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1 You will learn about the product as follows

- ① The general form of the product, the business characteristics or its positioning in the actual network application
- ② Manage the device by building a WEB environment, and be more familiar with its settings page
- ③ Manage and maintain the EOC wireless terminal equipment through the WEB management page, such as Wan configuration, WiFi wireless settings, etc

2 Product Introduction

Explanation:

- This manual is applicable to the EOC1121R4WL-R410 serial wireless terminal equipment of Wodasign technology. The relevant configuration in this paper is introduced in the case of this form of 2 STB ports and 2 LAN ports. The interface involved is schematic, please refer to the actual conditions.
- The Cable ports involved in this manual refer to the Cable ports connected to the terminal and the local end.

2.1 Product Brief Introduction

EOC1121R4WL-R410 serial terminal device is used to structure two layers of Ethernet transmission channel in CATV Cable network, transmit and receive Ethernet signal through cable coaxial cable, and do not affect the original CATV signal. EOC1121R4WL-R410 coaxial cable broadband access terminal adopted Mstar MSE510CE chip solution, through a coaxial port connected to EOC Master, local provides 4 fast full-duplex Ethernet interface, including LAN1,LAN2,STB1 and STB2 .LAN1 and LAN2 which is a port with routing function, through two ports can log in the wifi terminal web management page to configure the wifi terminal for local management. The EOC Master can send the template, configure VLAN service and VLAN mode to carry out different service through STB1 and STB2 port. The four Ethernet interfaces of the terminal can be used to simultaneously connect computers, digital TV set-top boxes, IP phones and other terminals. EOC1121R4WL-R410 terminal device also can provide Wireless WIFI 11N router function, terminals can use wireless WIFI to access the internet.

EOC1121R4WL-R410 satisfies the operator's requirement and supports 4 SSID in maximum. Based on the IEEE802.11n standard, the wireless network can be extended to provide stable transmission up to 300Mbps, and be compatible with IEEE802.11b and IEEE802.11g.

The user side of EOC1121R4WL-R410 has two different privileges: the general user account and the administrator account. Users need to log in with user name and password to configure or manage EOC1121R4WL-R410. The WAN connection of EOC1121R4WL-R410 supports 4 sub-interface Settings. Set up independent channels such as management, video service, voice service and online service. Each sub-interface has routing and bridge mode. EOC1121R4WL-R410 as a home network and external network data hub, can according to user's side ports (including wired and wireless), service discover results for data

flow classification, QoS adaptation to different data streams, can limit per subnet bridge maximum upstream and downstream bandwidth, prevent the impact of the entire cable transmission network when other network devices in the user side under abnormal or man-made attacks. Support priority identification, according to the service findings, identify the packets of specific service, such as RTP data streams, including 802.1d and DSCP identifiers. Support 7 priority queues, support different scheduling algorithms, including: SP, DWRR and CAR. EOC1121R4WL-R410 supports encrypted transmission and provides escort for sensitive data.

2.2 Product Features

Conform to IEEE Home Plug AV, 802.11n, IEEE802.11g, IEEE 802.11b, IEEE802.3, IEEE802.3u

EOC coaxial cable Cable port access, providing TV, WiFi wireless, wired and other interfaces

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

Provide 2 STB ports, 2 LAN ports 10 / 100M adaptive, support port auto flip

There are two modes of work: bridging mode and routing mode

Support the Quality of Service (QoS) - 802.11e

Support remote and Web management, provide English and Chinese configuration interface

Support multiple SSID functions

Support NAT/NAPT IP sharing, Wan support protocol: PPPoE/Static IP/DHCP

Provide stable transmission up to 300Mbps

Support virtual server, DMZ host

Support UPnP function, DDNS function

Provide Web management page reset, support software update online

WiFi support 5 dBi high-gain omni-directional antenna

High security, support mutual isolation between the terminal equipment

Strong anti-interference ability, the physical layer using advanced forward error correction, channel estimation and adaptive capacity of the OFDM modulation, greatly reducing the symbol rate of each subcarrier, reducing the impact of multipath propagation

2.3 Product Specification

Environmental requirements

Ambient temperature: -0°C ~ 50°C

Relative humidity: 5% to 95% (Non-condensing)

Power specifications

Power adapter input: 12 V/0.5A

Power Consumption: <5W

2.4 List of Articles

Open the box and carefully check all the objects. Including:

- A host
- A network line (optional)
- A dc power adapter
- A quick installation guide
- A certificate of conformity



2.5 Device Interface Definition



Note: the specific interface is subject to purchase.

interface	amount	description
TV	1	Use cable to connect to set-top box or TV
Cable	1	Use cable to connect to the cable TV home interface
Ethernet interface	4	Use network cable to connect to the computer, set-top box or other equipment, 2 STB ports, 2 LAN 10/100M self-adaption ports
power interface	1	Connect the power adapter
WPS	1	WPS function switch
RST	1	Reset switch

2.6 Indicator Definition

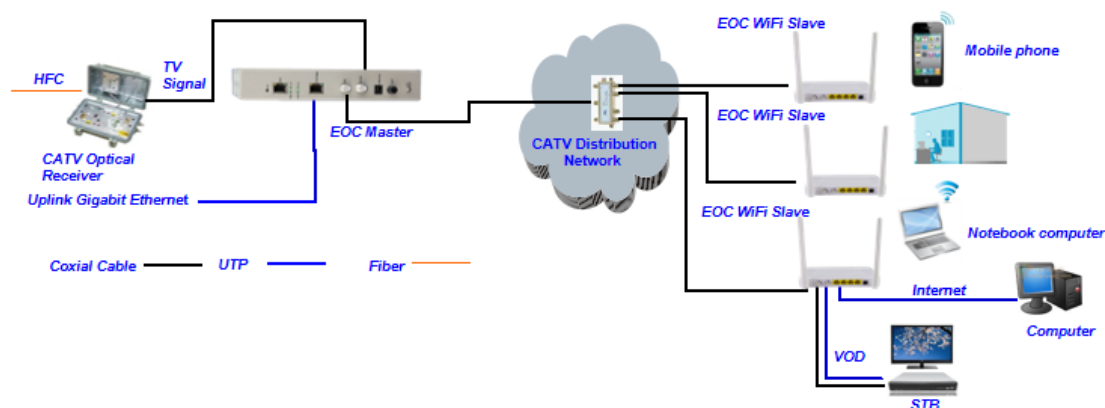


Label	explanation	Description
POWER	Power Indicator light	Solid green, device has been powered, you can start using
LOOP	Loop indicator light	Solid green, indicates that the terminal has a loop
LINK	Data interface light	Solid green, Successfully connect to the network. Blinking green: data is being transmitted.
LAN1-2	LAN network interface light	Solid green, LAN port connects to the network. Blinking green: data is being transmitted.
STB1-2	STB network interface light	Solid green, STB port connect to the network. Blinking green: data is being transmitted.
WIFI	WIFI status indicator light	Solid green, WiFi signal enable. Indicator light off: turn off the WiFi signal.

2.7 Device Connection

- 2)21 Connect coaxial cable: connect coaxial cable to radio frequency joint
- 2)21 Connect Ethernet cable: use RJ-45 Ethernet cable connect any LAN (lan1-lan4) port of the EOC to family equipment, such as computer, IPTV set-top box, etc
- 2)21 Connect power adapter: plug the AC/DC adapter into AC wall socket and EOC terminal 12V DC power socket
- 2)21 Press the power button, if all indicator lights are normal after running device w hich means device can offer services.

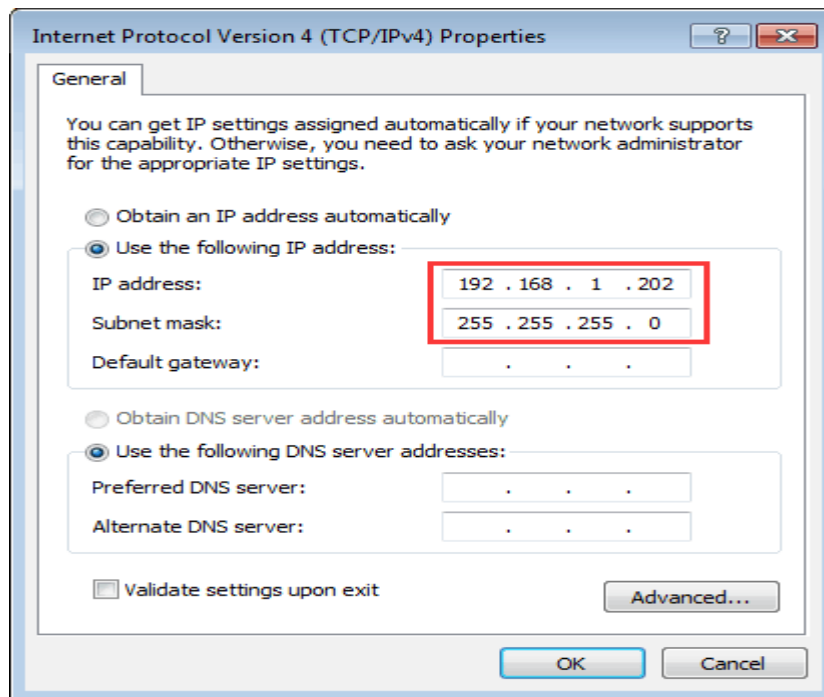
2.8 Networking Application



3 Login Web Management Locally

3.1 Physical Connection of EOC Slave and PC

- a) Local NIC of PC connects to LAN port of EOC slave via wires.
- b) Set the IP address of PC's local NIC as **192.168.1.X (X: 2-254)**.



