LSP5004WSL

Administrator Manual

(V1.3)

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1 Product Introduction

Eoc Slaves include LSP5004WSL(ANS4004W,ANS5003WV,ANS5004W) that are based on IEEE 1901 (Draft),And downwards compatible with HomePlug AV protocol. These products can Transmit/receive Ethernet signals over CATV coaxial cable, occupy low-frequency band Outside the frequency range of the existing CATV, well adapt to the diversified topologies Of existing broadcasting & TV networks.
So this manual use the ANS4003WV software webpage to explain the function.

1.1 Key Feature

Provide EoC coaxial-cable WAN port

Provide one cable TV port to access TV or STB

LSP5004WSL and ANS5003WV Provide 3 10/100M Lan ports and 802.11/g/n wireless router

LSP5004WSL and ANS5003WV provide one RJ11 port, supporting VOIP function, compatible with the General existing SIP serves

Support 54/48/36/24/18/12/9/6M or 11/5.5/2/1M rte adaptive function and can

Automatically adjust wireless transmission rate

Support 64/128/152 byte WEP

Encryption,WPA/WPA2,WPA-PSK/WPA2-PSK,IEEE802.1X,TKIP,AES encryption and

Security mechanism

Support CSMA/CA,CSMA/CD,TCP/IP, PPPoE, DHCP,ICMP,NAT protocol

Support 2 SSID. One is for operator and one is for user

Support PPPoE, DHCP and dynamic DNS function

Support QoS functiom

Support IGMP function, compliance with IGMP V2 protocol and can transmit all multicast

Stream to all LAN and WAN ports

Support network management function and TR069 protocol

Support SIP V2.0(RFC3261/RFC3262) protocol

Support G.711 (A-Law, μ-Law), G.723.1 and G.729A/AB coding

Support pass-through T.38 VOIP Fax

1.2 Technical Specification

ITEM		LSP5004WSL	ANS4004W	ANS5003WV	ANS5004W
Standard		IEEE HomePlug AV,IEEE 802.11n,IEEE 802.11g,IEEE 802.11b,IEEE 802.3,IEEE 802.3u,CSMA/CA,CSMA/CD,TCP/IP,DHCP,ICMP,NAT,PPPoE			
Port	WAN	One thread cable port			
	LAN	Three 10/100M RJ45 port	four 10/100M RJ45 port	Three 10/100M RJ45 port	four 10/100M RJ45 port
	PHONE	1RJ11 Phone port	No	1RJ11 Phone port	No
	TV	One CATV coaxial port			
WiFi	Frequency	2412-2462MHz			

	Transmission speed	11n：270/243/216/162/108/81/54/27Mbps 135/121.5/108/81/54/40.5/27/13.5Mbps 130/117/104/78/52/39/26/13Mbps 65/58.5/52/39/26/19.5/13/6.5Mbps			
		IEEE 802.11g：54/48/36/24/18/12/9/6			
		IEEE 802.11b：11/5.5/2/1M			
	Channel number	11			
	Spectrum Technology	DSSS(Direct Sequence Spread Spectrum)			
	Data Modulation	DBPSK,DQPSK,CCK and OFDM(BPSK/QPSK/16-QAM/64-QAM)			
	Sensitivity@PER	270M:-68dBm@10% PER 130M: -68dBm@10% PER 108M:-68dBm@10% PER 54M:-68dBm@10% PER 11M: -85dBm@8% PER 6M:-88dBm@10% PER 1M:-90dBm@8% PER			
	Transmission Arrange	Up to 120 meter(Indoor) or 360 meter (outdoor) Depending on (environmental deviation)			
	RF Power	9 dBm			
	Antenna	3dBi detachable HG omni antenna			
EOC Parameter	Frequency	7.5-30MHz	7.5-30MHz	7.5-65MHz	7.5-65MHz
	Output Power	≥110dBuV			
	Modulation	OFDM			
	Physical Layer Bandwith	200Mbps	200Mbps	700Mbps	700Mbps
	IP Layer Throughput	50-85Mbps			

	RF Impedance	75 ohm			
CATV RF	Bandwidth	47-1000MHz	47-1000MHz	87-1000MHz	87-1000MHz
	Return Loss	>16dB			
	Input loss	≤1dB			
Network Medium		10Base-T: Class 3 or Class 3 up UTP 100Base-TX: Class 5 UTP			
LED Indicator	WAN	Light: Linking Blink: Data Transmission			
	LAN	Light: Linking Blink: Data Transmission			
	PHONE	Light: Registered on SIP server Blink: No register or data transmission	No	Light: Registered on SIP server Blink: No register or data transmission	No
	other	Power(Power)，EOC(EOC chipset initialization)，Wifi（Wirless Indicator）			
Size:(L×W×H)		180(mm)*110(mm)*31(mm)			
Working Enviroment		Work Temperature：-20℃～55℃； Work Humidity :10%～90%(no-condesning) Storage temperature： -40℃～70℃； Storage Humidity:5%～90%(no-condesning)			
External Power Supply		DC 12V/1A			

1.3 Packages Contents

One pcs ANS4003WV

One power adaptor

One telephone line

One Ethernet line

One CD

1.4 Indicator/Port/Button Description

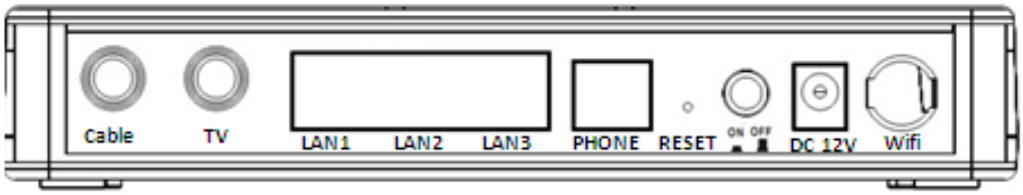
1.4.1 Front panel Indicator

Indicator Description

Indicator	Description	Function	
Power	Power/ System indicator two colour	Dark	Power off
		Green	Pow on
		Orange	System OK（Orange/Green Light）
Wifi	Wireless Indicator	Dark	Wireless function doesn't start
		Green	Start wireless function
		Blink	Data receiving/transmitting
PHO	VOIP Register Status Indicator	Dark	VOIP account doesn't work
		Green Blink for 1s	Sip server doesn't register
		Green	Sip server has registered and can work
		Green Blink for 0.25s	Voice data receiving/transmitting
Lan3	Lan3 port status Indicator	Dark	No device connection
		Green	Port link
		Green Blink	Data transmitting
Lan2	Lan2 port status Indicator	Dark	No device connection
		Green	Port link
		Green Blink	Data transmitting
Lan1	Lan1 port status Indicator	Dark	No device connection
		Green	Port link

		Green Blink	Data transmitting
CAB	Cable connection indicator	Dark	No Cable data
		Green	Cable link
		Green Blink	Data transmitting on Cable
EOC	EOC Indicator	Green Blink 1s	Data transmitting on Cable
		Green Blink 3s	Initialization OK
		Green	Connection with Master OK

1.4.2 Back Panel



Back Panel Ports description:

Port	Discription	Function
Cable	Cable port	Coaxial cable connection
TV	TV port	TV/STB connection
LAN	Ethernet port	3 10/100M ports
PHONE	VOIP port	VOIP Telephone

RESET	Reset key	When system power on, push the key for more than 10s, the current setting will be default setting and system will reboot
ON/OFF	Power On/off	Turn on/off the power
DC 12V	Power port	Power adaptor connection
Wifi	Wifi antenna	802.11 b/g/n wireless adaptor antenna

2 Basic Setup

2.1 Establish LAN connection

Please connect the LAN port of slave with HUB or switch or the lan card of your C Computer. For wireless LAN, the default SSID name is ***RL-SSID1*** and the default pass Word is ***wdrltcec***

2.2 Establish WAN connection

Please Connect the WAN port of slave with XDSL or Ethernet access cable

2.3 Power on

Please connect the power adaptor and start slave

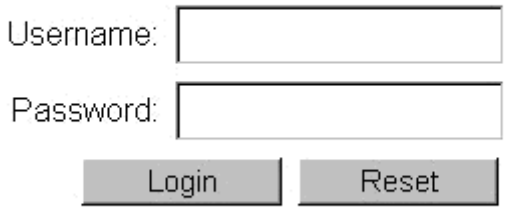
2.4 Set IP Address

Please set fixed IP address of your computer as :192.168.1.XXX：(XXX is 2~254) And the subnet mask is 255.255.255.0. Or you can use DHCP to get the IP address Automatically.

2.5 Login

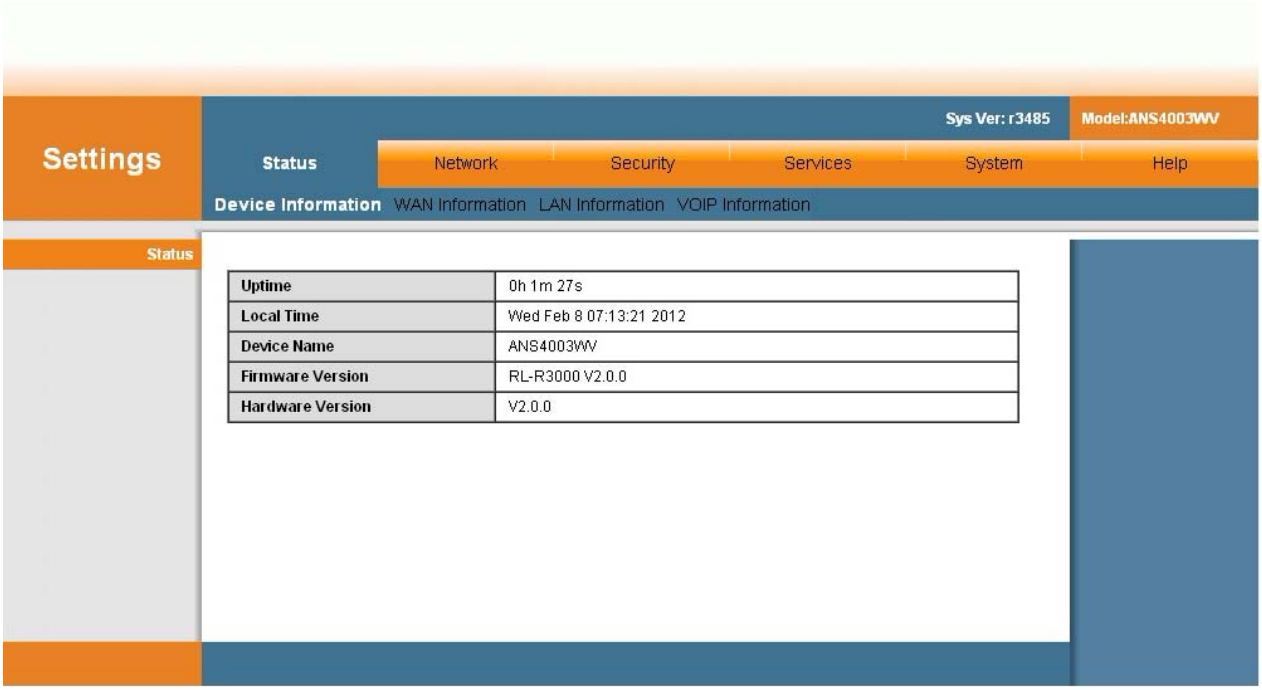
Please start Internet Explore in your computer and input “http：//192.168.1.1” in

The address bar and Enter and the following figure will appear



Please input username **R3000admin** and pass word ***admin*** and click

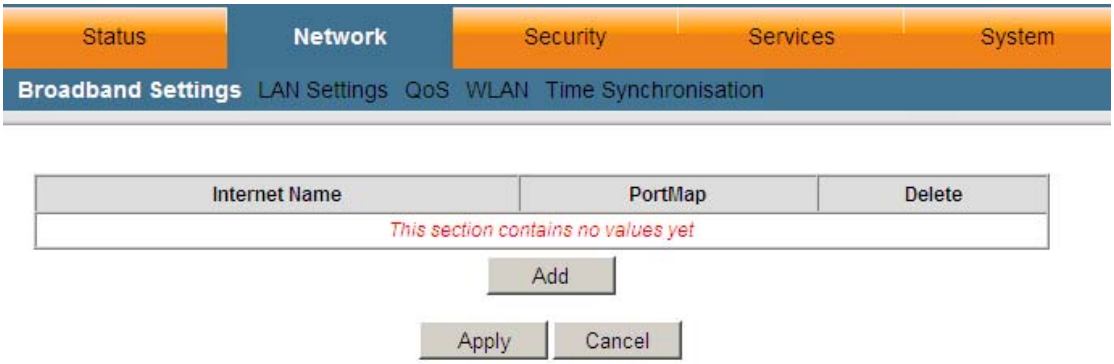
<Login> then the following figure will appear


Settings
Sys Ver: r3485
Model:ANS4003WV
Status
Network
Security
Services
System
Help
Device Information
WAN Information
LAN Information
VOIP Information
Status
Uptime
0h 1m 27s
Local Time
Wed Feb 8 07:13:21 2012
Device Name
ANS4003WV
Firmware Version
RL-R3000 V2.0.0
Hardware Version
V2.0.0

3 Network Setup

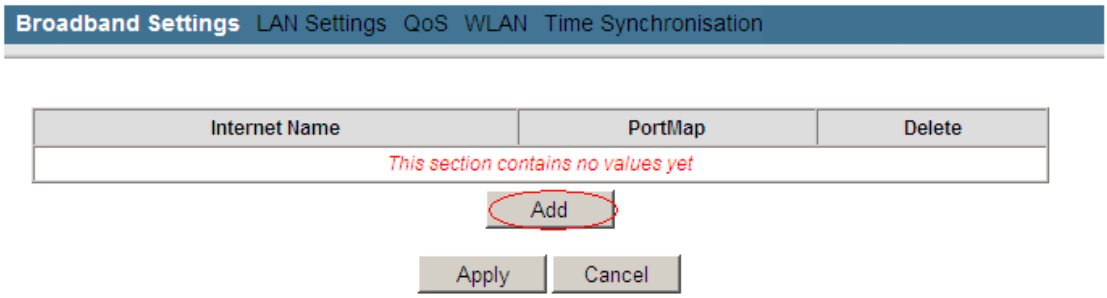
3.1 Broadband Setting

After login, please click **<Broadband Settings>** as following.

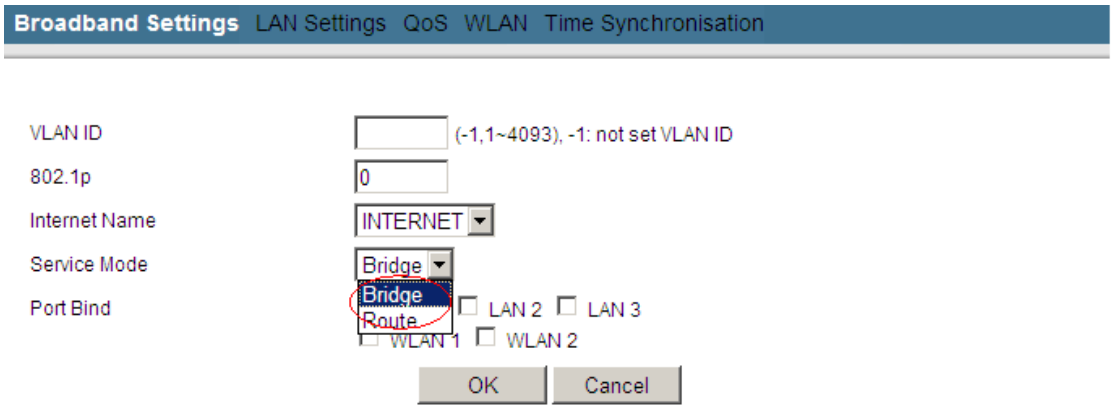


3.1.1 Add Internet Name

Step 1 Please choose one Internet Name as following

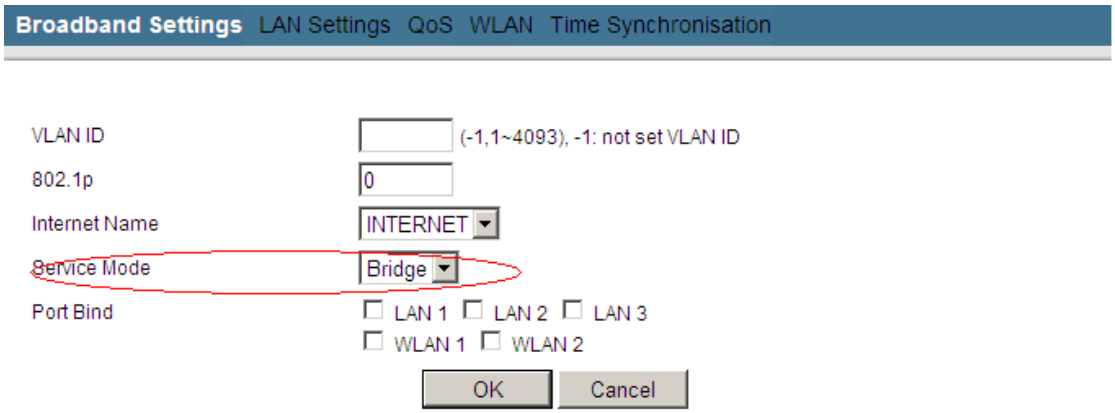


Step 2 Please choose one Internet Name. The slave support two connection type: Bridge or Route

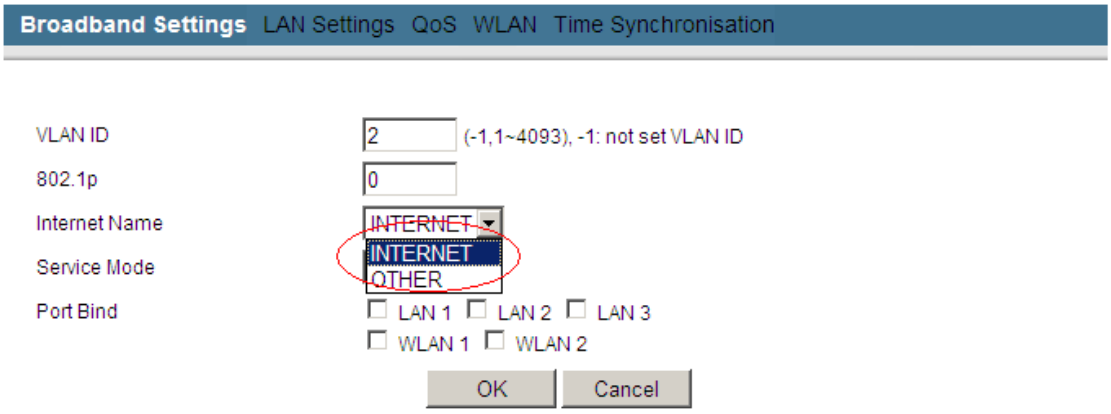


A Add Bridge Connection

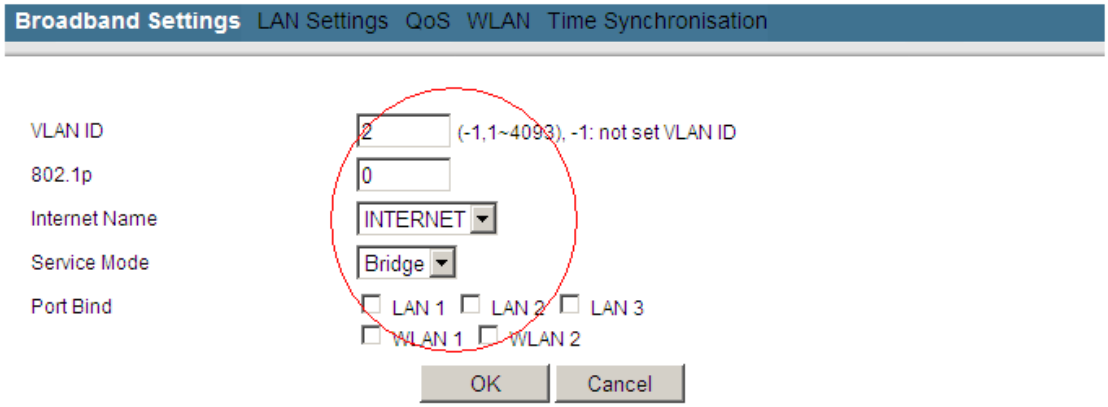
Step 1 Please choose Bridge in Service Mode as following:



Step 2 Please config the right VLAN,VLAN ID and Service Mode. The network name just Includes OTHER and INTERNET.

