Copy Right 2013 All Rights Reserved by FLYINGVOICE TECHNOLOG LIMITED

The VWRT510&WRT500

High Speed Router

User's Guide

V1.3

Copy Right 2013 All Rights Reserved by FLYINGVOICE TECHNOLOG LIMITED

Table of Contents

1 Preface 4
2 LED Indicators and Connectors 5
2.1 LED Indicators 6
2.2 Hardware Installation 7
3 Voice Prompt 8
4 Configuring Basic Settings 11
4.1 Two-Level Management 11
4.2 Accessing Web Page 11
4.2.1 From LAN port 11
4.2.2 From WAN port 12
4.3 Webpage 12
4.4 Setting up the Time Zone 13
4.5 Setting up the Internet Connection 14
4.5.1 Static IP 14
4.5.2 DHCP 15
4.5.3 PPPoE 16
4.6 Setting up the Wireless Connection 17
4.6.1 Enable Wireless and Setting SSID 17
4.6.2 Encryption 17
4.7 Register 18
4.7.1 Get the Accounts 18
4.7.2 Connections 18
4.7.3 Configuration SIP from Webpage 18
4.7.4 View the Register Status 18
4.8 Make Call 19
4.8.1 Calling phone or extension numbers 19
4.8.2 Direct IP calls 19
4.8.3 Call Hold 20
4.8.4 Blind Transfer 20
4.8.5 Attended Transfer 20
4.8.6 Conference 20
5 Web Configuration 21
5.1 Login 21
5.2 Status 23
5.3 Network&Security 24
5.3.1 WAN 24
5.3.2 LAN 26

5.3.3 DMZ/Port Forward 28
5.3.4 MAC Clone 29
5.3.5 Multi WAN 30
5.4 Wireless 30
5.4.1 Basic 30
5.4.2 Security 31
5.4.3 WMM 32
5.4.4 WPS 32
5.4.5 Station list 33
5.4.6 Advanced 34
5.5 SIP Account 35
5.5.1 SIP Settings 35
5.5.2 Line 1 36
5.5.3 VOIP QoS Setting 37
5.6 Phone 37
5.6.1 Preferences 37
5.6.2 Dial Plan 38
5.6.3 Phonebook 39
5.6.4 Call Log 40
5.7 Security 41
5.7.1 Filtering Setting 41
5.7.2 DMZ 42
5.7.3 MAC Clone 42
5.7.4 Port Forward 43
5.7.5 Content Filtering 44
5.8 Administration 45
5.8.1 General 45
5.8.2 Firmware Upgrade 46
5.8.3 Provision 46
5.8.4 SNMP 47
5.8.5 TR069 48
5.9 System Log 48
5.10 Logout 49
5.11 Reboot 49
6 Trouble shooting of the guide 50
6.1 Setting your PC gets IP automatically 50
6.2 Can not connect to the configuration Website 51
6.3 Forget the Password 51
7 Statement 52

Copy Right 2013 All Rights Reserved by FLYINGVOICE TECHNOLOG LIMITED

1 Preface

Thank you for choosing VWRT510&WRT500 wireless router with VoIP. This product will allow you to make ATA call using your broadband connection, and provides Wi-Fi router function.

This manual provides basic information on how to install and connect VWRT510&WRT500 wireless router with VoIP to the Internet. It also includes features and functions of wireless router with VoIP components, and how to use it correctly.

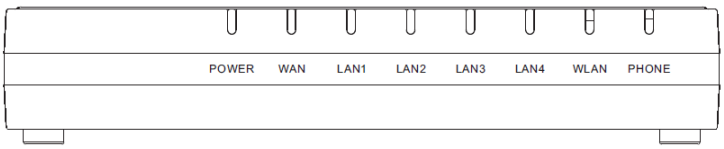
Before you can connect VWRT510&WRT500 to the Internet and use it, you must have a high-speed broadband connection installed. A high-speed connection includes environments such as DSL, cable modem, and a leased line.

