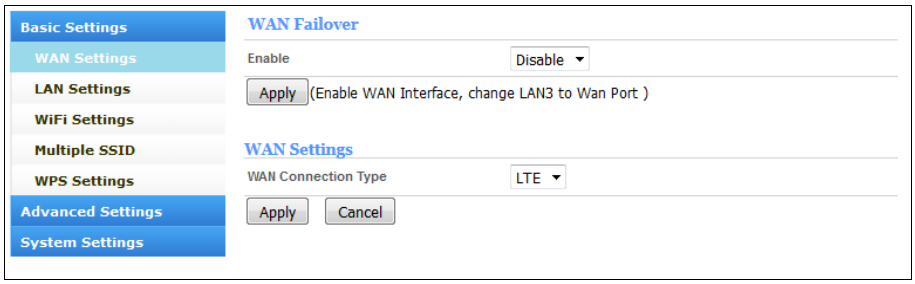


Figure4-4-1-1 Basic Settings

4.4.1.1 WAN Settings

Clicking on the “WAN Settings” tab will take you to the “WAN Settings” header page. On this page, you can choose which Internet to use after you Enable WAN Failover, the default status is Disable.

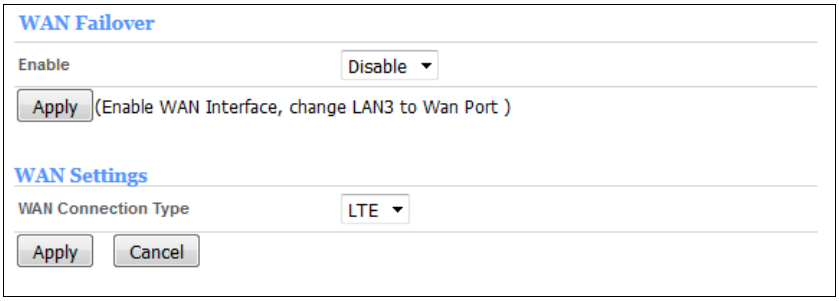


Figure 4-4-1-1-1 LAN Settings

- **WAN Failover**

You can Enable Wan Failover, the device will change LAN3 to Wan port.

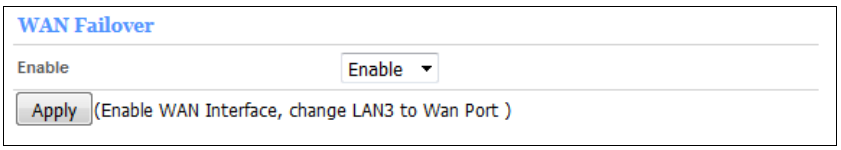


Figure 4-4-1-1-2 Enable Wan_Failover

- **WAN Settings**

You can choose four type, include STATIC, DHCP, PPPoE and LTE.

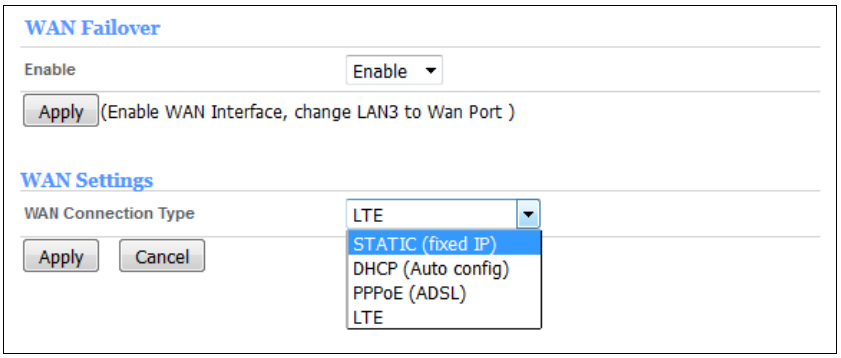


Figure 4-4-1-1-3 Enable Wan_Failover

➢ STATIC (fixed IP) - The static IP address is a regular address which is permanently assigned to a computer contactable over the Internet.

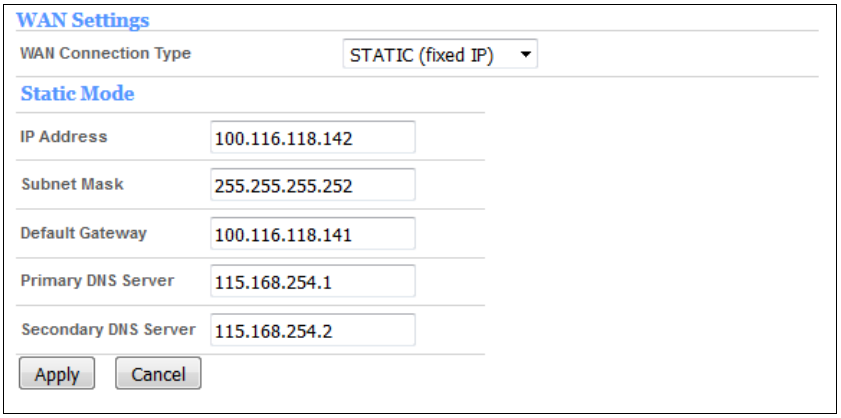


Figure 4-4-1-1-4 STATIC(fixed IP)

➢ DHCP (Auto config) - If you choose the Server, you can got WAN IP parameters assigned dynamically by your ISP

Figure 4-4-1-1-5 DHCP(Auto config)

- PPPoE (ADSL) - If you choose PPPoE, you will use PPPoE to connect the Internet

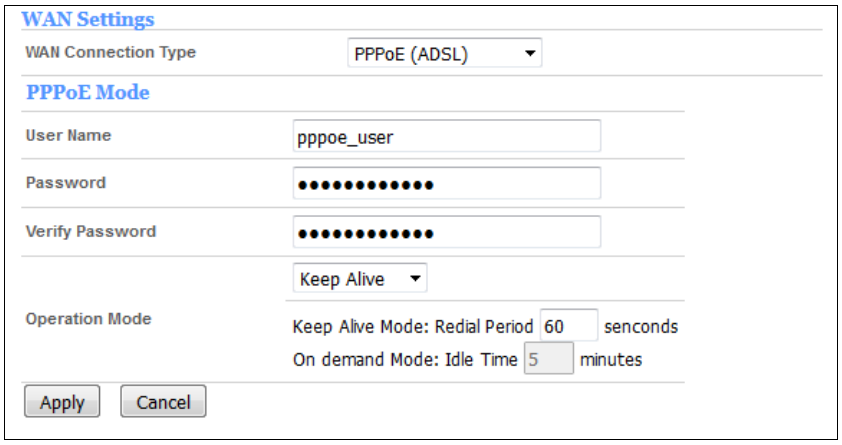


Figure 4-4-1-1-6 PPPoE(ADSL)

- LTE - If you choose LTE, you connect the Internet will use the USIM card for 4G

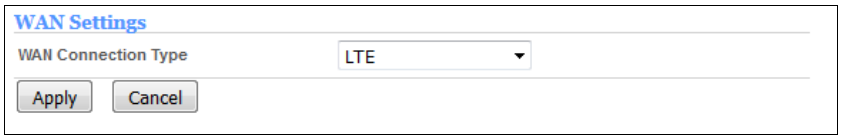


Figure 4-4-1-1-7 LTE

4.4.1.2 LAN Settings

Clicking on the "LAN Settings" tab will take you to the "LAN Settings" header page. On this page, all settings for the internal LAN setup of the ROUTER router can be viewed and changed.

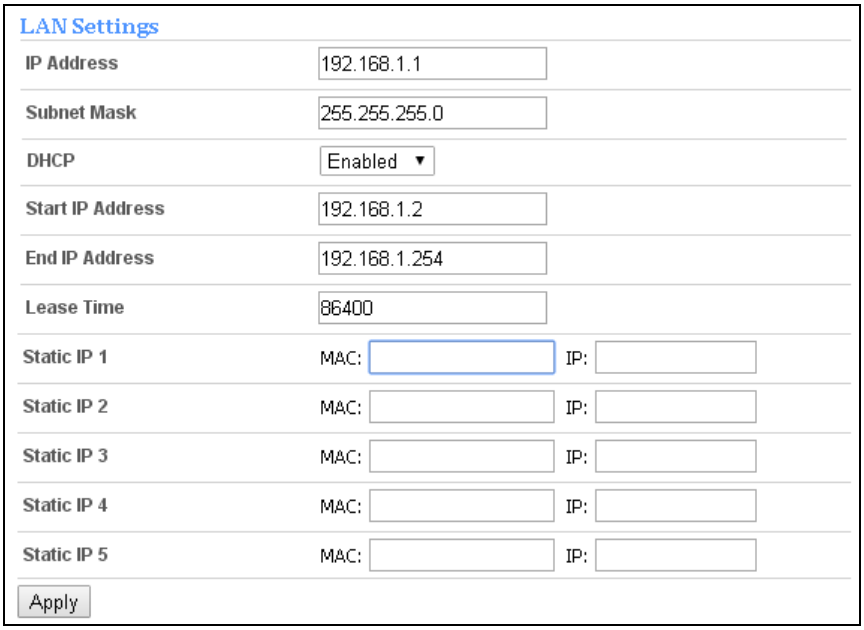


Figure 4-4-1-2-1 LAN Settings

- **IP Address -** Enter the IP address of your router (factory default: 192.168.0.1).
- **Subnet Mask** - An address code that determines the size of the network. Normally use 255.255.255.0 as the subnet mask.
- **DHCP** - 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 address of your PC manually.
- **Start IP Address** - Specify an IP address for the DHCP server to start with when assigning IP address. The default start address is 192.168.0.2.
- **End IP Address** - Specify an IP address for the DHCP Server to end with when assigning IP address. The default end address is 192.168.0.254.
- **Lease Time** - The 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 assigned a new dynamic IP address automatically.
- **Static IP** - IP/MAC binding function, the system will assign a fixed IP address to the MAC according to the rules.

