

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 function

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 (Wireless Indicator)			
Size:(L×W×H)		180(mm)*110(mm)*31(mm)			
Working Enviroment		Work Temperature : -20°C ~ 55°C ; Work Humidity :10% ~ 90%(no-condensing) Storage temperature : -40°C ~ 70°C ; Storage Humidity:5% ~ 90%(no-condensing)			
External Power Supply		DC 12V/1A			

1.3 Packages Contents

One pcs ANS4003WV

One power adaptor

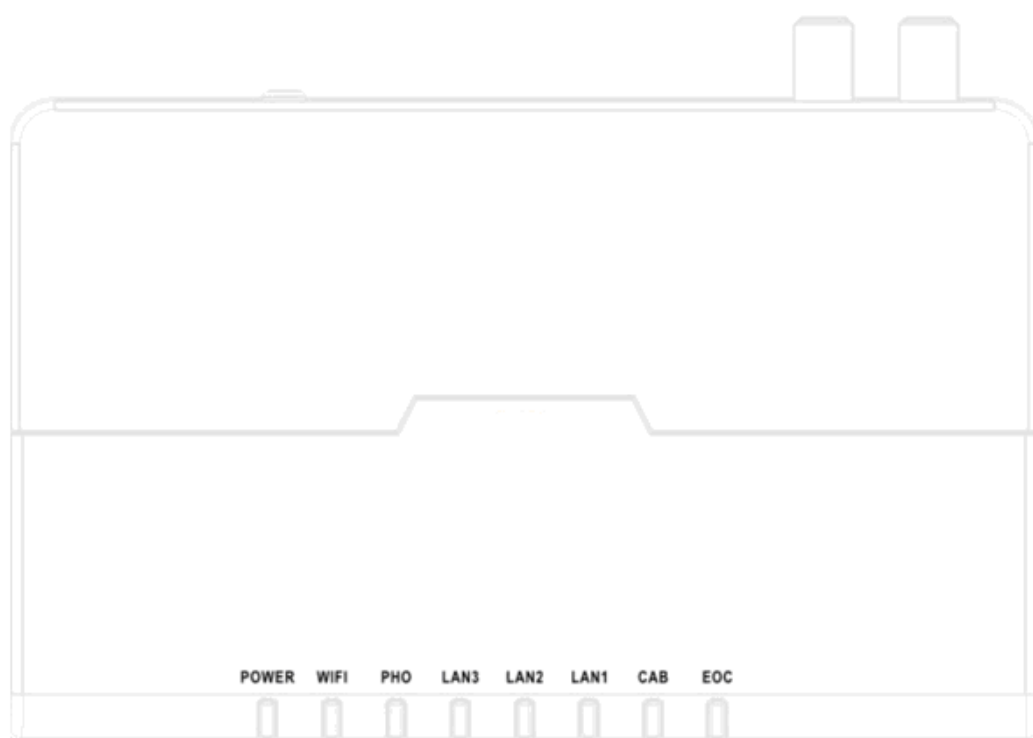
One telephone line

One Ethernet line

One CD

1.4 Indicator/Port/Button Description

1.4.1 Front panel Indicator

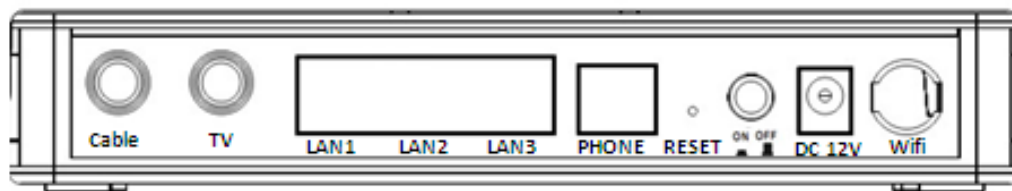


Indicator Description

Indicator	Description	Function	
Power	Power/ System indicator two colour	Dark	Power off
		Green	Power 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 Computer. For wireless LAN, the default SSID name is ***RL-SSID1*** and the default pass Word is ***wdr/tcec***

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

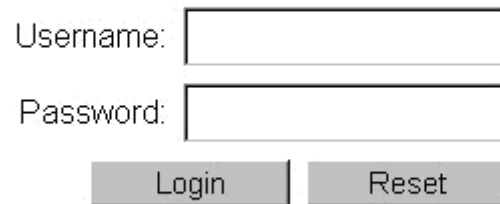
Please set fixed IP address of your computer as :192.168.1.XXX : (XXX is 2~254)

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



A login form consisting of two text input fields. The first field is labeled 'Username:' and the second is labeled 'Password:'. Below the 'Password:' field are two buttons: 'Login' and 'Reset'.