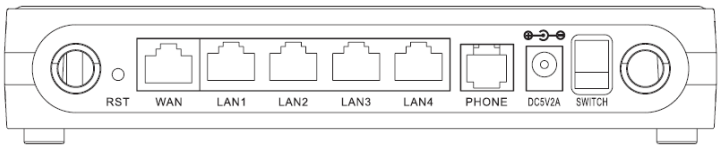
VWRT510&WRT500 wireless router with VoIP is a stand-alone device, which requires no PC to make Internet calls. This product guarantees clear and reliable voice quality on Internet, which is fully compatible with SIP industry standard and able to interoperate with many other SIP devices and software on the market.

2 LED Indicators and Connectors

Before you use the high speed router, please get acquainted with the LED indicators and connectors first.

2.1 LED Indicators

Front Panel	LED	Status	Explanation
	PHONE	Blinking(Green)	Not registered.
		On (Green)	Registered
	WLAN	On (Green)	Wireless access point is ready.
		Blinking(Green)	It will blink while wireless traffic goes through.
	LAN 1/2/3/4	On (Green)	The port is connected with 100Mbps.
		Off	The port is disconnected.
		Blinking(Green)	The data is transmitting.
	WAN	On(Green)	The port is connected with 100Mbps.
		Off	The port is disconnected.
		Blinking(Green)	It will blink while transmitting data.
	POWER	On(Red)	The router is powered on and running normally.
		Off	The router is powered off.

Rear Panel	Interface	Description
	ON/OFF	Power Switch.
	DC 5V/2A	Connector for a power adapter.
	FXS	Connect to the phone.
	WAN	Connector for accessing the Internet.
	LAN (1/2/3/4)	Connectors for local networked devices.

2.2 Hardware Installation

Before starting to configure the router, you have to connect your devices correctly.

Step 1.Connect Line port to land line jack with a RJ-11 cable.

Step 2.Connect the WAN port to a modem or switch or router or Internet with an Ethernet cable.

Step 3.Connect one port of 4 LAN ports to your computer with a RJ-45 cable. This device allows you to connect 4 PCs directly.

Step 4.Connect one end of the power cord to the power port of this device. Connect the other end to the wall outlet of electricity.

Step 5.Push the **ON/OFF** button to power on the router.

Step 6.Check the Power and WAN, LAN LEDs to assure network connections.

3 Voice Prompt

In any circumstance, pressing the following command to enter relevant function. The following table lists command, and description.

Voice Menu Setting Options

Operation code	Contents
1	Step 1.Pick up phone and press “****” to start IVR Step 2.Choose “1”, and VWRT510&WRT500 report the current WAN port connection type Step 3.Prompt "Please enter password”, user need to input password with end char # if user want to configuration WAN port connection type. ✧ The password in IVR is same as the one of WEB login, user can use phone keypad to enter password directly, and the matching table is in Note
2	Step 1.Pick up phone and press “****” to start IVR Step 2.Choose “2”, and VWRT510&WRT500 report current WAN Port IP Address Step 3.Input the new WAN port IP address and with the end char #, ✧ using “*” to replace “.”, user can input 192*168*20*168 to set the new IP address 192.168.20.168 ✧ press # key to indicate that you have finished Step 4.Report “operation successful” if user operation properly. ✧ Note: If you want to quit by the wayside, press “**”.
3	Step 1.Pick up phone and press “****” to start IVR Step 2.Choose “3”, and VWRT510&WRT500 report current WAN port subnet mask Step 3.Input a new WAN port subnet mask and with the end char # ✧ using “*” to replace “.”, user can input 255*255*255*0 to set the new WAN port subnet mask 255.255.255.0 ✧ press # key to indicate that you have finished 3) Report “operation successful” if user operation properly. ✧ Note: If you want to quit by the wayside, press “**”.
4	Step 1.Pick up phone and press “****” to start IVR Step 2.Choose “4”, and VWRT510&WRT500 report current gateway Step 3.Input the new gateway and with the end char # ✧ using “*” to replace “.”, user can input 192*168*20*1 to set the new gateway 192.168.20.1 ✧ press # (pound) key to indicate that you have finished 3) Report “operation successful” if user operation properly. ✧ Note: If you want to quit by the wayside, press “**”.
5	Step 1.Pick up phone and press “****” to start IVR Step 2.Choose “5”, and VWRT510&WRT500 report current DNS Step 3.Input the new DNS and with the end char # ✧ using “*” to replace “.”, user can input 192*168*20*1 to set the new gateway 192.168.20.1 ✧ press # (pound) key to indicate that you have finished 3) Report “operation successful” if user operation properly. ✧ If you want to quit by the wayside, press “**”.