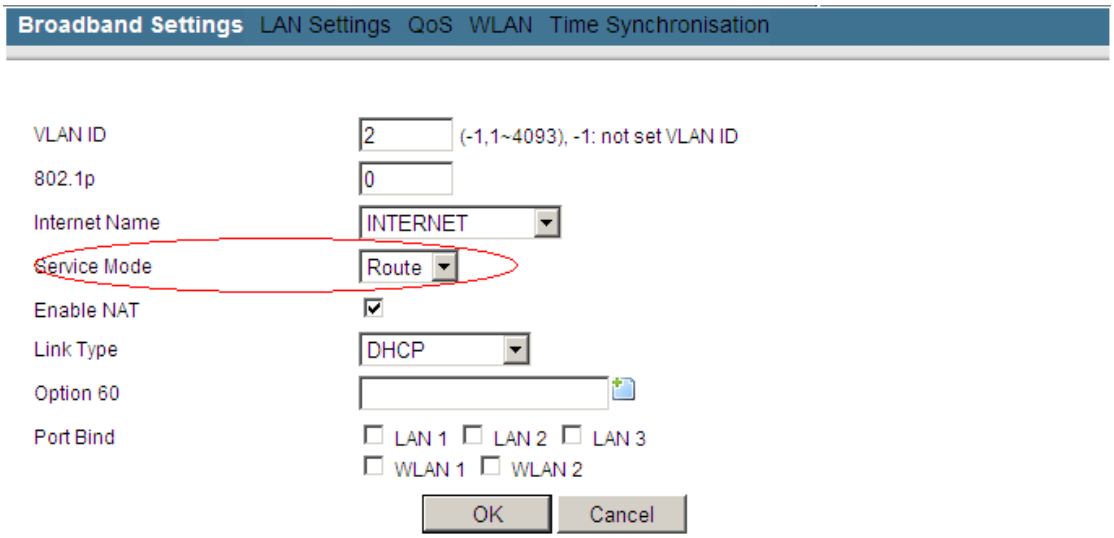


Step 3 Please click OK as following

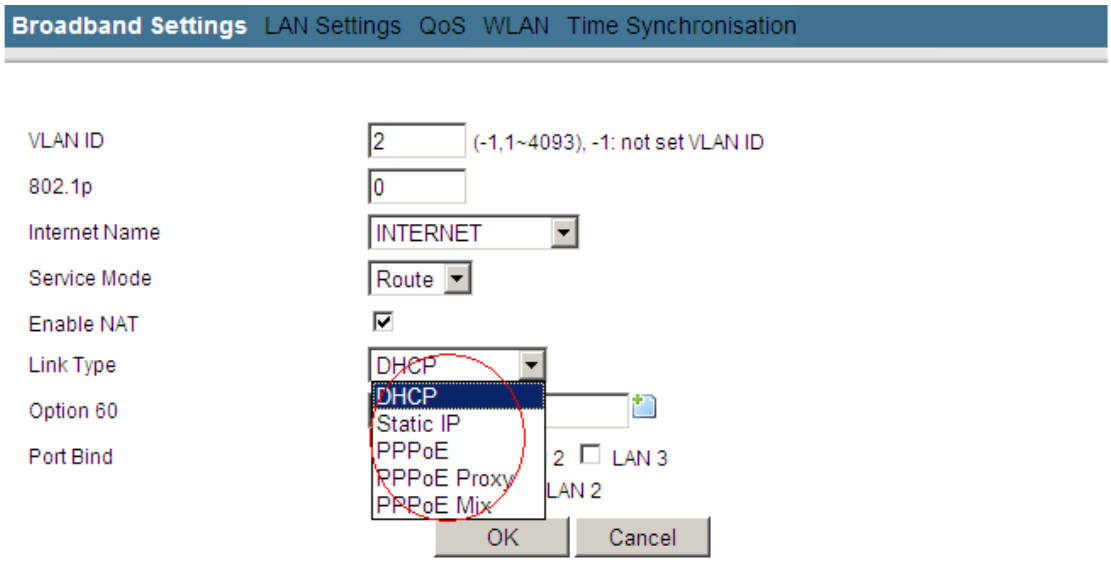


B Add Router connection

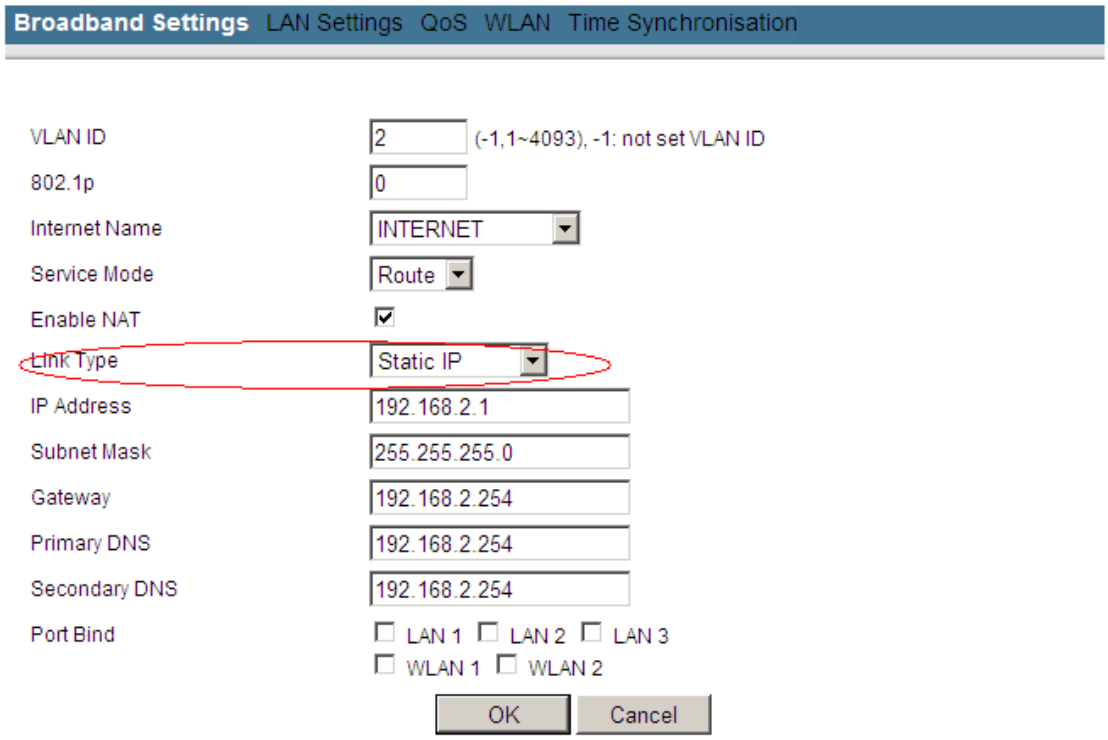
Step 1 Please choose Router In Service Mode as following



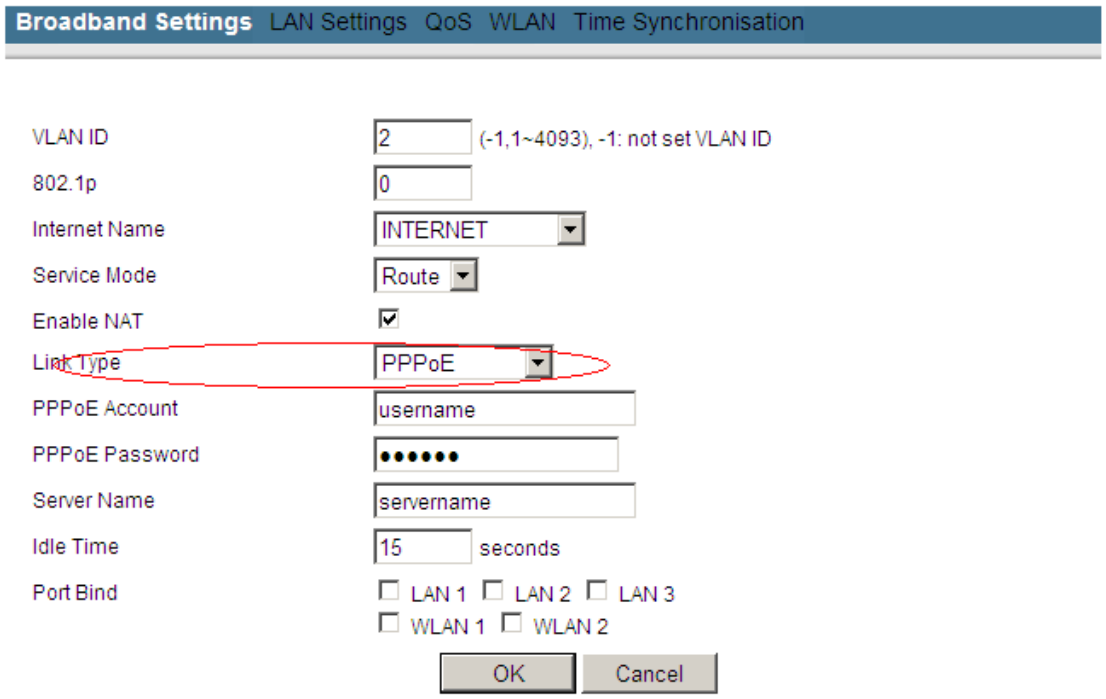
Step 2 Please choose relevant Route type. The slave support 3 type route: DHCP, Static, PPPoE. When you choose DHCP, please config right parameters including Enable NAT,VLAN,VLAN ID ,Internet Name and Port Bind.



When you choose Static, please config right parameters including Enable NAT,VLAN,VLAN ID ,IP address, SubnetMasker, gateway, Primary DNS, Secondary DNS and Port Bind.



When you choose PPPoE, please config right parameters including Enable NAT, Internet Name, PPPoE Account, PPPoE Password, Server Name, Idle Time, Port Bind.

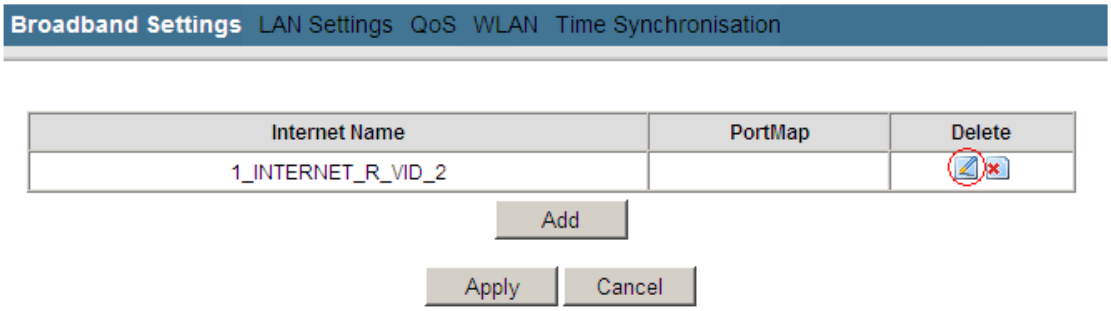


Step 3 Please click**< OK>** to finish Adding.

Note:When you set VALN as -1,the WAN connection won't set VLAN ID.

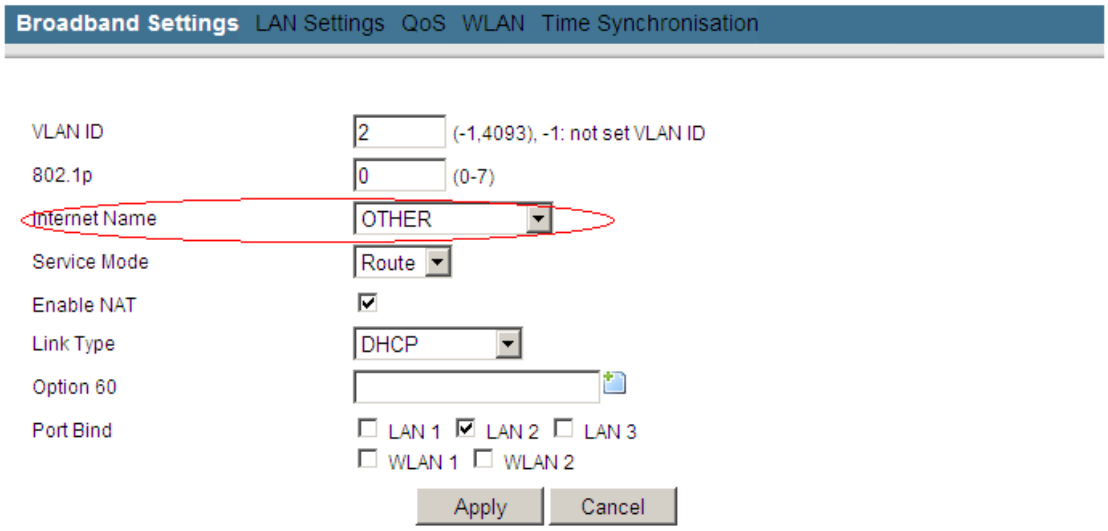
3.1.2 Modify Internet Name Setting

Step 1 Please choose the connection name to modify. For example, please choose 1_INTERNET_R_VID as following



Step 2 Please modify relevant parameters and the parameter names should be

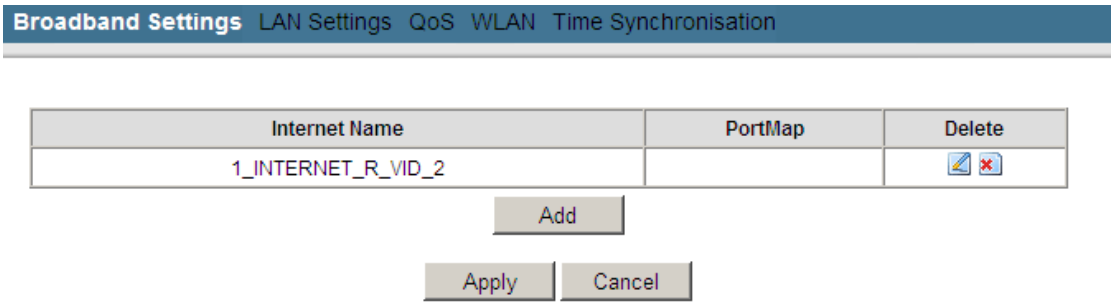
Corresponding with the ones when you add them