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

<Login> then the following figure will appear

Settings

Status

Network

Security

Services

System

Help

Sys Ver: r3485Model:ANS4003WW

Device Information

WAN Information

LAN Information

VOIP Information

Status

Uptime	0h 1m 27s
Local Time	Wed Feb 8 07:13:21 2012
Device Name	ANS4003WW
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.

The screenshot shows the 'Broadband Settings' page with the 'Network' tab selected. Below the navigation bar, there is a table with columns 'Internet Name', 'PortMap', and 'Delete'. The table is currently empty, with a red message 'This section contains no values yet' displayed below it. Below the table, there is an 'Add' button, and at the bottom, there are 'Apply' and 'Cancel' buttons.

3.1.1 Add Internet Name

Step 1 Please choose one Internet Name as following

This screenshot is similar to the previous one, showing the 'Broadband Settings' page with the 'Network' tab selected. The table for 'Internet Name', 'PortMap', and 'Delete' is empty, with the red message 'This section contains no values yet'. In this step, the 'Add' button is circled with a red oval to indicate it should be clicked.

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

Broadband Settings LAN Settings QoS WLAN Time Synchronisation

VLAN ID

(-1,1~4093), -1: not set VLAN ID

802.1p

0

Internet Name

INTERNET

Service Mode

Bridge

Port Bind

☐ LAN 2

☐ LAN 3

☐ WLAN 1

☐ WLAN 2

OK

Cancel

A Add Bridge Connection

Step 1 Please choose Bridge in Service Mode as following:

Broadband Settings LAN Settings QoS WLAN Time Synchronisation

VLAN ID

(-1,1~4093), -1: not set VLAN ID

802.1p

0

Internet Name

INTERNET

Service Mode

Bridge

Port Bind

☐ LAN 1

☐ LAN 2

☐ LAN 3

☐ WLAN 1

☐ WLAN 2

OK

Cancel

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

Broadband Settings LAN Settings QoS WLAN Time Synchronisation

VLAN ID (-1,1~4093), -1: not set VLAN ID

802.1p

Internet Name

Service Mode

Port Bind ☐ LAN 1 ☐ LAN 2 ☐ LAN 3
☐ WLAN 1 ☐ WLAN 2

Step 3 Please click OK as following

Broadband Settings LAN Settings QoS WLAN Time Synchronisation

VLAN ID (-1,1~4093), -1: not set VLAN ID

802.1p

Internet Name

Service Mode


Port Bind ☐ LAN 1 ☐ LAN 2 ☐ LAN 3
☐ WLAN 1 ☐ WLAN 2

B Add Router connection

Step 1 Please choose Router In Service Mode as following

VLAN ID	<input type="text" value="2"/> (-1,1~4093), -1: not set VLAN ID
802.1p	<input type="text" value="0"/>
Internet Name	<input type="text" value="INTERNET"/>
Service Mode	<input type="text" value="Route"/>
Enable NAT	<input checked="" type="checkbox"/>
Link Type	<input type="text" value="DHCP"/>
Option 60	<input type="text"/>
Port Bind	<input type="checkbox"/> LAN 1 <input type="checkbox"/> LAN 2 <input type="checkbox"/> LAN 3 <input type="checkbox"/> WLAN 1 <input type="checkbox"/> WLAN 2
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	

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.

VLAN ID	<input type="text" value="2"/> (-1,1~4093), -1: not set VLAN ID
802.1p	<input type="text" value="0"/>
Internet Name	<input type="text" value="INTERNET"/>
Service Mode	<input type="text" value="Route"/>
Enable NAT	<input checked="" type="checkbox"/>
Link Type	<div><div>DHCP</div><div><div>DHCP</div><div>Static IP</div><div>PPPoE</div><div>PPPoE Proxy</div><div>PPPoE Mix</div></div></div>
Option 60	<input type="text" value=""/> 
Port Bind	<div><div>2</div><div><input type="checkbox"/> LAN 3</div></div> <div><div>LAN 2</div></div>
	<div><div>OK</div><div>Cancel</div></div>

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.

VLAN ID	<input type="text" value="2"/> (-1,1~4093), -1: not set VLAN ID
802.1p	<input type="text" value="0"/>
Internet Name	<input type="text" value="INTERNET"/>
Service Mode	<input type="text" value="Route"/>
Enable NAT	<input checked="" type="checkbox"/>
Link Type	<input type="text" value="Static IP"/>
IP Address	<input type="text" value="192.168.2.1"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Gateway	<input type="text" value="192.168.2.254"/>
Primary DNS	<input type="text" value="192.168.2.254"/>
Secondary DNS	<input type="text" value="192.168.2.254"/>
Port Bind	<input type="checkbox"/> LAN 1 <input type="checkbox"/> LAN 2 <input type="checkbox"/> LAN 3 <input type="checkbox"/> WLAN 1 <input type="checkbox"/> WLAN 2