☞ **Note:**

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

4.4.1.3 Wi-Fi Settings

Clicking on “Wi-Fi Settings” will take you to the following header and on this page you can configure the Wi-Fi settings and Wi-Fi security.

- **Wi-Fi Settings**

You can set the Wi-Fi status, configure the Wi-Fi standard, configure the network name and select the Wi-Fi channel from 1 to 11.

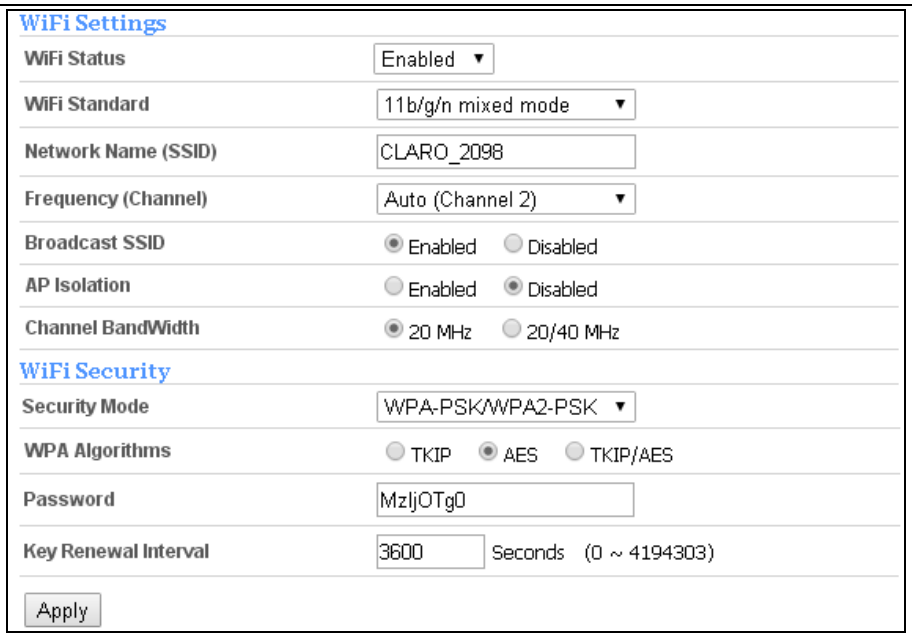


Figure 4-4-1-3-1 Wi-Fi Settings

- **Wi-Fi Status:** Enabled(default)/Disabled

The Wi-Fi status is enabled in default, you can only connect to the device by CAT-5 Ethernet cable if it is disabled.

- **Wi-Fi Standard:**

The router can be operated in five different wireless modes:"11b/g mixed mode", "11b only", "11g only", "11b only", "11b/g/n mixed mode".

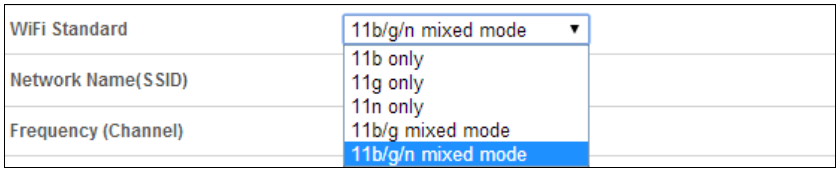


Figure 4-4-1-3-2 Wi-Fi standard

- **Network Name(SSID)**

To identify your wireless network, a name called the SSID (Service Set Identifier) is used. You can set it to anything you like and you should make sure that your SSID is unique if there are other wireless networks operating in your area.

- **Frequency (Channel)**

This field determines which operating frequency will be used for Wi-Fi. It is not necessary to change the wireless channel unless you noticed the interference problems with other access points nearby.

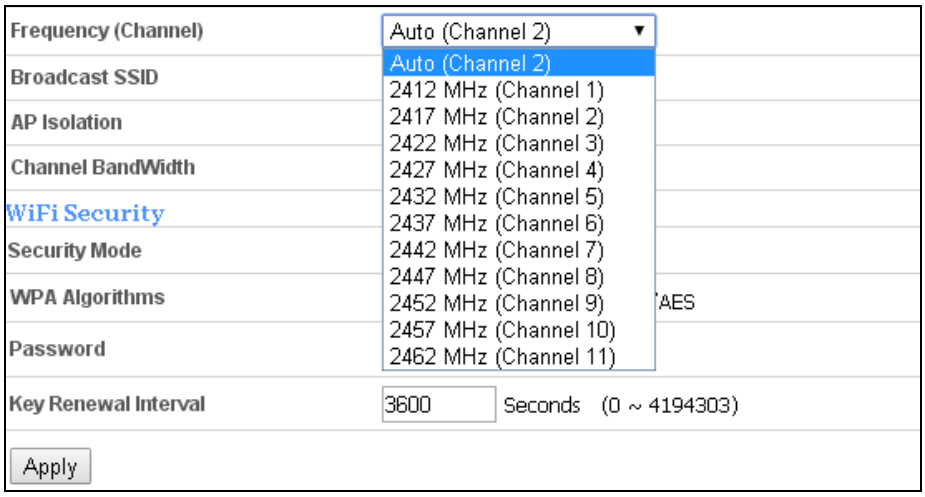


Figure 4-4-1-3-3 Frequency (Channel)

- **Broadcast SSID:** Enabled(default)/Disabled

When wireless clients survey the local area for wireless networks to associate with, they will detect the SSID broadcast of the router. If you disabled this feature, the Wi-Fi of the router is invisible.

- **AP Isolation:** Enabled/Disabled(default)

This function can isolate wireless stations on your network from each other. Wireless devices will be able to communicate with the router but not with each other.

- **Channel BandWidth:** 20MHz, 20/40MHz

20 MHz channel bandwidth support up to150 Mbit/s connections.
40 MHz channel bandwidth support up to 300 Mbit/s connections.

- **Wi-Fi Security**

Setting the wireless security and encryption to prevent the router from unauthorized access and monitoring. Default security mode is WPA2-PSK/WPA2-PSK and the default password is unique (Figure 4-4-1-3-1), you can modify the security mode and password you like from this page.

- **Security Mode:** Disabled, WPA-PSK, WPA2-PSK, WPA-PSK/WPA2-PSK

a) WPA Security Mode

- **Security Mode:** WPA-PSK, WPA2-PSK, WPA-PSK/WPA2-PSK
- **WPA Algorithms:** TKIP, AES, TKIPAES
- **Keywords:** 1~32 characters
- **Key Renewal Interval:** 0~4194303s