6	Step 1.Pick up phone and press “****” to start IVR Step 2.Choose “6”, and VWRT510&WRT500 report “Factory Reset” Step 3.Prompt "Please enter password", the method of inputting password is the same as operation 1. ✧ If you want to quit by the wayside, press “*”. Step 4.Prompt “operation successful” if password is right and then VWRT510&WRT500 will be factory setting. Step 5.Press “7” reboot to make changes effective.
7	Step 1.Pick up phone and press “****” to start IVR Step 2.Choose “7”, and VWRT510&WRT500 report “Reboot” Step 3.Prompt "Please enter password", the method of inputting password is same as operation 1. Step 4.VWRT510&WRT500 will reboot if password is right and operation is properly.
8	Step 1.Pick up phone and press “****” to start IVR Step 2.Choose “8”, and VWRT510&WRT500 report “WAN Port Login” Step 3.Prompt "Please enter password", the method of inputting password is same as operation 1. ✧ If you want to quit by the wayside, press “*”. Step 4.Report “operation successful” if user operation properly. Step 5.Prompt “1enable 2disable”,choose 1 or 2, and with confirm char # Step 6.Report “operation successful” if user operation properly.
9	Step 1.Pick up phone and press “****” to start IVR Step 2.Choose “9”, and VWRT510&WRT500 report “ WEB Access Port” Step 3.Prompt “Please enter password”, the method of inputting password is same as operation 1. Step 4.Report “operation successful” if user operation properly. Step 5.Report the current WEB Access Port Step 6.Set the new WEB access port and with end char # Step 7. Report “operation successful” if user operation properly.
0	Step 1.Pick up phone and press “****” to start IVR Step 2.Choose “0”, and VWRT510&WRT500 report current Firmware version

Notice:

- When using Voice Menu, press * (star) to return the main menu.
- If any changes made in the IP assignment mode, please reboot the VWRT510&WRT500 to take the setting into effect.
- When enter IP address or subnet mask, use “*”(Star) to replace “.” (Dot).

For example, to enter the IP address 192.168.20.159 by keypad, press these keys: 192*168*20*159,use the #(pound) key to indicate that you have finished entering the IP address.

- #(pound) key to indicate that you have finish entering the IP address or subnet mask
- When assigning IP address in Static IP mode, setting IP address, subnet mask and default gateway is a must. If in DHCP mode, please make sure that DHCP SERVER is available in your existing broadband connection to which WAN port of VWRT510&WRT500 is connected.
- The default LAN port IP address of VWRT510&WRT500 is 192.168.1.1 and do not set the WAN port IP address of VWRT510&WRT500 in the same network segment of LAN port of VWRT510&WRT500, otherwise it may lead to the VWRT510&WRT500 fail to work properly.
- You can enter the password by phone keypad, the matching table between number and letters as follows:

- To input: D, E, F, d, e, f -- press '3'
- To input: G, H, I, g, h, i -- press '4'
- To input: J, K, L, j, k, l -- press '5'
- To input: M, N, O, m, n, o -- press '6'
- To input: P, Q, R, S, p, q, r, s -- press '7'
- To input: T, U, V, t, u, v -- press '8'
- To input: W, X, Y, Z, w, x, y, z -- press '9'
- To input all other characters in the administrator password-----press '0',
  E.g. password is 'admin-admin', press '236460263'

4 Configuring Basic Settings

4.1 Two-Level Management

This chapter explains how to setup a password for an administrator/root user and how to adjust basic/advanced settings for accessing Internet successfully.

VWRT510&WRT500 supports two-level management: administrator and user. For administrator mode operation, please type "**admin/admin**" on Username/Password and click **Login** button to configuration. While for user mode operation, please type "**user/user**" on Username/Password and click **Login** button for full configuration.