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


VLAN ID	<input type="text" value="2"/> (-1,1~4093), -1: not set VLAN ID
802.1p	<input type="text" value="0"/>
Internet Name	<input type="text" value="INTERNET"/>
Service Mode	<input type="text" value="Route"/>
Enable NAT	<input checked="" type="checkbox"/>
Link Type	<input type="text" value="PPPoE"/>
PPPoE Account	<input type="text" value="username"/>
PPPoE Password	<input type="password" value="•••••"/>
Server Name	<input type="text" value="servername"/>
Idle Time	<input type="text" value="15"/> seconds
Port Bind	<input type="checkbox"/> LAN 1 <input type="checkbox"/> LAN 2 <input type="checkbox"/> LAN 3 <input type="checkbox"/> WLAN 1 <input type="checkbox"/> WLAN 2
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	

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

Broadband Settings LAN Settings QoS WLAN Time Synchronisation		
Internet Name	PortMap	Delete
1_INTERNET_R_VID_2		

Step 2 Please modify relevant parameters and the parameter names should be Corresponding with the ones when you add them

Broadband Settings LAN Settings QoS WLAN Time Synchronisation	
VLAN ID	<input type="text" value="2"/> (-1,4093), -1: not set VLAN ID
802.1p	<input type="text" value="0"/> (0-7)
Internet Name	<input type="text" value="OTHER"/>
Service Mode	<input type="text" value="Route"/>
Enable NAT	<input checked="" type="checkbox"/>
Link Type	<input type="text" value="DHCP"/>
Option 60	<input type="text" value=""/>
Port Bind	<input type="checkbox"/> LAN 1 <input checked="" type="checkbox"/> LAN 2 <input type="checkbox"/> LAN 3 <input type="checkbox"/> WLAN 1 <input type="checkbox"/> WLAN 2

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

Internet Name	PortMap	Delete
1_INTERNET_R_VID_2		 

Add

Apply

Cancel

Step 2 Please click <Cancel> to finish config

Internet Name	PortMap	Delete
1_INTERNET_R_VID_2		 

Add

Apply

Cancel

3.1.4 Make Settings Effect

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

Internet Name	PortMap	Delete
1_INTERNET_R_VID_2		 

Add

Apply

Cancel

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:

Broadband Settings LAN Settings QoS WLAN Time Synchronisation

VLAN ID (-1,4093), -1: not set VLAN ID

802.1p (0-7)

Internet Name

Service Mode

Enable NAT ☒

Link Type

Option 60

Port Bind ☐ LAN 1 ☐ LAN 2 ☐ LAN 3
☐ WLAN 1 ☐ WLAN 2

Step 2 Please choose the port to bind as following:

VLAN ID	<input type="text" value="2"/> (-1,4093), -1: not set VLAN ID
802.1p	<input type="text" value="0"/> (0-7)
Internet Name	<input type="text" value="INTERNET"/>
Service Mode	<input type="text" value="Route"/>
Enable NAT	<input checked="" type="checkbox"/>
Link Type	<input type="text" value="DHCP"/>
Option 60	<input type="text"/>
Port Bind	<input type="checkbox"/> LAN 1 <input checked="" type="checkbox"/> LAN 2 <input type="checkbox"/> LAN 3 <input type="checkbox"/> WLAN 1 <input type="checkbox"/> WLAN 2
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>	

3.2 LAN Settings

Step 1 Please click <LAN Settings> as following:

Status	Network	Security	Services	System
Broadband Settings	LAN Settings	QoS	WLAN	Time Synchronisation

IP Address Note: change the IP, will change the IP pool

Subnet Mask

DHCP Server Enable ☒

Network type	Start IP	End IP	Leasetime (hours)
STB	<input type="text" value="192.168.1.10"/>	<input type="text" value="192.168.1.20"/>	<input type="text" value="12"/>
Phone	<input type="text" value="192.168.1.30"/>	<input type="text" value="192.168.1.40"/>	<input type="text" value="12"/>
Camera	<input type="text" value="192.168.1.50"/>	<input type="text" value="192.168.1.60"/>	<input type="text" value="12"/>
computer	<input type="text" value="192.168.1.70"/>	<input type="text" value="192.168.1.80"/>	<input type="text" value="12"/>

Manual DNS ☒

Primary DNS

Secondary DNS

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	<input checked="" type="checkbox"/>
2	Higher	<input checked="" type="checkbox"/>
3	High	<input checked="" type="checkbox"/>
4	Middle	<input checked="" type="checkbox"/>
5	Low	<input checked="" type="checkbox"/>
6	Lowest	<input checked="" type="checkbox"/>

Entry QoS Classf


Apply

Cancel









3.3.2 QoS Classf Setting

Step 1 Please click <Entry QoS Classf> as following

Broadband Settings LAN Settings **QoS** WLAN Time Synchronisation

Mode	ClassQueue	Delete
VOIP	1	




Add

ClassQueue	DSCPMarkValue	802.1P	Add New Type	Operate
1	0	0		
2	0	0		
3	0	0		
4	0	0		