- c) Open cmd windows and make sure that PC can ping the management IP (**192.168.1.1**) of EOC slave.

```
C:\Users\tcll>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\tcll>
```

3.2 PC Access the WEB of EOC Slave

Make sure you can ping the EOC slave like #3.1. Open the IE Web browser (IE, Firefox, Google), copy and paste URL: <http://192.168.1.1>, the following pop-up Prompt landin-g page:



Username:

Password:

Login the Web Management Interface

Input UserName: **adminisp** PassWord: **adminisp**

Click “**Login**” button. The product basics page appears, as follows :

The screenshot shows a web management interface with a blue header and an orange navigation bar. The "Setup" menu is active, and the "Status" sub-menu is selected. The main content area displays a table with device information.

Device Model	CPE-WiFi-R
Uptime	0day 0h11m55s
Local Time	1969-12-31 19:11:55
Hardware Version	v1.0
Firmware Version	V2.0.1-X000
Serial Number	BA1310-1911000001

You can start further configuration.

4 Familiar with WEB management page

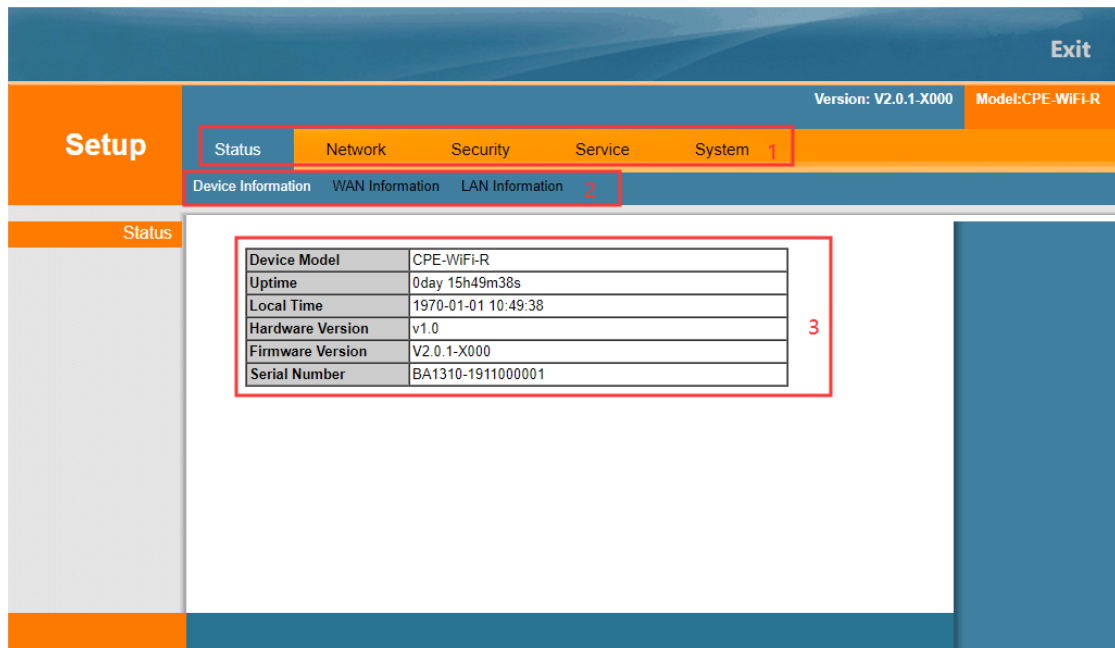
WEB management interface can rapidly complete required function configurations. This chapter will lead you to understand and become familiar with WEB management interface.

4.1 WEB Management Interface Introduction

WEB management interface introduction

- 1) The main menu area
 - 2) The sub-menu area
- Display the content

4.2 Main Menu Introduction



Main Menu	Sub-Menu
Status	Device Information, WAN Information, LAN Information.
Network	WAN Setup, LAN Setup, WLAN Setup, User Member Limit, Time Setup
Security	Denial of Service, URL Filtering, IP Filtering, MAC Filtering
Service	Port Forwarding, DDNS, UPNP Setup, Advanced NAT, Telnet Server, IGMP, Poicy DNS
System	Account Management, System Log, Save/Upgrade, Reboot, Diagnosis, Language

5 Status

Status includes Device information, WAN Information. LAN Information

5.1 Device Information

Click <Device Information> to display as follows.

The screenshot shows the 'Setup' interface with the 'Status' tab selected. The 'Device Information' sub-tab is active, displaying a table with the following data:

Device Model	CPE-WIFI-R
Uptime	0day 16h6m36s
Local Time	1970-01-01 11:06:36
Hardware Version	v1.0
Firmware Version	V2.0.1-X000
Serial Number	BA1310-1911000001

This interface displays the device model, uptime, local time, hardware version, firmware version, and Serial number.

5.2 WAN Information

Click <WAN Information> to display as follows.

The screenshot shows the 'Setup' interface with the 'Network' tab selected. The 'WAN Information' sub-tab is active, displaying three tables:

Network Name	Connection Status	IP Address	Subnet Mask
1_STB_B_66	Connected		
2_STB_B_77	Connected		
3_INTERNET_R_VID_	Disconnected		

Network Name	Default Gateway	DNS1	DNS2
3_INTERNET_R_VID_			

Coaxial Link Status	LinkUp
Link Attenuation(dB)	9.00
Upstream Rate(Mbps)	452
Downstream Rate(Mbps)	463
Upstream SNR(dB)	25.18
Downstream SNR(dB)	25.18

The page will show WAN connection status.

WAN Status shows current System Interface Name, Connect Type, Connect Status, Default Gateway, IP Address that has been obtained, subnet Mask, DNS1 and DNS2.

5.3 LAN Information

Click <LAN Information> to display as follows.

The screenshot displays the LAN Information page with the following data:

Wireless Status	
Wireless Status	Enable
Channel Number	Auto

Receives				Transmits			
Bytes	Packets	Errors	Drops	Bytes	Packets	Errors	Drops
0	0	8	0	0	0	0	0

SSID Index	SSID Name	Auth Mode	Encryption
SSID1	WiFi1-REEGB	WPA2-PSK	TKIPAES

User Side Status	
MAC Address	E0:67:B3:01:02:0A
IP Address	192.168.1.1

CPE Type	IP Address	MAC Address	Status
Unknown	192.168.1.123	54:e1:ad:10:5b:31	Static

Receives				Transmits			
Bytes	Packets	Errors	Drops	Bytes	Packets	Errors	Drops
589942	2992	0	192	9933944	23378	0	0

Wireless Status shows current Wi-Fi SSID, MAC, Signal, Transmission and so on.

User Side Status Information shows MAC Address, IP Address, Current device information that connects LAN port, number of bytes.

6 Network

The network includes WAN Setup, LAN Setup, Wlan Setup, User Number Limit and Time Setup.

6.1 WAN Setup

You can set the WAN connection here. WAN connections can work in a routing or bridging mode, and can connect a LAN port or WiFi with a wide area network.

6.1.1 WAN Connection Naming Rules

WAN connection (network name) naming rules are as follows.

Catalogue	Definition	Description
Network name	Sequence number	To identify WAN connections, the rules are based on the sequence of WAN connections, the number of sequences increases, the number of non-reusable has been used
Service mode	INTERNET	Used to connect internet service
	OTHER	Used to connect other service type
Routing and	B	Bridging mode

bridging	R	Routing mode
VLAN	VID_Z	VID_Z VLAN ID (untag) for the current WAN connection, When the WAN connection is established, no VLAN is added, VID_Z will not appear in the network name.

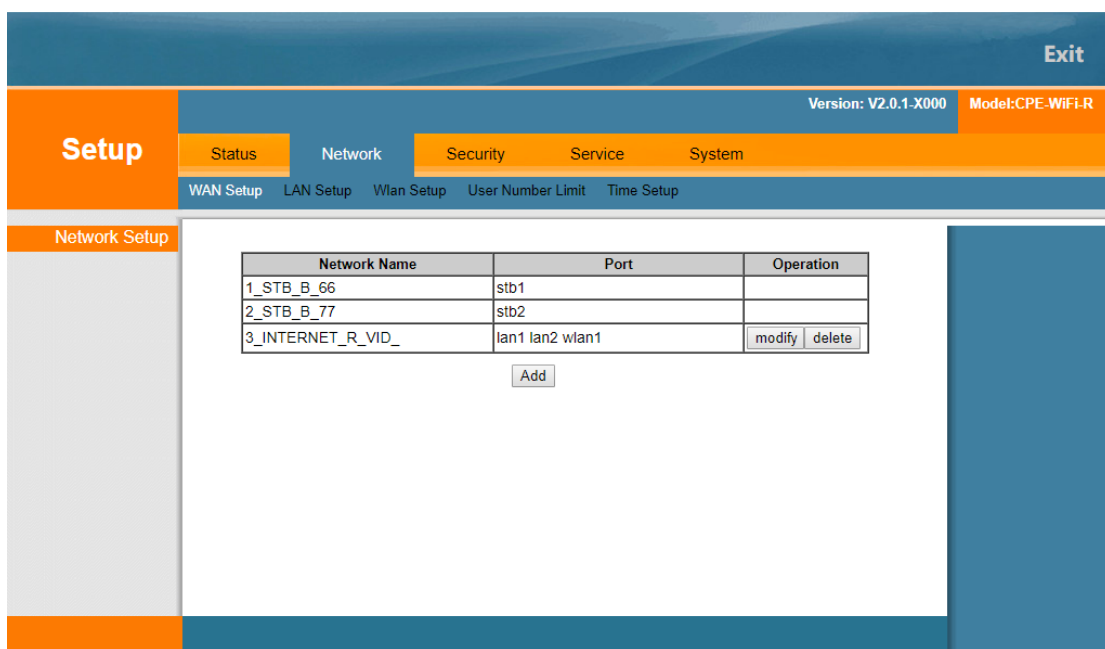
Such as:

1_INTERNET_R_VID_2 (service mode is: INTERNET, working mode is: routing, VLAN, ID: 2)

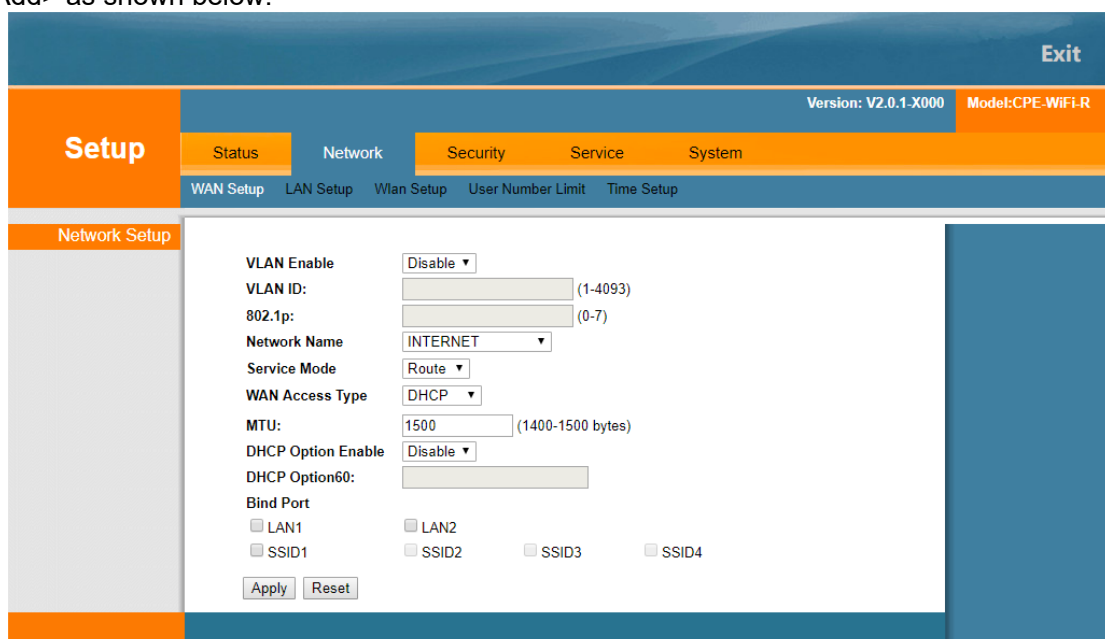
2_INTERNET_B_VID_ (service mode is: INTERNET, working mode is: bridging, VLAN, ID : 0)

6.1.2 Setup WAN Connection and Routing Mode

As shown in the figure below, you can select the WAN connection that has been created, click the "Modify" button to generate the corresponding WAN, or click the "Add" button to create the required WAN connection. Let's create new connection as an example:



Click <Add> as shown below.



Project	Description
VLAN Enable	Enable or Disable VLAN
VLAN	If you enable VLAN , enter a number into VLAN ID
802.1p	Select a priority (0-7)
Network Name	Select the type of service
Service Mode	Routing or Bridging Mode
Connect Type	You can choose DHCP、 Static、 PPPoE modes
MTU	Maximum transport unit (MTU bytes)
Bind Port	Binding to the WAN service port: Select the port that is bound to the connection

Routing mode:

When the connection type is routing mode, there are three ways to obtain WAN side IP address, that is DHCP, static mode and PPPoE.

- 1) the IP address of DHCP is dynamic mode.
- 2) in static mode, set the static address. You need to enter the IP address, subnet mask, the IP address of the alternate DNS server, and the default gateway.
- 3) in PPPoE mode, you need to enter your username and password.

Note: the port is bound to the routing mode in default, also you can choose “Bridge” to set to the bridging mode. If all ports are bound to the bridge state, LAN1 port is the management port, you can use this port to enter the management page, management IP is 192.168.1.1.And if a port is bound to the routing mode which can be used to enter the management page.

You need to choose connection type settings in the WAN connection configuration, STATIC, IP, DHCP, and PPPoE are optional.

Here is the page to select **STATIC IP**, which needs to configure the IP address, mask, gateway, and DNS.

The screenshot shows a web-based configuration interface for a network device. The top navigation bar includes 'Setup', 'Status', 'Network', 'Security', 'Service', and 'System'. Under 'Network', there are sub-menus for 'WAN Setup', 'LAN Setup', 'User Number Limit', and 'Time Setup'. The 'Network Setup' page is active, displaying various configuration options:

- VLAN Enable:** Enable (dropdown)
- VLAN ID:** 101 (input field, range 1-4093)
- 802.1p:** (input field, range 0-7)
- Network Name:** INTERNET (dropdown)
- Service Mode:** Route (dropdown)
- WAN Access Type:** Static IP (dropdown)
- Ip Address:** 192.168.5.204 (input field)
- Subnet Mask:** 255.255.255.0 (input field)
- Default Gateway:** 192.168.5.1 (input field)
- MTU:** 1500 (input field, range 1400-1500 bytes)
- DNS 1DNS 1:** 202.96.134.133 (input field)
- DNS 2DNS 2:** 114.114.114.114 (input field)
- Bind Port:**
 - LAN1
 - LAN2
 - SSID1
 - SSID2
 - SSID3
 - SSID4

Buttons for 'Apply' and 'Reset' are located at the bottom of the configuration area.

Here is the page to select **PPPoE**, which you need to configure your username and password.

Exit

Version: V2.0.1-X000 Model: CPE-WiFi-R

Setup

Status Network Security Service System

WAN Setup LAN Setup Wlan Setup User Number Limit Time Setup

Network Setup

VLAN Enable: Enable

VLAN ID: 101 (1-4093)

802.1p: (0-7)

Network Name: INTERNET

Service Mode: Route

WAN Access Type: PPPoE

PPPoE User Name: JRintercom6567

PPPoE Password:

Connect Type: Continuous

MTU: 1492 (1360-1492 bytes)

Bind Port:

LAN1 LAN2 SSID2 SSID3 SSID4

If you select DHCP, the route automatically gets the IP address.

Exit

Version: V2.0.1-X000 Model: CPE-WiFi-R

Setup

Status Network Security Service System

WAN Setup LAN Setup Wlan Setup User Number Limit Time Setup

Network Setup

VLAN Enable: Enable

VLAN ID: 101 (1-4093)

802.1p: (0-7)

Network Name: INTERNET

Service Mode: Route

WAN Access Type: DHCP

MTU: 1500 (1400-1500 bytes)

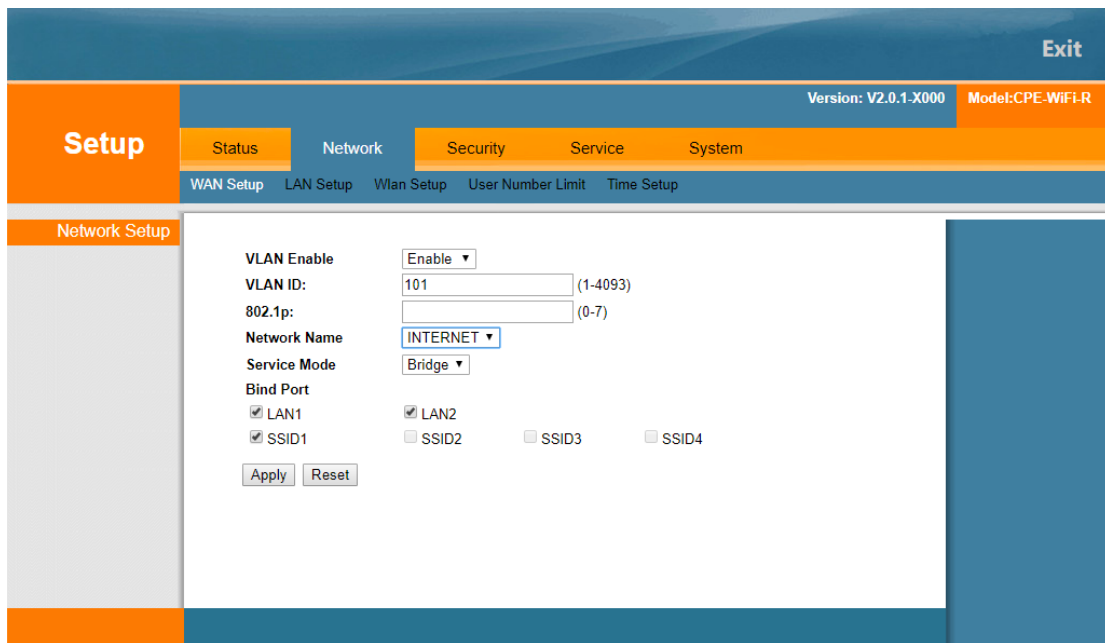
DHCP Option Enable: Disable

DHCP Option60:

Bind Port:

LAN1 LAN2 SSID2 SSID3 SSID4

Bridge mode: the second layer data frame of the bridge over the WAN port and the binding port is transparent broadcast. In this application scenario, PC or other terminals connected to the gateway through PPPOE way to obtain WAN Internet IP address.