4.2 Accessing Web Page

4.2.1 From LAN port

1. Make sure your PC have connected to the router's LAN port correctly.

> **Notice:** You may either simply set up your computer to get IP dynamically from the router or set up the IP address of the computer to be the same subnet as **the default IP address of router is 192.168.1.1**. For the detailed information, please refer to the later section - **Trouble shooting of the guide.**

2. Open a web browser on your PC and type **http://192.168.30.1:8080.** The following window will be open to ask for username and password,and you can choose language.

3. For administrator mode operation, please type "**admin/admin**" on Username/Password and click Login to configuration. Yet, for root user mode operation, please type "**user/user**" on Username/Password and click Login for full configuration.

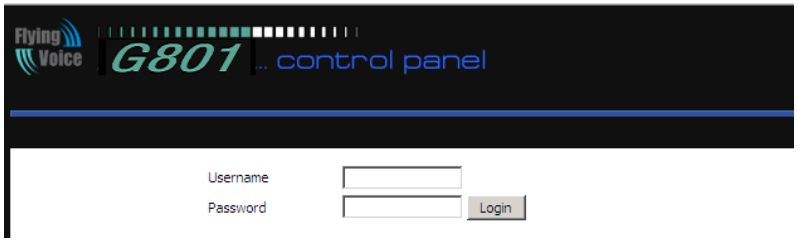
> **Notice**: If you fail to access to the web configuration, please go to "Trouble

Shooting" for detecting and solving your problem.

4. The web page can be logged out after 5 minutes without any operation.

4.2.2 From WAN port

1. Make sure your PC can connect to the router's WAN port correctly.
2. Getting the IP addresses of WAN port using Voice prompt.
3. Open a web browser on your PC and type **http://the IP address of WAN port.** The following window will be open to ask for username and password.

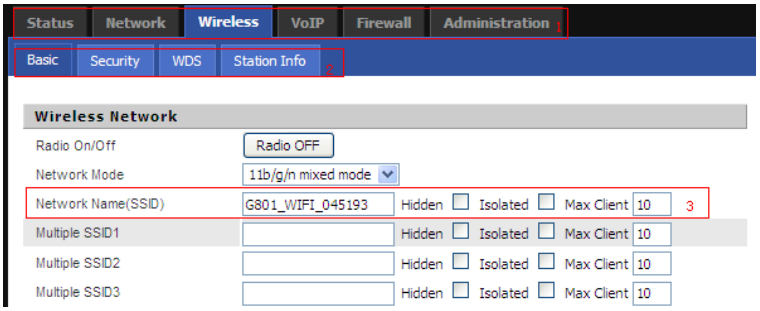
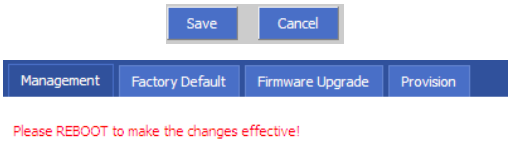


4. For administrator mode operation, please type "**admin/admin**" on Username/Password and click Login to configuration. Yet, for root user mode operation, please type "**user/user**" on Username/Password and click Login for full configuration.

> **Notice**: If you fail to access to the web configuration, please go to "Trouble Shooting" for detecting and solving your problem.

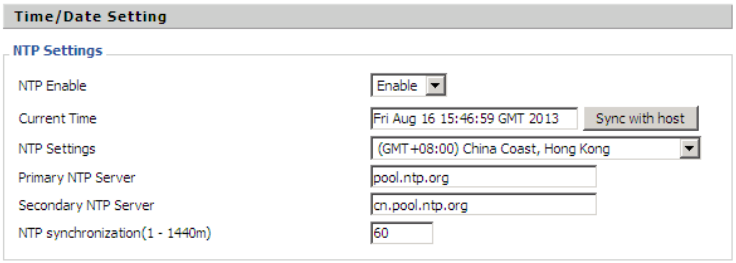
5. The web page can be logged out after 5 minutes without any operation.