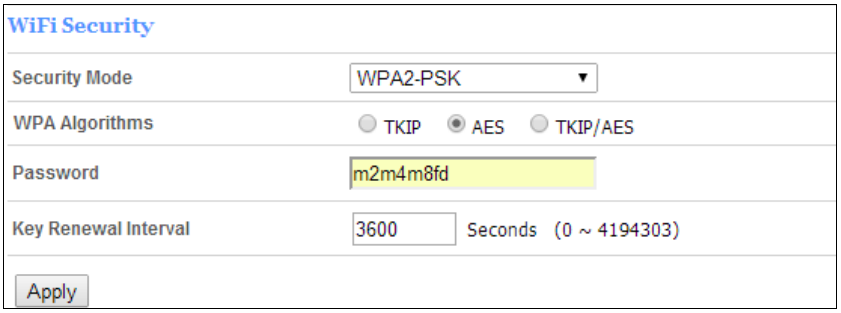


Figure 4-4-1-3-4 Default Wi-Fi Security

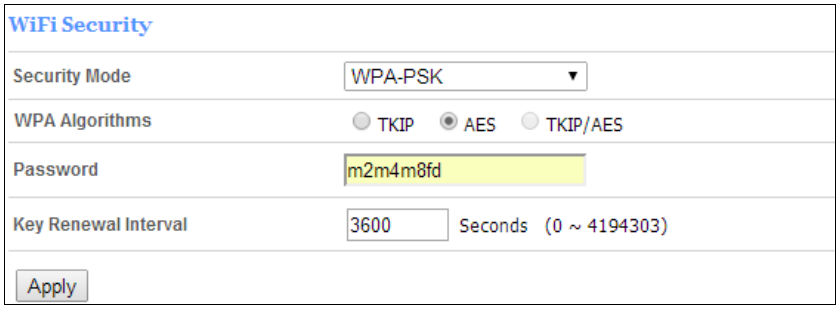


Figure 4-4-1-3-5 WPA-PSK

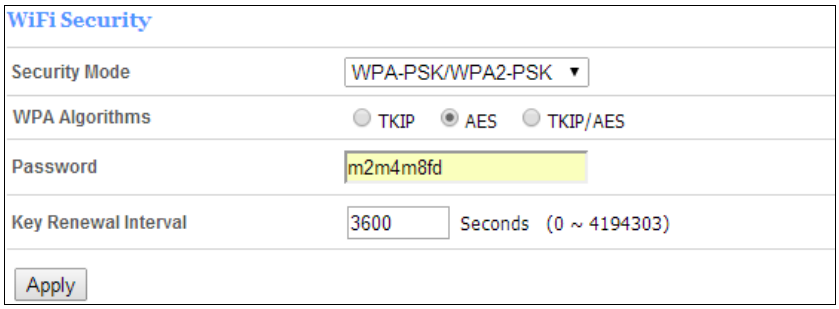


Figure 4-4-1-3-6 WPA-PSK/WPA2-PSK

4.4.1.4 Multiple SSID

From this page, you can add the multiple SSID of the router, the maximum rule count is 5. Click on the "Add New" button, you can configure the SSID information.

Figure 4-4-1-4-1 Multiple SSID page

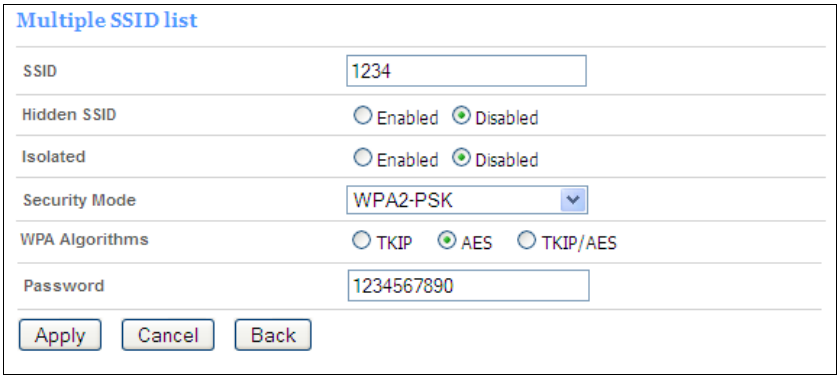


Figure 3-4-1-4-2 Add New Rule

The new rules will be shown on the rule table, you can delete the rules that you have selected or add new rules sequentially (Figure 4-4-1-4-3). Connect any Wi-Fi SSID by the correct password on the rule table, you would be able to access to the router.

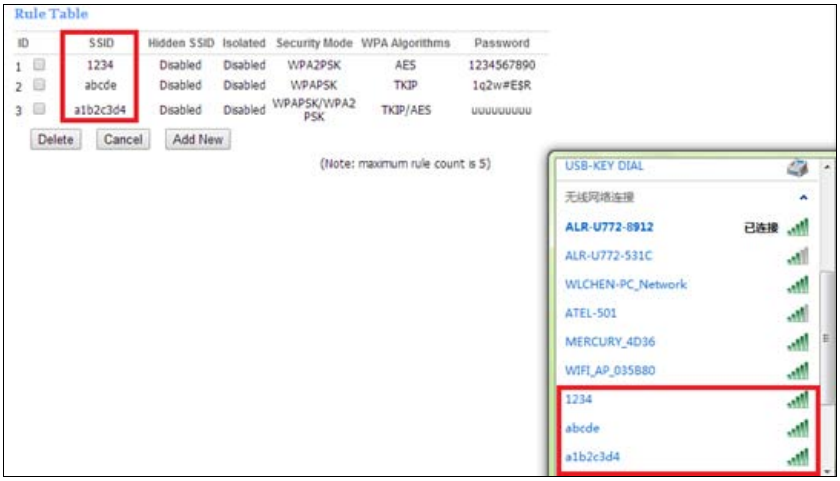


Figure 4-4-1-4-3 Rule Table

4.4.1.5 WPS Settings

You can setup security easily by choosing PIN or PBC method to do Wi-Fi Protected Setup. On this page, you can modify WPS settings. This feature can make your wireless client within a few minutes automatically synchronized with the AP devices and establish the connection via Wi-Fi.

- **WPS method-** Push the button (default), Enter the PIN of client device, Use the PIN of the device.
- **WPS Status-** The real-time information of WPS processing while the wireless client tries to communicate with Wi-Fi each other.
- **PBC Mode**

  (1) Press the WPS button of the ROUTER directly;
  (2) Then ROUTER and wireless client will automatically complete the interaction and connect via Wi-Fi if these two devices can match with each

other.

- **Enter the PIN of client device**

  (1) Wireless clients choose enrollee mode, the wireless client software will randomly generate a PIN code. Then click on the tool interface "PIN" button.
  (2) Input the PIN code which got from the wireless client and click the “Apply” button on this “WPS” configuration page.

- **Use the PIN of the device**

  (1) Create the random PIN by clicking the “Generate” button, and share this PIN to wireless client.
  (2) In the wireless client choice registrar model, and the input device of the PIN code.

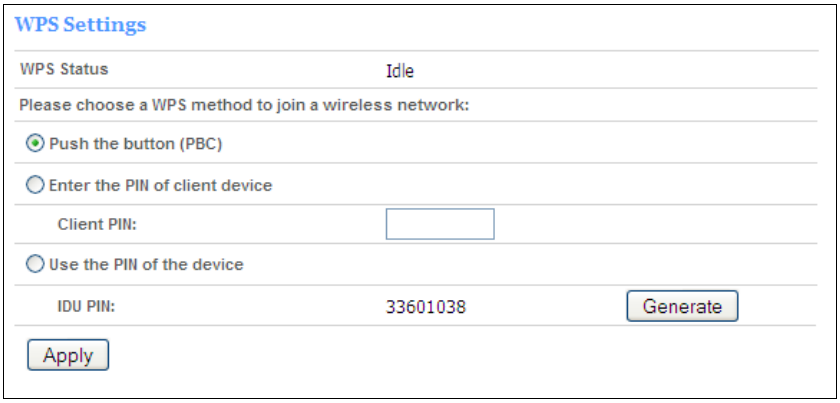


Figure 4-4-1-5-1 WPS page

4.4.2 Advanced Settings

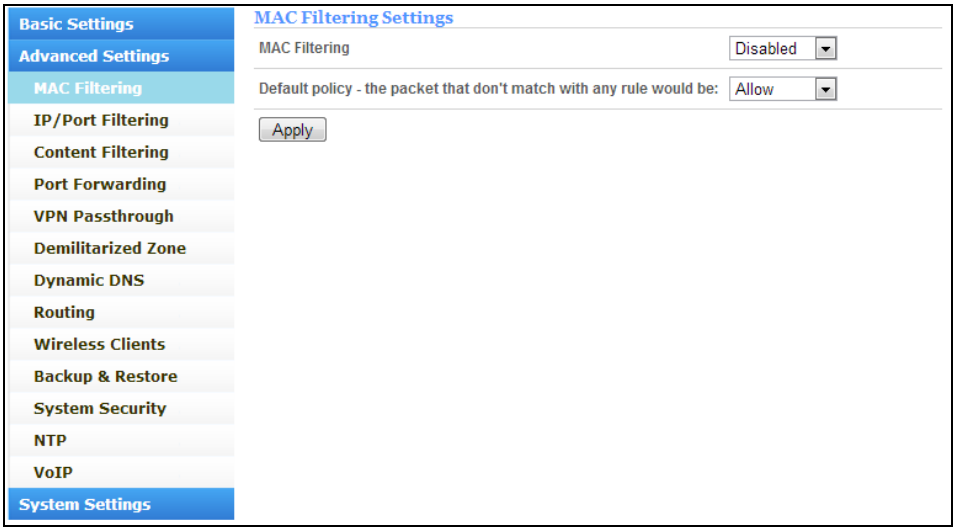


Figure 4-4-2-1 Advanced Settings

4.4.2.1 MAC Filtering

This function is a powerful security feature that allows you to specify which

wireless client users are not allowed to surf the Internet.