ReturnAdd




ApplyCancel

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


Type	Parameter 1	Parameter 2	ProtocolList	Delete
SIP	192.168.1.78	255.255.255.0	TCP	
DIP	192.168.10.128	255.255.255.255	TCP	
SPORT	100		TCP	

Return **Add&Subm**

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


Type	Parameter 1	Parameter 2	ProtocolList	Delete
SIP	192.168.1.78	255.255.255.0	TCP	
DIP	192.168.10.128	255.255.255.255	TCP	
SPORT	100		TCP	

Return Add&Subm

Type **DPORT** 

Dest Port Max

Dest Port Min -1 Means no value of this item

ProtocolList **TCP** 

3.4 WLAN

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

Enable Wireless	<input checked="" type="checkbox"/>
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	<input checked="" type="checkbox"/>
Hidden SSID	<input type="checkbox"/>
Encrypt Type	WPA-PSK ▾
WPA Cipher	TKIP ▾
WPA Key	wdrftcec
Enable WPS	<input type="checkbox"/>
SSID Index	SSID 2 ▾
SSID	RL-SSID2
Enable SSID	<input checked="" type="checkbox"/>
Hidden SSID	<input checked="" type="checkbox"/>
Encrypt Type	WPA-PSK ▾
WPA Cipher	AES ▾
WPA Key	0123456789
<input type="button" value="Apply"/> <input type="button" value="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:

The screenshot shows a web interface for Time Synchronisation. At the top, there is a navigation bar with tabs: Status, Network (highlighted with a red circle), Security, Services, and System. Below this, there is a sub-navigation bar with links: Broadband Settings, LAN Settings, QoS, WLAN, and Time Synchronisation (highlighted with a red circle). The main content area displays the following settings:

Current Time	Sat Dec 24 23:17:28 2011
Time Zone	<input type="text" value="UTC"/>
Refresh	<input type="button" value="Refresh"/>
Enable NTP	<input type="checkbox"/>
Manual Time	<input type="text" value="2011-12-24 23:17:30"/>
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>	

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

Current Time Sat Dec 24 23:14:08 2011

Time Zone

Refresh

Enable NTP ☒

Primary NTP Server

Secondary NTP Server

4 Security

4.1 Firewall

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

Status Network **Security** Services System

Firewall Url Filter MAC Filter IP/Port Filter

Port Scan Protection ☒

Ping of Death ☒

SYN Flood ☒

WinNuke ☒

Smurf ☒

ICMP Redirection ☒

Step 2 Please configure the related function and click **<Apply>** as following

Firewall	Url Filter	MAC Filter	IP/Port Filter
<div>Port Scan Protection <input checked="" type="checkbox"/></div> <div>Ping of Death <input checked="" type="checkbox"/></div> <div>SYN Flood <input type="checkbox"/></div> <div>Winnuke <input checked="" type="checkbox"/></div> <div>Smurf <input checked="" type="checkbox"/></div> <div>ICMP Redirection <input checked="" type="checkbox"/></div> <div>Apply Cancel</div>			

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:

Status	Network	Security	Services	System
Firewall Url Filter MAC Filter IP/Port Filter				
<div>Enable URL Filter <input type="checkbox"/></div> <div>Apply Cancel</div>				



4.2.2 Add Url Filter black list

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

Firewall **Url Filter** MAC Filter IP/Port Filter

Enable URL Filter ☒

Mode black list ▼

Url Address	Host	Description	Delete
www.qq.com	qq	qq	
www.baidu.com	baidu	baidu	

Add



Apply Cancel

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

Firewall **Url Filter** MAC Filter IP/Port Filter

Enable URL Filter ☒

Mode black list ▼

Url Address	Host	Description	Delete
www.qq.com	qq	qq	
www.baidu.com	baidu	baidu	

Add

Apply Cancel

Step 3 Please config related filter parameters as following:

Firewall **Url Filter** MAC Filter IP/Port Filter

Url Address

Host

Description

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

Firewall **Url Filter** MAC Filter IP/Port Filter

Enable URL Filter ☒

Mode

Url Address	Host	Description	Delete
www.qq.com	qq	qq	<input type="button" value="X"/>
www.baidu.com	baidu	baidu	<input type="button" value="X"/>
www.google.com	google	google	<input type="button" value="X"/>

4.2.3 Add Url Filter white list

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

Firewall **Url Filter** MAC Filter IP/Port Filter

Enable URL Filter ☒

Mode white list

Url Address	Host	Description	Delete
This section contains no values yet			

Add

Apply Cancel

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

Firewall **Url Filter** MAC Filter IP/Port Filter

Enable URL Filter ☒

Mode white list

Url Address	Host	Description	Delete
This section contains no values yet			

Add

Apply Cancel

Step 3 Please config related filter parameters as following:

Firewall
Url Filter
MAC Filter
IP/Port Filter

Url Address

www.hao123.com

Host

hao123

Description

hao123

OK

Cancel

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

Firewall
Url Filter
MAC Filter
IP/Port Filter

Enable URL Filter

☒

Mode

white list

Url Address	Host	Description	Delete
www.hao123.com	hao123	hao123	

Add

Apply

Cancel

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:

StatusNetworkSecurityServicesSystem

FirewallUrl FilterMAC FilterIP/Port Filter

Enable MAC Filter☐

ApplyCancel

4.3.2 Add MAC Filter black list

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

FirewallUrl FilterMAC FilterIP/Port Filter

Enable MAC Filter☒

Modeblack list

MAC Address	Description	Delete
00:11:22:33:44:66		
11:11:22:33:44:66		

Add



ApplyCancel

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

Firewall Url Filter **MAC Filter** IP/Port Filter

Enable MAC Filter ☒

Mode black list ▾

MAC Address	Description	Delete
00:11:22:33:44:66		
11:11:22:33:44:66		

Add

Apply Cancel

Step 3 Please config related filter parameters as following:

Firewall Url Filter **MAC Filter** IP/Port Filter

MAC Address 00:00:00:00:00:01

Description MAC

OK Cancel

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

Firewall Url Filter **MAC Filter** IP/Port Filter

Enable MAC Filter ☒

Mode black list ▾

MAC Address	Description	Delete
00:11:22:33:44:66		
11:11:22:33:44:66		
00:00:00:00:00:01	MAC	

Add

Apply Cancel

4.3.3 Add MAC Filter white list

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

Firewall Url Filter **MAC Filter** IP/Port Filter

Enable MAC Filter ☒

Mode white list ▾

MAC Address	Description	Delete
aa:11:22:33:44:66		

Add


Apply Cancel

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

Firewall Url Filter **MAC Filter** IP/Port Filter

Enable MAC Filter ☒

Mode white list ▾

MAC Address	Description	Delete
aa:11:22:33:44:66		

Add

Apply Cancel

Step 3 Please config related filter parameters as following:

Firewall Url Filter **MAC Filter** IP/Port Filter

MAC Address 00:00:00:00:00:02

Description MAC

OK Cancel

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

Firewall
Url Filter
MAC Filter
IP/Port Filter

Enable MAC Filter ☒

Mode white list ▾

MAC Address	Description	Delete
aa:11:22:33:44:66		
00:00:00:00:00:02	MAC	

Add

Apply
Cancel

4.3.4 Add IP/Port Filter

Step 1 Please choose “white list” as following:

Firewall
Url Filter
MAC Filter
IP/Port Filter

Enable IP/Port Filter ☒

Mode white list ▾

Name	Source IP	Source Port	Dest IP	Dest Port	Protocol	Link	Delete
test2		1025		1000	TCP	Uplink	
test3		1025		1000	TCP	Uplink	

Add

Apply
Cancel



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

Enable IP/Port Filter



Mode

white list ▼

Name	Source IP	Source Port	Dest IP	Dest Port	Protocol	Link	Delete
test2		1025		1000	TCP	Uplink	
test3		1025		1000	TCP	Uplink	

Add

Apply

Cancel

Step 3 Please config the related MAC address as following:

Name

0000

Source IP Start

192.168.1.1

Source IP End

192.168.1.1

Source Port Start

65535

Source Port End

65535

Dest IP Start

192.168.1.254

Dest IP End

192.168.1.254

Dest Port Start

65535

Dest Port End

65535

Protocol

TCP/UDP ▼

Link

Uplink ▼

OK

Cancel




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

Enable IP/Port Filter



Mode

white list ▼

Name	Source IP	Source Port	Dest IP	Dest Port	Protocol	Link	Delete
test2		1025		1000	TCP	Uplink	
test3		1025		1000	TCP	Uplink	
0000	192.168.1.1- 192.168.1.1	65535- 65535	192.168.1.254- 192.168.1.254	65535- 65535	TCP/UDP	Uplink	

Add

Apply

Cancel




4.3.5 Delete IP/Port Filter

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

Enable IP/Port Filter ☒

Mode

white list ▼

Name	Source IP	Source Port	Dest IP	Dest Port	Protocol	Link	Delete
test2		1025		1000	TCP	Uplink	
test3		1025		1000	TCP	Uplink	
0000	192.168.1.1- 192.168.1.1	65535- 65535	192.168.1.254- 192.168.1.254	65535- 65535	TCP/UDP	Uplink	

Add

Apply

Cancel

5 Service

5.1 DDNS Setting

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



Service	Host Name	Domain	Account	Password	Interface	Delete
This section contains no values yet						

Add

Apply

Cancel

5.1.1 Add DDNS

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


The screenshot shows the 'Services' tab in the configuration interface. Under the 'DDNS' sub-tab, there is a table with columns: Service, Host Name, Domain, Account, Password, Interface, and Delete. The table is currently empty, with a red message 'This section contains no values yet' displayed below the headers. Below the table, the 'Add' button is circled in red. At the bottom of the section are 'Apply' and 'Cancel' buttons.