4.3 Webpage

<table>
<tr>
<td rowspan="4"> 
</td>
<td>No.</td>
<td>Name</td>
<td>Description</td>
</tr>
<tr>
<td>1</td>
<td>Navigation bar</td>
<td>Click navigation bar, many sub-navigation bar will appear in the place 2</td>
</tr>
<tr>
<td>2</td>
<td>Title</td>
<td>Click sub-navigation bar to choose one configuration page</td>
</tr>
<tr>
<td>3</td>
<td>Parameter</td>
<td>To configuration the parameters</td>
</tr>
<tr>
<td rowspan="3"> 
</td>
<td></td>
<td>Save</td>
<td>◆ Every time making some changes, user should press this button to confirm the changes.
◆ After pressing the button, the red Please REBOOT to make the changes effective! will appear to notice rebooting.</td>
</tr>
<tr>
<td></td>
<td>Cancel</td>
<td>To cancel the changes.</td>
</tr>
<tr>
<td></td>
<td>Reboot</td>
<td>Press it to reboot the router</td>
</tr>
</table>

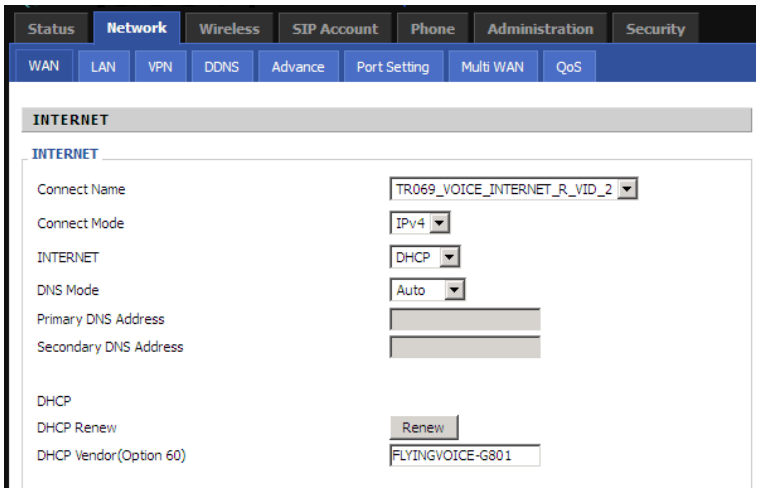
4.4 Setting up the Time Zone

Open **Administration/Management** webpage as shown below, please select the **Time Zone** for the router installed and specify the **NTP server** and set the update interval in **NTP synchronization**.



4.5 Setting up the Internet Connection

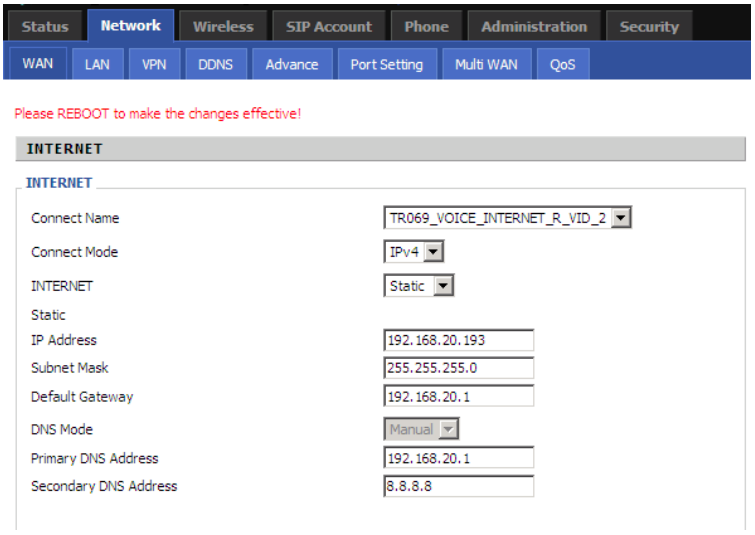
Open the **Network/WAN** webpage as shown below; please select the appropriate **IP Mode** according to the information from your ISP. There are three types offered in this page, which are Static, DHCP and PPPoE.



4.5.1 Static IP

You will receive a fixed public IP address or a public subnet, namely multiple public IP addresses from your DSL or Cable ISP service providers.