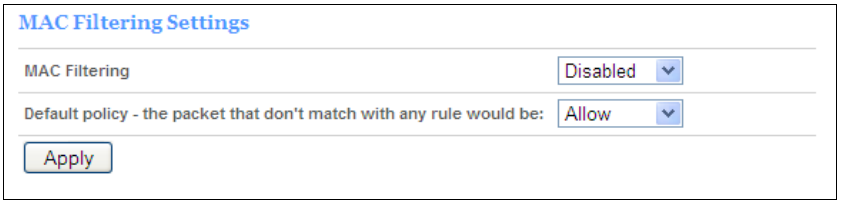


Figure 4-4-2-1-1 MAC Filtering page

The default MAC filtering setting is disabled, so you should enable it before you begin to configure the filter. Then click the "Add New" button, you can configure the rules you like (Figure 4-4-2-1-3).

Default Policy: The packets that don't match with any rules would be "Allow/Deny". If you choose the "Allow" button here, the MAC address that you add would be dropped. Otherwise, only the MAC addresses on the rule table can be accepted.

The new rules will be shown on the rule table, here you can delete the rules that you have selected and add new rules sequentially. The maximum rule count is 10. (Figure 4-4-2-1-4)

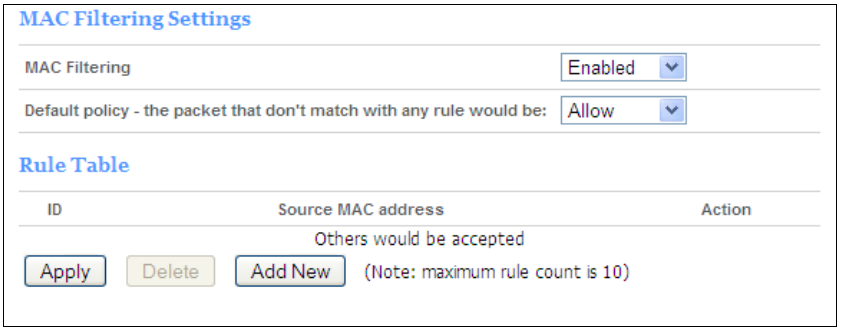


Figure4-4-2-1-2 Enable MAC Filtering function

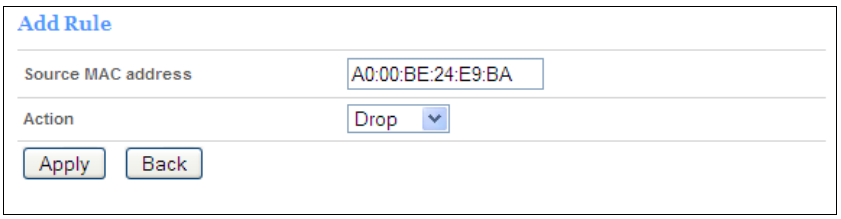


Figure4-4-2-1-3 Add Rule

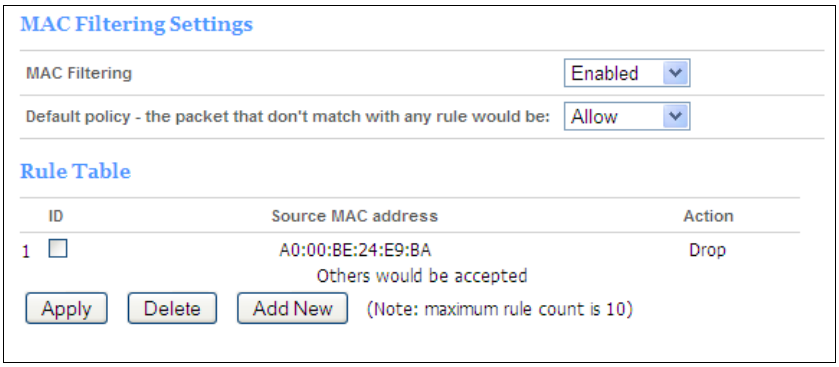


Figure4-4-2-1-4 Rule Table

4.4.2.2 IP/Port Filtering

From this page, you can configure the IP/Port filter to forbid relevant users to login the router device.

The default IP/Port filter setting is disabled, so you should enable it before you begin to configure the filter. Then clicking the "Add New" button, you can configure the settings you like (Figure 4-4-2-2-3).

Default Policy: The packets that don't match with any rules would be "Dropped/Accepted". If you choose "Dropped" here, the action of the new rule would be "Accept". Otherwise, the action turns to be "Drop" and the packet that don't match with any rules would be accepted.

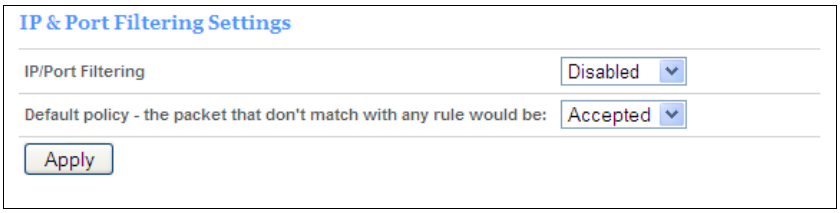


Figure 4-4-2-2-1 IP/Port filtering page

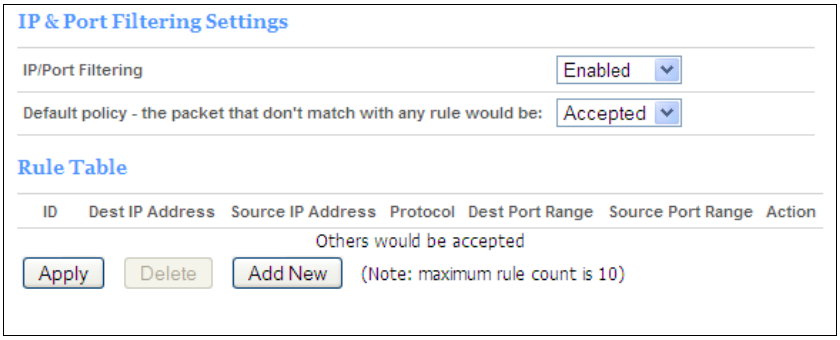


Figure4-4-2-2-2 Enable IP/Port Filtering function

- **Dest IP Address –** The IP address of a website that you want to filter (Such as google 74.125.128.106).
- **Source IP Address -** The IP address of PC. (Such as 192.168.0.2).
- **Protocol-** TCP, UDP, ICMP
- **Dest Port Range-** To restrict Internet access to the single user, you can set a

fixed value, such as 21-21.

- **Source Port Range-** 1~65535
- **Action-** Accept, Drop

The new rules will be shown on the rule table, you can delete the rules that you have selected or add new rules sequentially (Figure 4-4-2-2-4). The maximum rule count is 10.

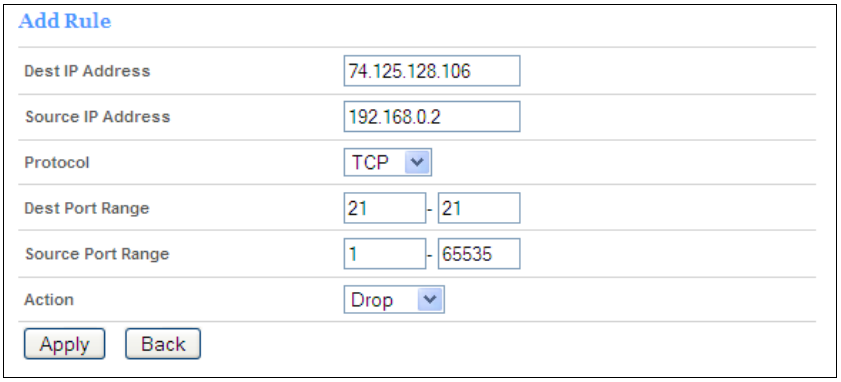


Figure 4-4-2-2-3 Add New Rule

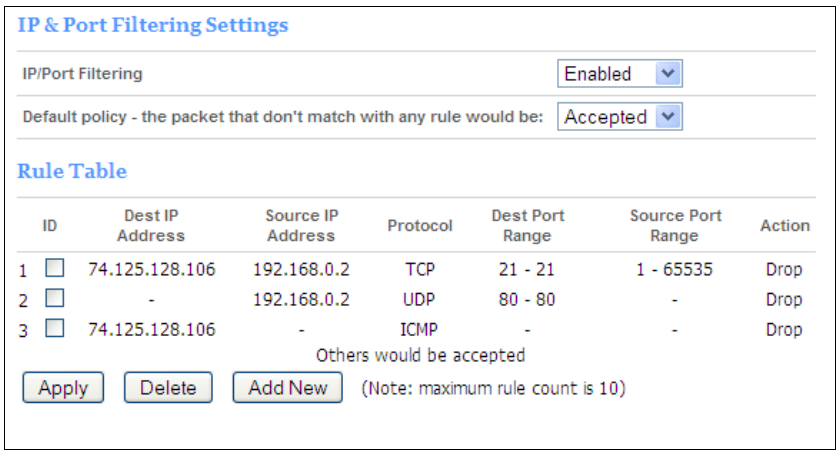


Figure 4-4-2-2-4 Rule Table

4.4.2.3 Content Filtering

From this page, you can configure the URL filter and the content filtering schedule.

