LohuisNetworks

11N Wireless Broadband Router

（LHN300R）

User Manual

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Chapter 1 Product Introduction

1.1 Overview of the product

At first, Thank you for choosing LHN300R.

LHN300R 11n Wireless Router integrates 4- port Switch Firewall ,NAT-router and Wireless AP, the Wireless N Router delivers exceptional range and speed, which is fully meet the need of Small Office/ Home Office(SOHO) networks and the users demanding higher networking performance.

LHN300R complies with IEEE 802.11n(Draft 2.0),expand the wireless covering range, the transmission speeds of up to 300M,supports 802.11b/g.The transmission adaptability is improved that it's easy to be mutually managed with the other network devices. Large-scale wireless covering space offer a free and comfortable network. Steady data transmission and the broadband support your surfing, downloading MP3, IP telephone, file sharing, network games...

LHN300R 11n Wireless Broadband Router offer mulriple security setting, that protects users in the wireless network. It supports SSID broadcast stealth mode to effectively prevent the SSID telling; supports WEP wireless data encryption to make sure the data transfers safely; installs special firewall to prevent the Anti-attack.

LHN300R11n Wireless Broadband Router offers extensive managing feature, supports DHCP Server, DMZ host computer, dummy server; It is enable to establish interior LAN, allows many computers share the single broadband line and ISP account access internet; Supports accessing control to manage the user purview in the LAN.

LHN300R 11n Wireless Broadband Router is easy to be installed and collocated. For full using its functions, please read the user manual carefully.

1.2 Main Feature

- Integrates 4-port switch, supports four 10/100 Ethernet (LAN) Ports.
- Supports wireless transmission speeds up to 300Mbps,possesses the transmission adaptability.
- Supports encryption and security WEP/WPA2,WPA-PSK/WPA2-PSK.
- Supports SSID broadcasting control
- Supports WPS quick installation security to encrypt quickly.
- Supports DHCP server, and supports static IP Address Change
- Integrates firewall feature, supports MAC/IP address Filtering.
- Supports dynamic DNS, offer Domain name service for the dynamic IP address.
- Integrates static routing and RIP routing to construct the special network topology.
- Supports WEB software upgrade to renew the router's software expediently.
- Supports WEB management to setup the interface easily.

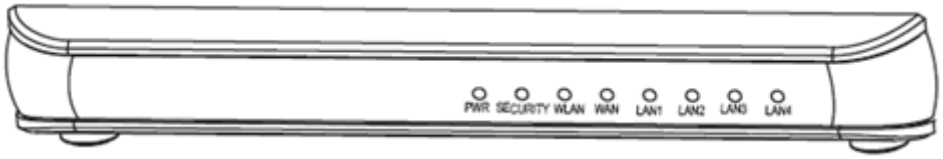
Chapter 2 Hardware description

This chapter will introduce how to install the wireless broadband router, for example installing it under Windows XP.

2.1 Panel dispose

2.1.1 Front panel

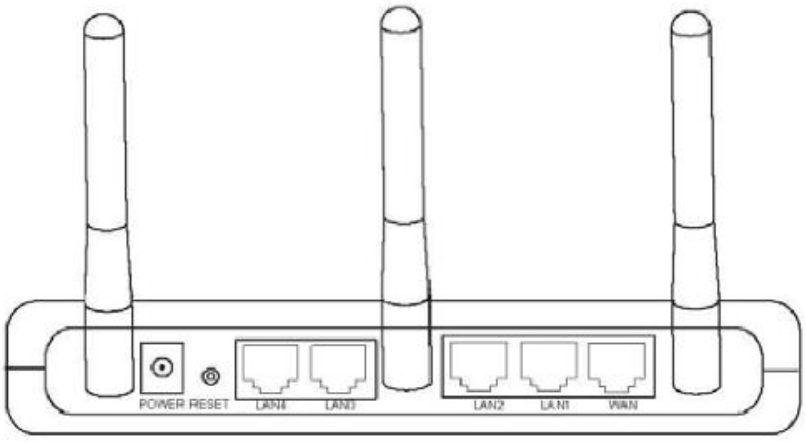
There are eight state indicator lights, show the states below:



Sketch Map of LHN300R front panel

LED	Mode	Indication
Power	Off	The router is not powered. Check if the router is plugged in and if the power switch is turned on.
	On	The router is powered on.
System	Blinking	The router is working property
	Off	The router has a system error
WLAN	Off	The Wireless function is disabled
	Blinking	The Wireless function is enabled
WAN	On	connecting
	Off	Not connected
	Blinking	Transfers the data
LAN(1-4)	On	connecting
	Off	Not connecting
	Blinking	Transfers the data

Back panel



Sketch Map of LHN300R back panel

- POWER: Port for power

☞ **Note:** Power Supply Unit: Input: Localized to Country of Sale, Output: 12VDC / 1A Switching PSU. Using the in-coordinate power maybe shatter the router

- RESET: Button for replacing, uses for coming back to the default setting
- LAN(1-4): Port for LAN, the port connects with LAN hub, switch and computers with adapter.
- WAN: Port for WAN, uses for connecting with WAN cable or the Ethernet port of ADSL modem.
- Antenna: uses for dispatching and receiving the wireless data.
- **Reset:**

  Pressing the reset button for 5 seconds, the router will start again and resume

  to factory default setting.

2.2 System requirements

- Broadband Internet Service (Connect ways : with Ethernet broadband, or with ADSL).
- The modem with Ethernet ports(needn't it when connecting with Ethernet broadband.)
- Every device need Ethernet connecting devices(wireless adapter, wired adapter or cable.)
- Internet Explorer 6.0 or higher edition (through WEB page to set up the router)

2.3 Install environment

The Router should be installed levelly, keeps dryness dustless, ventilation, far away from the heaters/ dirty places /moist.

Working temperature: 0℃～40℃

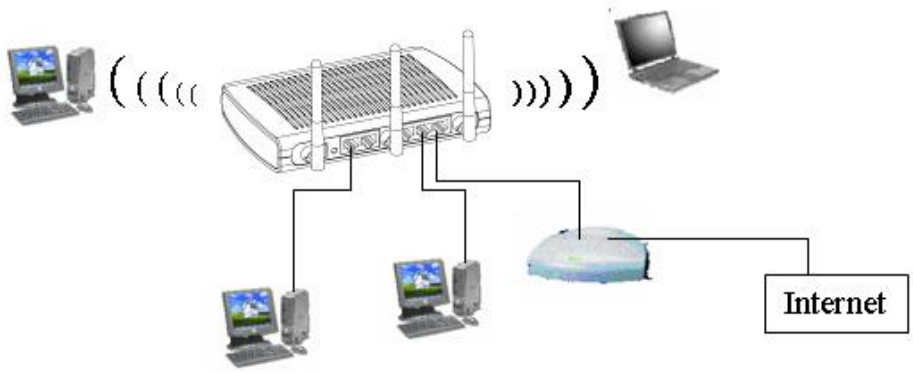
Working humidity: 10%～90% non-condensing;

Power: AC power adapter: 5V~2A

Chapter 3 Collocate Guide

Introduce how to install the router in this chapter, make installing under windows XP as example.

3.1 Hardware link



Sketch map of the hardware link

☞ **Note:** LHN300R 11N Wireless Broadband Router allows to be connected by wireless and wired ways, we recommend to connect it by wired way for the first time.

3.2 Computer Setting

1) Find out the icon network Places on your desktop, click it by right key , choose attributes.

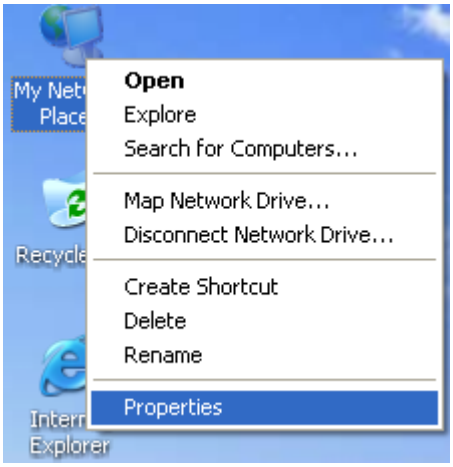
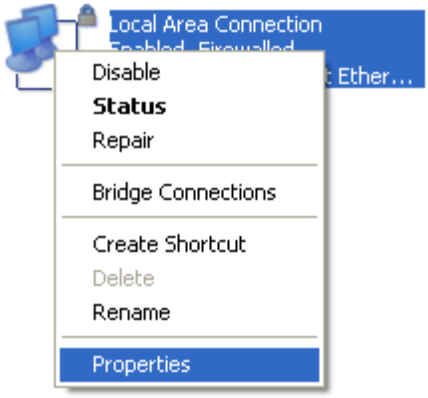


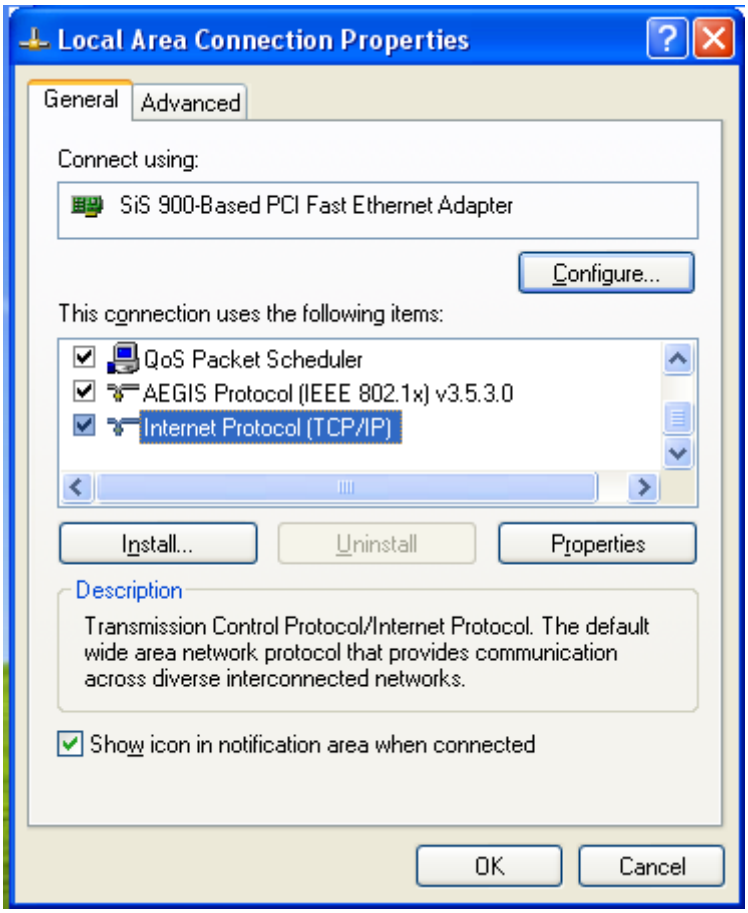
Figure 1-1

2) Click **properties** option, pop-up a new page. In the new page, click the right key of the mouse and joins Local chaining, click "**properties**" button.