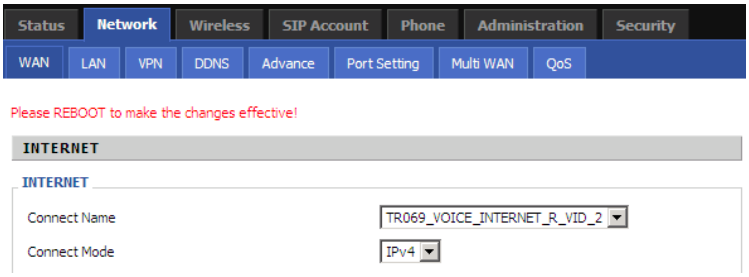
In most cases, a Cable service provider will offer a fixed public IP, while a DSL service provider will offer a public subnet. If you have a public subnet, you could assign an IP address to the WAN interface.



IP Address	Type the IP address
Subnet Mask	Type the subnet mask
Gateway IP Address	Type the gateway IP address
Primary DNS Server	Type in the primary IP address for the route
Secondary DNS Server	Type in secondary IP address for necessity in the future

4.5.2 DHCP

It is not necessary for you to type any IP address manually. Simply choose this type and the system will obtain the IP address automatically from DHCP server.



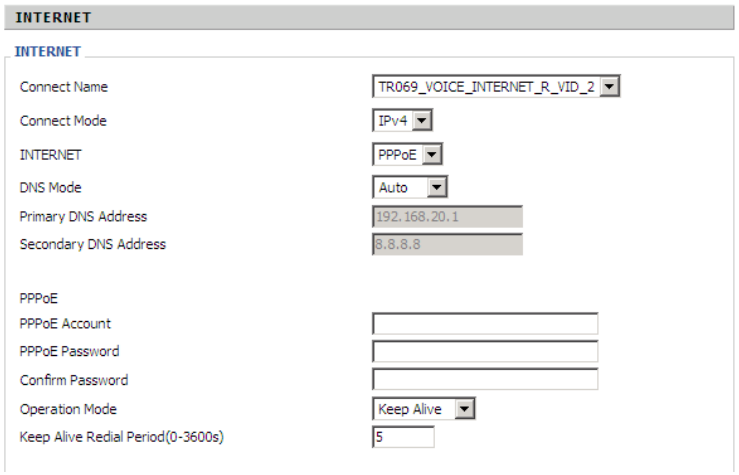
DNS Mode	Set the DNS Mode from Auto and Manual, If user choose manual, you should fill the primary DNS address and Secondary DNS address into Primary DNS Address and Secondary DNS Address.
Primary DNS Server	Type in the primary IP address for the route

Secondary DNS Server	Type in secondary IP address for necessity in the future

4.5.3 PPPoE

PPPoE stands for **Point-to-Point Protocol over Ethernet**. It relies on two widely accepted standards: PPP and Ethernet. It connects users through an Ethernet to the Internet with a common broadband medium, such as a single DSL line, wireless device or cable modem. All the users over the Ethernet can share a common connection.

PPPoE is used for most of DSL modem users. All local users can share one PPPoE connection for accessing the Internet. Your service provider will provide you information about user name, password, and authentication mode.



PPPoE Account	Assign a specific valid user name provided by the ISP
PPPoE Password	Assign a valid password provided by the ISP
Confirm Password	Input the password again
DNS Mode	Set the DNS Mode from Auto and Manual, If user choose manual, you should fill the primary DNS address and Secondary DNS address into Primary DNS Address and Secondary DNS Address.
Primary DNS Server	Type in the primary IP address for the route
Secondary DNS Server	Type in secondary IP address for necessity in the future

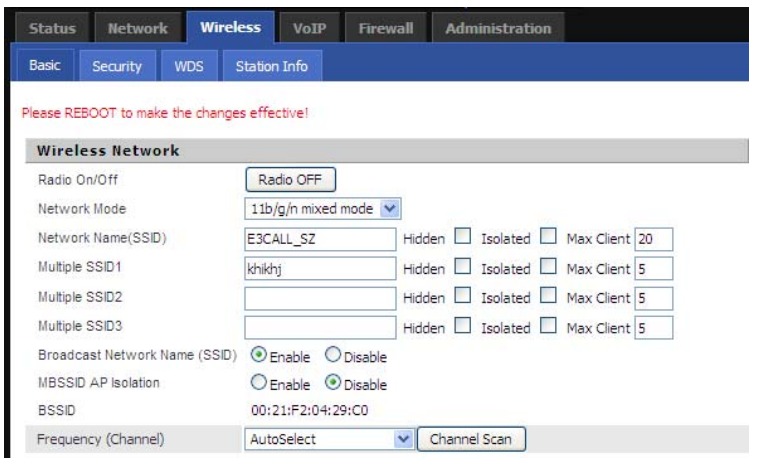
Copy Right 2013 All Rights Reserved by FLYINGVOICE TECHNOLOG LIMITED