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

The screenshot shows the DDNS configuration form with the following fields filled out: Service (3322.org), Service Port (80), Host Name (mypersonaldomain), Domain (dyndns.org), Interface (1_INTERNET_R_VID_2), Username (useradmin), and Password (password). The 'OK' and 'Cancel' buttons are at the bottom.

5.1.2 Delete DDNS

Please choose the item and click <Cancel> as following

Service	Host Name	Domain	Account	Password	Interface	Delete
3322.org	mypersonaldomain	dyndns.org	useradmin	password	1_INTERNET_R_VID_2	

Add

Apply

Cancel

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	<input checked="" type="checkbox"/>
PortCountryMode	China
SIP Account	801
SIP Registration Certificate Name	801
SIP Registration Certificate Password	*****

VOIP Basic Settings [VOIP Basic Settings](#)

Dialed Rule	xxx
Dialed Server IP	0.0.0.0
Dialed Server Port	0
Dialed Number Translation	0
Dialed Number Translation Enable	<input type="checkbox"/>

VOIP Advanced Settings [VOIP Advanced Settings](#)

STUN Enabled	<input type="checkbox"/>
--------------	--------------------------

[Apply](#) [Cancel](#)

Step 2 Please config VOIP account and password as following

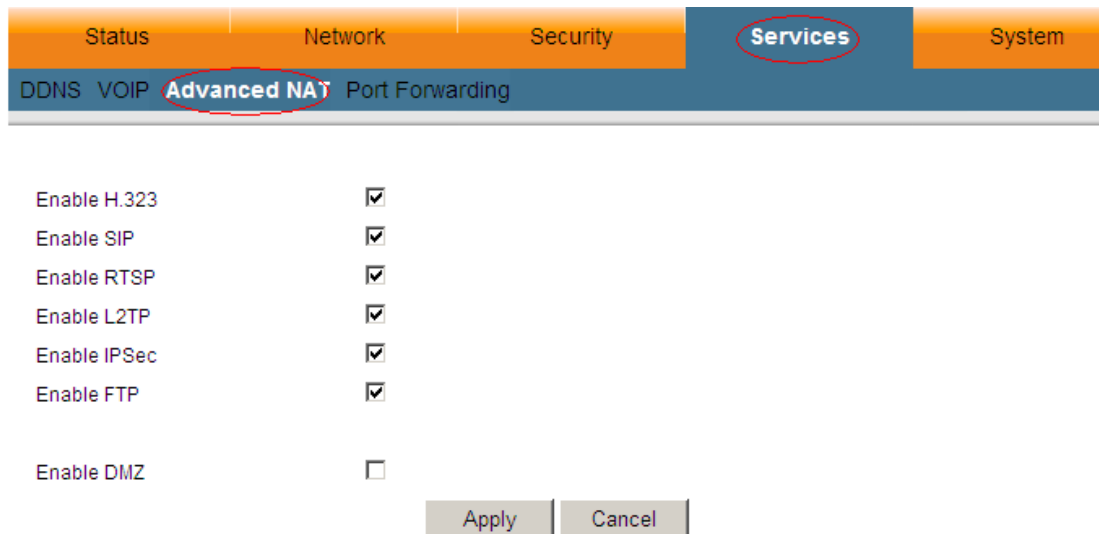
DDNS VOIP Advanced NAT Port Forwarding	
SIP Server	192.168.10.100
SIP Server Port	5060
User Agent Domain	192.168.10.100
User Agent Port	5060
VOIP Settings	VOIP Settings
SIP Account Enable	<input checked="" type="checkbox"/>
PortCountryMode	China
SIP Account	801
SIP Registration Certificate Name	801
SIP Registration Certificate Password	*****
VOIP Basic Settings	VOIP Basic Settings
Dialed Rule	xxx.
Dialed Server IP	0.0.0.0
Dialed Server Port	0
Dialed Number Translation	0
Dialed Number Translation Enable	<input type="checkbox"/>
VOIP Advanced Settings	VOIP Advanced Settings
STUN Enabled	<input type="checkbox"/>
<div>Apply Cancel</div>	

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

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	<input checked="" type="checkbox"/>
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	<input type="checkbox"/>
VOIP Advanced Settings	VOIP Advanced Settings
STUN Enabled	<input type="checkbox"/>
	Apply Cancel

5.3 Advanced NAT Setting

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



The screenshot shows a web interface with a top navigation bar containing 'Status', 'Network', 'Security', 'Services', and 'System'. The 'Services' tab is selected and circled in red. Below it, a sub-menu bar contains 'DDNS', 'VOIP', 'Advanced NAT', and 'Port Forwarding'. The 'Advanced NAT' option is also circled in red. The main content area lists several services with checkboxes: 'Enable H.323' (checked), 'Enable SIP' (checked), 'Enable RTSP' (checked), 'Enable L2TP' (checked), 'Enable IPSec' (checked), 'Enable FTP' (checked), and 'Enable DMZ' (unchecked). At the bottom right, there are 'Apply' and 'Cancel' buttons.