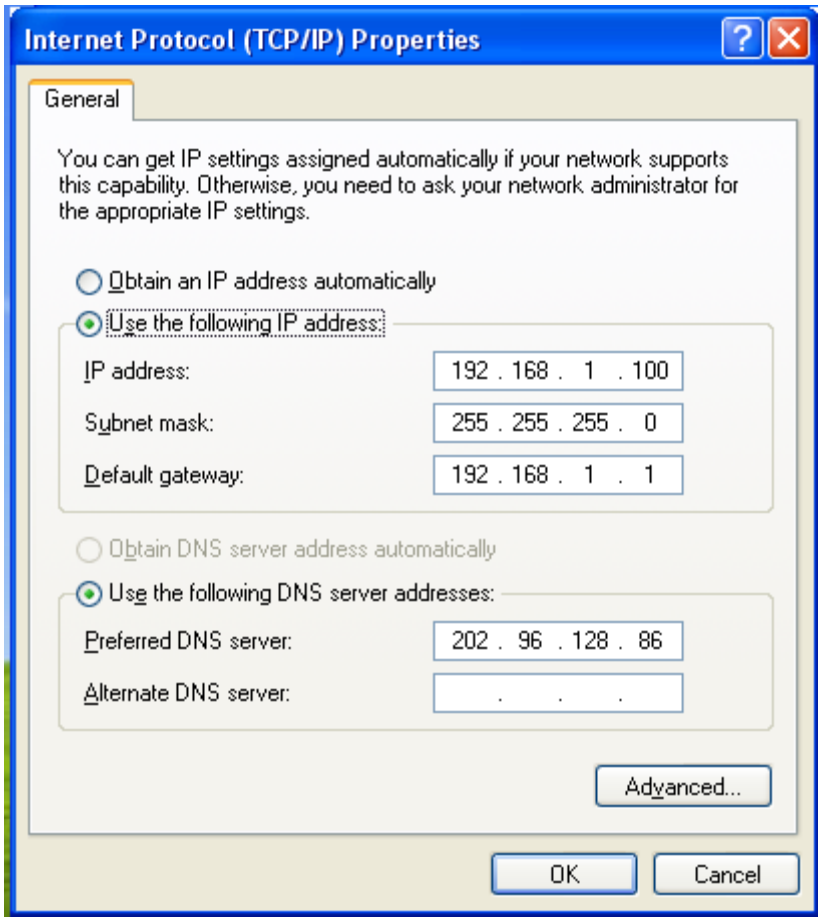


☞ **Prompt: "control panel→ network and internet connect→ network connection"** to find local connection.

3) Choose and double click the left key internet agreement (TCP/IP) in the following dialog box.



4) Choose and use the following IP address in the new dialogue box.



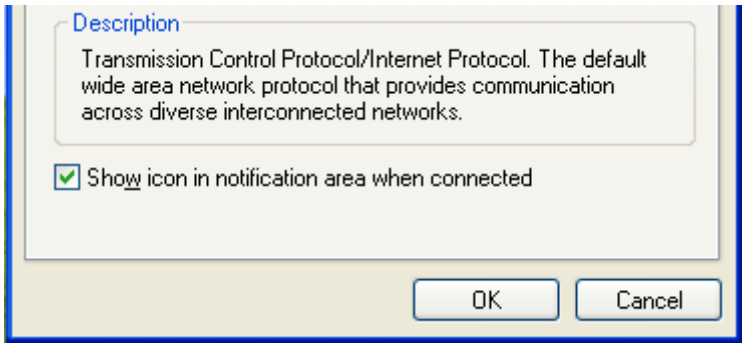
☞Note **IP address**:192.168.1.X(2 ≤ X ≤ 254) **Subnet Mask**：255.255.255.0

Default Gateway: 192.168.1.1

DNS server address, please inquire the ISP.

☞ Note Be able to choose **"Obtain an IP address automatically",** however we recommend you input the IP address by hand.

5) Click "**confirm**", then come back to last dialogue box. Click "confirm" by left key.



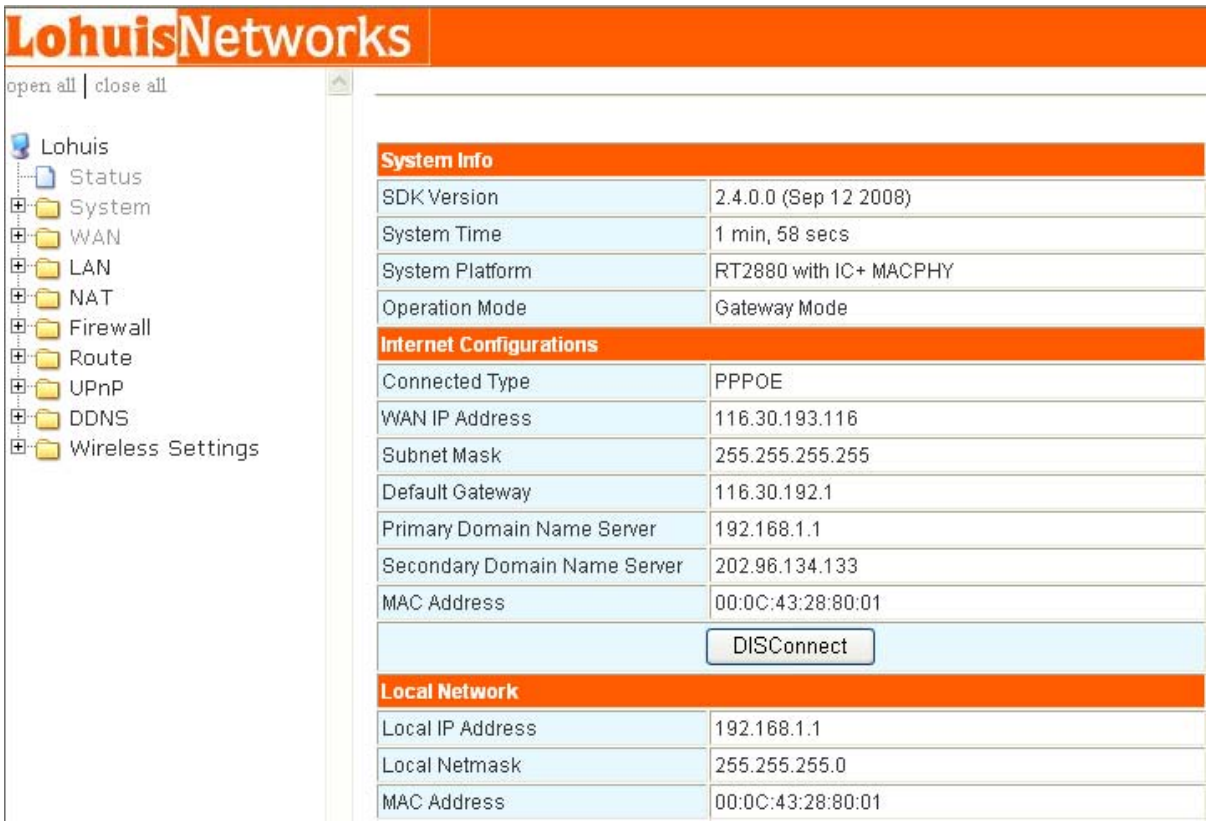
3.3 Wireless Broadband Router Login

1) Login WEB manage interface, and open IE browser, input http://192.168.1.1 on the address blank. Click "**OK**", pop-up a new dialogue box, input user name and password, click "**OK**" by left key.

☞ **Note:**

System default username: admin, password: admin.

After successfully login into the router's management interface, the browser will show you the administrator's mode ,as the following picture. In left of menu bar: Status、System、WAN、LAN、NAT、Firewall、Route、UPnP、DDN、Wireless Settings. Click one of the buttons to setup the feature. Later the picture shows the details of how to use each button.



3.4 Status

Click **Status** menu to examine the current status messages of the wireless router, including System Info、Internet configuration、Local Network、Ethernet Ports status, as the pictures:

System Info	
SDK Version	2.4.0.0 (Sep 12 2008)
System Time	1 min, 58 secs
System Platform	RT2880 with IC+ MACPHY
Operation Mode	Gateway Mode

Internet Configurations	
Connected Type	PPPOE
WAN IP Address	116.30.193.116
Subnet Mask	255.255.255.255
Default Gateway	116.30.192.1
Primary Domain Name Server	192.168.1.1
Secondary Domain Name Server	202.96.134.133
MAC Address	00:0C:43:28:80:01
DISConnect	

Local Network	
Local IP Address	192.168.1.1
Local Netmask	255.255.255.0
MAC Address	00:0C:43:28:80:01

Ethernet Port Status

- System Info: display the router's current software edition, working hours, chip and project, handling mode…
- Internet Configuration: display the router's how to connect with internet, IP address of WAN port, Subnet Mask, gateway , main DNS, standby DNS and MAC address…
- Local Network: display the router's IP address of LAN, subnet mask, MAC address.
- Ethernet Port Status: display the state of router's ports.

3.5 System

Choose menu **System** to setup and examine system information, including Management、Upload Firmware、Settings Management、System Log. Later introduce each of them:

3.5.1 Management

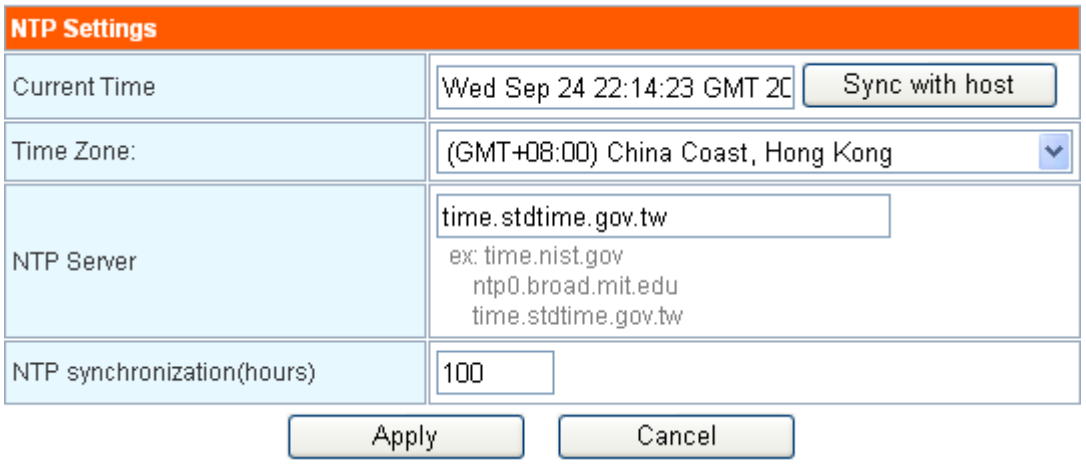
Open the menu by left key to show the following interface, this part shows the system management information

Adminstrator Settings	
Account	admin
Password	●●●●●

Apply Cancel

- If you want to amend the user name and password, input the new ones in the **Account, Password,** then click the button **Apply** to finish it, or click **Cancel.**