4.6 Setting up the Wireless Connection

To set up the wireless connection, please skip the following steps.

4.6.1 Enable Wireless and Setting SSID

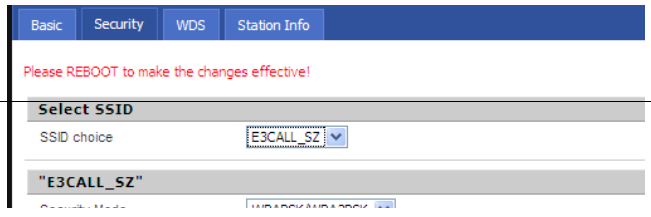
Open **Wireless/Basic** webpage as shown below



Radio On/Off	Click the button to enable or disable wireless. Press RADIO OFF to disable wireless. Press RADIO ON to enable wireless.
Network Mode	Choose one network mode from the drop down list.
Network Nmae(SSSID)	The name of the wireless name, it can be any text numbers or various special characters.
Multiple SSSD1-3	Set more wireless network.
Frequency	Choose channel frequency.

4.6.2 Encryption

Open **Wireless/Security** webpage to set the encryption of routers.



SSID Choice	Choose one SSID from Off-premises 1, off-premises 2 and Premises.
Security Mode	Select an appropriate encryption mode to improve the security and privacy of your wireless data packets.

	Each encryption mode will bring out different web page and ask you to offer additional configuration.

4.7 Register

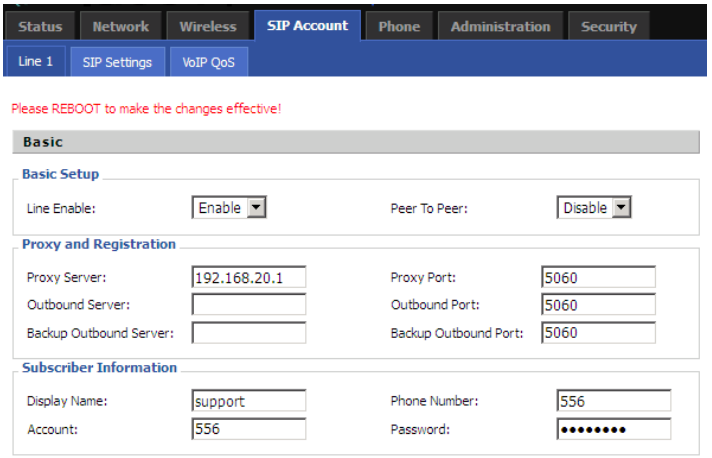
4.7.1 Get the Accounts

VWRT510&WRT500 have a FXS port, you can use it to make SIP call, and before registering, you should get the SIP account from you administrator or provider.

4.7.2 Connections

Connect VWRT510&WRT500 to the Internet properly

4.7.3 Configuration SIP from Webpage



Step 1.Open **SIP Account/Line 1** webpage, as the picture in the right side.

Step 2.Fill the SIP Server domain and SIP Server address (which get from you administrator or provider) into Domain Name parameter, into SIP Server

Step 3.Fill account which get from you administrator into Display Name parameter, Phone Number parameter, and Account parameter.