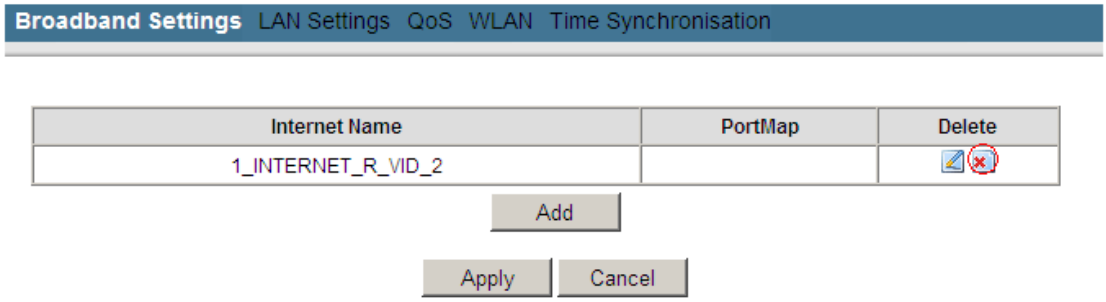
Step 3 Please click <Apply> to finish

3.1.3 Delete Internet Name Setting

Step 1 Please choose the one to be deleted such as 1_INTERNET_R_VID

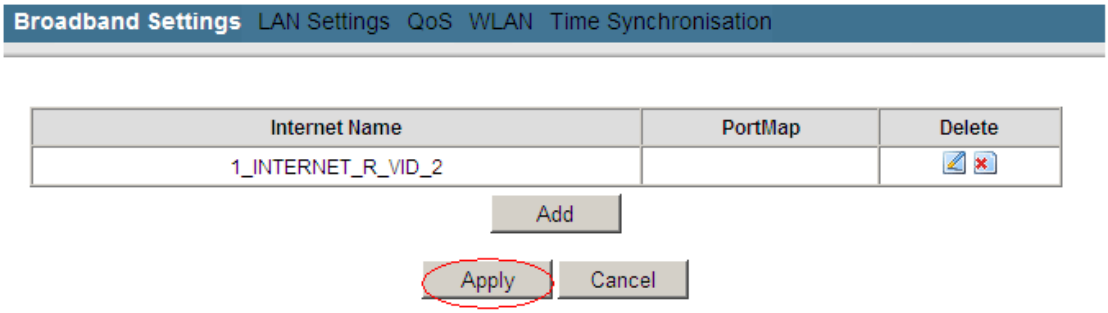


Step 2 Please click <Cancel> to finish config



3.1.4 Make Settings Effect

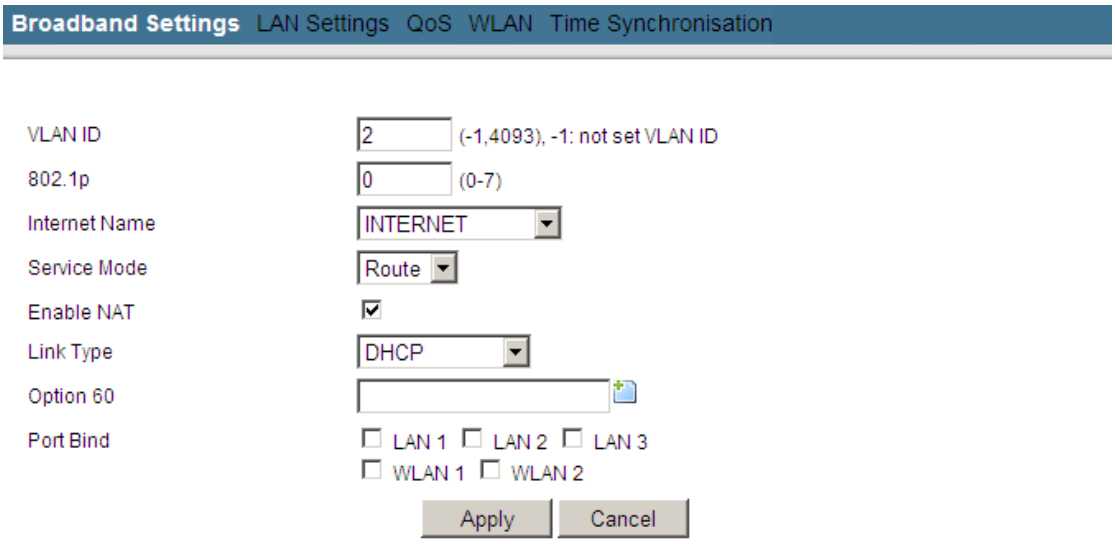
After you finish the settings, please click <Apply> to make settings effect



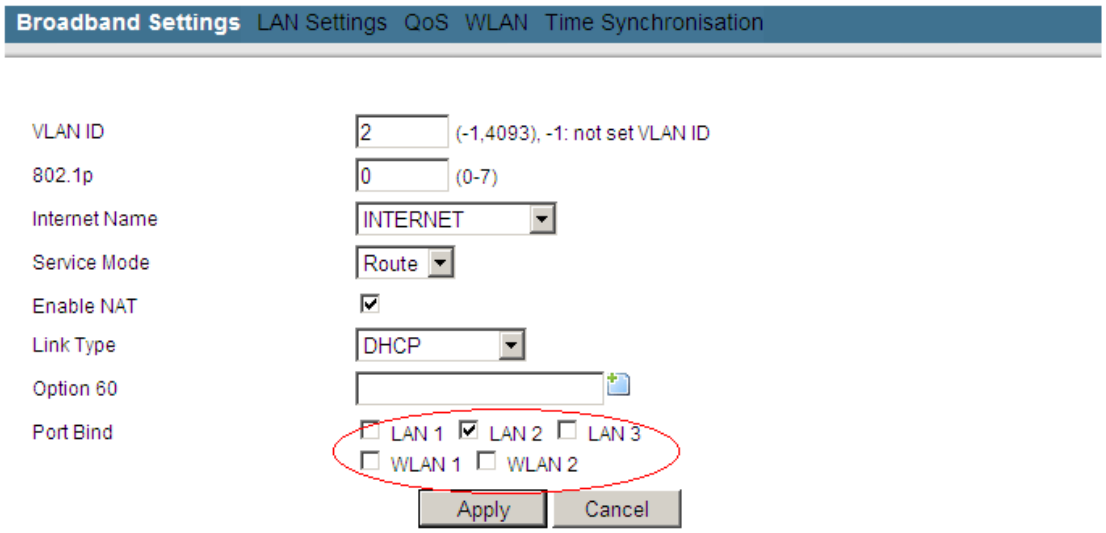
3.1.5 Port Binding

Port Binding; To bind the device's hardware interface with service mode including internet, Default, STB, according to end-user or operator's requirement.

Step 1 Please click **<Broadband Settings>** as following:

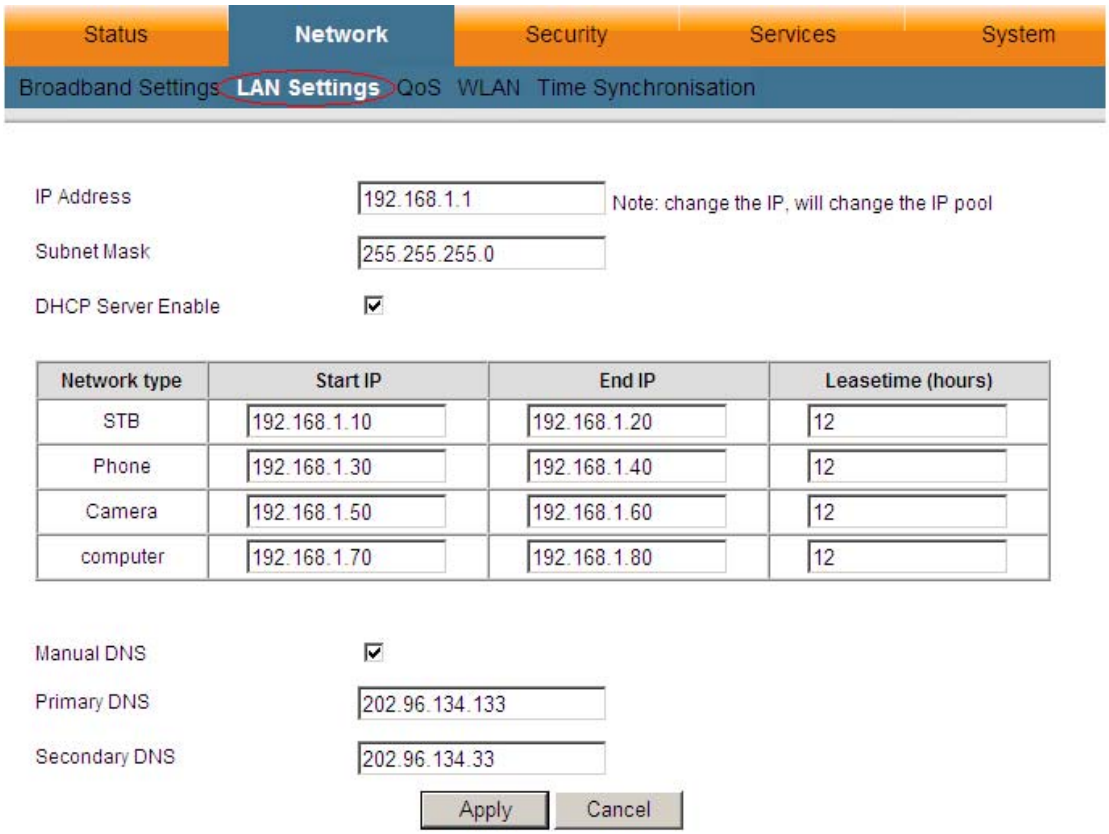


Step 2 Please choose the port to bind as following:



3.2 LAN Settings

Step 1 Please click <LAN Settings> as following:



Step 2 Please Enable DHCP Server and config Start IP, End IP, Leasetime

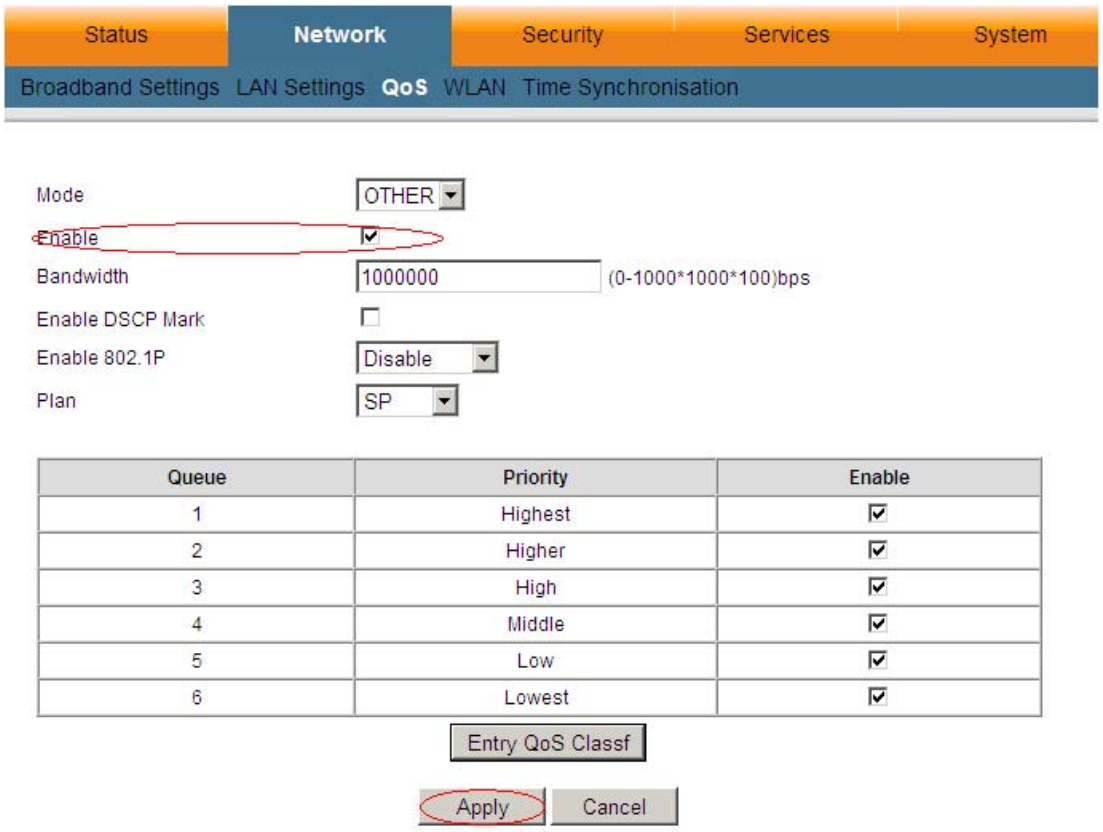
Step 3 Please Enable manual DNS to config appointed DNS address

Step 4 Please click <Apply> to finish setting

3.3 QoS Setting

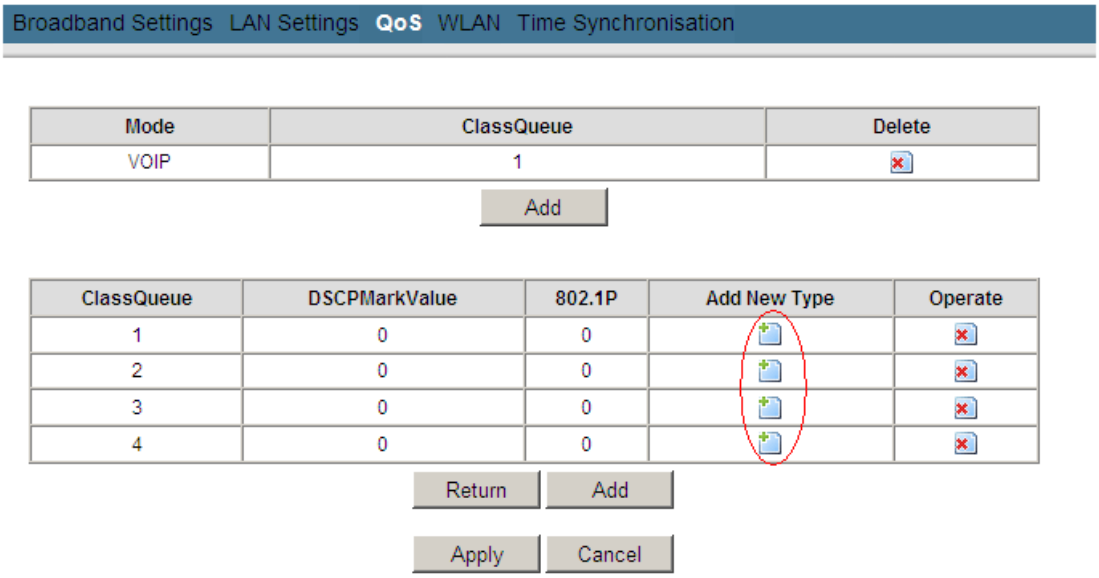
3.3.1 Enable QoS

Please click QoS and Enable it then click <Apply> as following

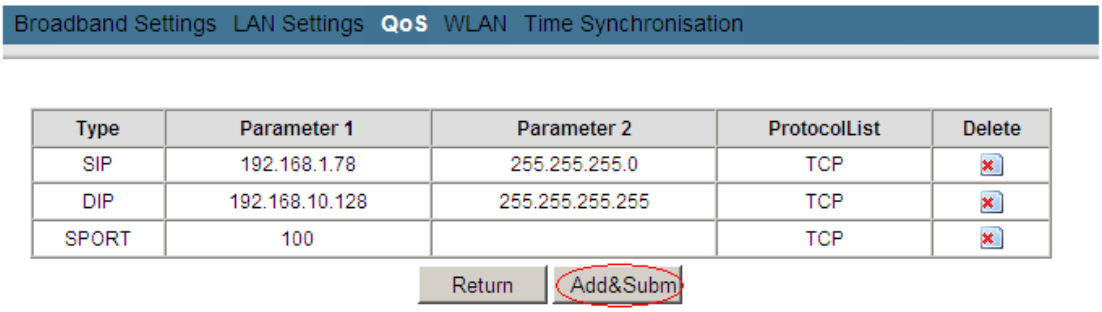

Status
Network
Security
Services
System
Broadband Settings
LAN Settings
QoS
WLAN
Time Synchronisation
Mode
OTHER
Enable
Bandwidth
1000000
(0-1000*1000*100)bps
Enable DSCP Mark
Enable 802.1P
Disable
Plan
SP
Queue
Priority
Enable
1
Highest
2
Higher
3
High
4
Middle
5
Low
6
Lowest
Entry QoS Classf
Apply
Cancel

3.3.2 QoS Classf Setting

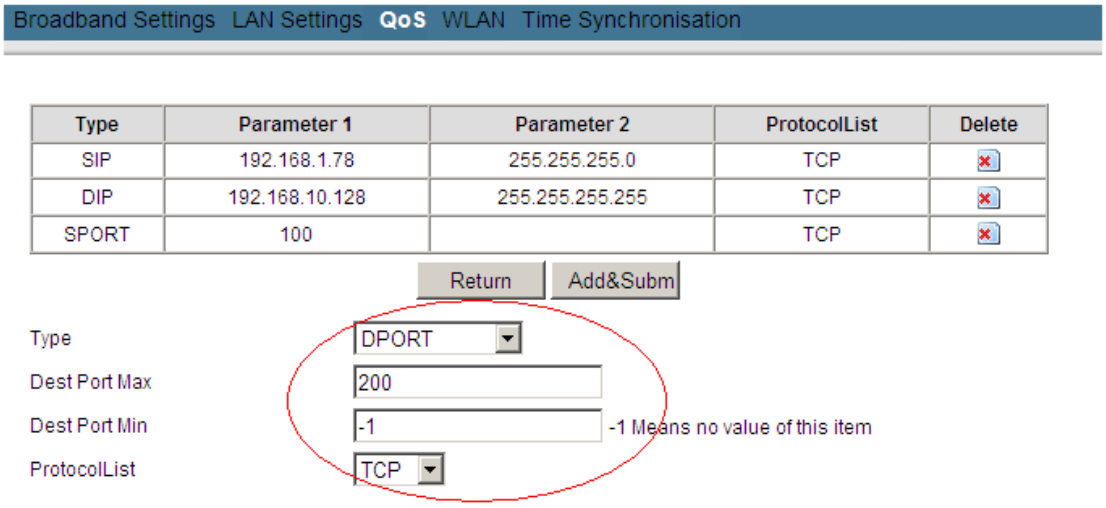
Step 1 Please click <Entry QoS Classf> as following



Step 2 Please click **<Add >** to config parameters as following

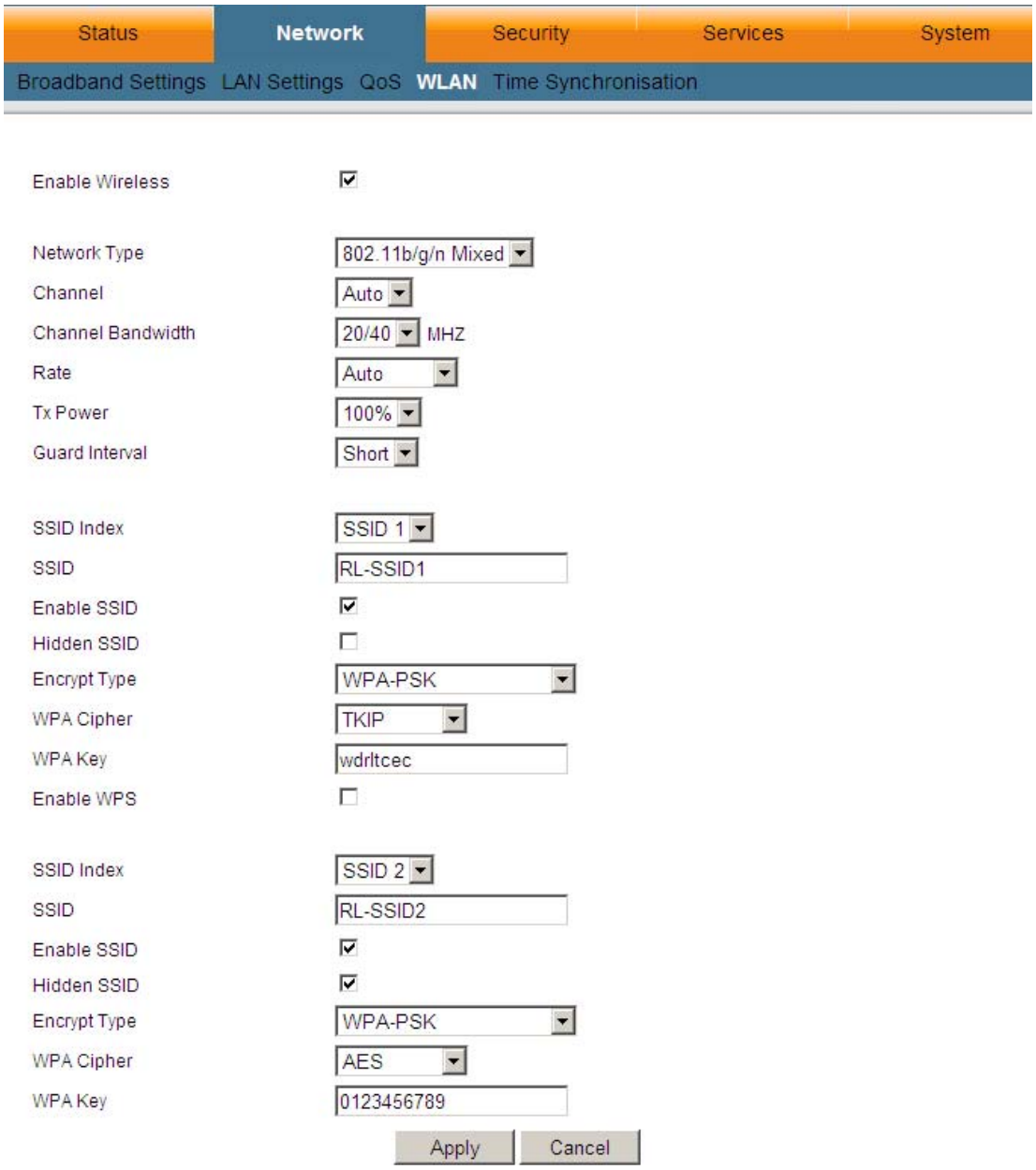


Step 3 Please config the related parameters and click **<Add&Subm>** to make setting effect.