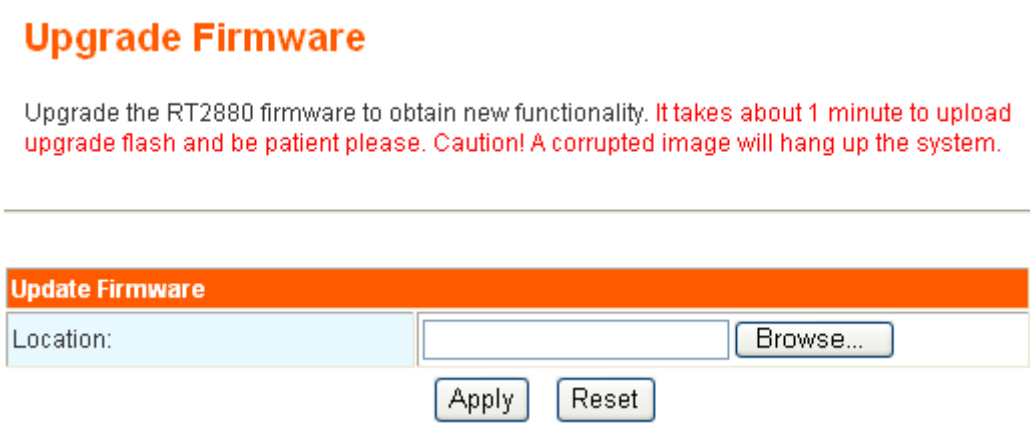
☞ **Note:** System default account and password are **admin.**



- Current Time: display the current date and time of the router, click button **Sync with host** to make it synchronization as the computer who connects with it.
- Time Zone: display the zone, please choose the local zone of user.
- NTP Server: input NTP server address, such as: time.windows.com. click **Apply** to make the router's time synchronization as NTP server' time.
- NTP synchronization(hours)：display the NTP synchronization time.

3.5.2 Upload Firmware

Choose **Upload Firmware** to show the following interface.

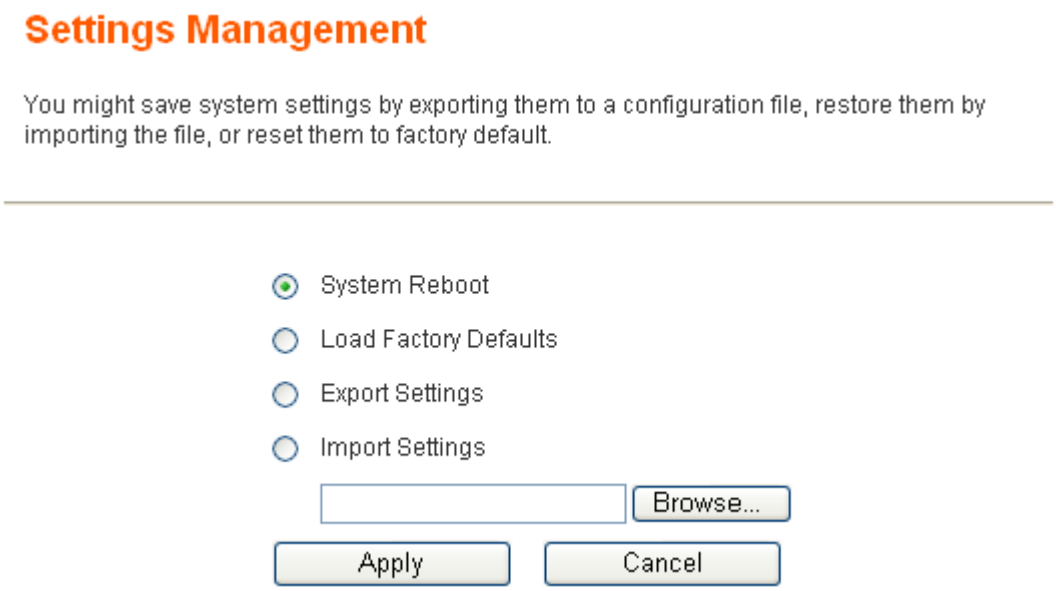


Click **browse** to appoint the upgrading Firmware program, then click Apply to finish.

☞ Note: Present to power off during upgrading the Firmware, or the device is unable to startup.

3.5.3 Settings Management

Choose menu **Settings Management** to pop-up the following interface.

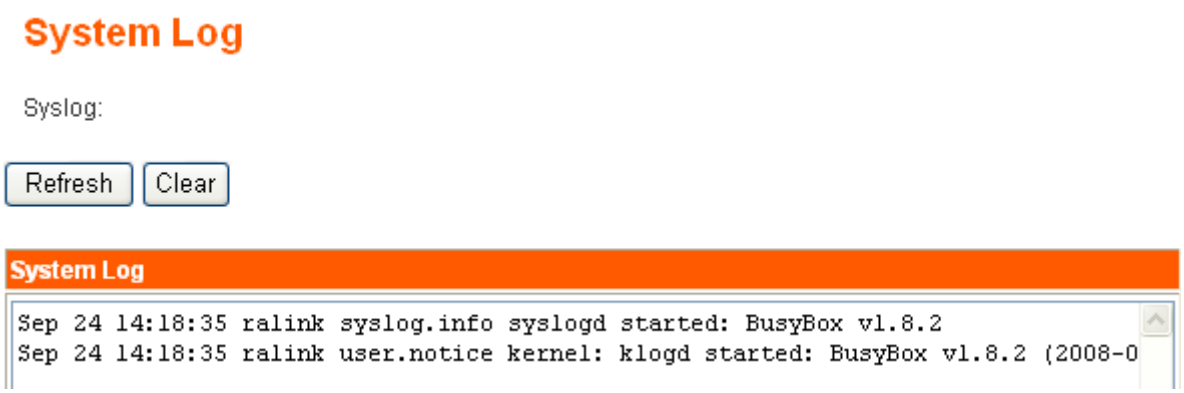


- System Reboot: Restart the system
- Load Factory Defaults: resume factory default setting.
- Export Settings: Export configuration files.
- Import Settings: Import configuration files.
- For setup expediently, be able to save the setting and import, resume the saving setting. Click **Apply** to confirm the feature, or click **Cancel**.

3.5.4 System Log

Choose menu **System Log** to display the following interface，this menu is for showing

The router's log. If click button **Refresh** to refurbish the log file. If clicking the button **Clear** to eliminate the current log file.



3.6 WAN

Choose Menu **WAN，**which includes **WAN** and **DNS** submenus ,you can setup the WAN port's

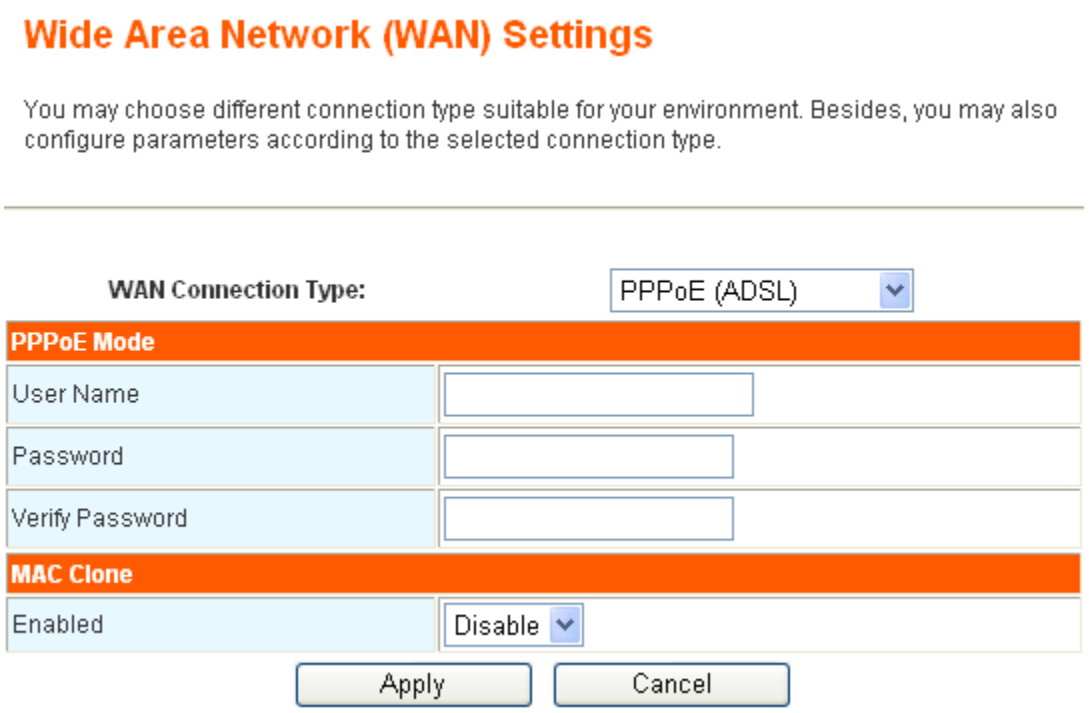
Network data in the following interface.

3.6.1 WAN

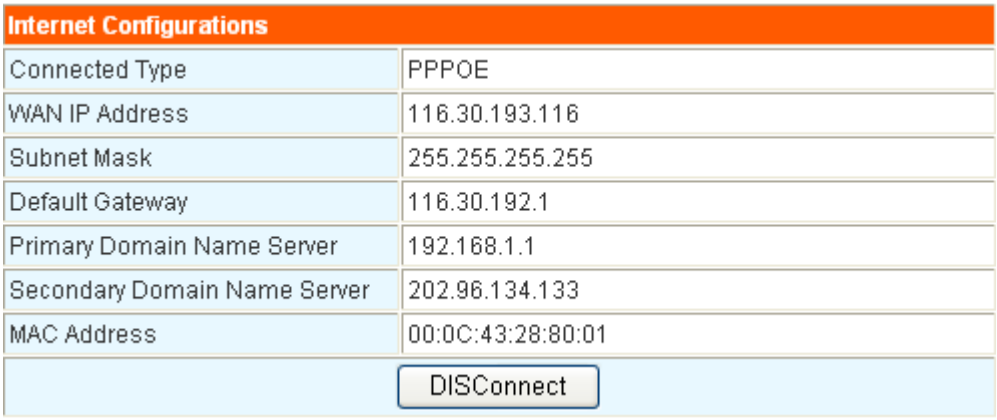
WAN is English abbreviation of "wide area network", there are five connecting ways: PPPOE、DHCP、Static、L2TP、PPTP. During the setting, please make sure what is your connect way.

1) PPPoE (ADSL)

If you are provided the ADSL dial-up service, please choose **PPPoE**(point-to-point protocol over Ethernet),and you will see following page shown. If you are provided PPPoE, the ISP should provide the account and password. After the setting, click button **Apply** to finish.