- **Content Filtering**

It is a function that forbids users to login the URL or keyword on the rule table. You can configure the settings you like by clicking the "Add New" button.

The new rules will be shown on the rule table, you can delete the rules that you have selected or add new rules sequentially (Figure 4-4-2-3-4). The maximum rule count is 8.

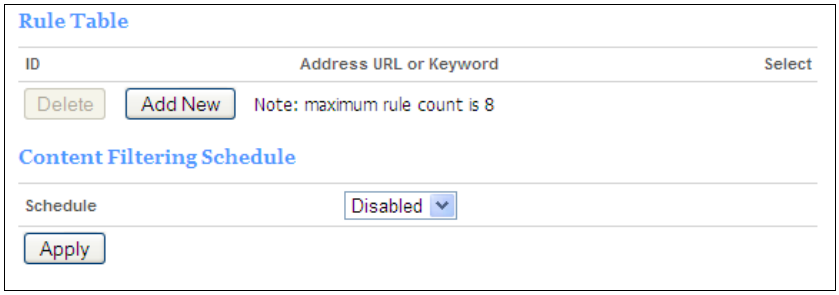


Figure 4-4-2-3-1 Content Filtering page

Figure 4-4-2-3-2 Add New Rule

- **Content Filtering Schedule**

Here you can configure the schedule to define when the rules take effect. This feature is disabled in default, you should enable it first and then configure the date and time, such as working time. Click the “Apply” button; you can see the new rule on the content filtering page.

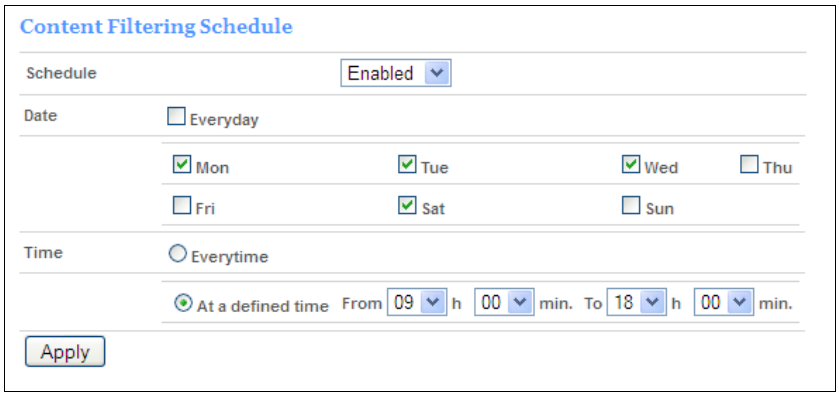


Figure 4-4-2-3-3 Configure Filtering Schedule

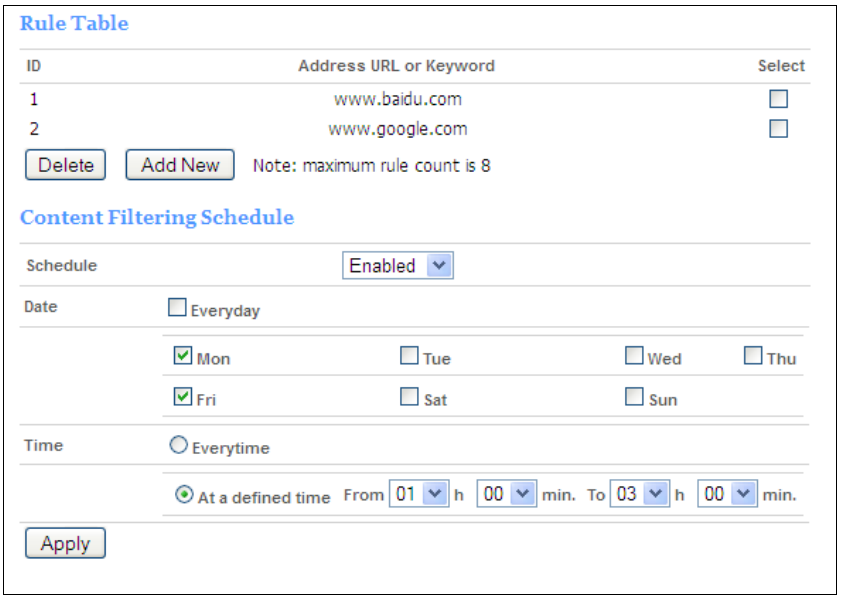


Figure 4-4-2-3-4 Content Filtering Rules

4.4.2.4 Port Forwarding

Clicking on the header of the "Port Forwarding" button will take you to the "Port Forwarding" header page (Figure 4-4-2-4-1). Clicking on the "Add New" button, you can configure IP address, port range to achieve the port forwarding purpose.

Figure 3-4-2-4-1 Port Forwarding page

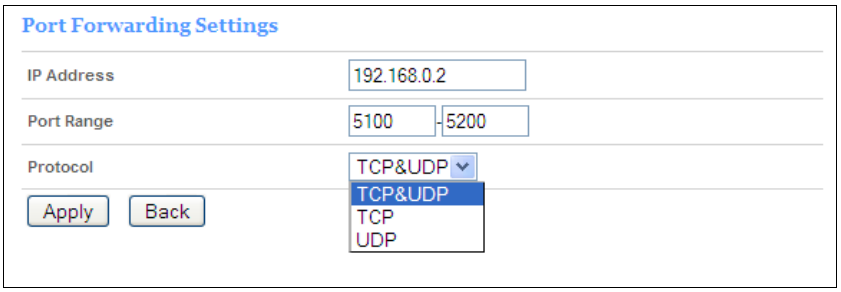


Figure 4-4-2-4-2 Port Forwarding Setting

- **IP Address-** The IP address of the PC running the service application;
- **Port Range-** You can enter a range of service port or set a fixed value;
- **Protocol-** UDP, TCP, TCP&UDP.

The new rules will be shown on the rule table, you can delete the items that you have selected or add new rules by clicking the "Add New" button here. The

maximum rule count is 20.

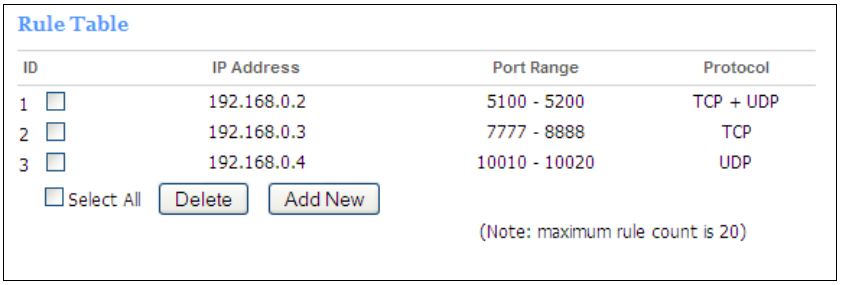


Figure 4-4-2-4-3 Rule Table

4.4.2.5 VPN Passthrough

A virtual private network (VPN) is a point-to-point connection across a private or public network (Internet).

VPN Passthrough allows the VPN traffic to pass through the router. Thereby we can establish VPN connections to remote network. For example, VPNs allow you to securely access your company's intranet at home. There are three main kinds of the VPN tunneling protocol, PPTP, L2TP and IPSec.

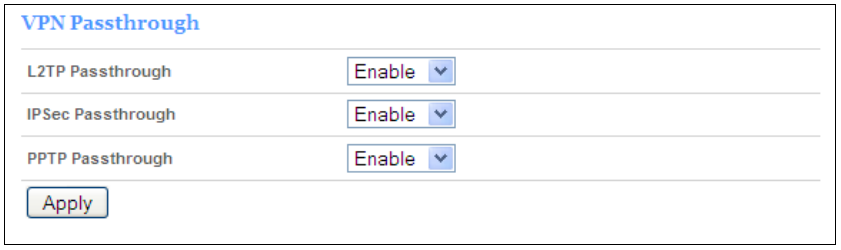


Figure 4-4-2-5-1 VPN Passthrough

Note: VPN Passthrough does not mean the router can create a VPN endpoint. VPN Passthrough is a feature that allows VPN traffic created by other endpoints to "pass through" the router.

4.4.2.6 Demilitarized Zone

From this page, you can configure a De-militarized Zone (DMZ) to separate internal network and Internet.