3.4 WLAN

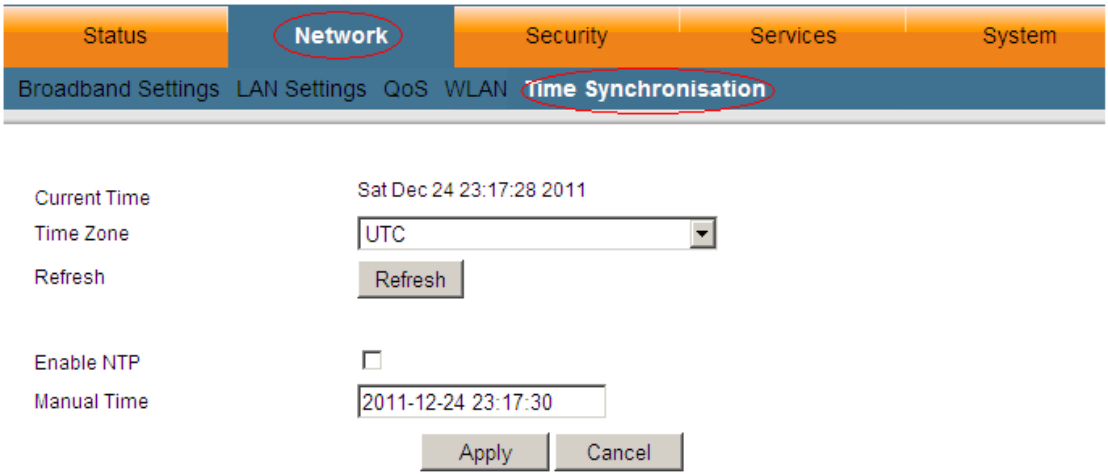
Please click **<WLAN>** in the following menu to config wireless parameters


Status
Network
Security
Services
System
Broadband Settings
LAN Settings
QoS
WLAN
Time Synchronisation
Enable Wireless
Network Type
802.11b/g/n Mixed
Channel
Auto
Channel Bandwidth
20/40
MHZ
Rate
Auto
Tx Power
100%
Guard Interval
Short
SSID Index
SSID 1
SSID
RL-SSID1
Enable SSID
Hidden SSID
Encrypt Type
WPA-PSK
WPA Cipher
TKIP
WPA Key
wdrltcec
Enable WPS
SSID Index
SSID 2
SSID
RL-SSID2
Enable SSID
Hidden SSID
Encrypt Type
WPA-PSK
WPA Cipher
AES
WPA Key
0123456789
Apply
Cancel

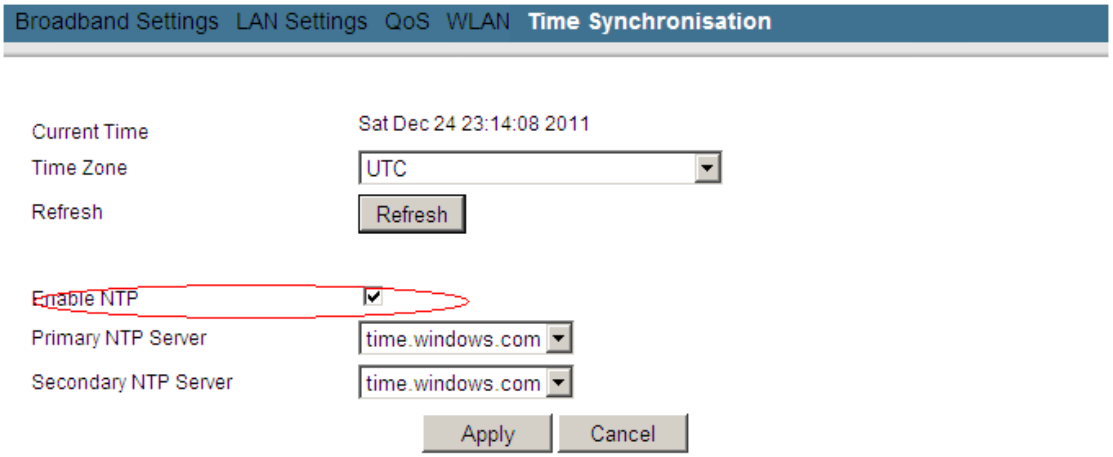
After you config all relevant wireless parameters, please click Apply to finish setting.

3.5 Time Synchronisation

Step 1 Please click **<Time Synchronisation>** as following:



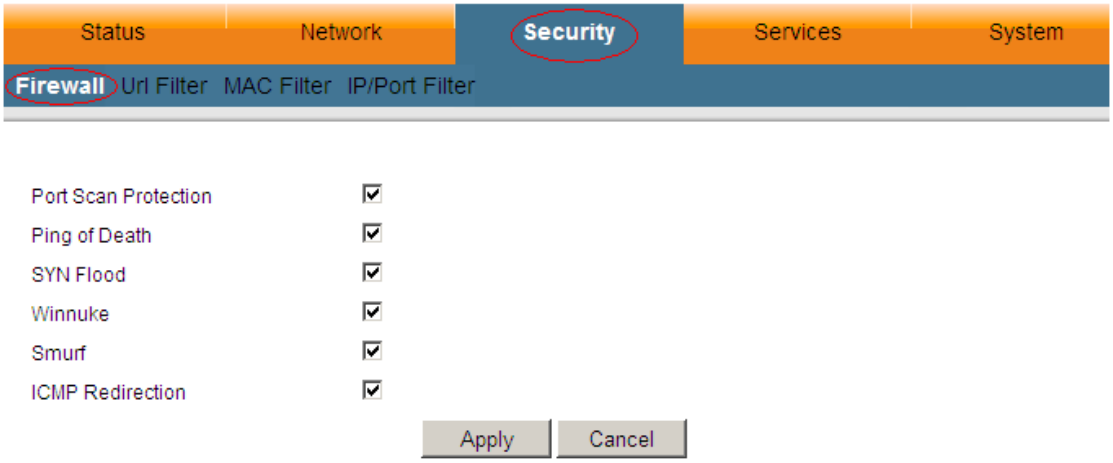
Step 2 Please enable NTP and input right time zone as following



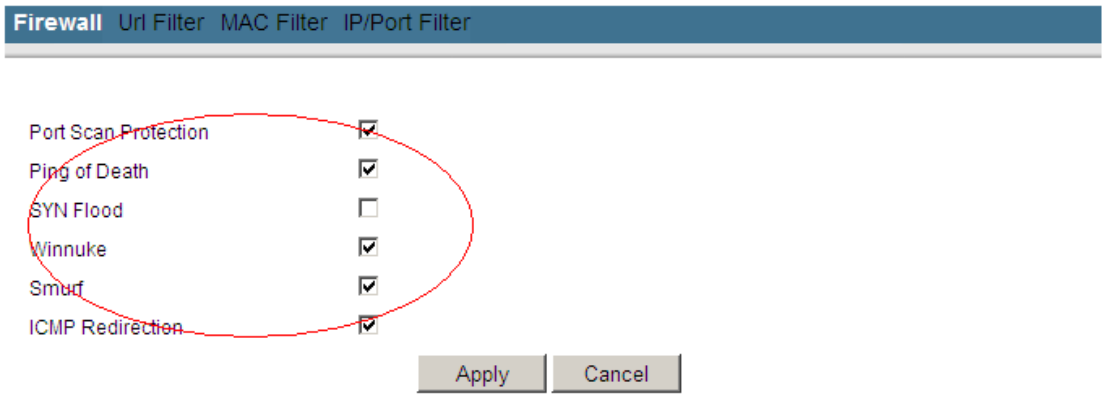
4 Security

4.1 Firewall

Step 1 Please click <Security> and <firewall> as following:



Step 2 Please cogfig te related function and click **<Apply>** as following

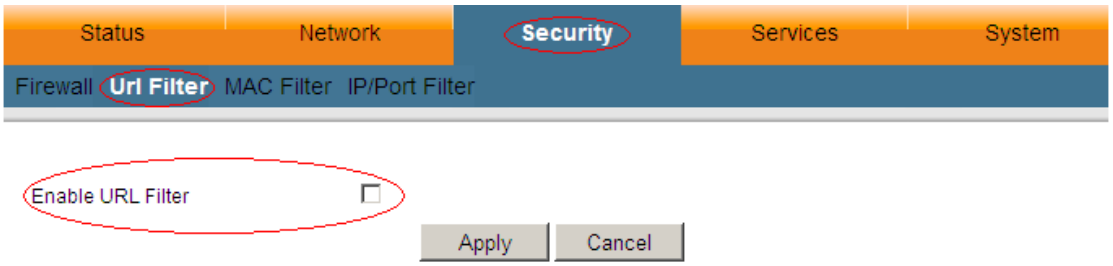


4.2 Url Filter

4.2.1 Start Url Filter Function

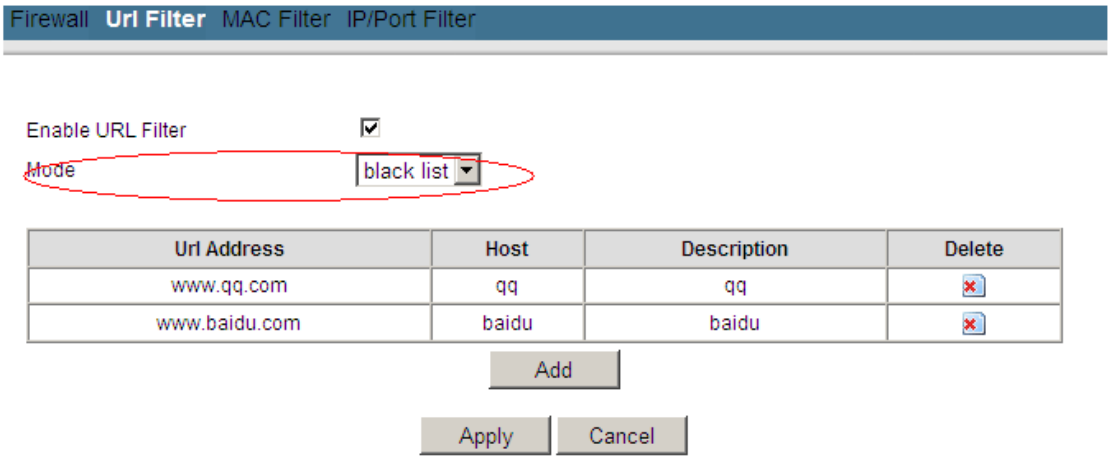
Please click **<Security>** and **<Url Filter>** to choose url Filter function and click **<Apply>**

As following:

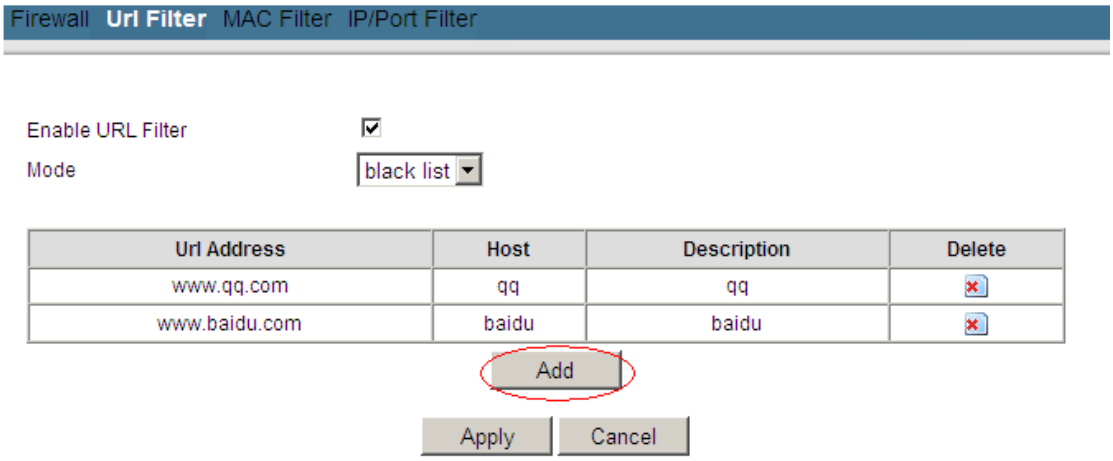


4.2.2 Add Url Filter black list

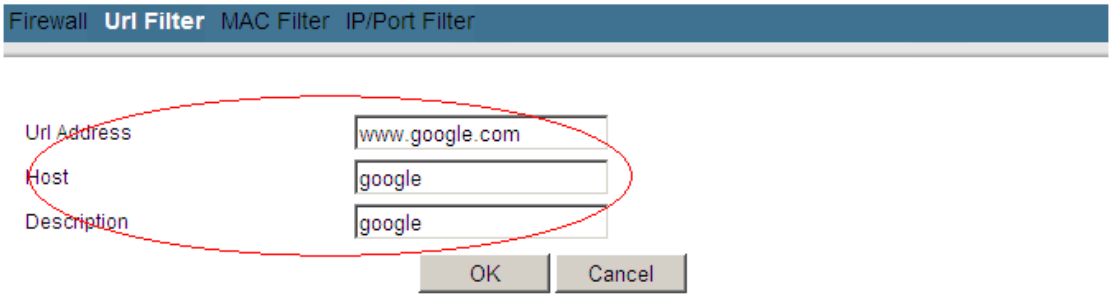
Step 1 Choose Enable “URL Filter” and “black list” mode as following:



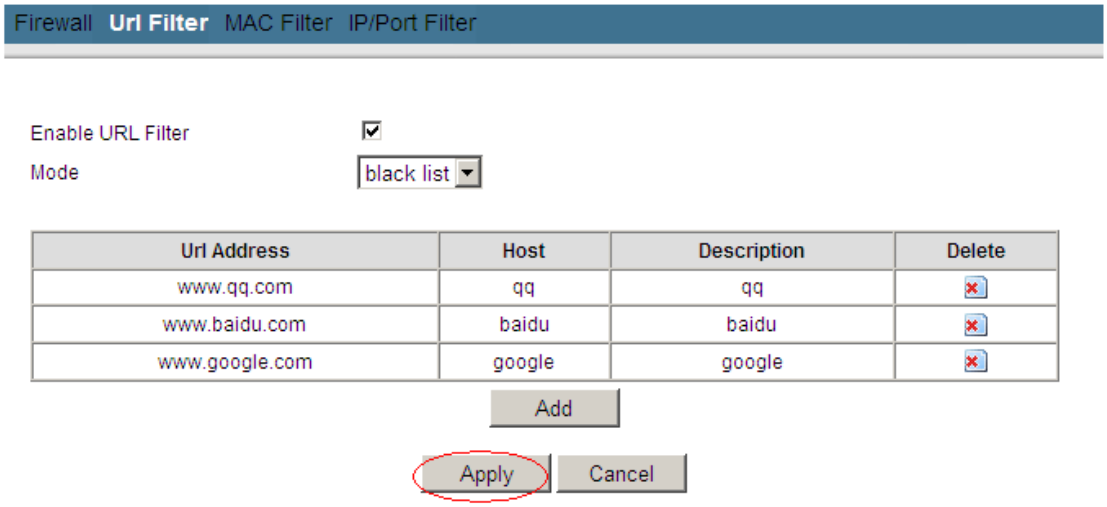
Step 2 Please click <Add> and add black list as following:



Step 3 Please config related filter parameters as following:

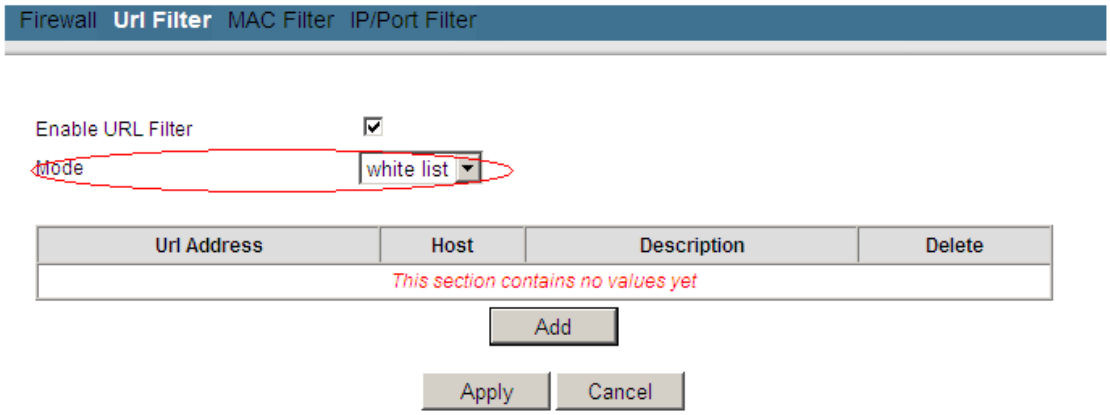


Step 4 Please click <OK> to finish setting as following:

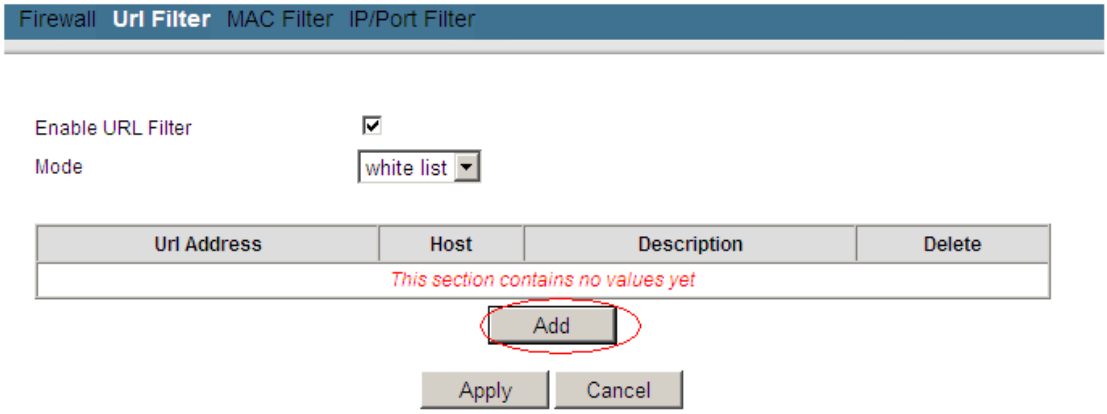


4.2.3 Add Url Filter white list

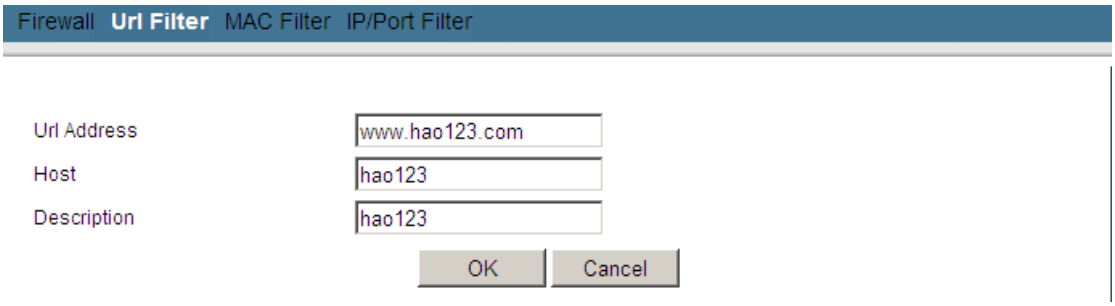
Step 1 Choose Enable “URL Filter” and “white list” mode as following:



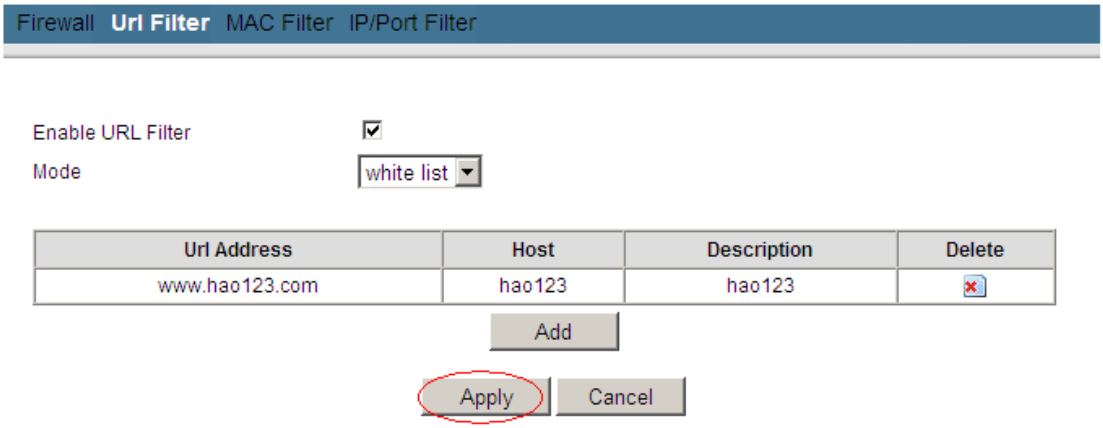
Step 2 Please click <Add> and add white list as following:



Step 3 Please config related filter parameters as following:



Step 4 Please click <OK> to finish setting as following:

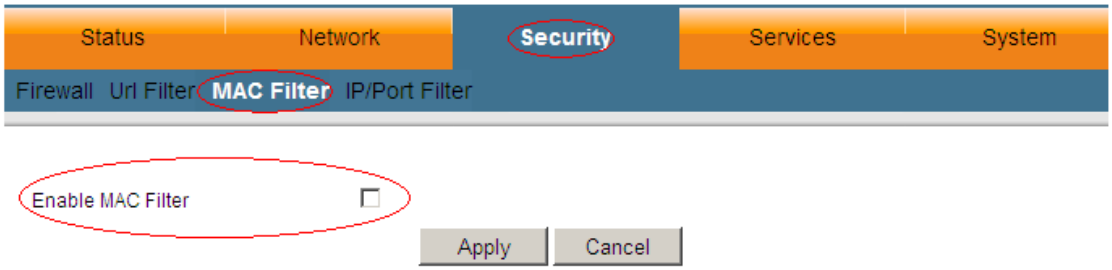


4.3 Mac Filter

4.3.1 Start Mac Filter Function

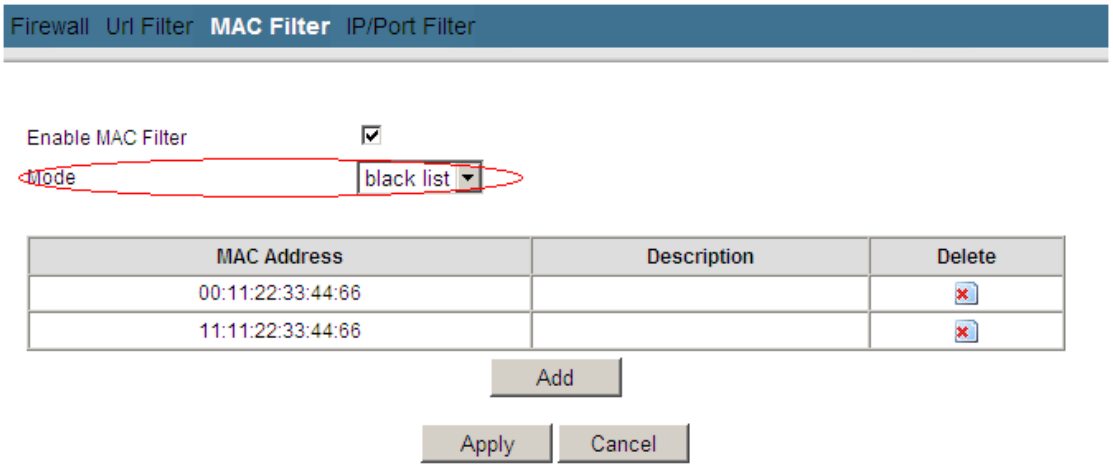
Please click **<Security>** and **<MAC Filter>** to choose Url Filter function and click **<Apply>**

As following:

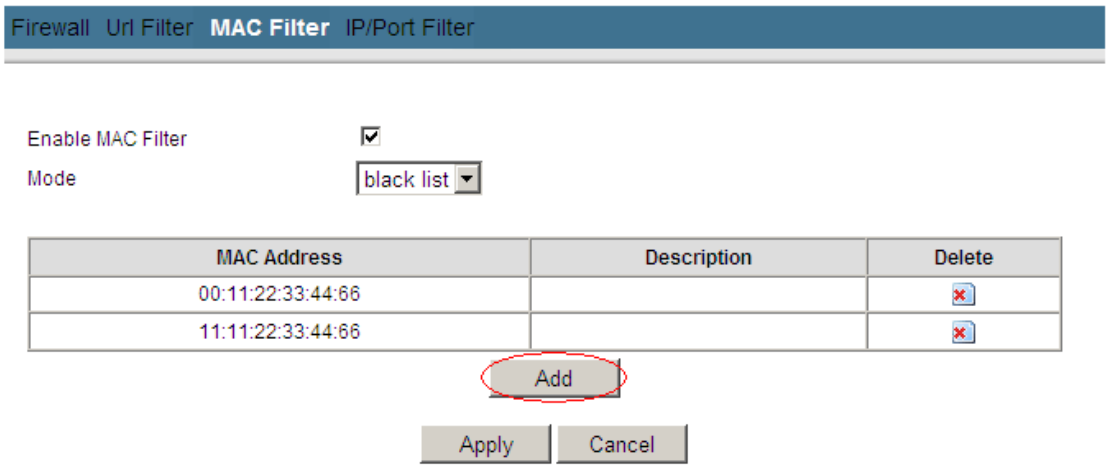


4.3.2 Add MAC Filter black list

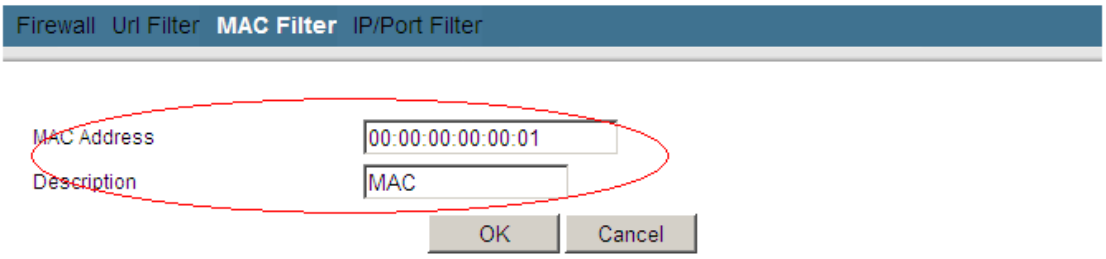
Step 1 Choose Enable “MAC Filter” and “black list ”mode as following:



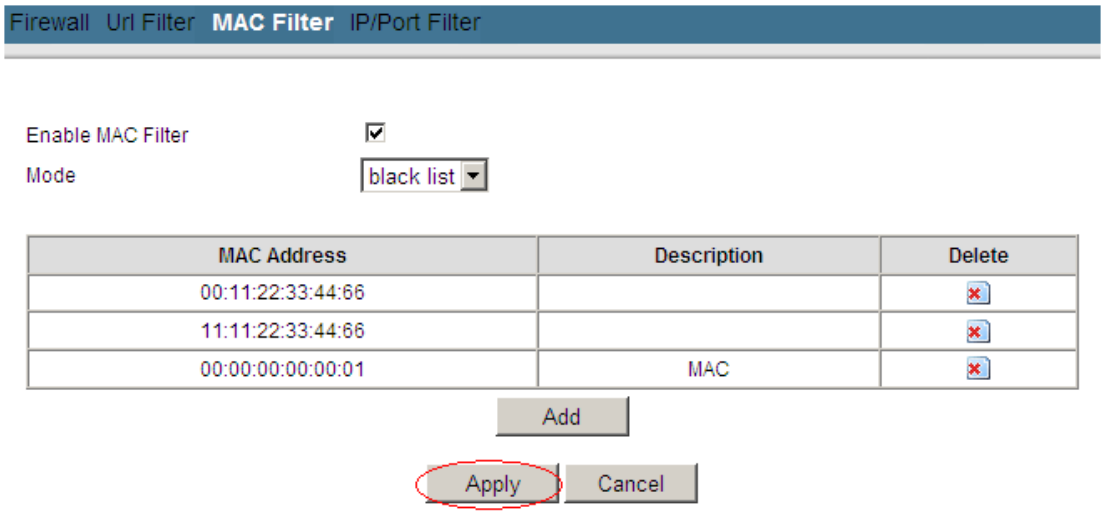
Step 2 Please click **<Add>** and add black list as following:



Step 3 Please config related filter parameters as following:

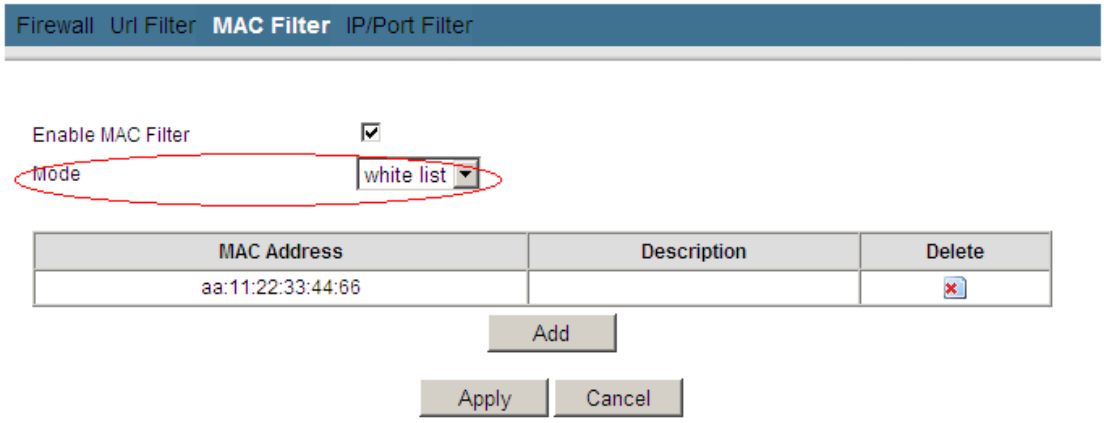


Step 4 Please click **<OK>** to finish setting as following:

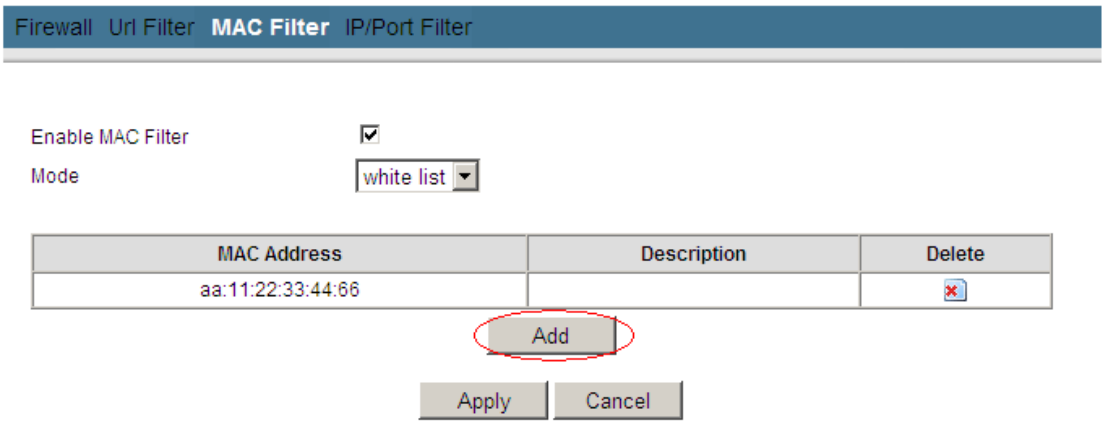


4.3.3 Add MAC Filter white list

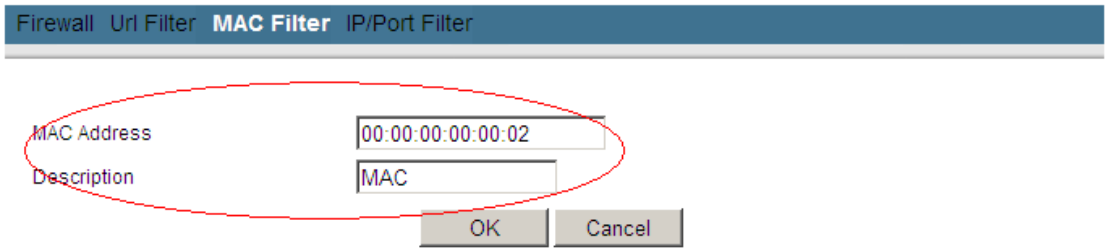
Step 1 Choose Enable “MAC Filter” and “white list” mode as following:



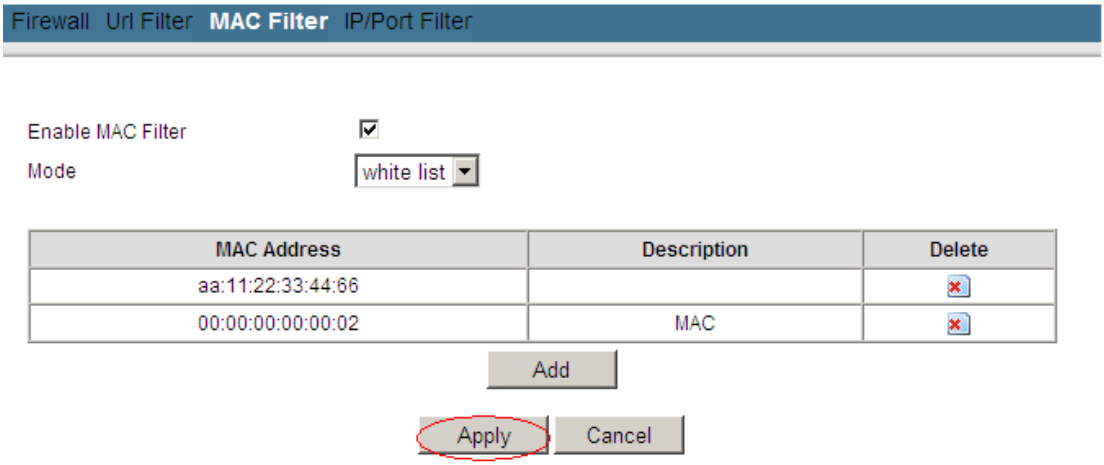
Step 2 Please click **<Add>** and add black list as following:



Step 3 Please config related filter parameters as following:

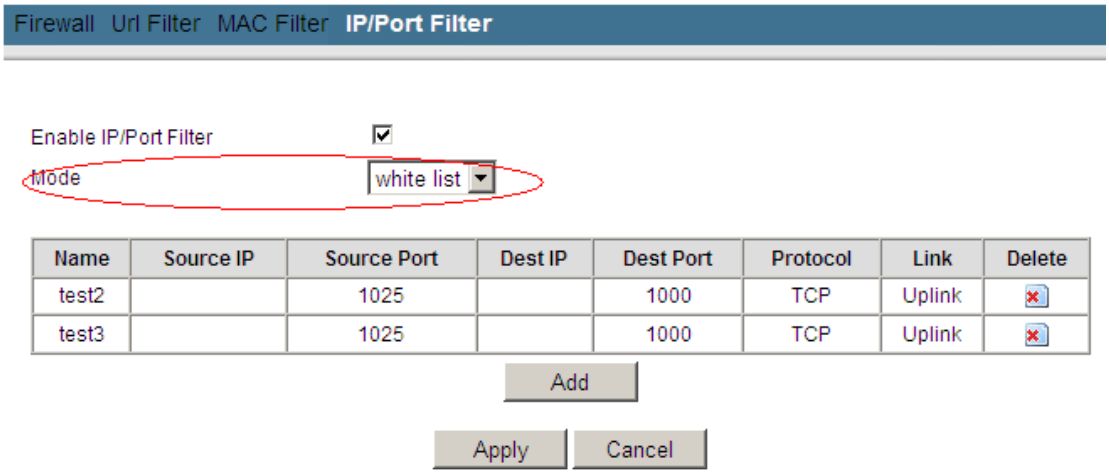


Step 4 Please click **<OK>** to finish setting as following:

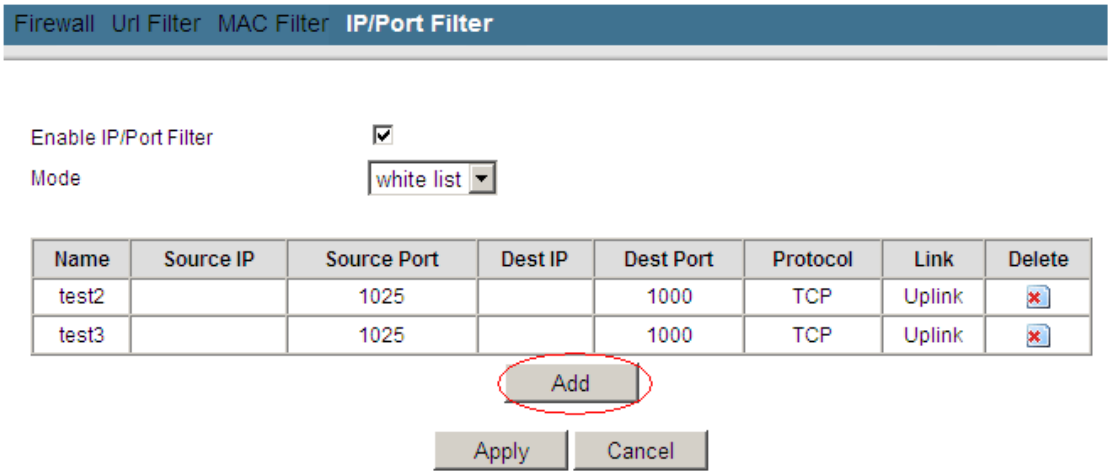


4.3.4 Add IP/Port Filter

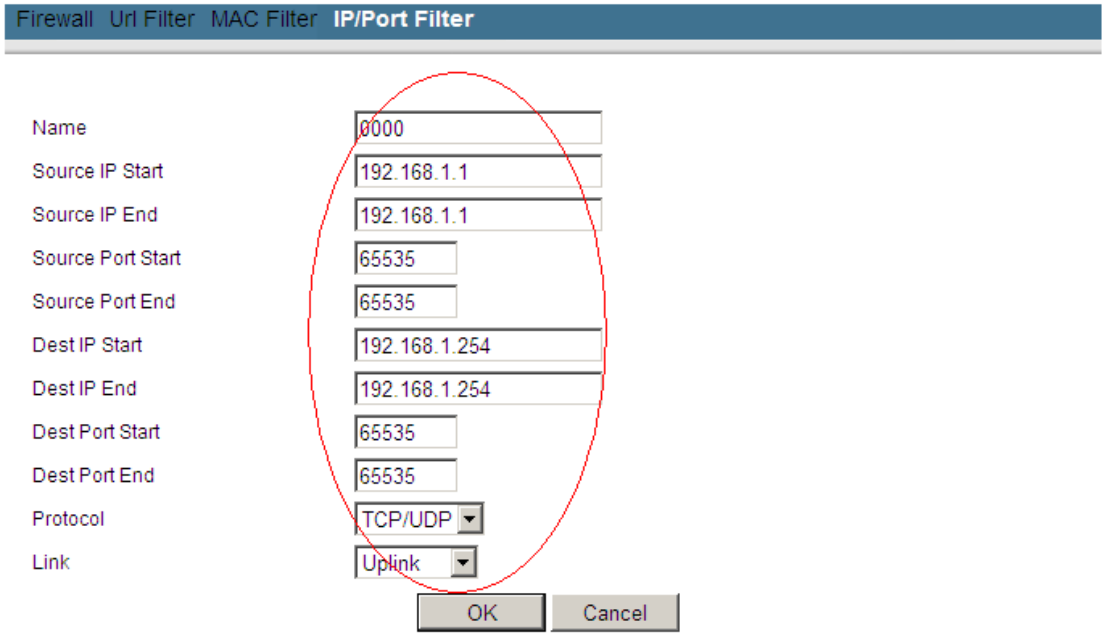
Step 1 Please choose “white list” as following:



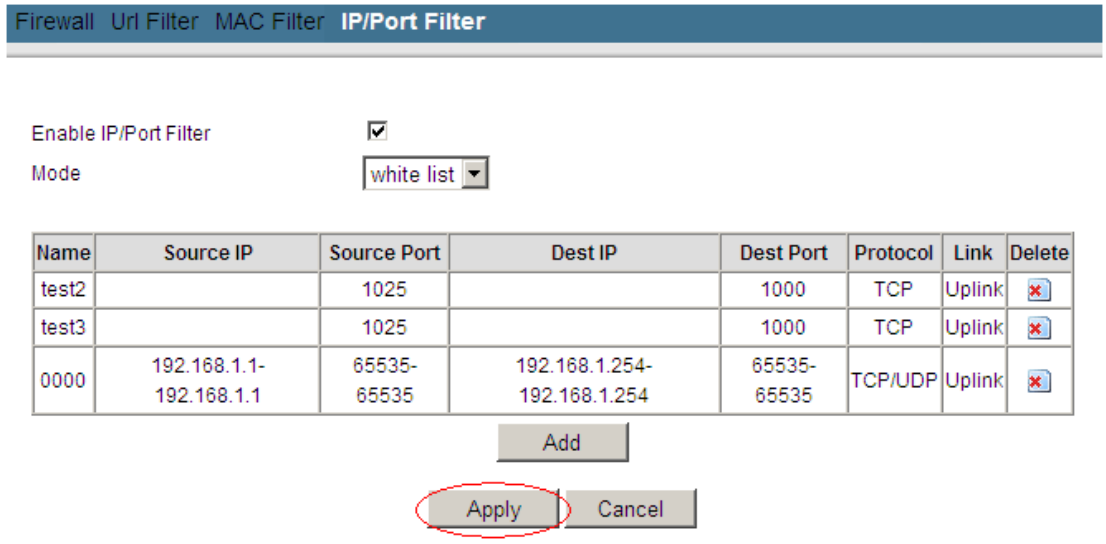
Step 2 Please click **<Add>** to add white list as following:



Step 3 Please config the related MAC address as following:

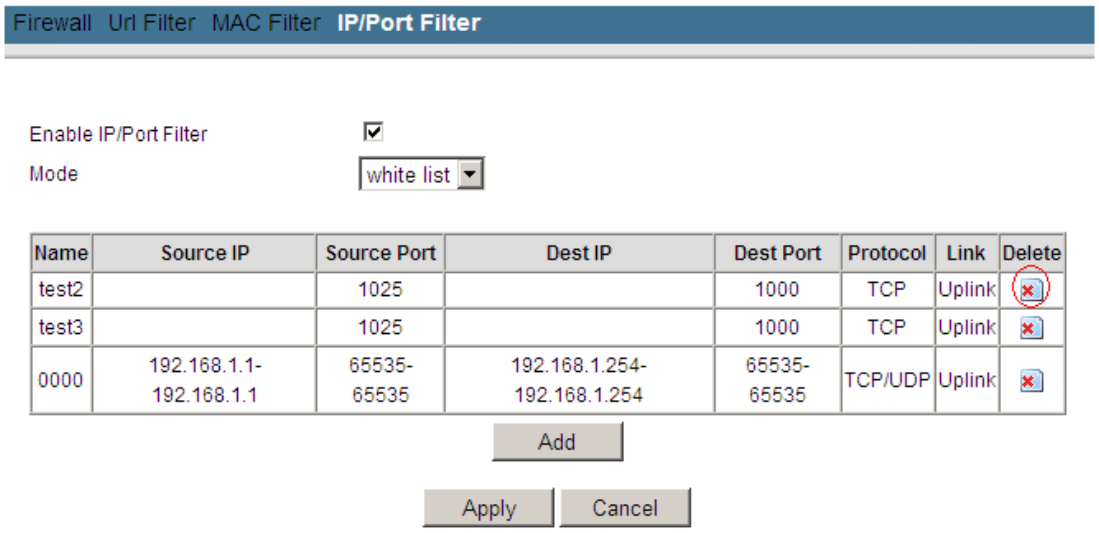


Step 4 Please click **<Apply>** to finish setting as following:



4.3.5 Delete IP/Port Filter

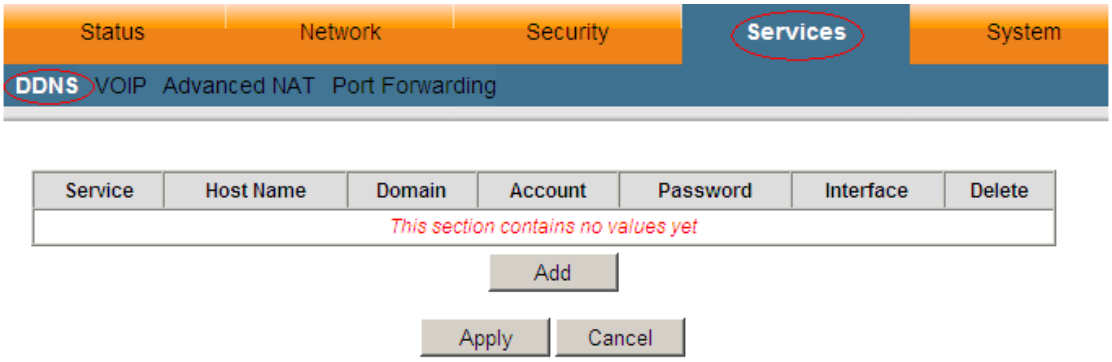
Please click **<Cancel>** to delete as following:



5 Service

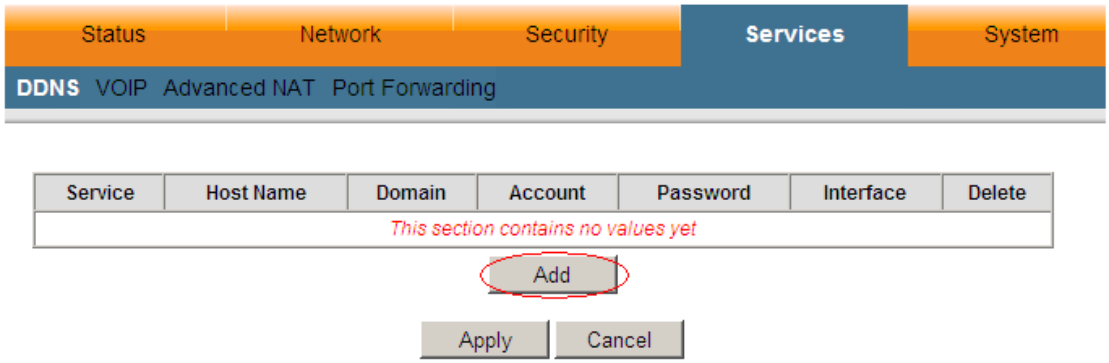
5.1 DDNS Setting

Please click **<Service>** and then click **<DDNS>** as following:

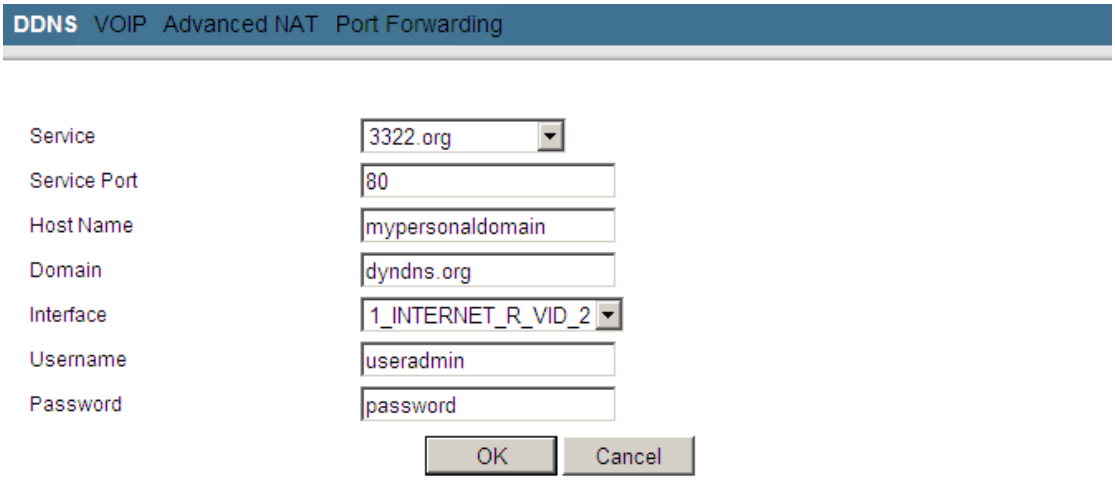


5.1.1 Add DDNS

Step 1 Please click **<Add>** to add DDNS as following:

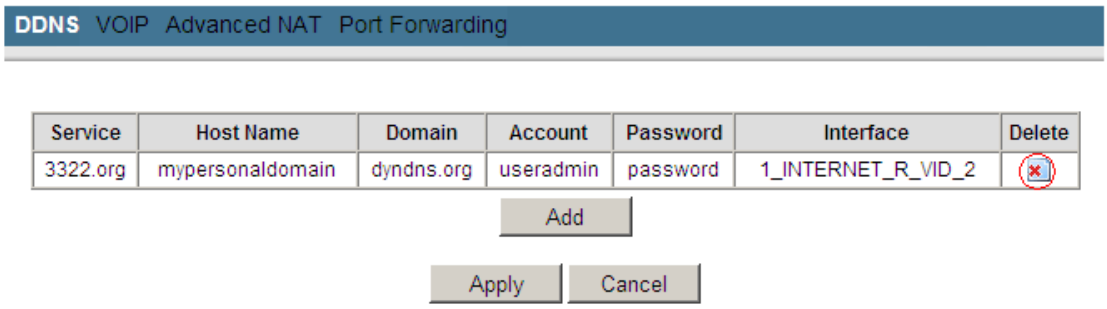


Step 2 Please Config the related parameters and click <Apply> to finsish setting as Following:



5.1.2 Delete DDNS

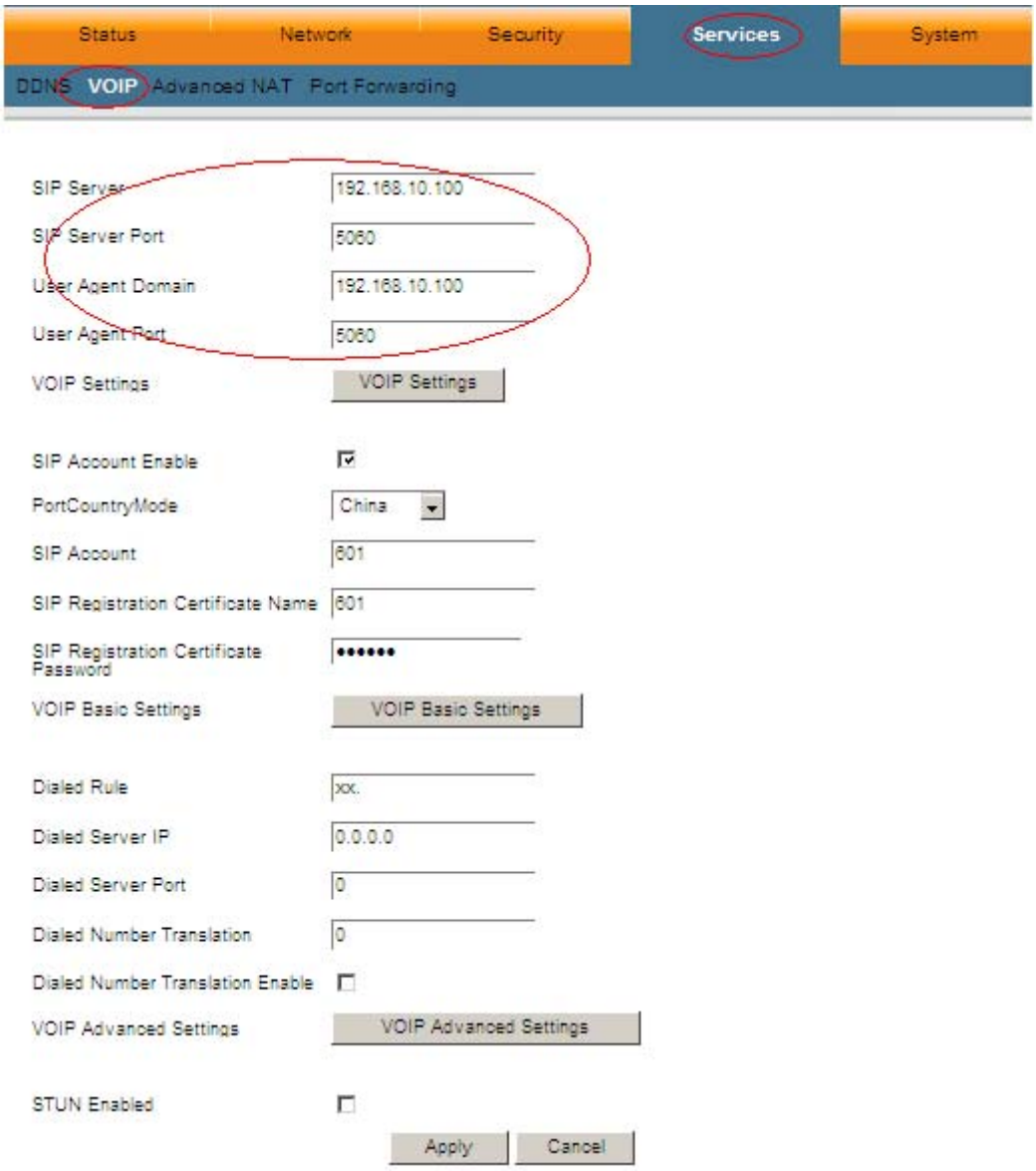
Please choose the item and click <Cancel> as following