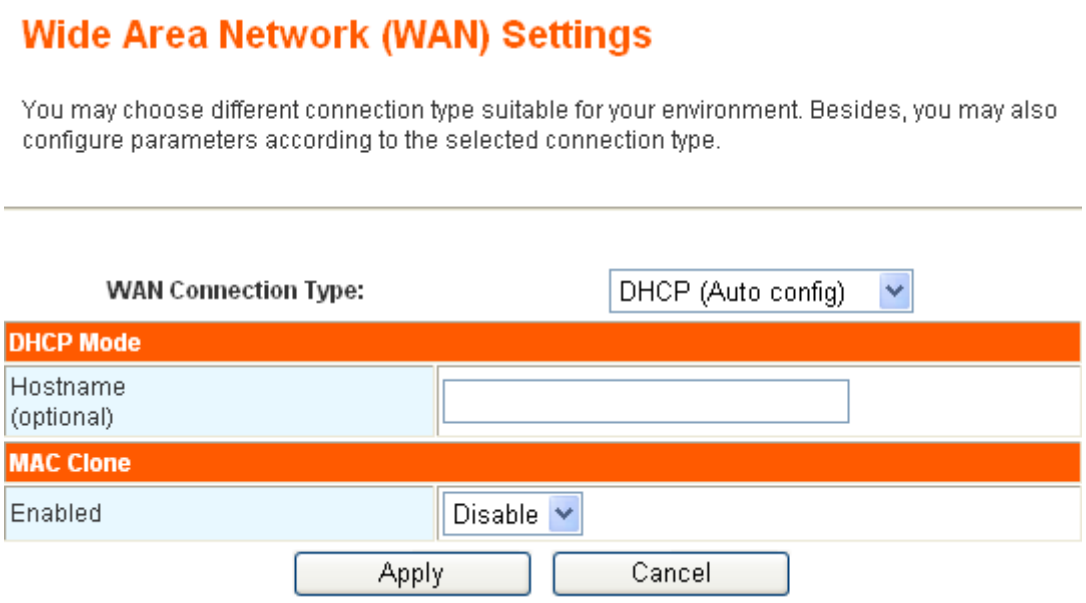
After Using PPPOE dial-up, you can check whether it is successful or not in the menu Internet Configurations. If it shows the IP address in WAN IP address, that means PPPOE dial-up successfully as the following picture shown.



2) DHCP（Auto config）

DHCP means Dynamic Host Control Protocol，which bases on server/client server mode. WAN port can be as the DHCP client server to obtain IP address from the connecting DHCP clients server. After setting, please click **Apply** to finish it.

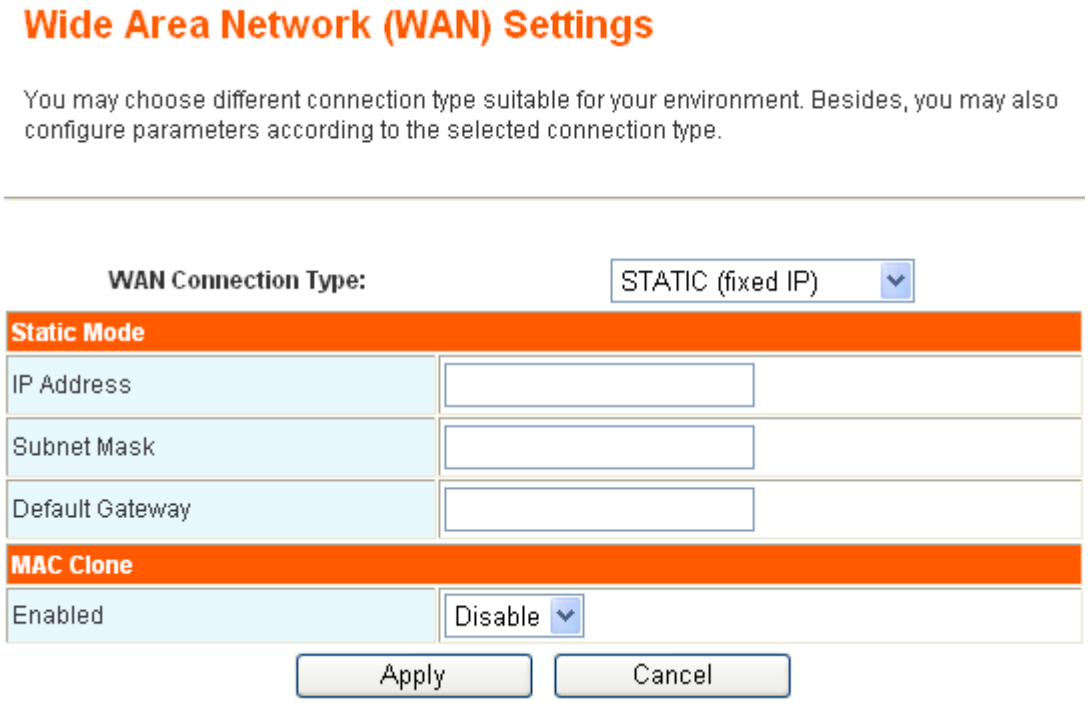
☞ **Note:** **Hostname** is optional, it can be blank without any content.



3) STATIC (fixed IP)

STATIC(fixed IP) is static IP address connecting way. Finish the setting as the interface

Requirement**,** then click button **Apply** to finish it. If you want to connect with internet network, please fill the blank as the information ISP provides.

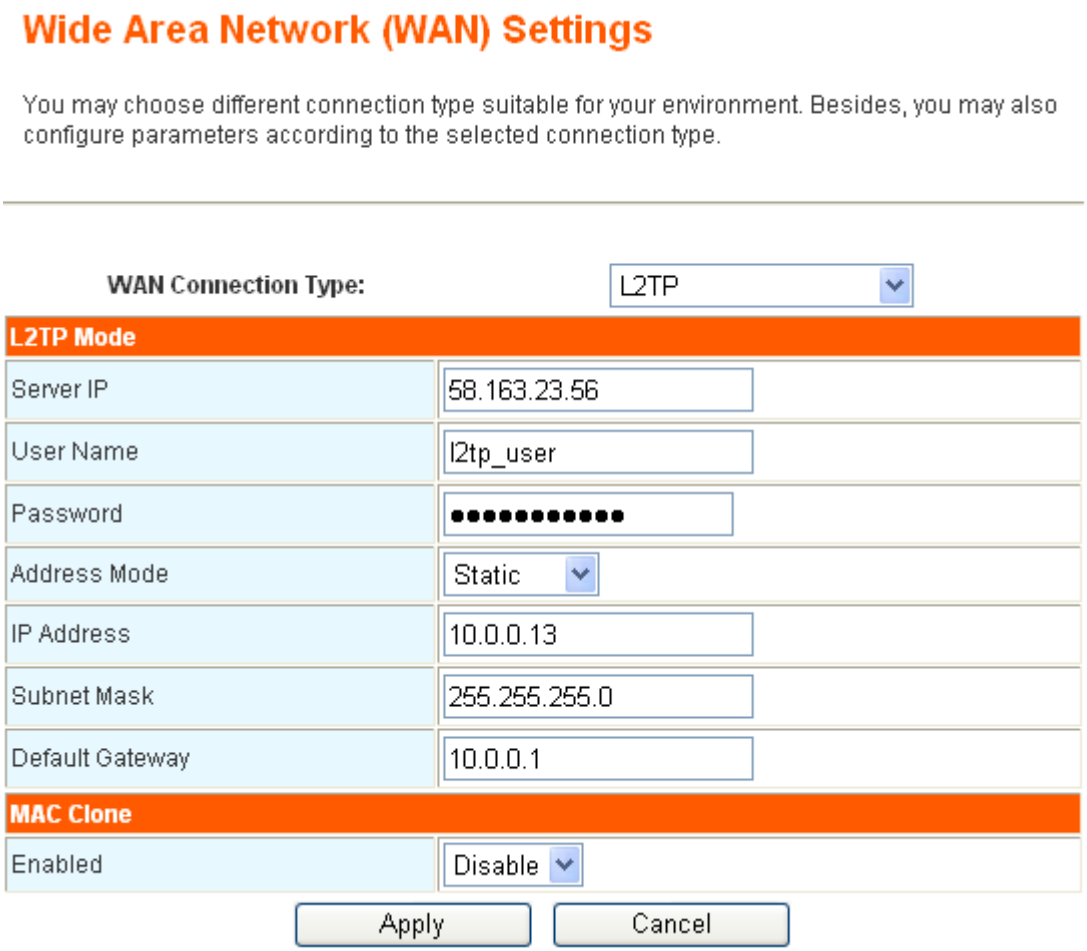


4) L2TP

L2TP is Layer Two Tunnel Protocol，users can connect with remote VPN server through

The **L2TP.** Finished the setting to pop-up the following picture, click button **Apply** to finish

it. If you need to connect with internet, please fill up as the information as the ISP provided.



- Server IP: Import the VPN server's IP address.
- User Name: The user name connect with VPN server.
- Password: Password to connect with VPN server.
- Address Mode: Static/ Dynamic

Static: after import and dial-up VPN server, connected with the other LAN's IP address, subnet mask, default gateway.

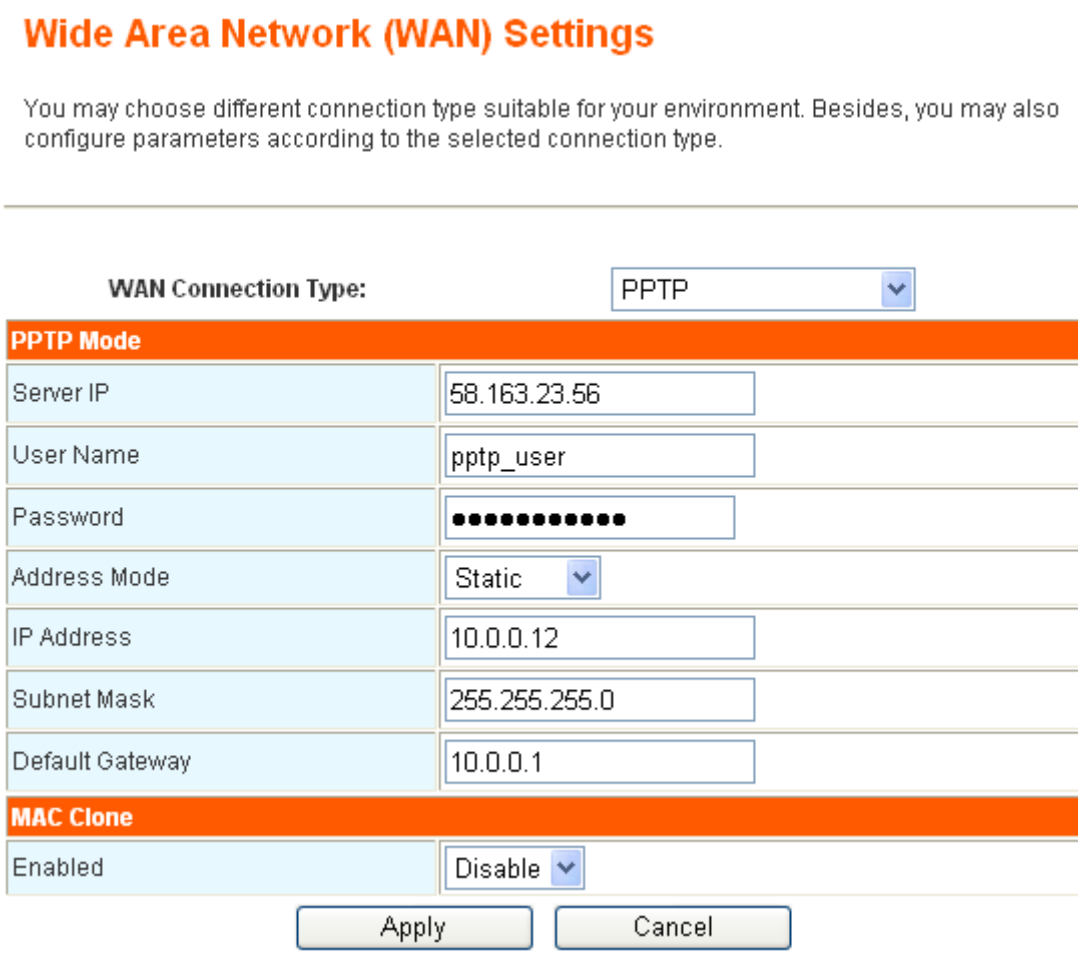
Dynamic: Dial-up VPN server, can dynamic obtain IP address from the other's interior network DHCP server.