Service	Enabled
Enable H.323	<input checked="" type="checkbox"/>
Enable SIP	<input checked="" type="checkbox"/>
Enable RTSP	<input checked="" type="checkbox"/>
Enable L2TP	<input checked="" type="checkbox"/>
Enable IPSec	<input checked="" type="checkbox"/>
Enable FTP	<input checked="" type="checkbox"/>
Enable DMZ	<input type="checkbox"/>

Apply Cancel

5.3.1 Start/Close Alg

Please config Alg function as following:

Enable H.323 ☒
Enable SIP ☒
Enable RTSP ☐
Enable L2TP ☒
Enable IPSec ☒
Enable FTP ☒

Enable DMZ ☐

Apply Cancel

5.3.2 DMZ

Please start DMZ function as following:

Enable H.323 ☒
Enable SIP ☒
Enable RTSP ☐
Enable L2TP ☒
Enable IPSec ☒
Enable FTP ☒

Enable DMZ ☒

DMZ IP Address

Interface

Apply Cancel

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

5.3.3 Port Forwarding

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



Name	Internal IP	Internal Port	Remote IP	External Port	Protocol	Interface	Status	Delete
0001	192.168.1.78	8000	192.168.10.140	8000	TCP/UDP	1_INTERNET_R_VID_2	Enable	

Add

Apply

Cancel

5.3.3.1 Add Port

Step 1 Please click **<Add>** as following:



Name	Internal IP	Internal Port	Remote IP	External Port	Protocol	Interface	Status	Delete
0001	192.168.1.78	8000	192.168.10.140	8000	TCP/UDP	1_INTERNET_R_VID_2	Enable	

Add

Apply

Cancel

Step 2 Please config the related parameters as following:



DDNS VOIP Advanced NAT **Port Forwarding**

Name: 0001
 Internal IP: 192.168.16.255
 Internal Port: 8000
 Protocol: TCP/UDP
 Remote IP: 192.168.1.1
 External Port: 8000
 Interface: 1_INTERNET_R_VID_2
 Status: Enable

OK Cancel

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

DDNS VOIP Advanced NAT **Port Forwarding**



Name	Internal IP	Internal Port	Remote IP	External Port	Protocol	Interface	Status	Delete
0001	192.168.1.78	8000	192.168.10.140	8000	TCP/UDP	1_INTERNET_R_VID_2	Enable	
0002	192.168.16.255	8000	192.168.1.1	8000	TCP/UDP	1_INTERNET_R_VID_2	Enable	

Add

Apply Cancel

5.3.3.2 Delete Port

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

Name	Internal IP	Internal Port	Remote IP	External Port	Protocol	Interface	Status	Delete
0001	192.168.1.78	8000	192.168.10.140	8000	TCP/UDP	1_INTERNET_R_VID_2	Enable	
0002	192.168.16.255	8000	192.168.1.1	8000	TCP/UDP	1_INTERNET_R_VID_2	Enable	

Add

Apply

Cancel

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 can't input user name and password in one minute

Status	Network	Security	Services	System		
Administration	Backup / Restore	Upgrade Firmware	Reboot	Diagnostics	Language	Logout

User Name	<input type="text" value="useradmin"/>
New Password	<input type="password" value="••••"/>
New Password Confirmation	<input type="password" value="••••"/>
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	

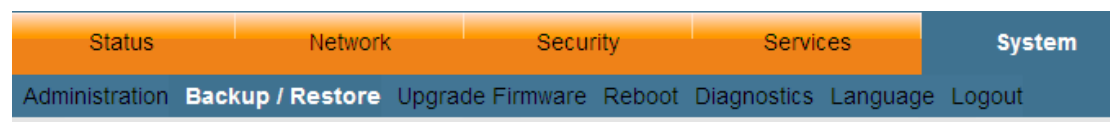
6.2 Backup/Restore

Backup the current setting as following

Status	Network	Security	Services	System		
Administration	Backup / Restore	Upgrade Firmware	Reboot	Diagnostics	Language	Logout

Backup file	<input type="button" value="Backup"/>
Reset router to defaults	<input type="button" value="Default"/>
Restore file	<input type="text"/> <input type="button" value="浏览..."/> <input type="button" value="Restore"/>

Restore default setting by manual as following:



System

Changes to Default Please waiting ...