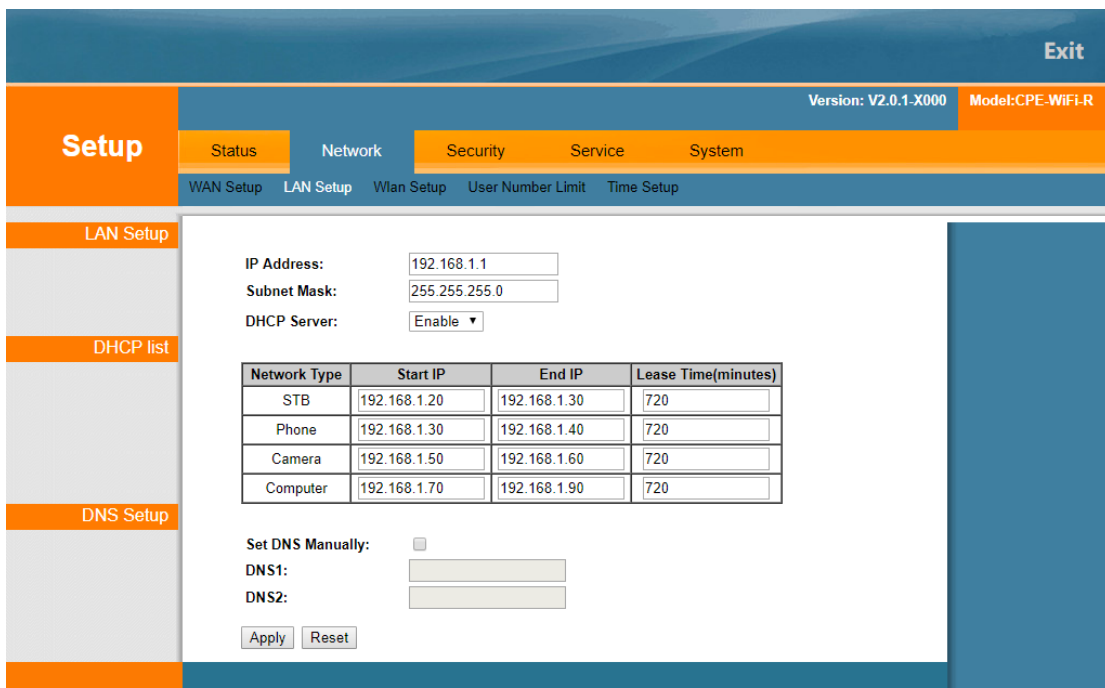
Click <Save> button to save the configuration.

6.2 LAN Setup

LAN settings are primarily intended for LAN IP services, such as Dynamic Host Configuration Protocol (DHCP) configurations. The device is pre-configured with routing mode, using the LAN IP address and DHCP server. The default LAN configuration for routing is:

- LAN IP Address: 192.168.1.1
- Subnet mask: 255.255.255.0

LAN side IP address is mainly used for local area network management, you can enter following interface to modify the LAN side IP address . Click “save” then apply to the network.



Note: after changing the LAN IP address, the current browser interface will be disconnected. You need to reopen your browser and use the changed IP address to log in.

By default, the device is equivalent to a DHCP server, assigning IP, DNS, and network connections to computers connected to the device. The default IP address of the device is 192.168.1.1, which is the gateway address. The device allocates the IP address pool as shown below.

* tips: DHCP is the abbreviation of Dynamic Host Configuration Protocol, you can specify the IP address, subnet mask, default gateway. LAN client can automatically obtain IP address.

Exit

Version: V2.0.1-X000 Model:CPE-WIFI-R

Setup

Status Network Security Service System

WAN Setup LAN Setup Wan Setup User Number Limit Time Setup

LAN Setup

IP Address: 192.168.1.1

Subnet Mask: 255.255.255.0

DHCP Server: Enable

Network Type	Start IP	End IP	Lease Time(minutes)
STB	192.168.1.20	192.168.1.30	720
Phone	192.168.1.30	192.168.1.40	720
Camera	192.168.1.50	192.168.1.60	720
Computer	192.168.1.70	192.168.1.90	720

DHCP list

DNS Setup

Set DNS Manually:

DNS1:

DNS2:

Apply Reset

1. DHCP Enable: You can select the "Enable / Disable" DHCP function.

The IP address of the DHCP server is assigned to the requesting client, and the host should be within that segment.

2.the rental time: you can set the clients that DHCP allows to assign IP addresses during the time period. Enabling DHCP server to better allocate IP addresses by setting a proper time to ensure non repetition.

For example, setting the rental time to 1 hour, the DHCP server will recycle the IP address every 1 hour.

3.DNS: DNS service is used to resolve the address. If IPS requires a specific server, fill in the address of a specific ISP in DNS.

6.3 Wlan Setup

Wireless settings include the basic configuration and the SSID configuration.

Basic configuration is as follows.

The screenshot shows the 'Wlan Setup' configuration page. The left sidebar has 'Wireless Settings' selected. The main content area includes the following settings:

- Enable Wireless
- Band: 802.11b/g/n Mixed
- Channel Width: 40MHz
- Channel Number: Auto
- Data Rate: Auto
- Protection: Auto
- Short GI: Enabled Disabled
- RF Output Power: 100%

Label	Description
Enable Wireless	Enable or disable Wireless
Band	Select a bandwidth in the list
Channel Width	Select a channel bandwidth in the list
Channel Number	Select a suitable channel in the list, the default is automatic
Data Rate	Select a suitable rate in the list, the default is automatic
Protection	Enable or disable Protection
Short GI	Enable or disable Short GI
RF Output Power	Transmit power range of 15% ~ 100%, and the default is 10%. 100% is the maximum power

SSID configuration is as follows.

You can configure 4 SSID, open the corresponding SSID, and modify it.

The screenshot shows the 'Security Setup' page for SSID configuration. It displays two SSID entries:

- SSID1:** SSID Index: SSID1, SSID: WiFi1-REEGB, SSID Hidden: , Encryption: WPA2-PSK, WPA Cipher Suite: TKIP+AES, Pre-Shared Key: [masked]
- SSID2:** SSID Index: SSID2, SSID: WiFi2-REEGB, SSID Enable: , SSID Hidden: , Encryption: WPA2-PSK, WPA Cipher Suite: TKIP+AES, Pre-Shared Key: [masked]

Label	Description
SSID	SSID is used to identify the identification of wireless services
SSID Hidden	After selecting SSID Hidden, the corresponding WiFi cannot be searched through the WiFi query
encryption	You can choose encryption,such as NONE,WEP,methods WPA-PSK, WPA2-PSK,and MixedWPA2/WPA -PSK,and if you choose, you need to configure authentication methods and one keys.

6.4 User Number Limit

The screenshot shows a web interface for configuring the User Number Limit. The interface has a blue header with 'Exit' in the top right. Below the header is a navigation bar with 'Setup' in large orange text and sub-menus for 'Status', 'Network', 'Security', 'Service', and 'System'. Under 'Security', there are sub-menus for 'WAN Setup', 'LAN Setup', 'Wlan Setup', 'User Number Limit', and 'Time Setup'. The 'User Number Limit' sub-menu is selected, and its content is displayed in a white area. The configuration options are: 'Mode:' with a dropdown menu set to 'Enable', 'Max User Number:' with a text input field containing '0', and an 'apply' button below.

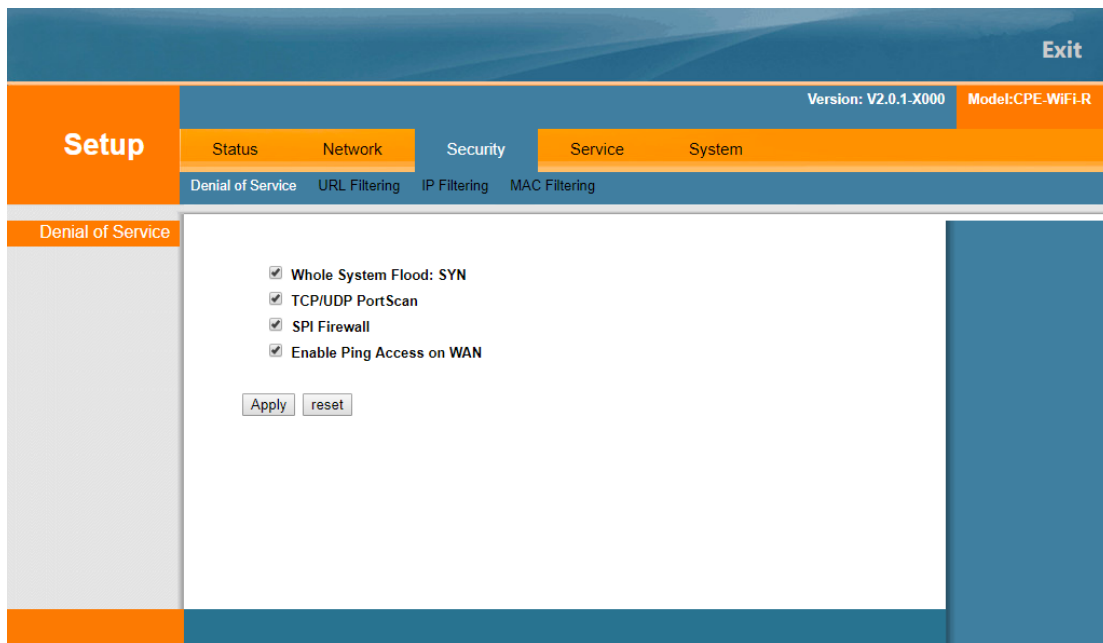
Enable or Disable the user number limit and configure the maximum number of users allowed.

7 Security

Security includes DoS prevention, URL filtering, IP filtering, and MAC filtering.