5) PPTP

PPTP is point-to-point Tunnel Protocol, users can connect with remote VPN server

Though **PPTP** protocol. Finished the setting as the following interface, click button

Apply to finish it.



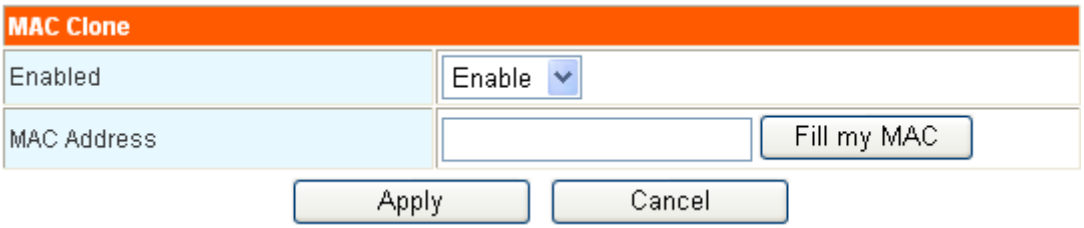
- Server IP: Import the VPN server's IP address.
- User Name: The user name connect with VPN server.
- Password: Password to connect with VPN server.
- Address Mode: Static/ Dynamic

Static: after import and dial-up VPN server, connected with the other LAN's IP address, subnet mask, default gateway.

Dynamic: Dial-up VPN server, can dynamic obtain IP address from the other's interior network DHCP server.

6) MAC Clone

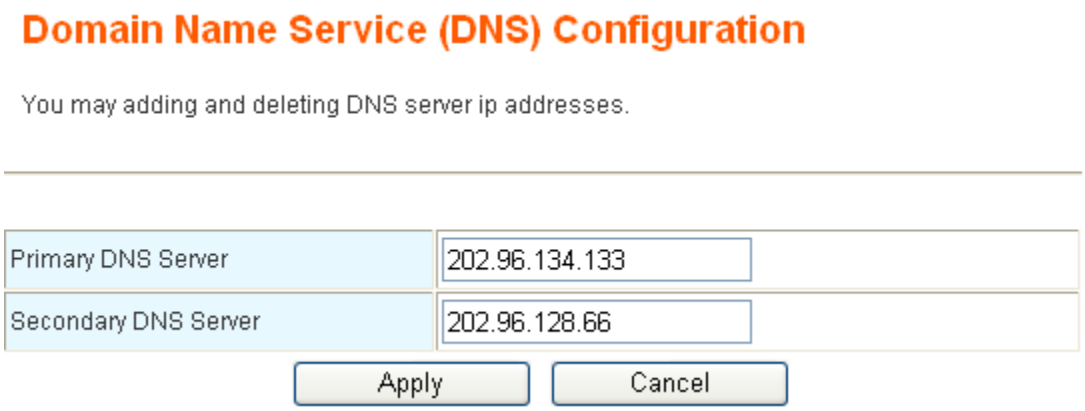
MAC Clone means cloning the MAC address. MAC address（Media Access Control）is a physical address of the network devices. You can clone the MAC address of the current computer adapter to the WAN port of the router, to breach the confine of Multi Computers.



- Enabled: Open/ close the feature of MAC address clone.
- MAC Address: Import the MAC address that the internet ISP binding and allowing.

3.6.2 DNS

DNS is Domain Name Service system, after finished the setting as the following picture, then click button **Apply** to finish it. If you want to connect with Internet, please fill in the blank as the information that the ISP provided.

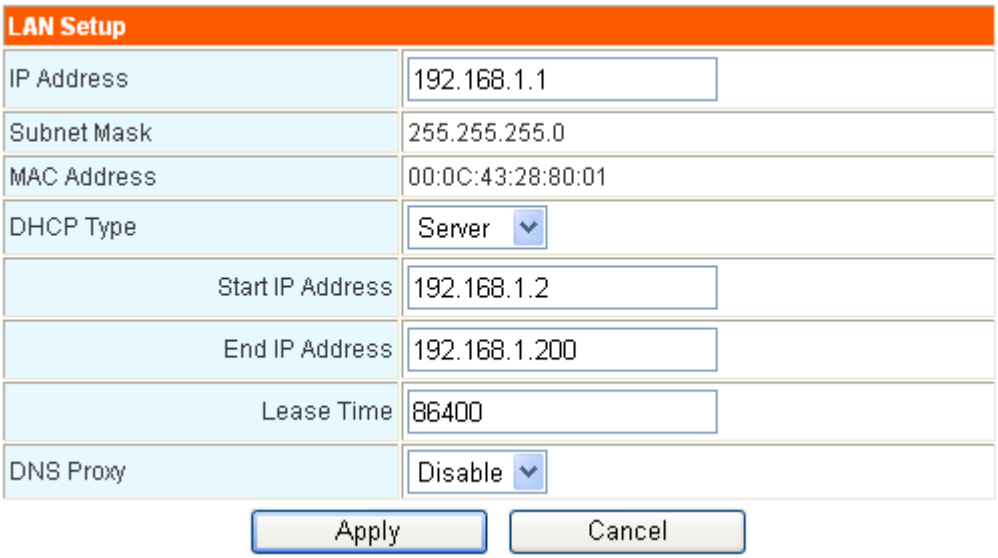


- Primary DNS Server: Main DNS server.
- MAC Address: Secondary DNS server.

When the primary DNS server stop , the device will switch DNS to the secondary server automatically. If the computer adapter connected with the router's LAN port was set as DNS automatically obtain, the appointed IP address will be the DNS server address of the computer adapter.

3.7 LAN

3.7.1 LAN Menu LAN, shown the interface as the following picture, you can setup the network data as the interface requirement. Finished, then click button **Apply** to take effect.



- IP Address：IP address of LAN port.
- Subnet Mask：Subnet Mask，immutable.
- MAC Address：MAC address of LAN port, immutable.
- DHCP Type：Server/Disable。

This router has DHCP Server feature, if DHCP Type chooses server, the network device connecting with router's LAN port will dynamic obtain IP address.

- Start IP Address: the incept IP address of IP address pool.
- End IP Address: the last IP address of IP address pool.
- Lease Time：time of dynamic IP address releasing.
- DNS Proxy：Disable/Enable。

If DNS proxy chooses Enable, the network device connecting with router's LAN port will setup IP address of DNS server to be router LAN port's address. The router will be the DNS fungible server.

☞ **Note:** The factory default of router LAN port address is 192.168.1.1 。

3.7.2 DHCP Clients

Open DHCP clients menu, you can see the host computer information through router's DHCP

server, such as MAC address, IP address and valid time of operating. As the following picture.

3.8 NAT

Choose NAT menu which includes two submenu DMZ and Port Forwarding ,Later let's introduce them individually.

3.8.1 DMZ

Click **DMZ** menu by left key, shown the following interface. During setting, input the **DMZ** host computer's IP address in LAN, then click **Apply**.

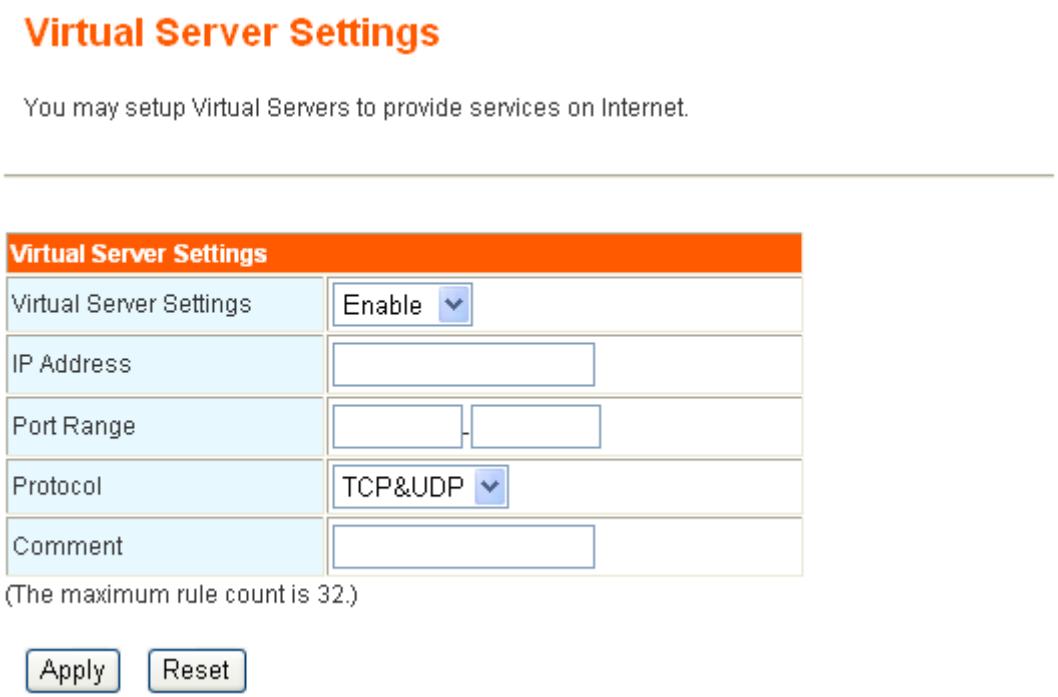
- DMZ Setting：Open /close DMZ host computer.
- DMZ IP Address：Input DMZ host computer's IP address in LAN.

☞ **Note:** When the PC was set as DMZ host computer, it will been divulged to the LAN. That maybe unsafe , so please keep be cautious to this setting.

3.8.2 Port Forwarding

Choose **Port Forwarding** menu, you can see the following interface. After setting, click

Apply .This menu is used for setting virtual server. The Virtual server can define one server port, all requirements from outside will transmit to the appointed server in the LAN(appoint through IP address),so the user out of the LAN can visit the servers safely to present to effect the network safety in the LAN.