After Changes applied : the Device will reboot

6.3 Upgrade Firmware

Local upgrade terminal software or firmware with web as following:

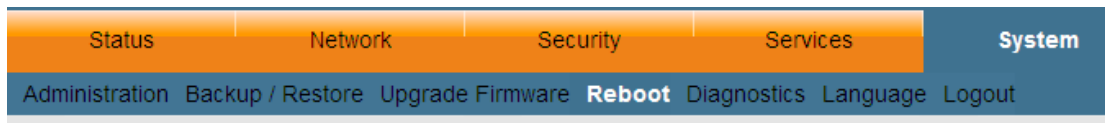


Firmware image 浏览...

Keep configuration files ☒

6.4 Reboot

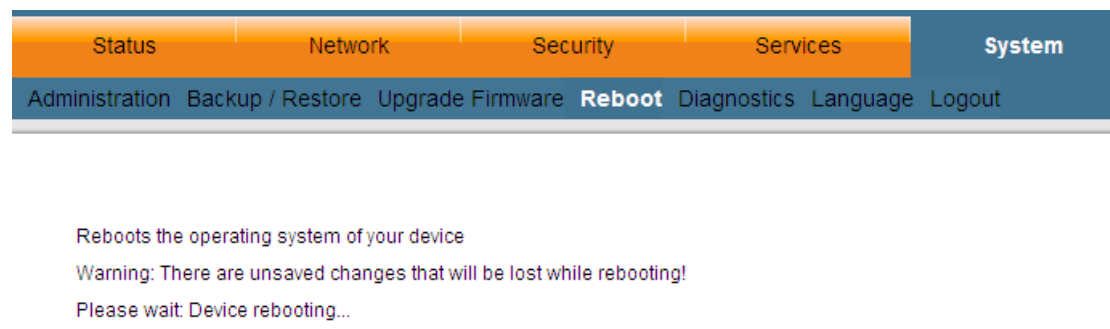
This function support terminal reboot as following:



Reboots the operating system of your device

Warning: There are unsaved changes that will be lost while rebooting!

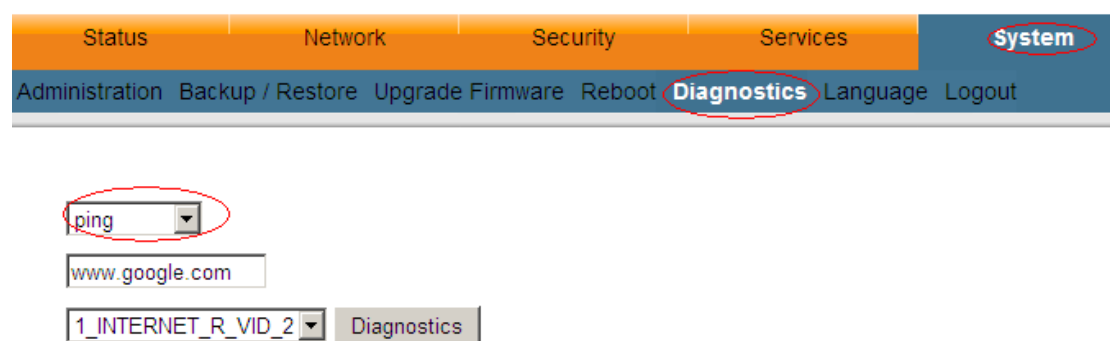
After confirmation please click <OK> as following:



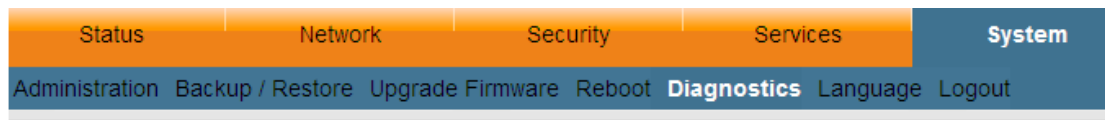
6.5 Diagnostics

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

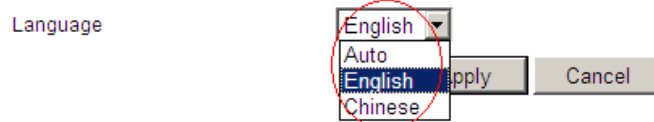


6.5.2 Diagnostics By Traceroute



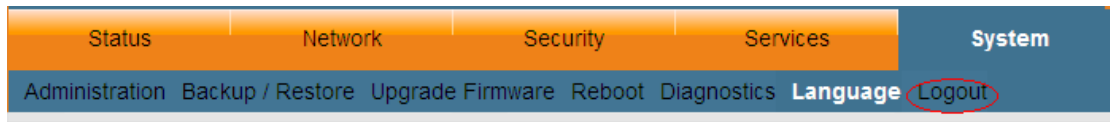
6.3 Language

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.