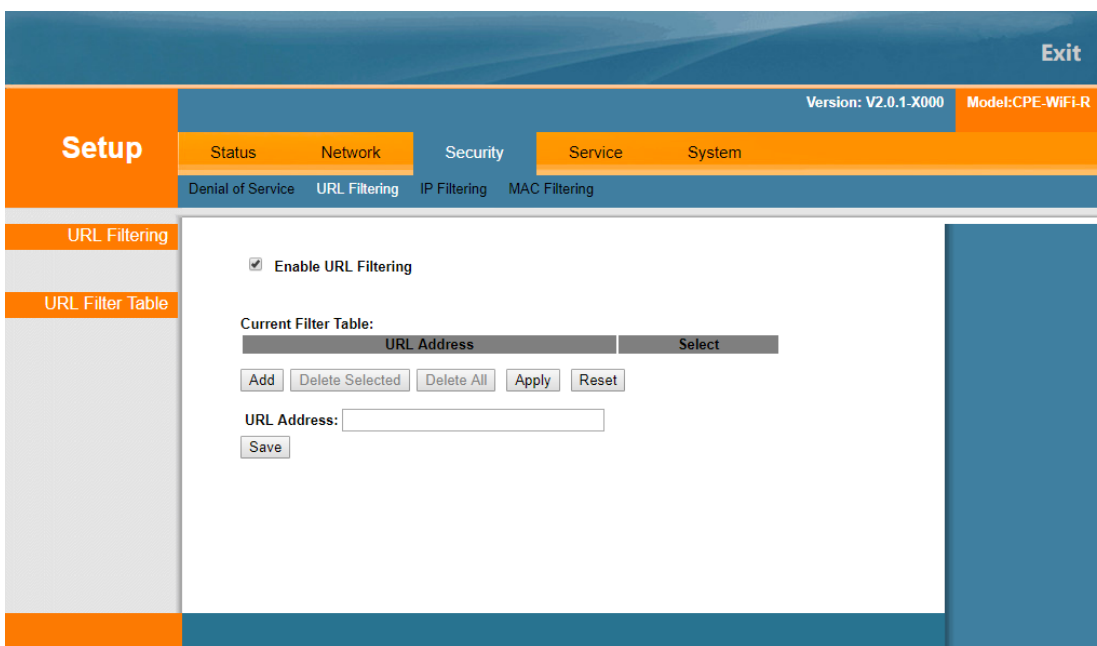
7.1 Preventing DoS attacks

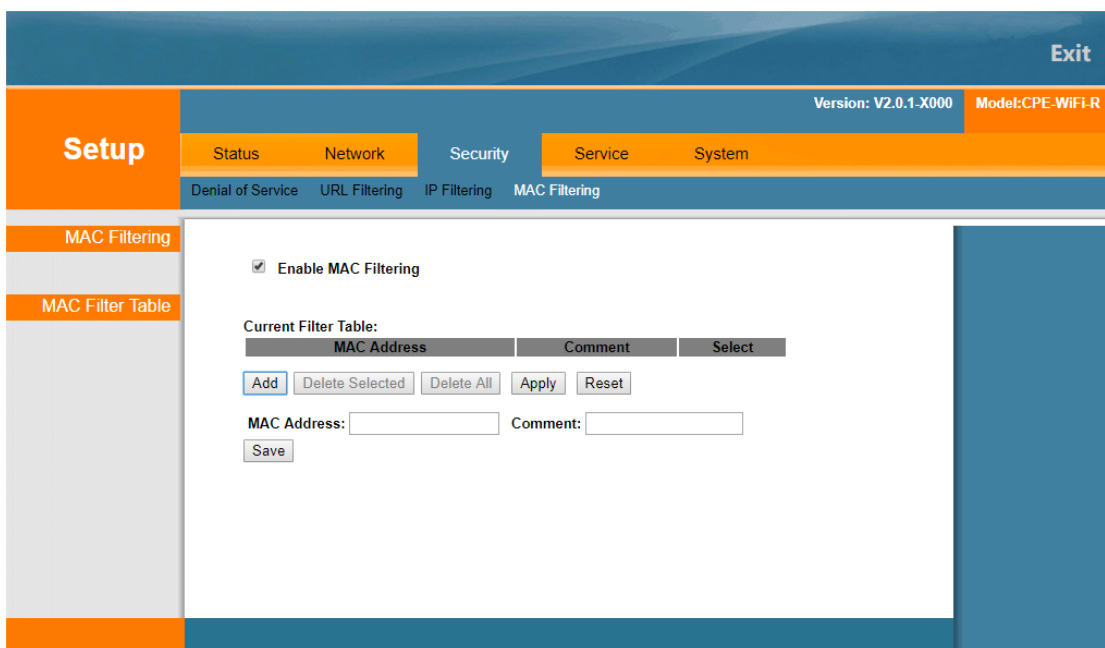
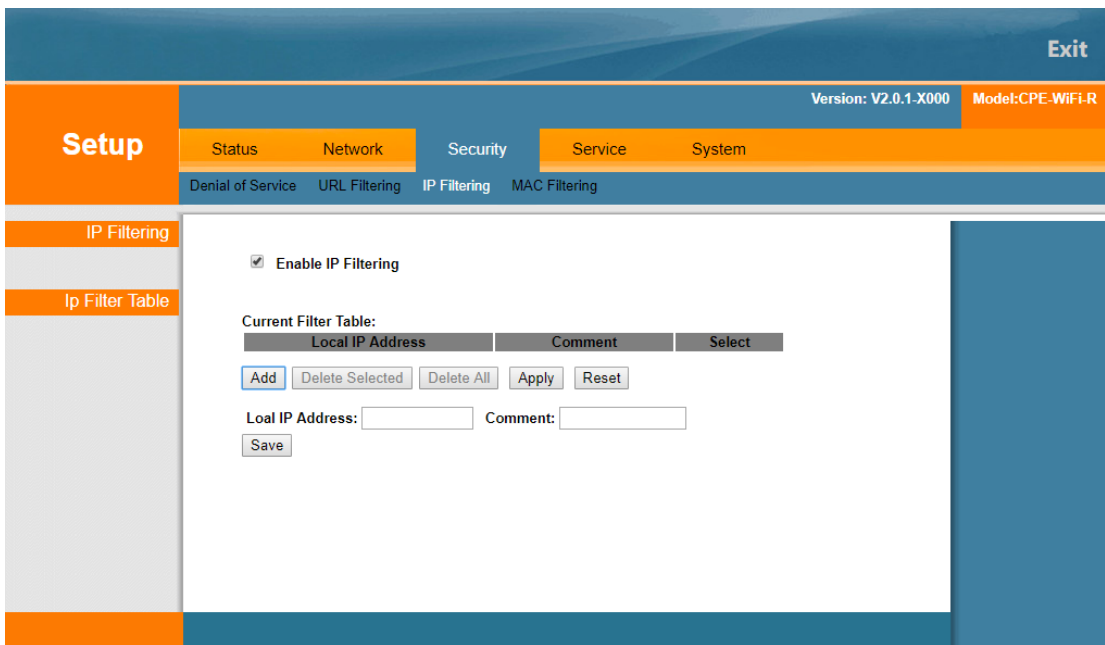
Under the basic settings menu, enable or disable various DoS protection.



7.2 URL/IP/MAC Filtering

In these options, you can filter URL, IP, and MAC.





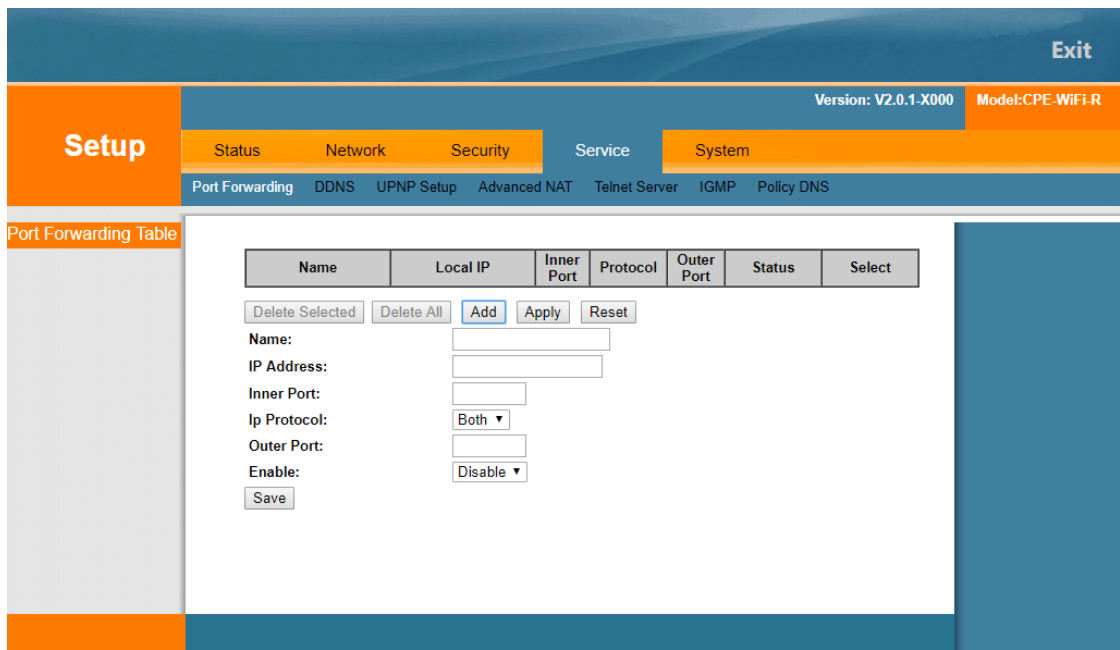
The filter is closed by default, and if you need to enable it, tick in front of the corresponding pattern and click <Apply>.