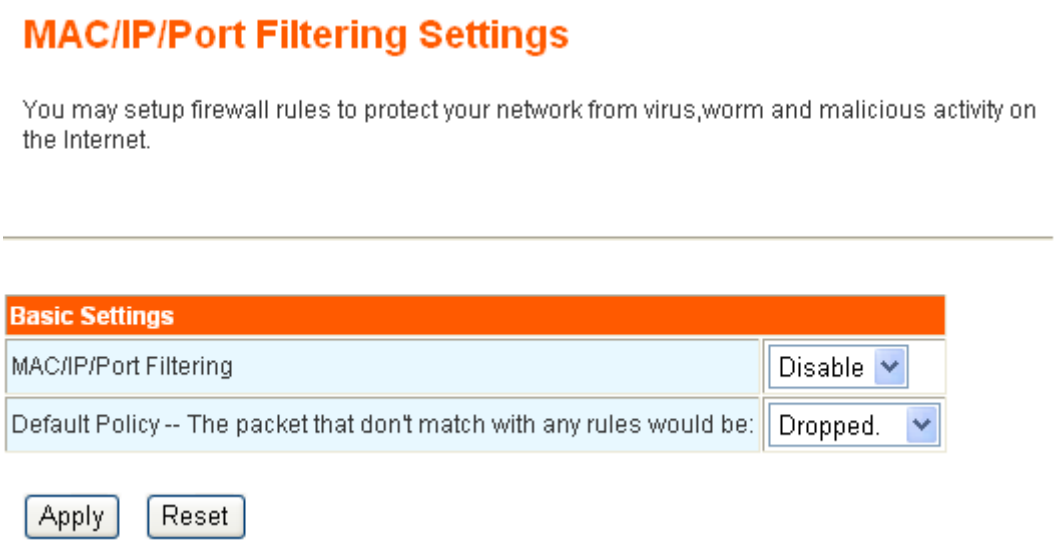
- Virtual Server Settings: Open / close virtual server
- IP Address：The PC'S address which was appointed as the virtual server in LAN
- Port Range: Range of opening port, WAN user transmit requirement from this port to getparms.
- Protocol: virtual server uses the optional protocol-- TCP&UDP、TCP、UDP.
- Comment: description of offering service.

3.9 Firewall

Choose menu Firewall, shown the following interface to setup the router' s firewall feature, including IP address, MAC address, Port, Starting and setting filtration of content filtration .

3.9.1 Basic Settings

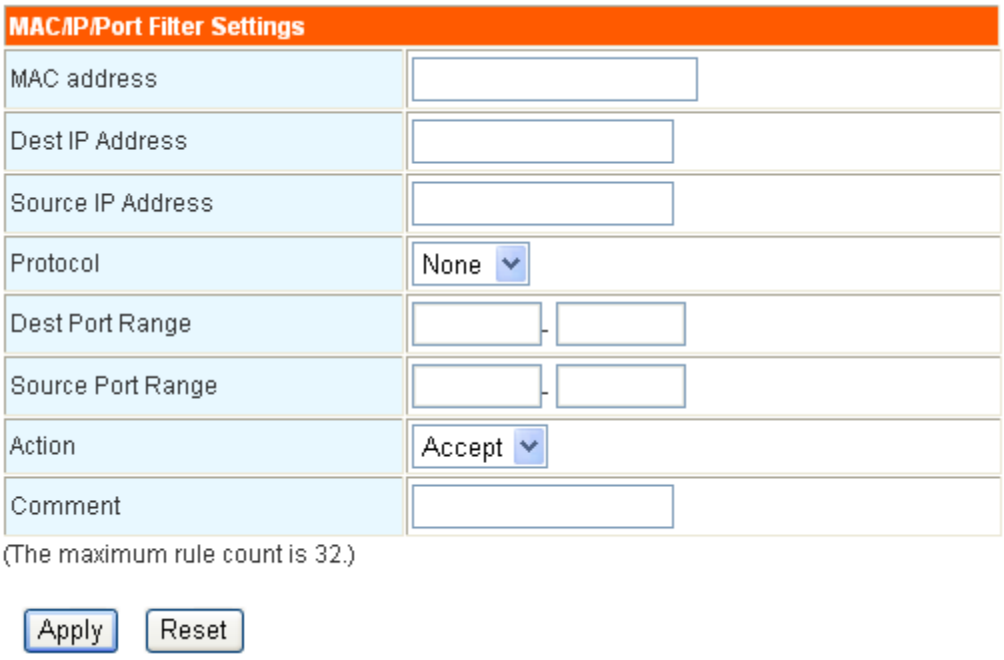
After opening the Firewall, MAC/IP/Port filtration setting will be operated.



- MAC/IP/Port Filtering: Open and close the Firewall.
- Default Policy：Default Formula, defines the incoordinate data message will be discarded or accepted.

3.9.2 MAC/IP/Port Filtering

Import the **MAC/IP/Port** which need filtrate, then choose the protocol and transmit codex, at last click **Apply**.



- MAC Address: MAC address of the computer.
- Dest IP Address: Aim IP address.

- Resource IP Address: Resource IP Address.
- Protocol: 4 Protocol options-- NONE、TCP、UDP、ICMP.,
- Dest Port Range : Dest Port Range
- Resource Port Range: Resource Port Range.
- Action: Choose discarding or accepting the suited data.
- Comment：Description of filtering protocol.

3.9.3 Content Filter

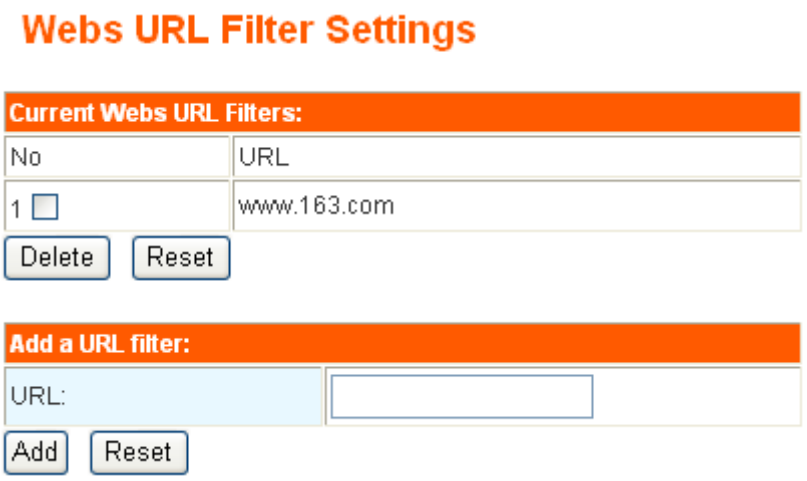
Click Menu **Content Filter** by left key, shown the following interface, this menu includes three features: Webs content Filter、URL Filter、Host(Keyword) Filter.

1) Webs Content Filter

Can choose to filter **Proxy、Java、ActiveX.**

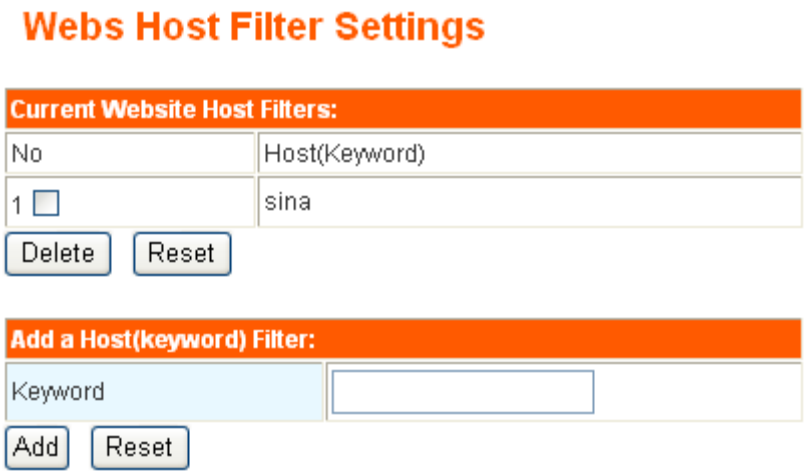
2) Current Webs URL Filter

Import the webs need filter, that can confine the visitation of the appointed URL webs.



3) Current Website Host Filters

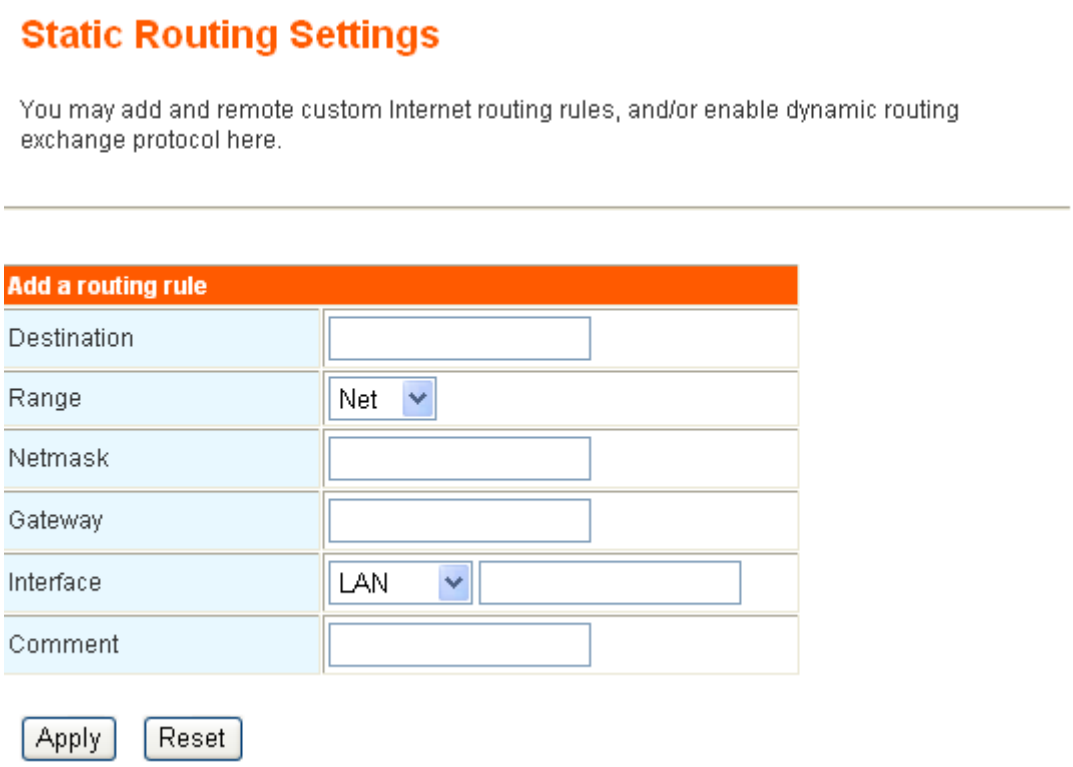
Import the keywords need filter, that can confine the visitation of the URL webs included with the keywords.



3.10 Routing

Choose Menu Routing, which includes two submenu **Static Route** and **Dynamic Route.** You can setup Static Route and Dynamic Route.