- **DMZ IP Address-** The IP address of your PC. (such as 192.168.0.3)

Figure 4-4-2-6-1 DMZ page

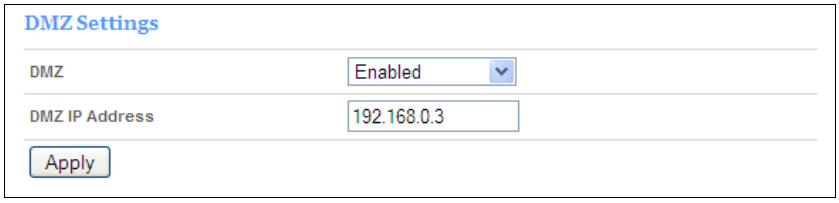


Figure 4-4-2-6-2 DMZ Setting

4.4.2.7 Dynamic DNS

The dynamic DNS function is disabled in default, you can choose the dynamic DNS provider to configure the DDNS settings.

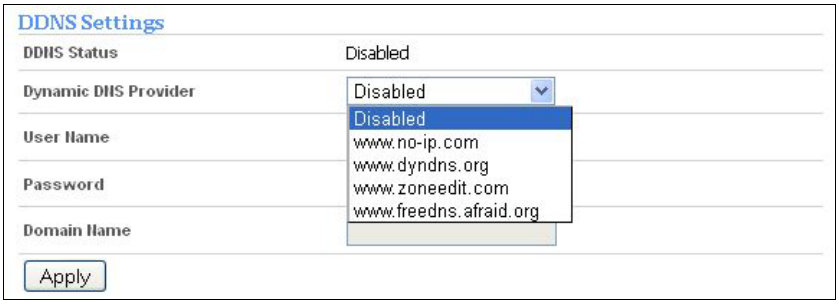


Figure 4-4-2-7-1 Dynamic DNS setting

4.4.2.8 Routing

From the rule table, you can see the default route information. Clicking on the "Add New" button, you can configure the static routing setting. The new rules will be shown on the rule table, here you can delete the rules that you have selected or add new rules sequentially. The maximum rule count is 10. (Figure 3-4-2-9-3)

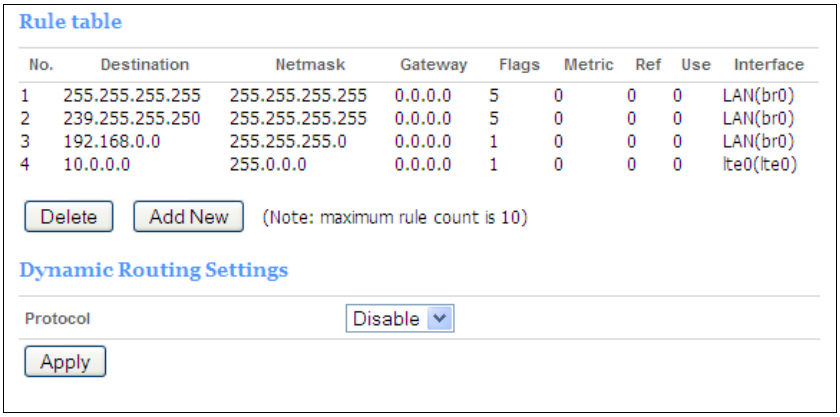


Figure4-4-2-8-1 Rule Table

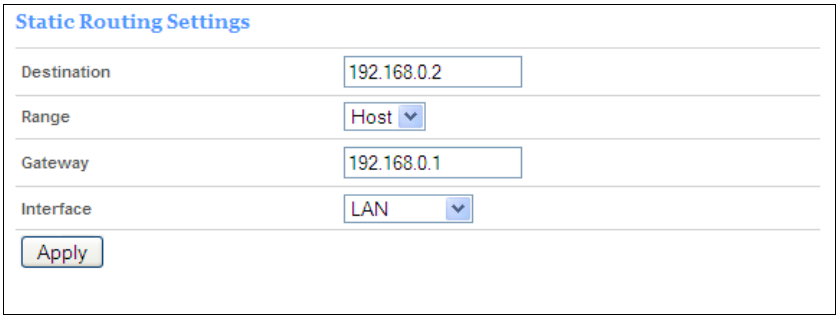


Figure 4-4-2-8-2 Configure the static routing settings

- **Destination:** The address of the network or host that assigned by the static route;
- **Range:** Host/Net;
- **Gateway :** This is the IP address of the gateway device that is used to contact between the router and the network or host;
- **Interface:** LAN/WAN/Custom;
- **RIP**: Enable the RIP, every 30 seconds, the system will update and learn the routing information nearby automatically.

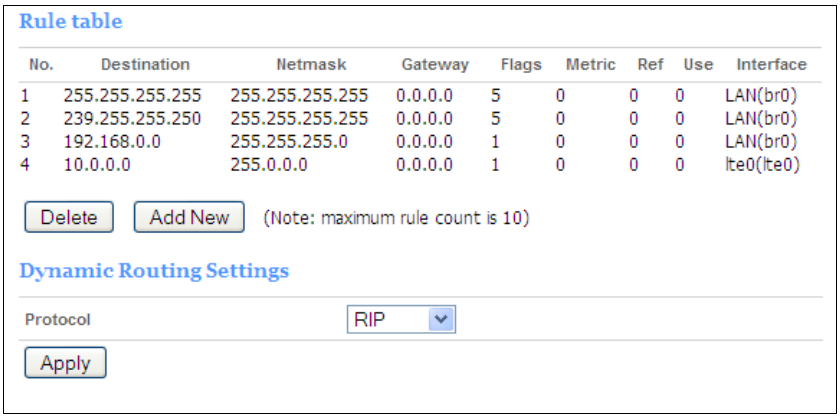


Figure 4-4-2-9-3 New rule table

4.4.2.9 Wireless Clients

From the "Wireless Clients" page, you can see the detail information of the connected wireless devices, such as IP address, MAC address, MCS, RSSI and so on. You can also kick the selected users by clicking the "Kick" button, then the connection between the wireless clients and the router will be disconnect immediately.

The users that you kicked will be shown on the kicked wireless stations, you can restore them if you need.

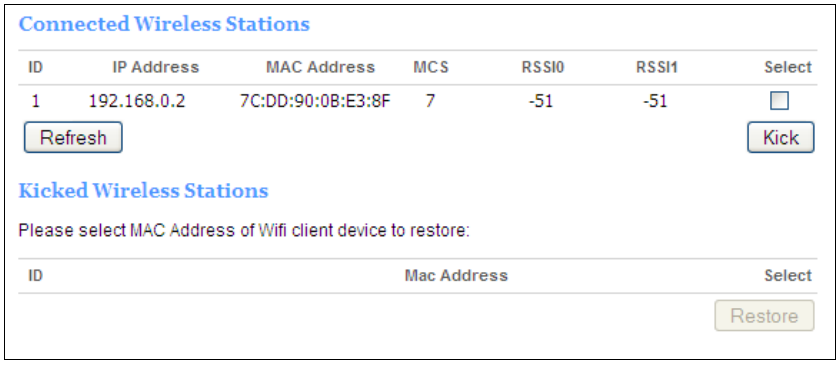


Figure4-4-2-9-1 Connected Wireless Stations

Figure 4-4-2-9-2 Kicked Wireless Stations

4.4.2.10 Backup & Restore

Clicking the "Backup" button, the current settings will be saved as a data file to the local PC. You can restore the device configuration from the files that you saved.

Figure 4-4-2-10-1 Backup & Restore

4.4.2.11 System Settings

Clicking on the header of the "System Settings" tab will take you to the "System Security Settings" page. From this page, you can configure the system security settings to protect the device itself from the external attacking.

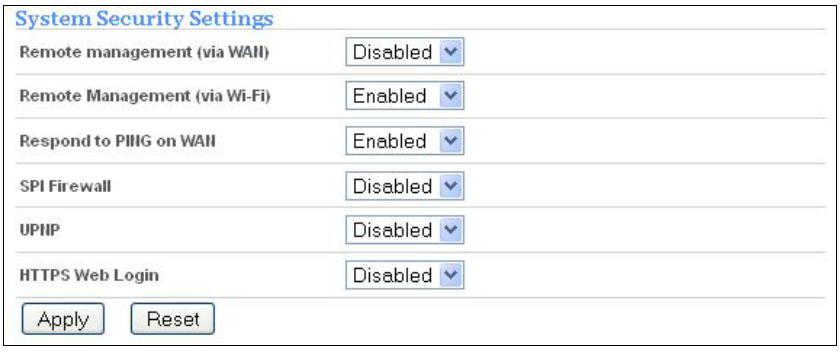


Figure 4-4-2-11-1 System Security Settings page

- **Remote management(via WAN)**

You can access to the router via WAN IP address and achieve the remote control function when the remote management feature is enabled.

- **Remote management(via Wi-Fi)**

The users on the wireless client are able to manage the WebGUI in default, you can disable this feature here.