8 Service

Services include Port Forwarding, DDNS, UPNP setup, Advanced NAT, Telnet Server, IGMP, and policy DNS.

8.1 Port Forwarding

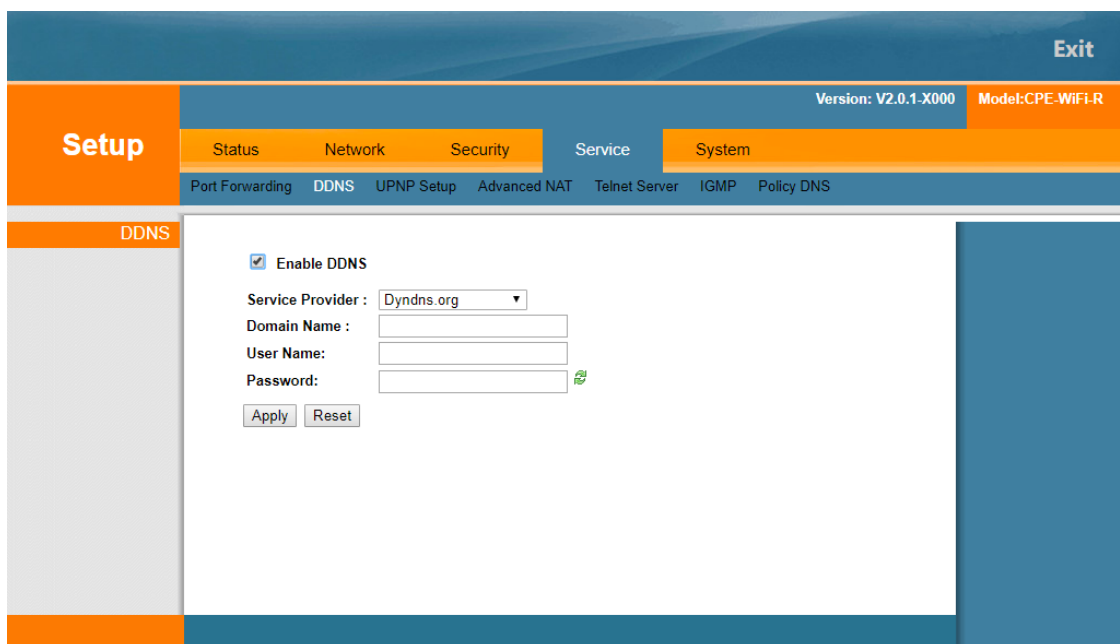
In the basic configuration interface, you can click on the add port to forward the link, and then configure the corresponding option.



Label	Description
Name	The name of the link
IP Address	The IP to map
Inner Port	The port to map
IP Protocol	Select the corresponding transport protocol TCP, UDP
Outer port	The port to be mapped to
Enable	Enable or Disable the link

8.2 DDNS

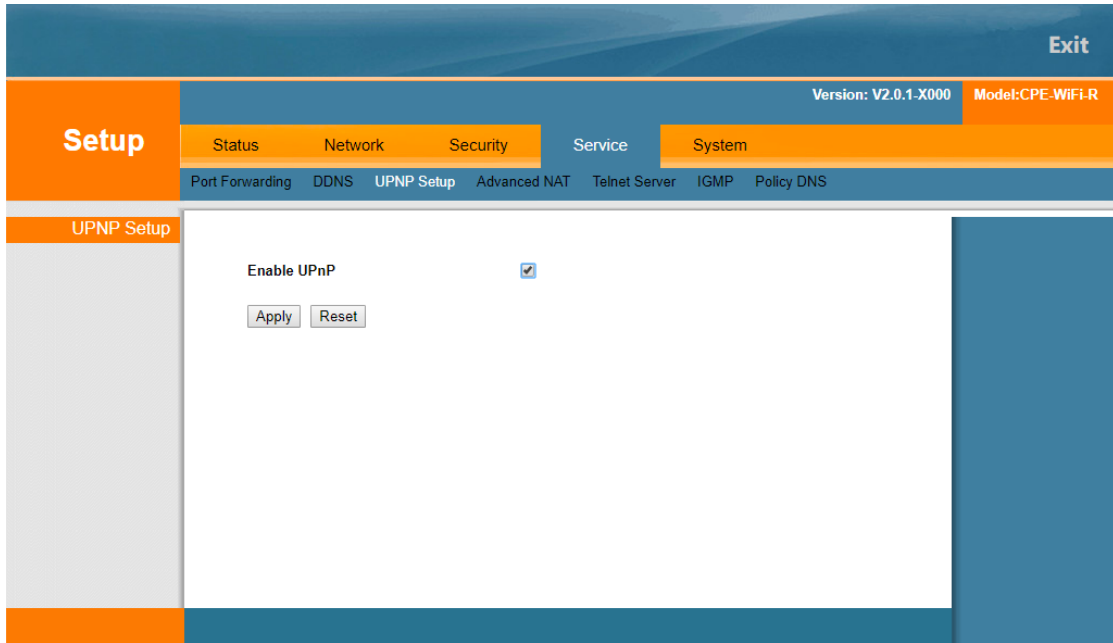
In the DDNS interface, you can tick in the front and click <Apply> to enable it.



Label	Description
Service Provider	Choose service provider
Domain Name	Fill in the domain name you want to use
Username	Username
Password	Password

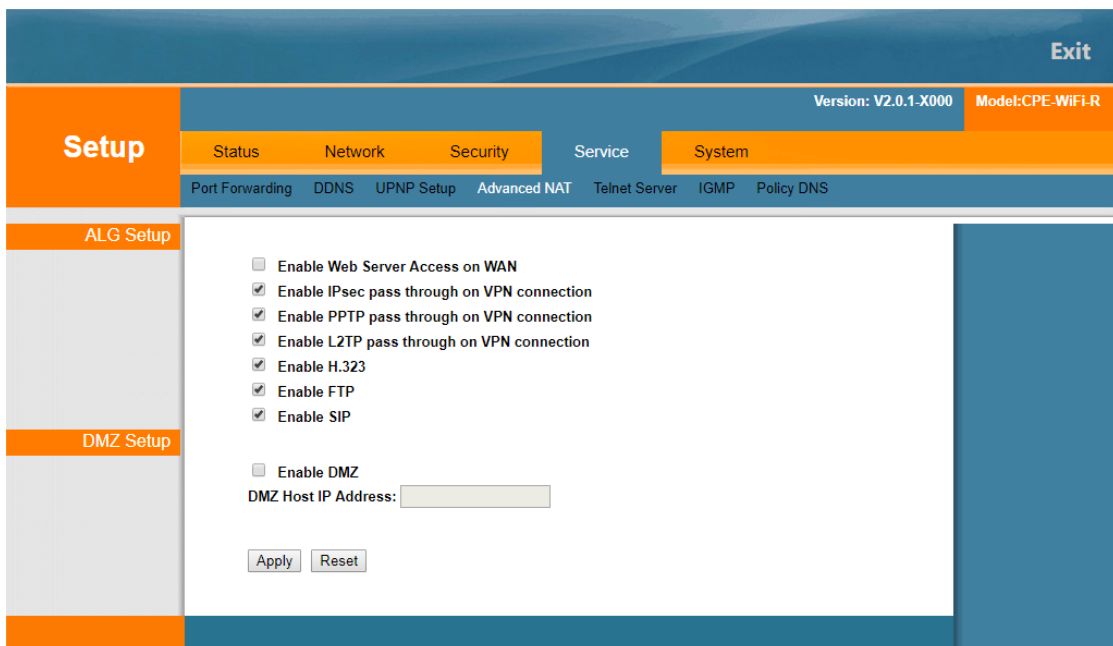
8.3 UPNP Setup

In the UPNP Setup interface, you can tick in the front and click <Apply> to enable it.



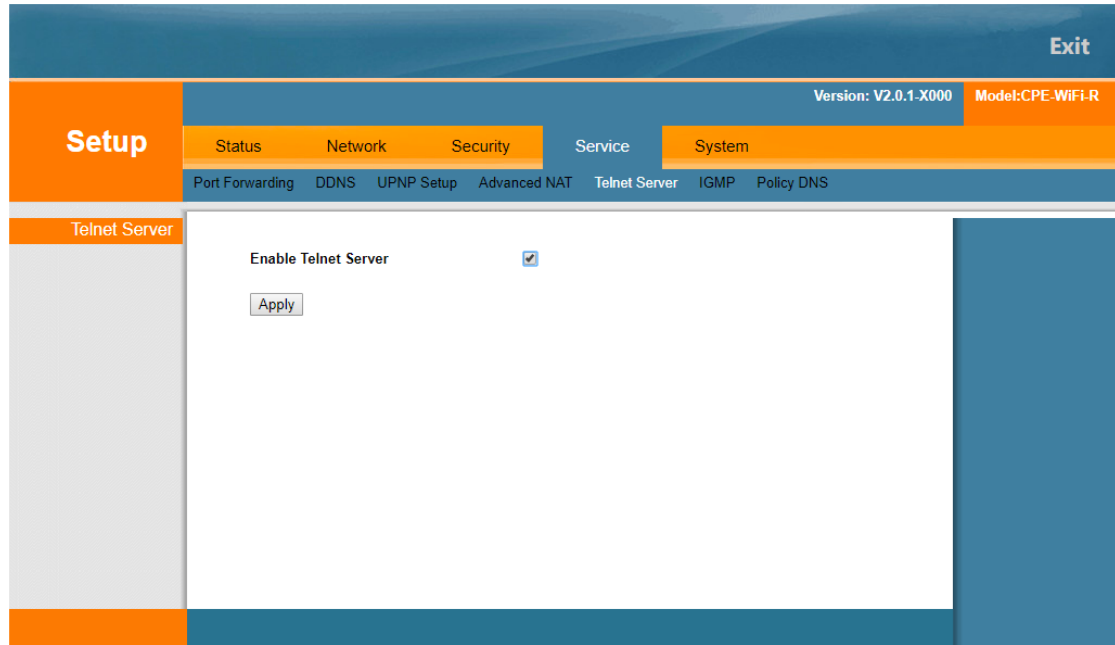
8.4 Advanced NAT

In the advanced NAT page, you can enable some special links, to enable the corresponding link just tick in the front, and then click <Apply>.