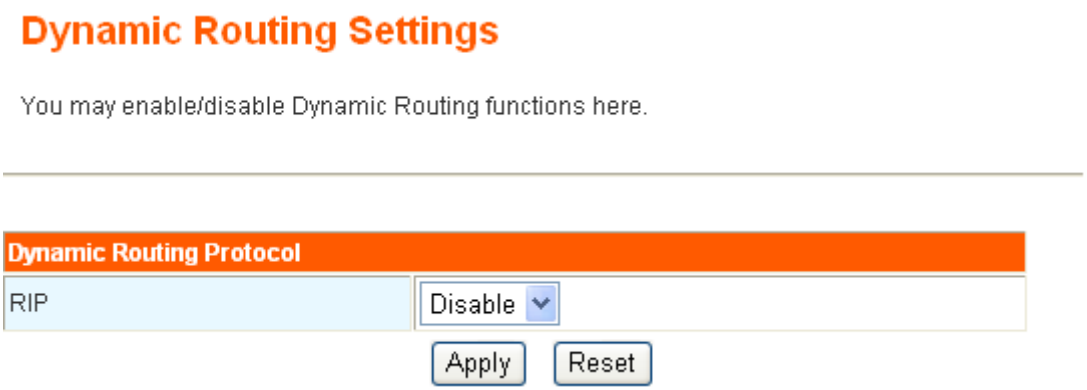
3.13.1 Static Route Click menu **Static Routing Settings** to be shown the following interface, that setup **Static Route .**



- Destination: Import Aim IP address.
- Range: Mainframe / network, to setup the corresponding subnet mask.
- Net mask: Import subnet mask.
- Gateway: Import the gateway's IP address.
- Interface: LAN/WAN/Custom，to choose routing port.
- Comment：Description of Routing codex.

3.13.2 Dynamic Route

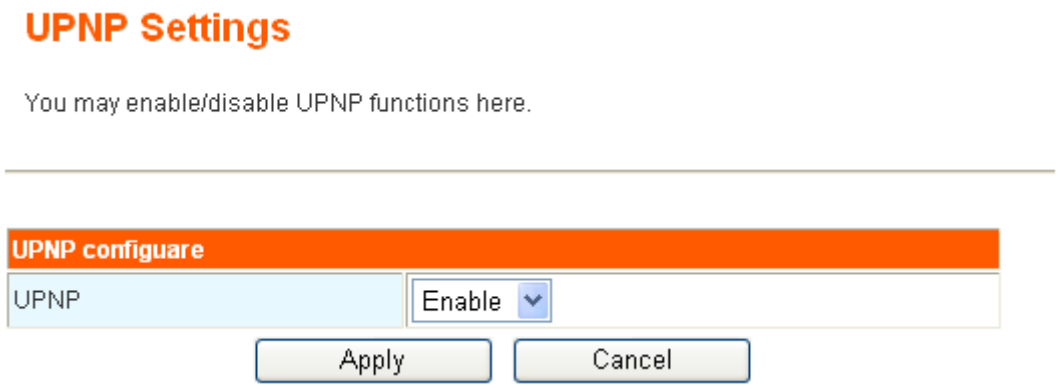
Click menu **Dynamic Route Settings** by left key, shown the following interface. Through RIP dynamic route protocol to connect two routers.



- Enable: Open RIP routing.
- Disable: Close RIP routing.

3.11 UPNP

Click menu **UPnP Settings, UPnP** is an English abbreviation of Universal Plug and Play. Opening feature **UPnP** can improve the loading speed of **UPnP** loading software. In Widows operating system, only Windows XP supports **UPnP** feature.

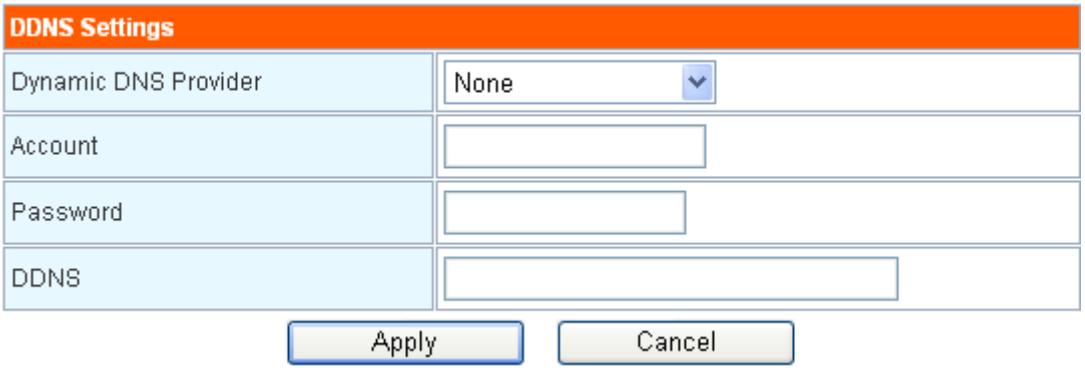


4 Enable: Open **UPnP**

5 Disable: Close **UPnP**

5.1 DDNS

Choose menu **DDNS Settings**, show you the following interface. **DDNS** is abbreviation of Dynamic Domain Name Serve. DDNS can map the dynamic IP address to a fixed domain name resolving server.



- Dynamic DNS Provider: Dynamic DNS Provider
- Account: Import the account that that dynamic DNS provider supports.

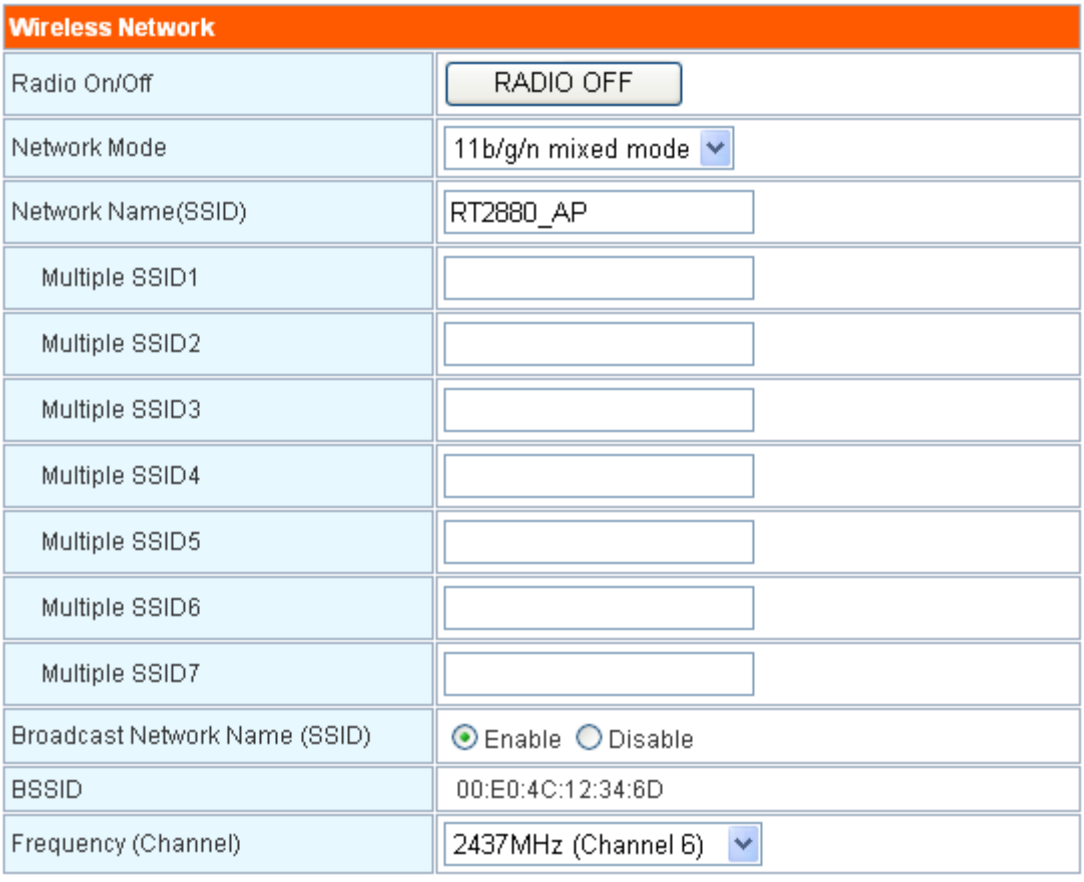
- Password: Import the password that that dynamic DNS provider supports.
- DDNS：Import the domain name that that dynamic DNS provider appoints

5.2 Wireless Settings

Choose menu **Wireless Settings**, which includes Basic、Advanced、Security、WPS、Station List .

3.13.1 Basic

1) Wireless Network



- Radio On/Off: Open/ close wireless function.

- Network Mode: 11b/g mixed mode、11b only、11g only、11b/g/n mixed mode.
- Network Name(SSID)：Name of wireless network.

  Multiple SSID(1-7): Multiple SSID。

  Wireless end can connect a router’s different SSID
- Broadcast Network Name (SSID): Allow /forbid SSID broadcast.
- BSSID: unique mark of wireless device, namely MAC of wireless device.
- Frequency(channel): Channel

2) WDS

WDS（Wireless Distribution System）can connect more to four AP by bridge or relay, to expand wireless network’s coverage range.

Wireless Distribution System(WDS)	
WDS Mode	Bridge Mode
Phy Mode	CCK
EncrypType	NONE
AP MAC Address	
AP MAC Addres	
AP MAC Address	
AP MAC Address	

- WDS Mode: WDS Mode, includes Disable/Lazy Mode/Bridge Mode/Repeater Mode

  Disable: don’t start **WDS** function.

  Lazy Mode: needn’t import the AP’s MAC address under this mode,

  Bridge Mode： Needn’t import AP’s MAC address.

  Under this mode, connecting with tow different LANs, the two wireless routers won’t accept any other wireless router’s connecting.

  Repeater Mode: For expanding the wireless network coverage, the two connecting wireless routers which are set as ends of relay accept the other wireless devices.

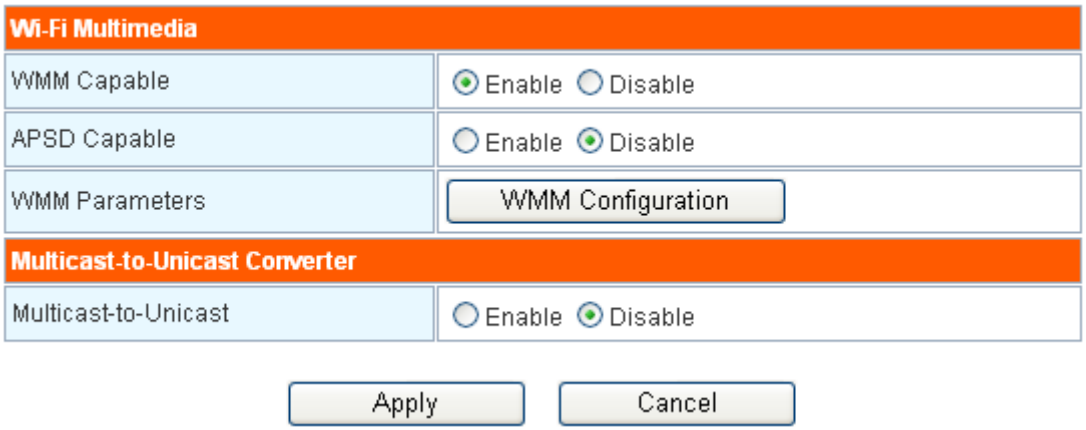
- Physical Mode: CCK, one confection mode the wireless devices used.
- Encrypt Type: including NONE/WEP/TKIP/AES
- Encrypt Key: Key of encryption.
- AP MAC Address: Import the MAC address that connecting AP needs.
- MAC importing format: ：XX:XX:XX:XX:XX

Advanced Wireless

Click **Advanced Wireless** by left key, show the following interface, at last click button **Apply.**

Advanced Wireless	
BG Protection Mode	Auto
Basic Data Rates	Default(1-2-5.5-11 Mbps)
Beacon Interval	100 ms (range 20 - 999, default 100)
Data Beacon Rate (DTIM)	1 ms (range 1 - 255, default 1)
Fragment Threshold	2346 (range 256 - 2346, default 2346)
RTS Threshold	2347 (range 1 - 2347, default 2347)
TX Power	100 (range 1 - 100, default 100)
Short Preamble	○ Enable ◉ Disable
Short Slot	◉ Enable ○ Disable
Tx Burst	◉ Enable ○ Disable
Pkt_Aggregate	◉ Enable ○ Disable
IEEE 802.11H Support	○ Enable ◉ Disable(only in A band)
Country Code	None

This router provides some advanced data to setup the wireless network. If you are not clear for the following data, please keep on the factory default.