- **Respond to PING on WAN**

It is allowed to ping on WAN in default, you can disable it here.

- **SPI Firmware**

Enable this feature to enhance protection to all the wired and wireless PCs against intruders and most known Internet attacks.

- **UPNP**

You should enable the UPnP feature firstly before you use this function.

- **HTTPS Web Login**

This function allows the users to login the system by the https protocol method.

4.4.2.12 NTP

From this page, you can set the Current Time, Time Zone, NTP Server and NTP synchronization. When the device obtains the WAN IP, the current time will synchronize with the NTP server automatically.

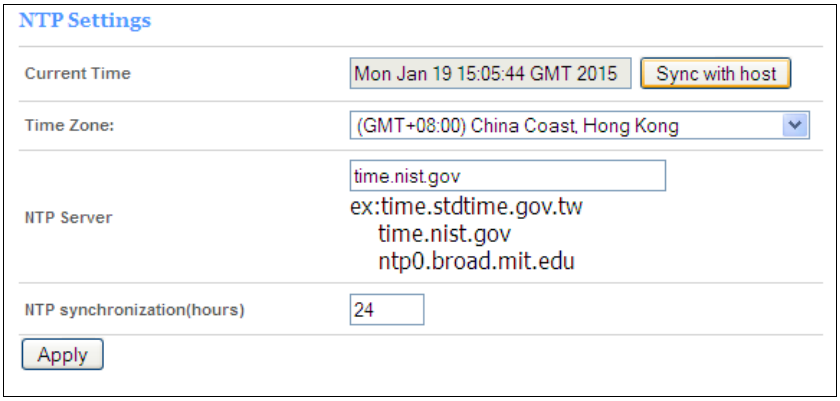


Figure 4-4-2-12-1 NTP Setting

4.4.2.13 VoIP

Clicking on the header of the "VoIP" tab will take you to "VoIP" page.

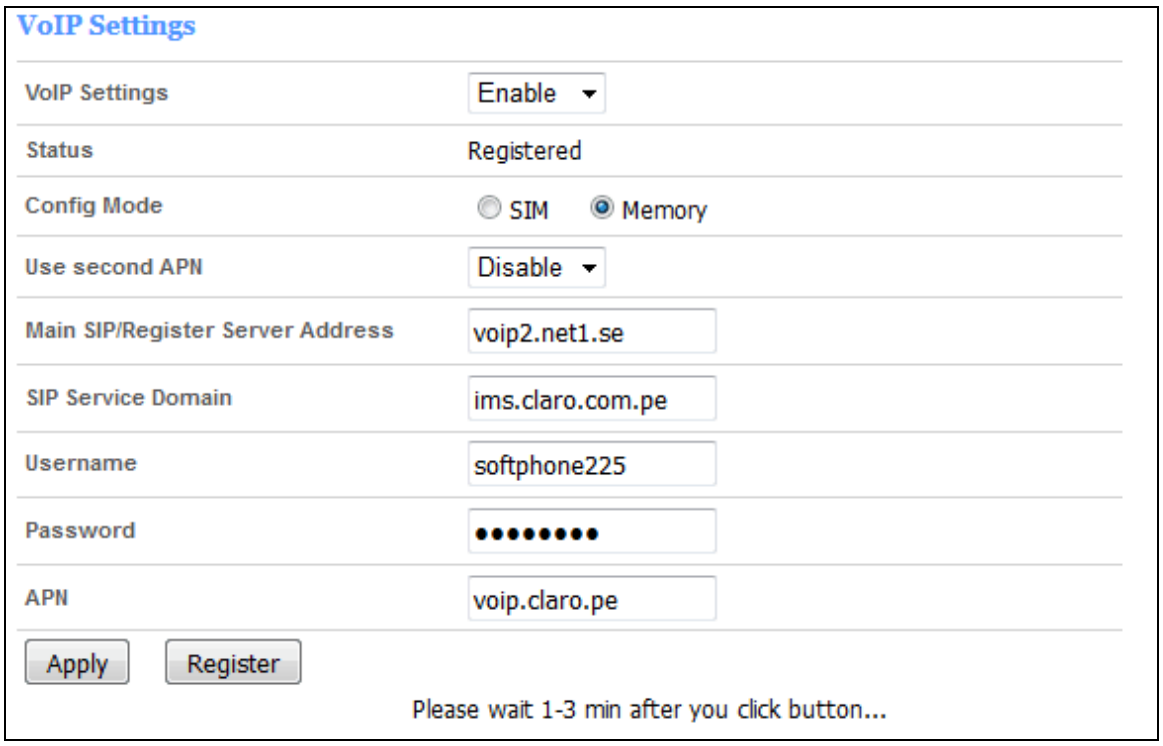


Figure 4-4-2-14-1 VoIP page

From this page, choose Memory, you can set up VoIP configuration.

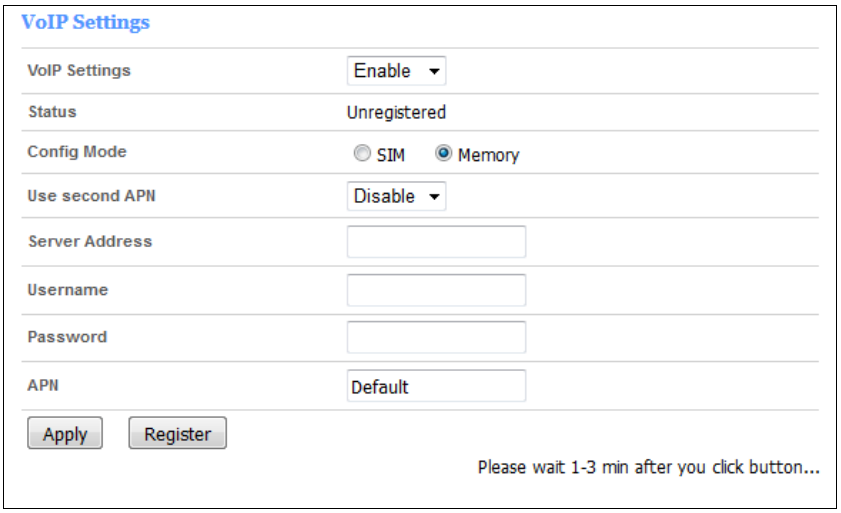


Figure 4-4-2-13-2 Set VoIP

- **Status –** the default status is "Unregistered", after setting up the VoIP information and clicking the "Register" button, the status will be changed to "Registered".
- **Config Mode** – SIM, Memory(the default is SIM)

- **Server Address –** inputting the server IP that you register.
- **Username** – inputting the username that you register.
- **Password –** inputting the password that you register.

After setting up the above informations and clicking the "Register" button to register the server, you can call up via the device.

4.4.3 System Settings

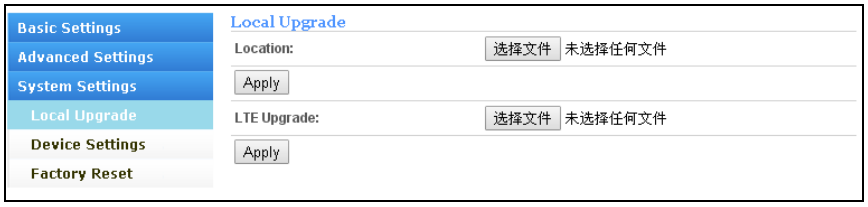


Figure 4-4-3-1 System Settings

4.4.3.1 Firmware Upgrade

- **Local Upgrade**

On this page, you can upgrade the current Router version and LTE Version from the local PC. 100s is needed to complete the whole upgrade process, and then the device will reboot automatically.

Figure 4-4-3-1-1 Firmware Upgrade

Note:

1) The firmware version must be suitable for the corresponding hardware;
2) Please make sure the adequate and stable power supply while upgrading.

4.4.3.2 Device Security

The default password is admin, you can enter 1~32 characters for 2 times as your new password. Then you would logout automatically and you should login to the system by the new password.

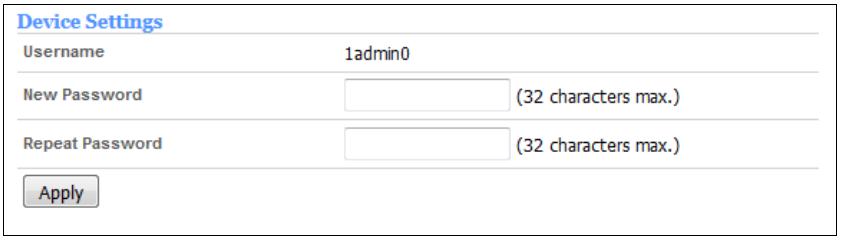


Figure 4-4-3-2-1 Device Settings

4.4.3.3 Factory Reset

From this page, you can click the “Restore” button to load default to the factory setting.

Figure 4-4-3-3-1 Factory Reset

4.5 4G

Click on the “4G” button, you can see four parts as below: APN Settings and PIN Management.