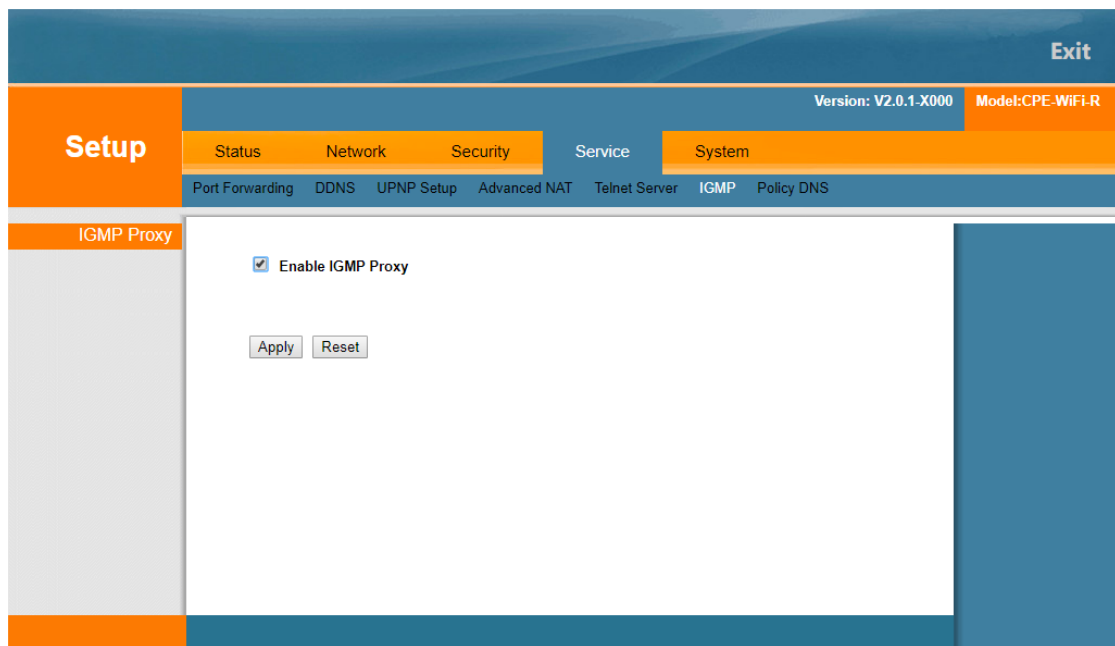
8.5 Telnet Sever

On the Telnet server page, you can tick on the back and click <Apply> to enable the Telnet server.



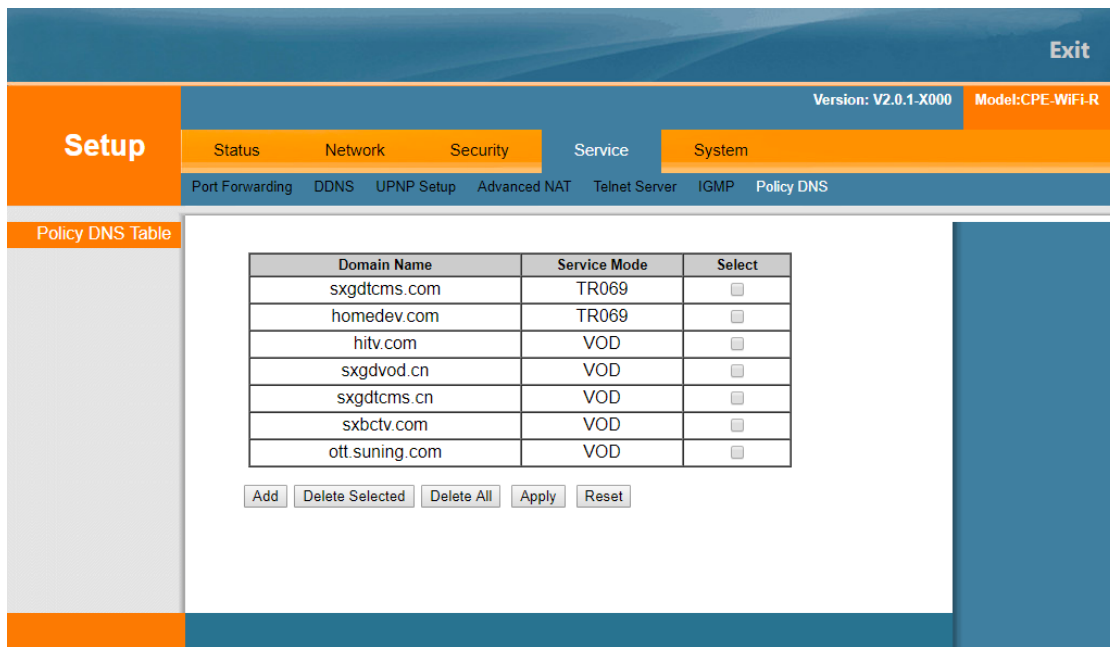
8.6 IGMP

On the IGMP page, you can enable the IGMP Proxy, open only need to tick in the front and click <Apply>.



8.7 Policy DNS

On the Policy DNS page, you can click <Add>, <Delete> to Modify Policy DNS.

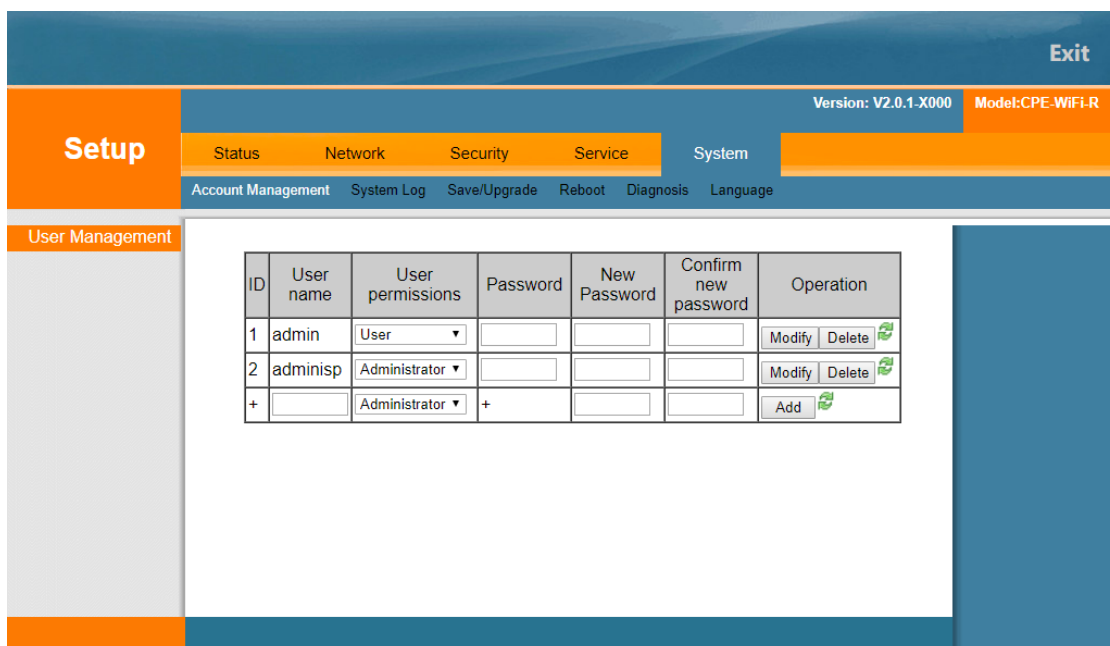


9 System

System includes Account Management, System Log, Save/Upgrade, Reboot, Diagnosis, and Language.