- WMM Capable：WMM is a basic application of QOS, which makes media devices use network broadband firstly, to reduce network delay and advance the communication quality.

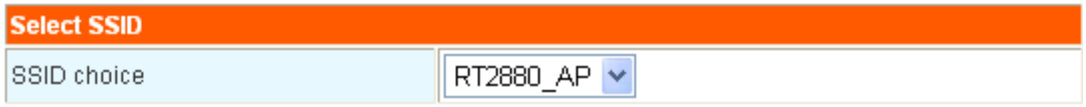
- APSD Capable：APSD（Automatic Power Save Delivery）to save power of WiFi devices.

3.13.2 Security

Click menu Security by left key. You can see the following interface. This part can setup the wireless broadband Router’ s security to confine illegal user’s visitation.

1) Select SSID

If you setup multiple SSID, you can choose SSID to setup each of them,

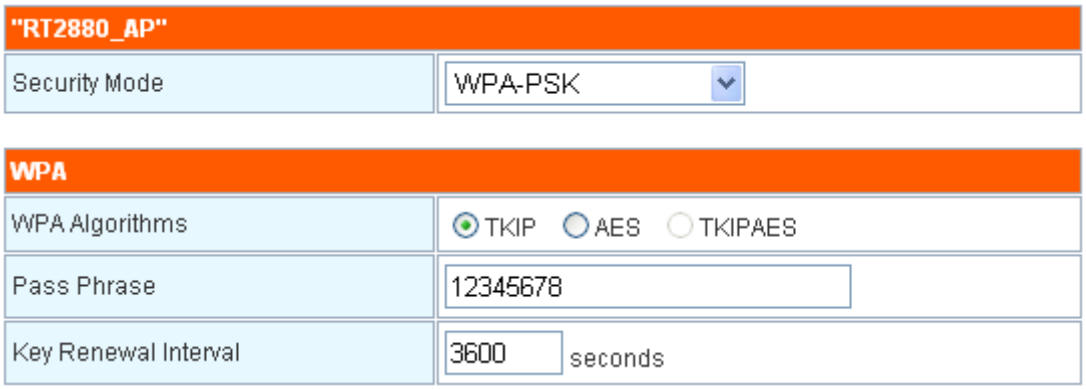


2) Security Mode

Choosing the encryption ways of security mode is quite important. It can confine the illegal user’s visitation to improve the network’s safety and reliability, Including the following modes:Disable/OPEN/SHARED/WEPAUTO/WPA/WPA-PSK/WPA2/ WPA2-PSK/WPAPSKWPA2PSK/WPA1WPA2/802.1X。

Choosing Disable, it won’t use any encryption ways. Choosing the other modes, all the user ends of wireless network need security validate.

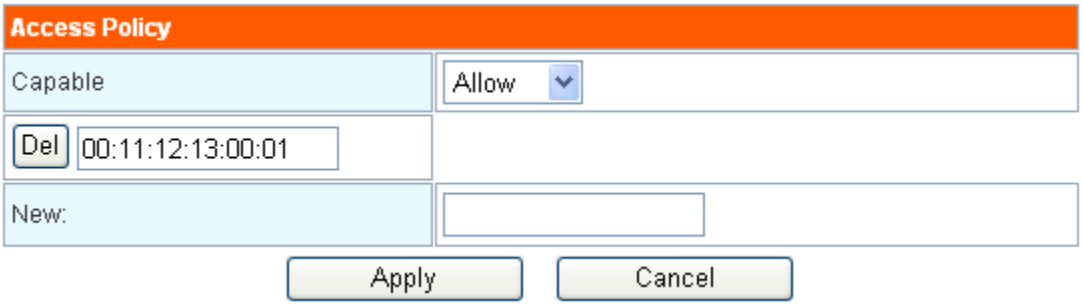
For example, setting wireless security with WPA-PSK. After setting, click button **Apply** to finish it,. The wireless user end can setup as this mode,



- Security Mode: Choose WPA-PSK
- WPA Algorithms：WPA encrypt arithmetic, can choose TKIP or AES。
- Pass Phrase: import the password. At least 8 letters longest is 63 letters.
- Key Renewal Interval：pass phrase’s renewing period, default is 3600 seconds.

3) Access Policy

Choose Access Policy to allow and forbid the MAC address PC access the wireless network resources.



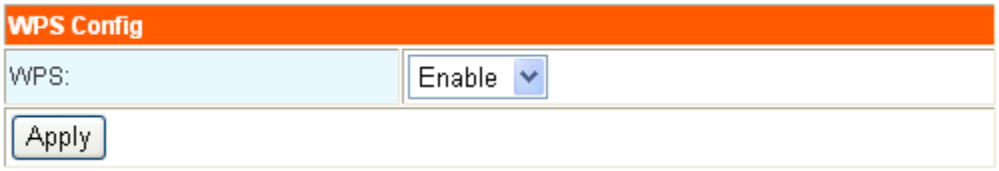
- Capable: Disable/ALLOW/REJECT
- New: Import the MAC address of wireless end.

  Import format：XX:XX:XX:XX:XX

3.13.3 WPS

WPS（Wi-Fi Protected Setup）offers a quick wireless encryption. During connecting the encrypted network, you needn’t import security mode and pass phrase, that make wireless security setting be more easier and ensure the network’s security. Click menu WPS by left key, show the following interface,

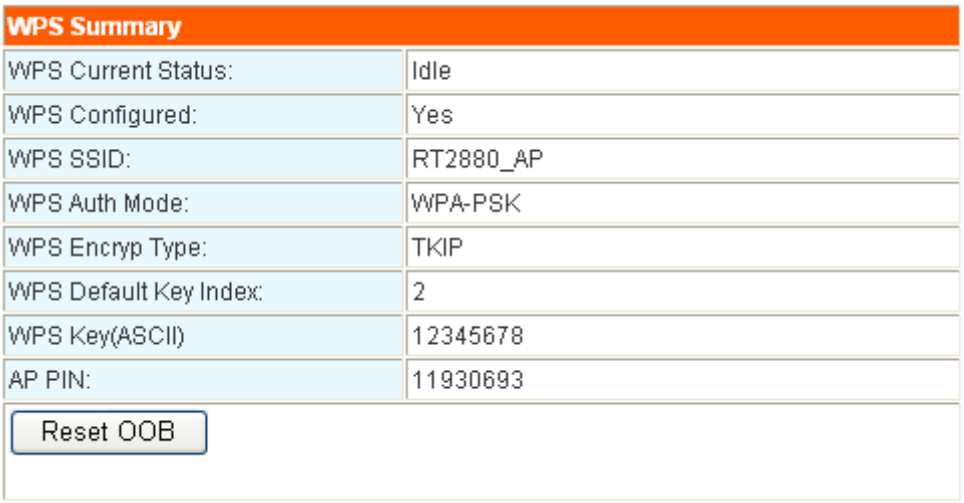
1) WPS Config:



- Enable: Starr WPS function..
- Disable: Close WPS function.

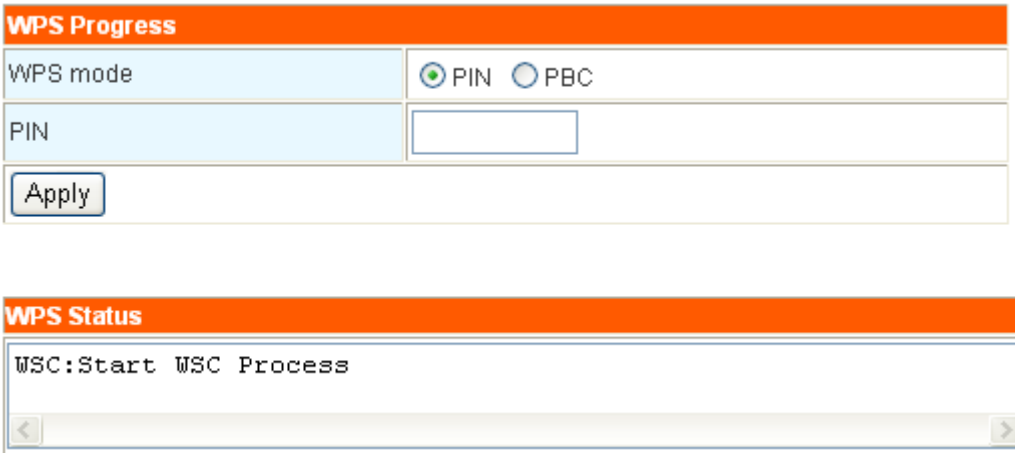
2) WPS Summary

This segment shows the information with WPS, such as WPS status, WPS’ s SSID, security mode, encryption, pass phrase, AP PIN code…



3) WPS Progress

This segment shows how to use WPS feature, this wireless broadband router provides two WPS attestation ways**:** PBC（Push Button Config）and PIN（PIN Input Config）.The user can click button PBC or fill the PIN code into the user end, to access the wireless devices by the side of clients easily.



- PIN: Through PIN code collocate way.

WPS Mode chooses PIN way. There are two ways of connecting WPS: as register, as enter

Register way: Make the wireless broadband router as register and the wireless end device as Enter. Import the end’s PIN code, then click Apply button, Then the wireless broadband router is waiting for the connect requirement from the end, “**Security**” lamp lights. Click button on wireless end device to connect with the wireless broadband router.

Enter way: Make the wireless broadband router as enter, the wireless end device as register. Import the PIN code of wireless Broadband router to the wireless end device—WPS Summary to obtain. Then click PIN button. Connected.

- PBC: Through button setting way. WPS mode choose PBC way, click button Apply, await for WPS connecting requirement(Start WSC Process), “Security” lamp lights, connected.

3.13.4 Station List

Click menu **Station List** by left key, can see the following interface, which shows the wireless ends list connected with the wireless broadband router.