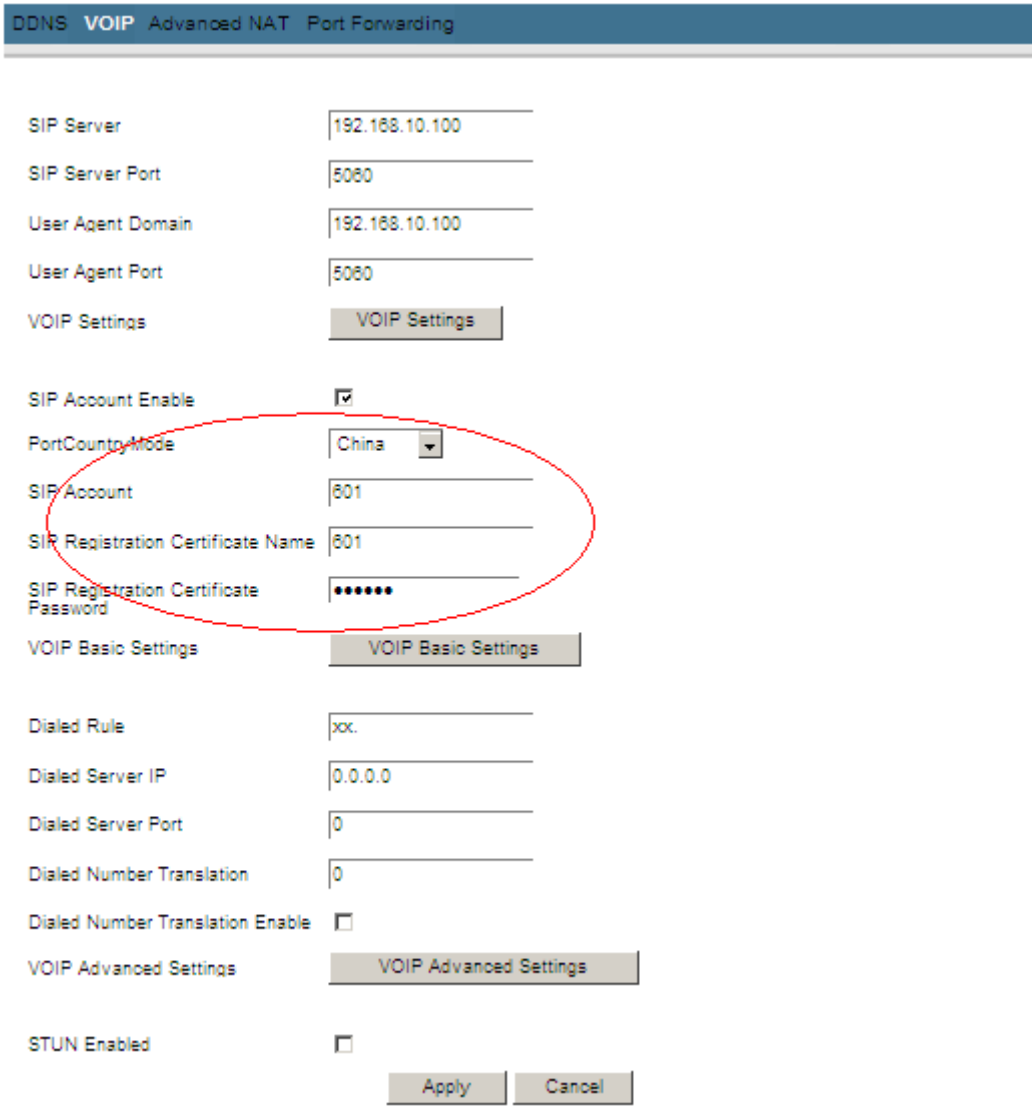
5.2 VOIP Setting

5.2.1 VOIP Account Setting

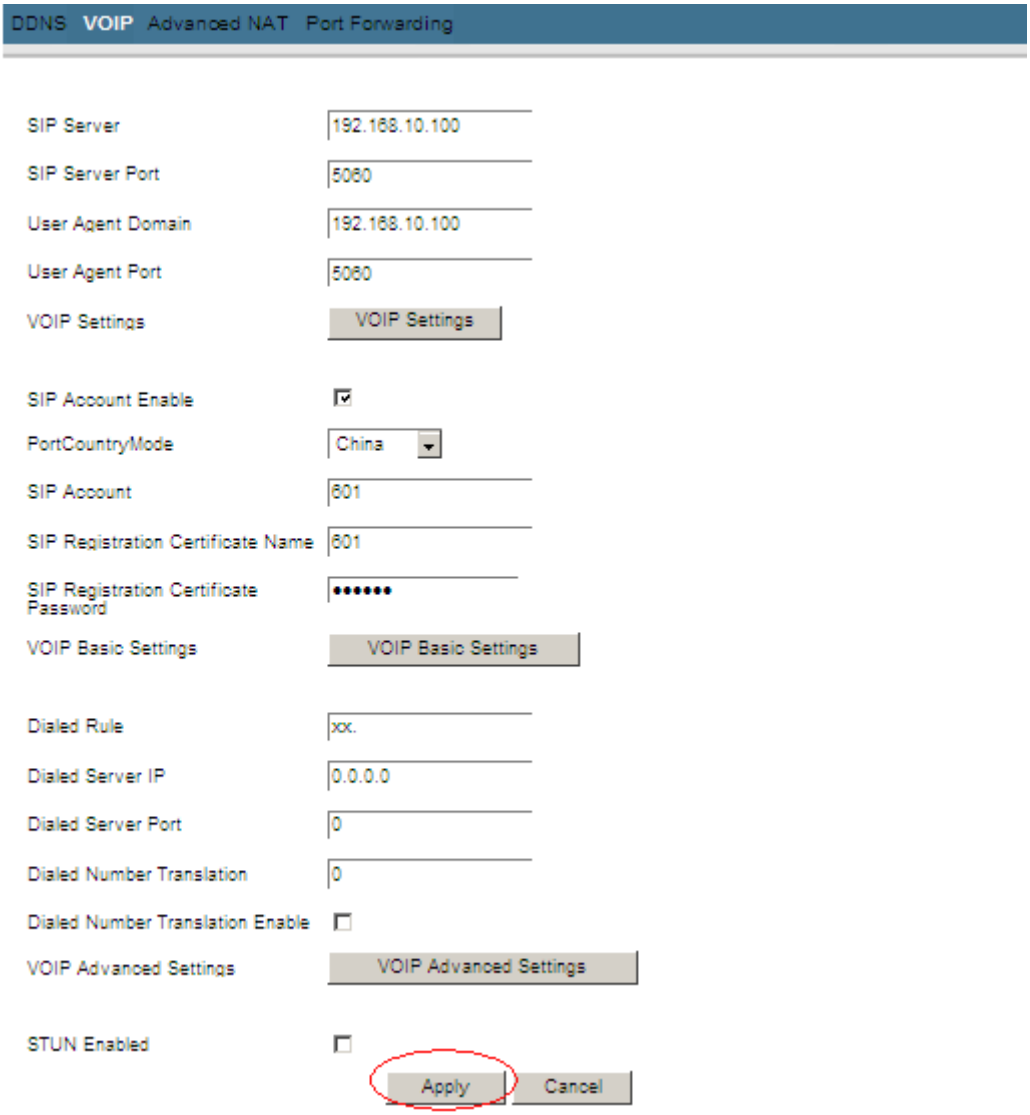
Step 1 Config server address as following:


Status
Network
Security
Services
System
DDNS
VOIP
Advanced NAT
Port Forwarding
SIP Server
192.168.10.100
SIP Server Port
5060
User Agent Domain
192.168.10.100
User Agent Port
5060
VOIP Settings
VOIP Settings
SIP Account Enable
PortCountryMode
China
SIP Account
601
SIP Registration Certificate Name
601
SIP Registration Certificate Password
VOIP Basic Settings
VOIP Basic Settings
Dialed Rule
xx.
Dialed Server IP
0.0.0.0
Dialed Server Port
0
Dialed Number Translation
0
Dialed Number Translation Enable
VOIP Advanced Settings
VOIP Advanced Settings
STUN Enabled
Apply
Cancel

Step 2 Please config VOIP account and password as following

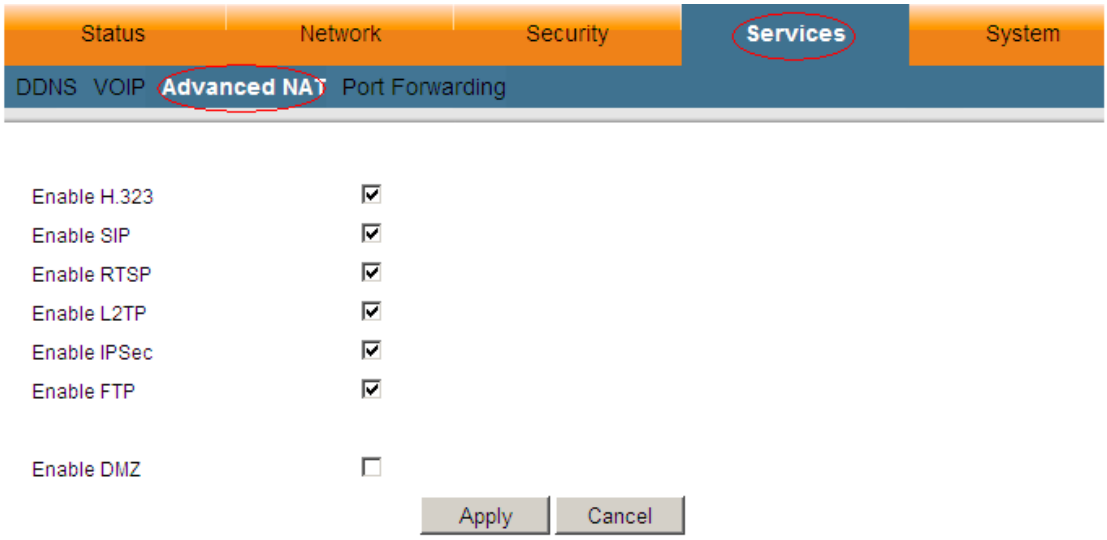


Step 3 Please click <Apply> to finish setting as following:



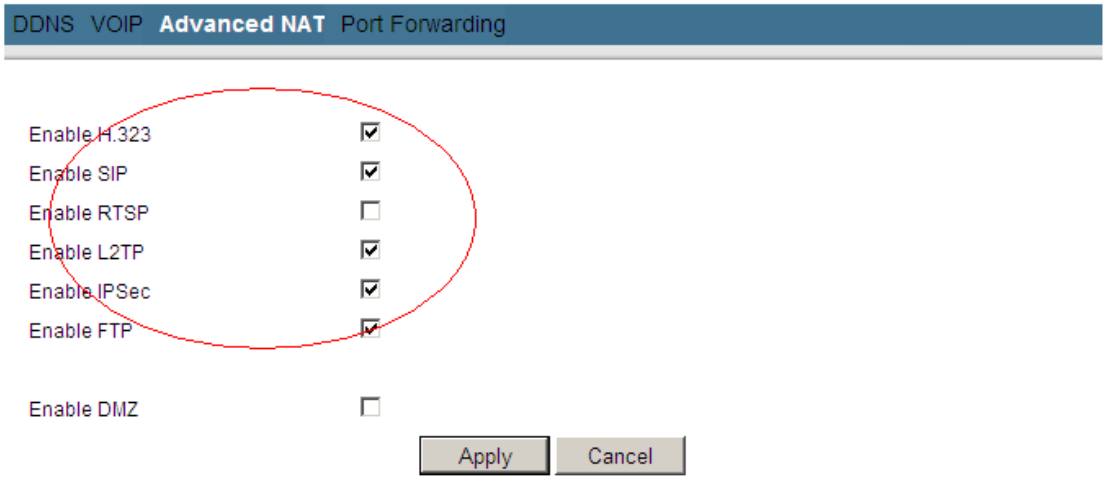
5.3 Advanced NAT Setting

Please click <Services> and <Advanced NAT> as following



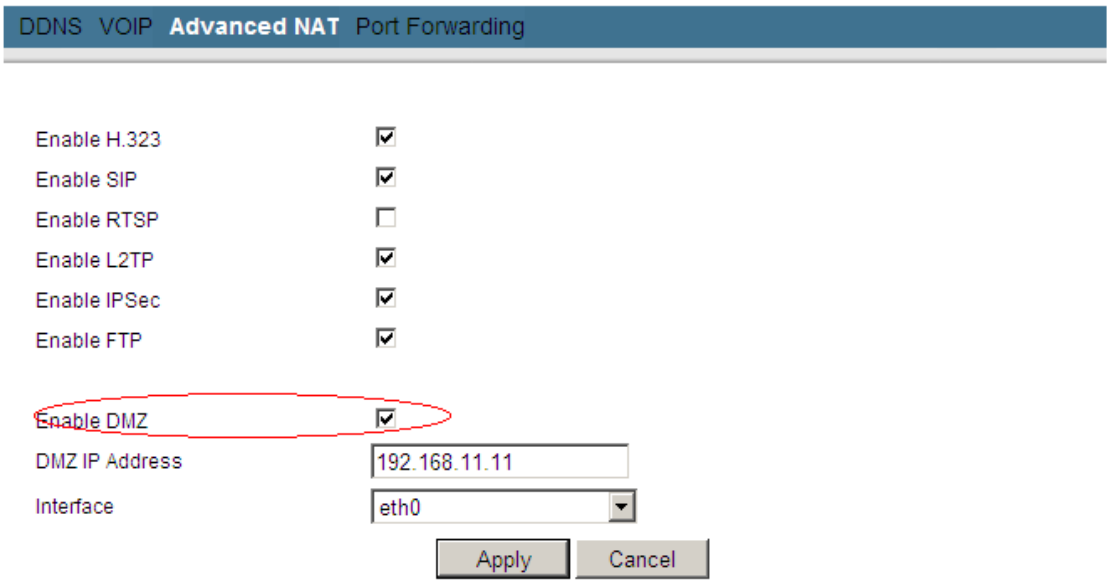
5.3.1 Start/Close Alg

Please config Alg function as following:



5.3.2 DMZ

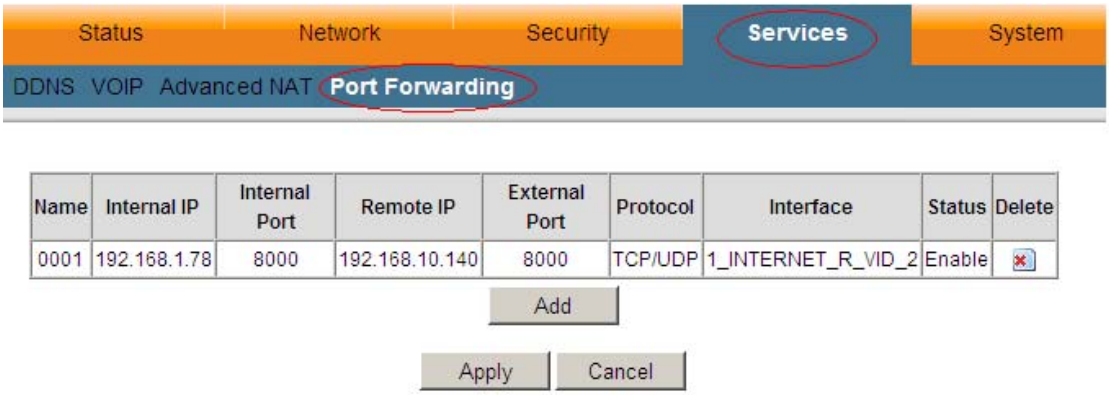
Please start DMZ function as following:



After configing the parameters, please click **<Apply>**

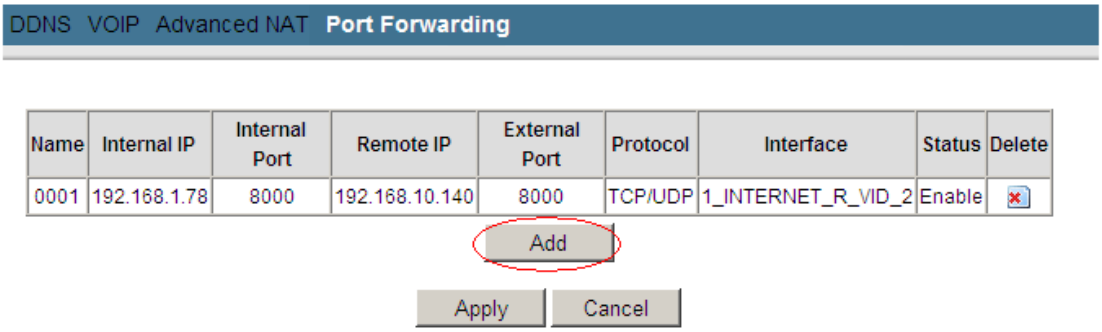
5.3.3 Port Forwarding

Please click <Services> and <Port Forwarding> as following:

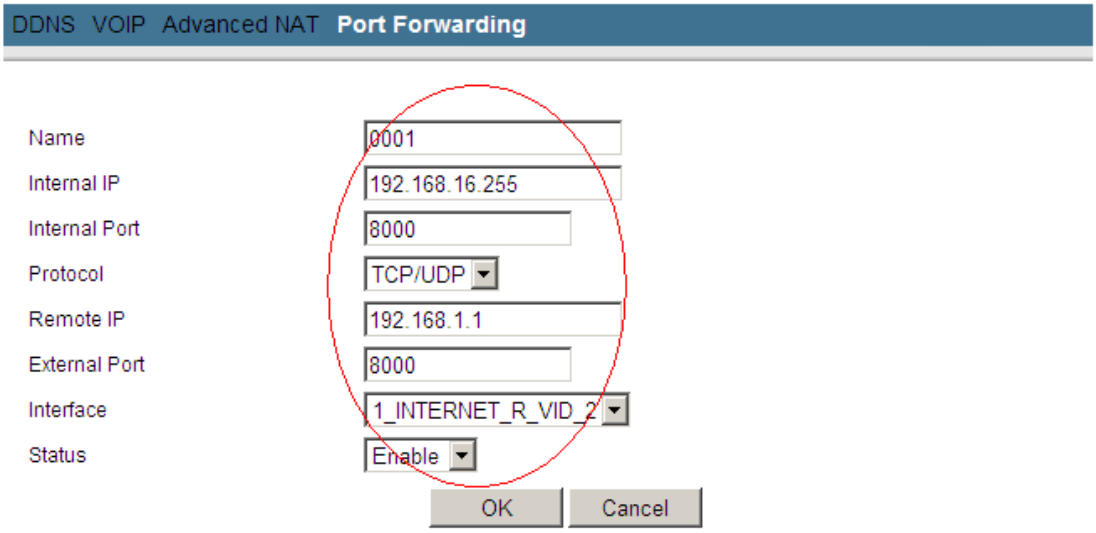


5.3.3.1 Add Port

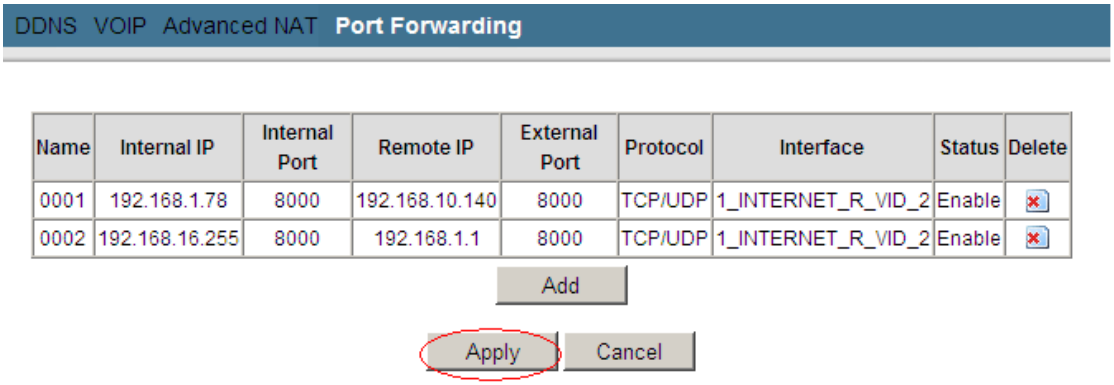
Step 1 Please click <Add> as following:



Step 2 Please config the related parameters as following:

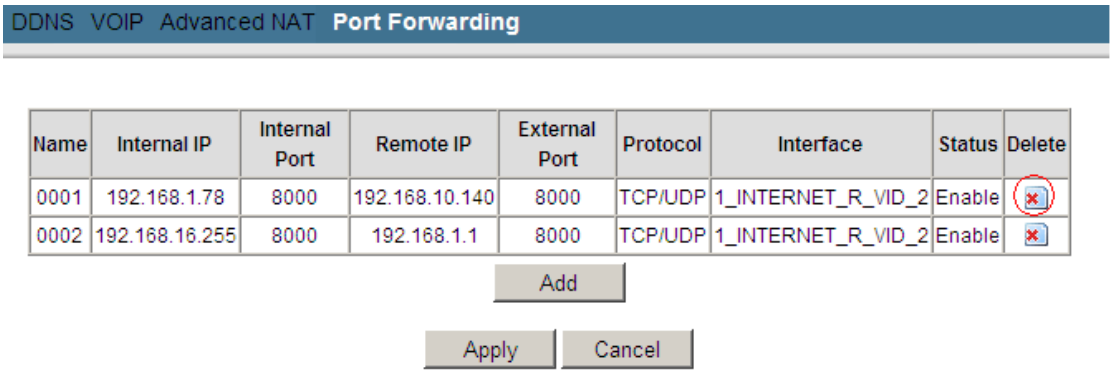


Step 3 Please click <Ok> in the above figure and click <Apply> in the following :



5.3.3.2 Delete Port

Please choose the port you want to delete and click**<Cancel>** as following:



6 System

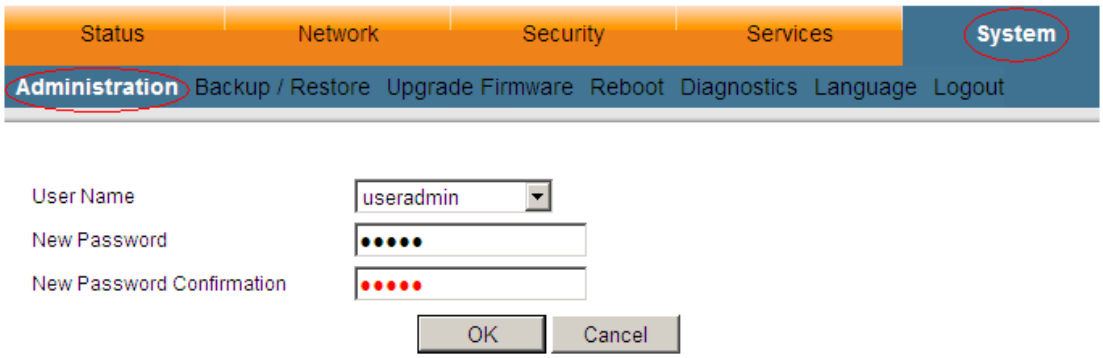
6.1 Administration

This function can provide administrator with the right to modify end user account ‘s pass Word compulsively or provide end user with the right to modify the password after Original password authentication.

A Every account is just for one user to login and reject to access for other user.

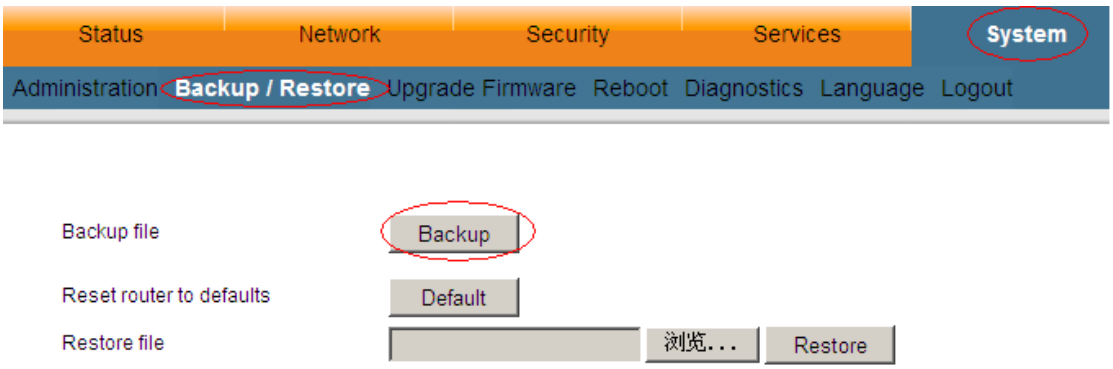
B If there is no operation after user login in 5 minutes, System will logout automatically

C If user name and pass word are continuously input wrongly 3 times, you cann’t input user name and password in one minute

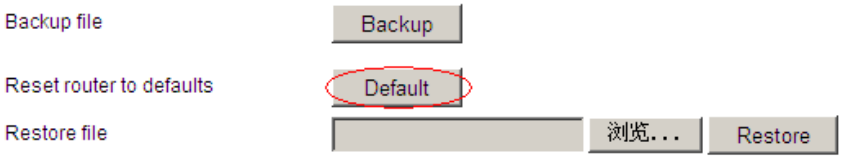


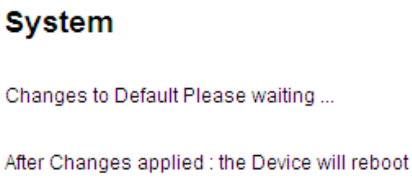
6.2 Backup/Restore

Backup the current setting as following



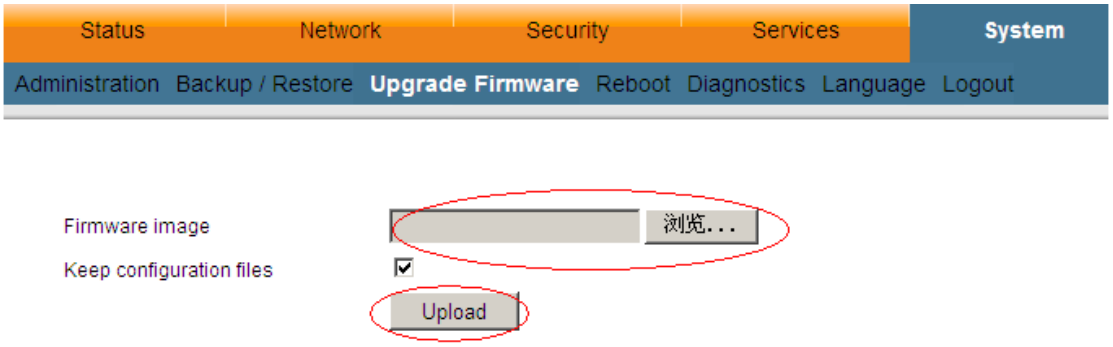
Restore default setting by manual as following:





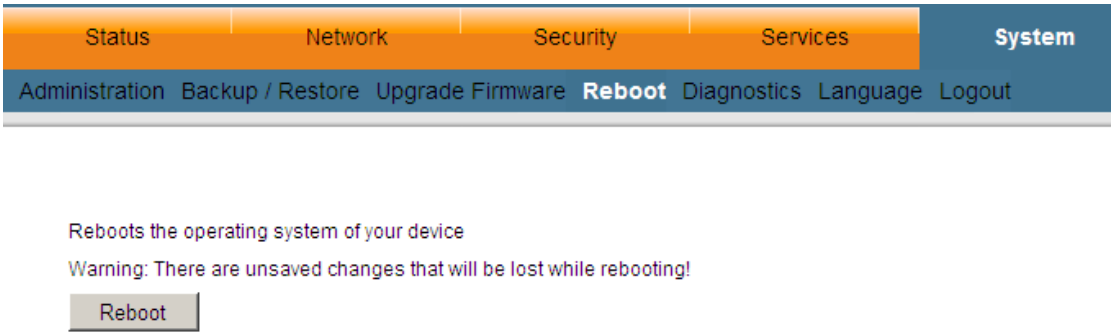
6.3 Upgrade Firmware

Local upgrade terminal software or firmware with web as following:

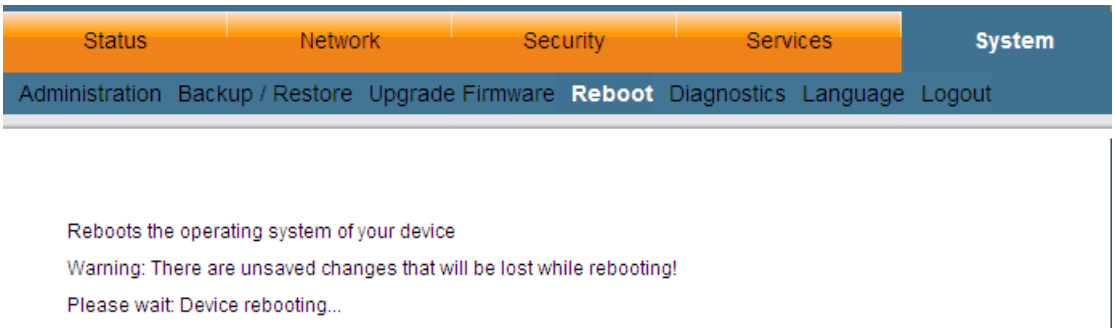


6.4 Reboot

This function support terminal reboot as following:



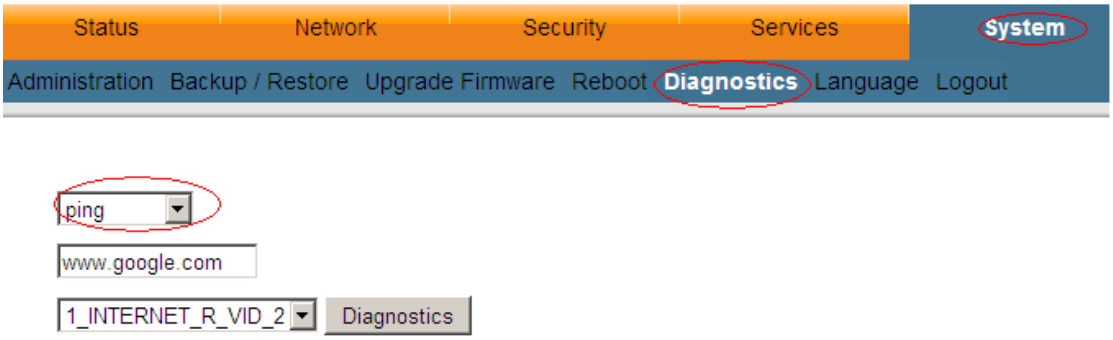
After confirmation please click <OK> as following:



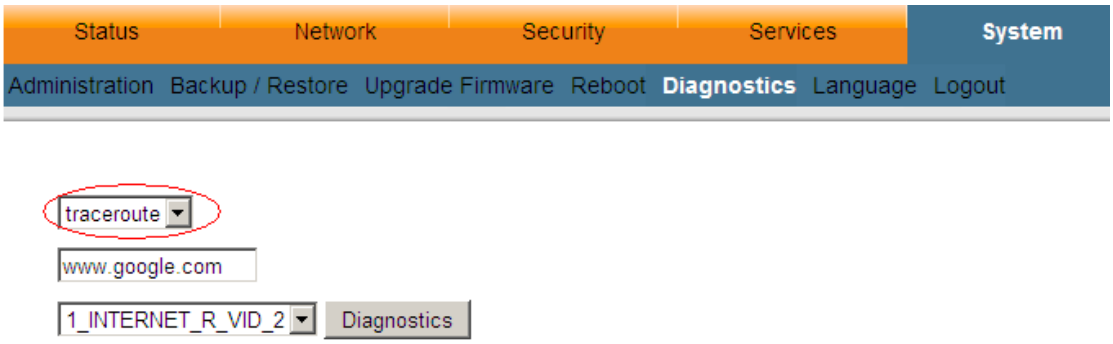
6.5 Diagnostics

Please check the network by ping and Traceroute and the target address should support IP address or domain name.

6.5.1 Diagnostics By Ping

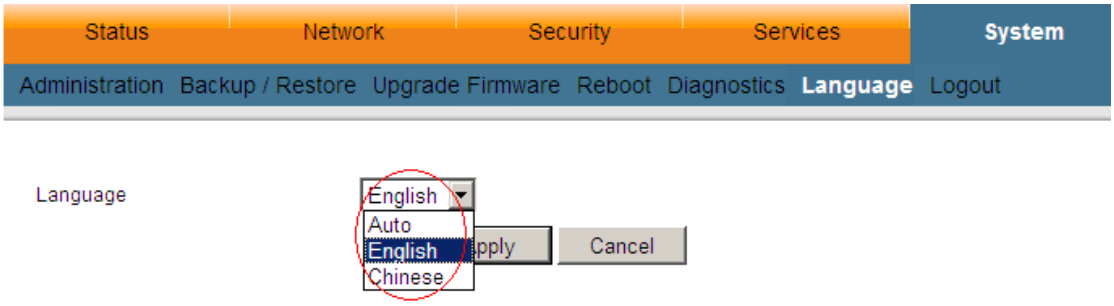


6.5.2 Diagnostics By Traceroute



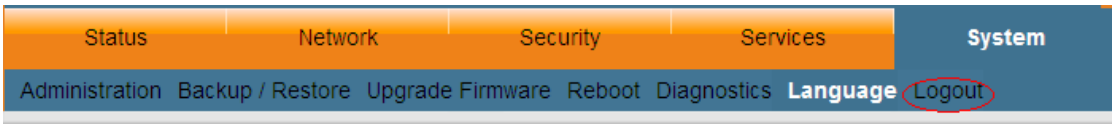
6.3 Language

This function is to config language and can automatically identify Chinese or English



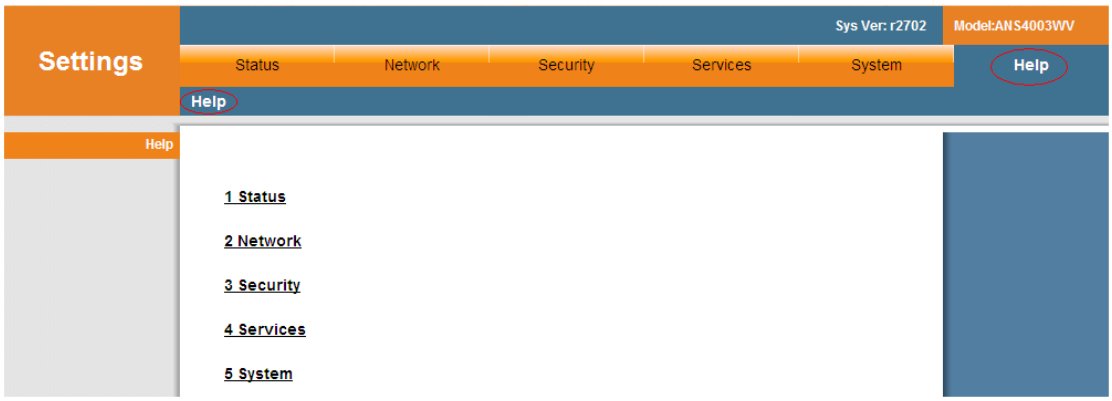
6.4 Logout

This function is to logout system that the user has login



7 Help

This function provide necessary help information for usage



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

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 a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

FCC RF Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and
operated with minimum distance 20cm between the radiator & your body.