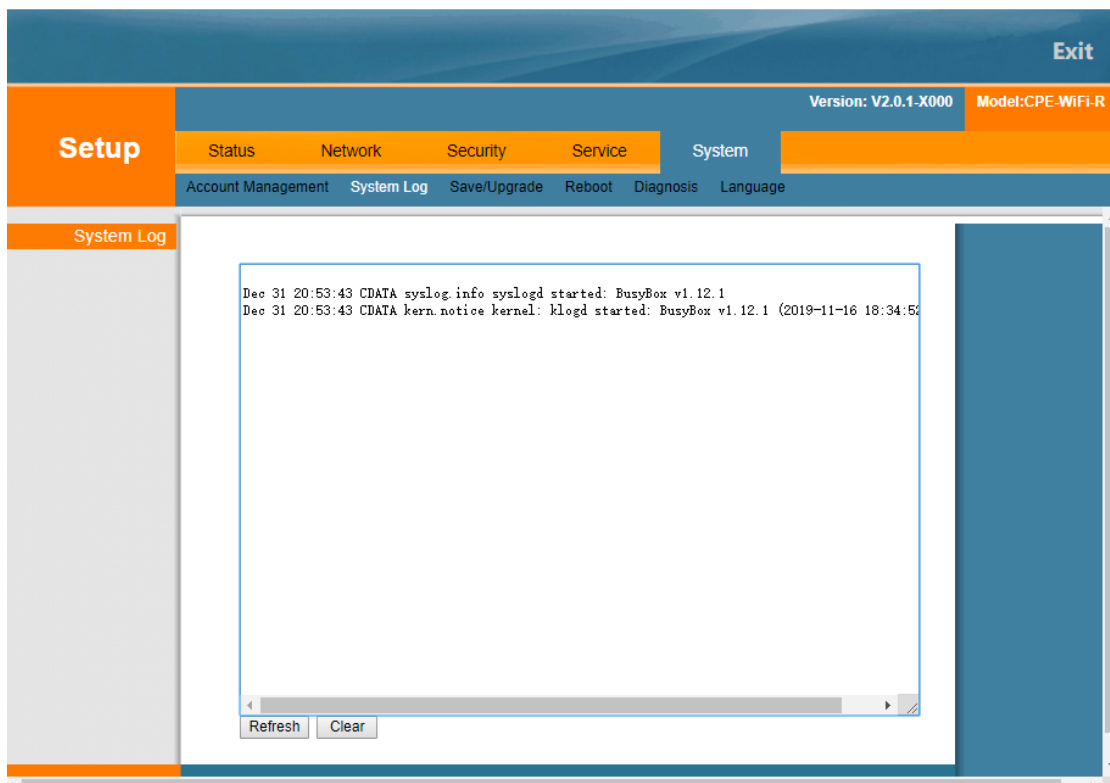
9.1 Account Management

Account management defaults to 2 users: the administrator and the user, click on the corresponding <modify> button, make the relevant changes on the user name, password and permissions. To add a related user, click <Add> button and set the user's level, user name, and password. It is as shown below.



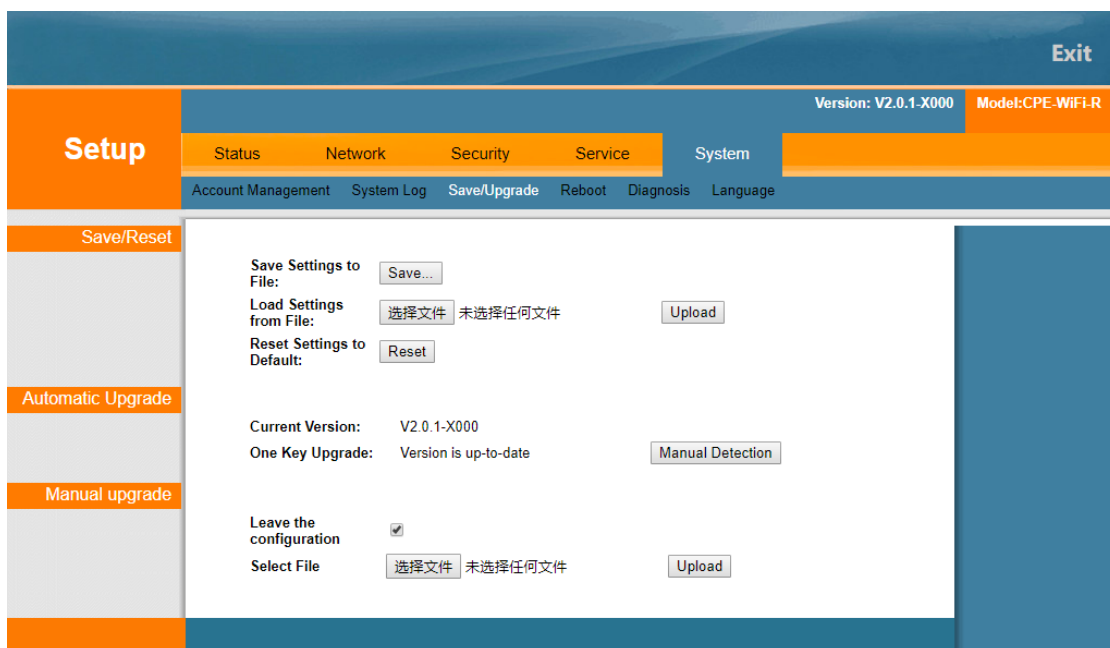
9.2 System Log

In the system log page, you can check or clear the system log, as shown below:



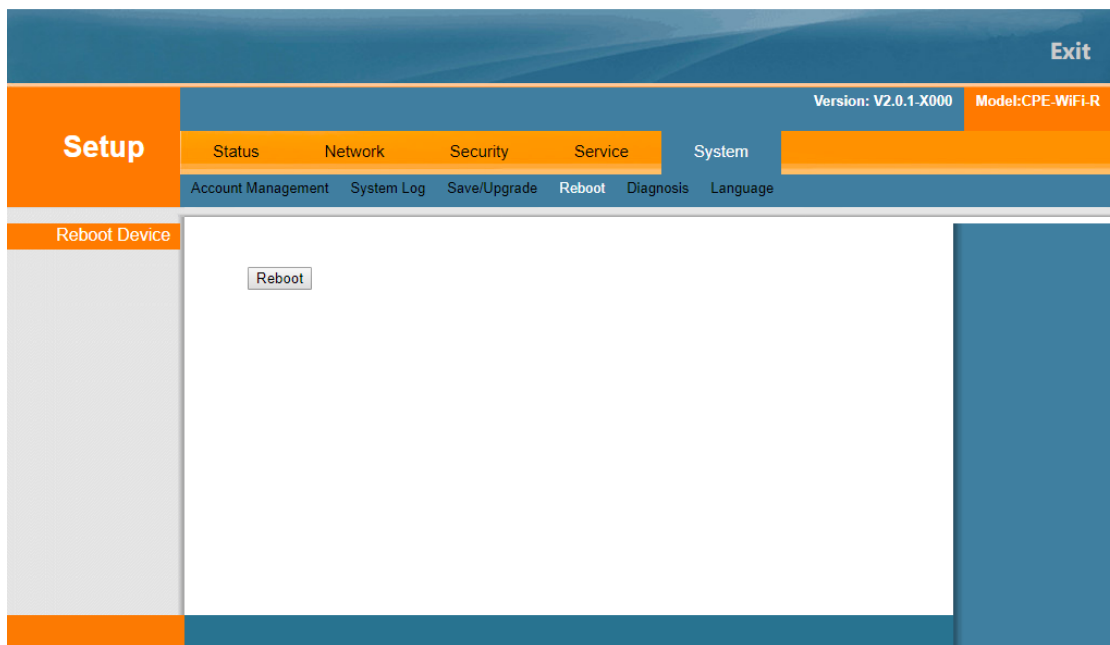
9.3 Save/Upgrade

Save/Upgrade page consists of three parts, the first part is the backup and recovery of the configuration, in which you can backup and restore the device configuration and restore the device factory settings. The second part can automatically detect whether new software can be upgraded. The third part can update the software manually.



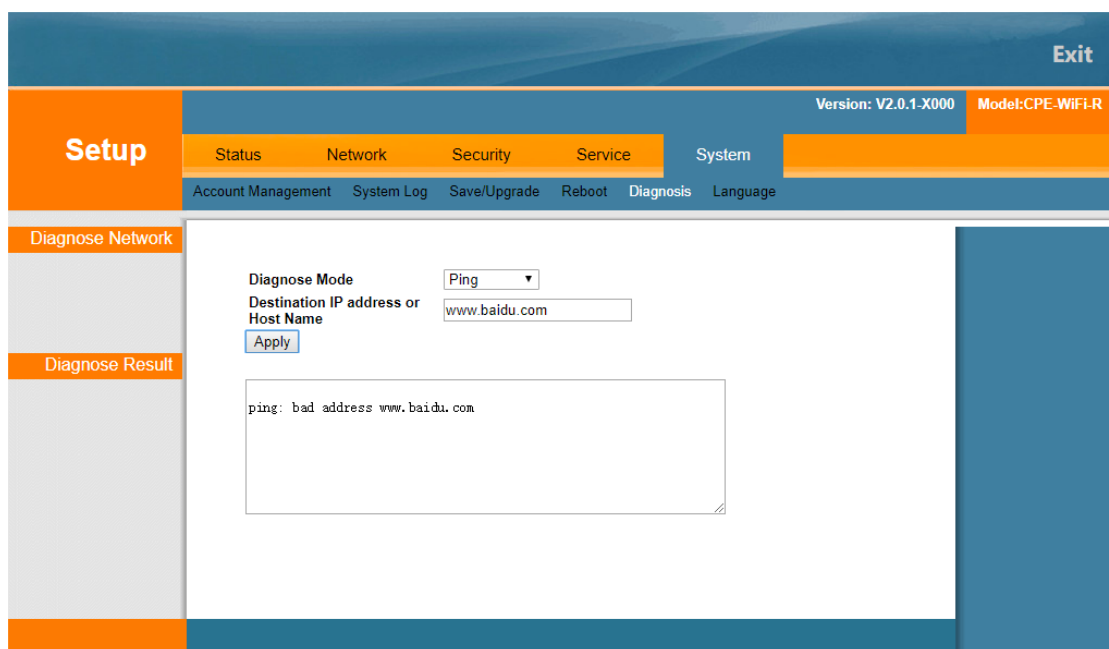
9.4 Reboot

Click <reboot> button to restart the current terminal device, as shown below.



9.5 Diagnosis

On the diagnostic page, you can use Ping or Traceroute as a method and fill in the destination IP address or host name to diagnose.



9.6 Language

Click the language option on the language page to manually switch the device language, Chinese or English, it is as shown below.

Setup

- Status
- Network
- Security
- Service
- System
- Account Management
- System Log
- Save/Upgrade
- Reboot
- Diagnosis
- Language

Language

Language:

- English
- Chinese
- English