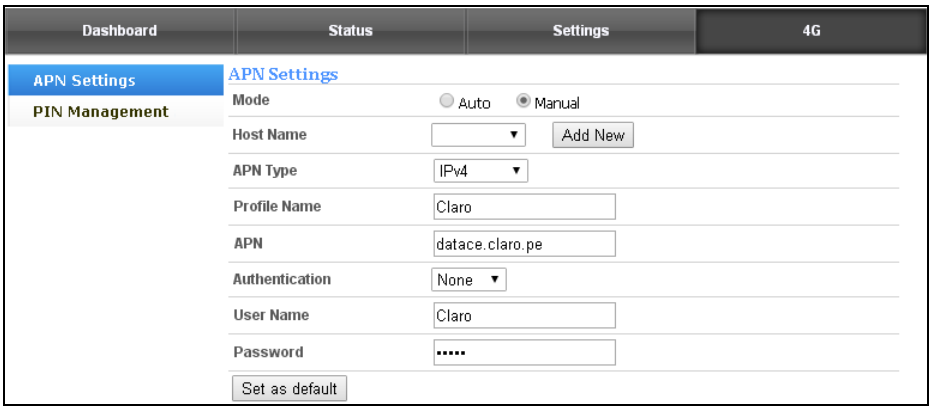


Figure 4-5-1 4G

4.5.1 APN Settings

The default APN mode is Manual and the default APN has value, if you want to configure the LTE APN, then you can configure the APN settings by clicking on the “Add New” button (Figure 4-5-1-2).

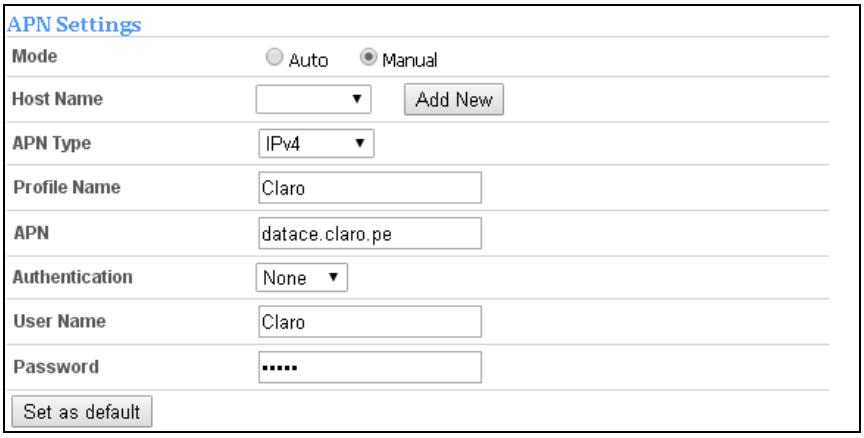


Figure 4-5-1-1 LTE APN page

From the “Host Name” option, you can choose the APN that you had configured, then click “Set as default” to make it take effect.

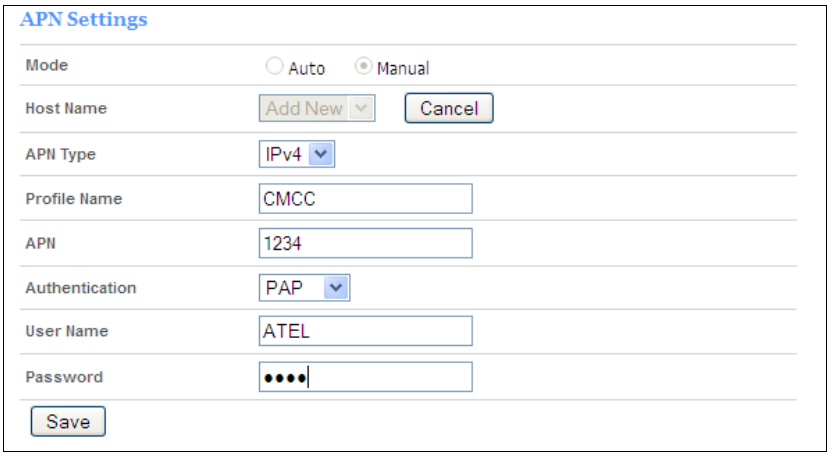


Figure 4-5-1-2 APN Configuration

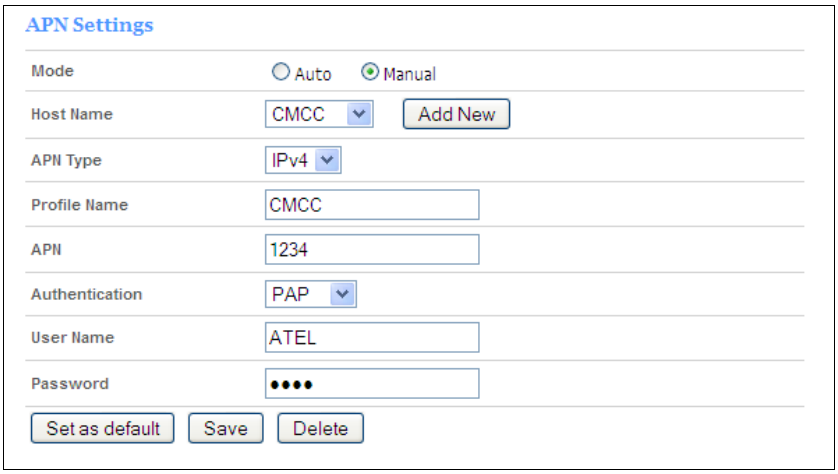


Figure4-5-1-3 Choose the user-defined APN

4.5.2 PIN Management

From this page, you can see the USIM card status and PIN status.

The default PIN status is disabled, you can input the correct PIN to enable the PIN function. The maximum PIN attempts are 3, otherwise you must enter PUK to reset the PIN code. The USIM will be invalid after the unsuccessful attempts for 10 times.

- **PIN Management**: Enter the correct PIN to enable or disable the PIN function, PIN code should be 4 to 8 digits;
- **PIN change:** You can input the current PIN code 1 time and the new PIN code for 2 times to change the PIN code. PIN code should be 4 to 8 digits.
- **PUK Management**: Input the correct PUK code and the new PIN code for 2 times to reset the PIN code. The PIN code should be 4 to 8 digits.

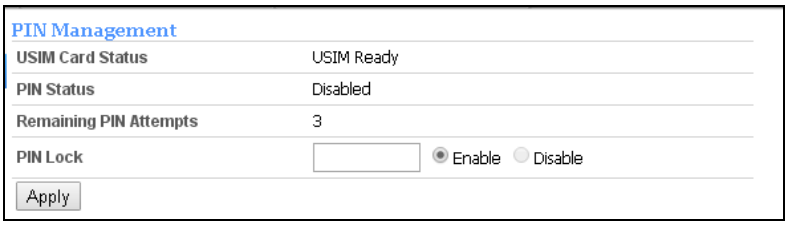


Figure 4-5-2-1 PIN Management page

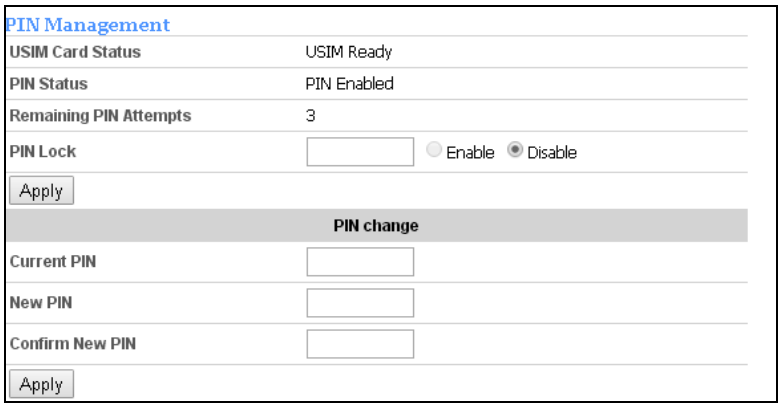


Figure 4-5-2-2 Enable the PIN

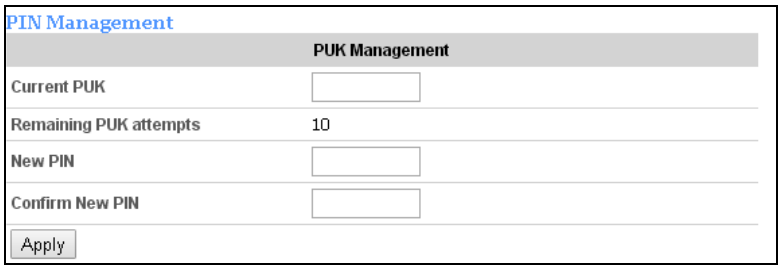


Figure 4-5-2-3 PUK Management page