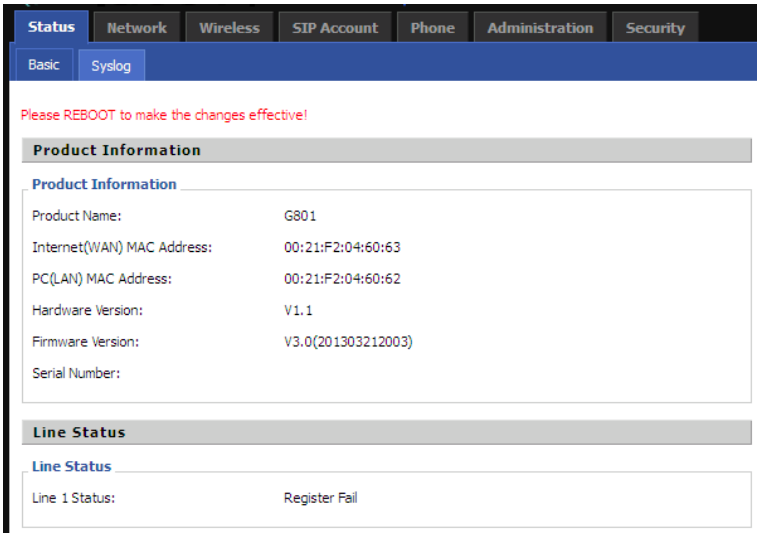
Step 4.Fill password which get from you administrator into Password parameter.

Step 5.Press Save button in the bottom of the webpage to save changes.

Note: if there is Please REBOOT to make the changes effective!, please press Reboot button to make changes effective.

4.7.4 View the Register Status

To view the status, please open Status webpage and view the value of register status. The value is registered like the following picture which means VWRT510&WRT500 have registered normally and you can make calls.



4.8 Make Call

4.8.1 Calling phone or extension numbers

To make a phone or extension number call:
a) Both ATA and the other VoIP device (i.e., another ATA or other SIP products) have public IP addresses, or
b) Both ATA and the other VoIP device (i.e., another ATA or other SIP products) are on the same LAN using private or public IP addresses, or
c) Both ATA and the other VoIP device (i.e., another ATA or other SIP products) can be connected through a router using public or private IP addresses.

To make a call, first pick up the analog phone or turn on the speakerphone on the analog phone, input the IP address directly, end with #.

4.8.2 Direct IP calls

Direct IP calling allows two phones, that is, an ATA with an analog phone and another VoIP Device, to talk to each other without a SIP proxy. VoIP calls can be made between two phones if:
a) Both ATA and the other VoIP device (i.e., another ATA or other SIP products) have public IP addresses, or

b) Both ATA and the other VoIP device (i.e., another ATA or other SIP products) are on the same LAN using private or public IP addresses, or
c) Both ATA and the other VoIP device (i.e., another ATA or other SIP products) can be connected through a router using public or private IP addresses.

To make a direct IP call, first pick up the analog phone or turn on the speakerphone on the analog phone, Input the IP address directly, with the end "#".

4.8.3 Call Hold

While in conversation, pressing the "***77**" to put the remote end on hold, then you will hear the dial tone and the remote party will hear hold tone at the same time.
Pressing the "***77**" again to release the previously hold state and resume the bi-directional media.

4.8.4 Blind Transfer

Assuming that call party A and party B are in conversation. A wants to Blind Transfer B to C:
Step 1.Party A dials **"*78"** to get a dial tone, then dials party C's number, and then press immediately key # (or wait for 4 seconds) to dial out.
Step 2.A can hang up.

4.8.5 Attended Transfer

Assuming that call party A and B are in conversation. A wants to Attend Transfer B to C:
Step 1.Party A dial "***77**" to hold the party B, when hear the dial tone, A dial C's number, then party A and party C are in conversation.
Step 2.Party A dial **"*78"** to transfer to C, then B and C now in conversation.
Step 3.If the transfer doesn't success, then A and B in conversation again.

4.8.6 Conference

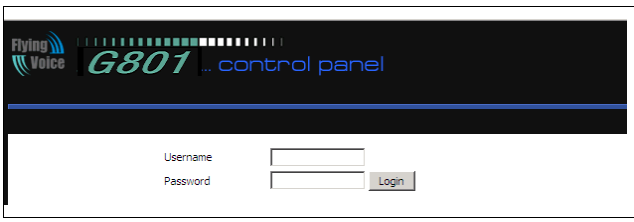
Assuming that call party A and B are in conversation. A wants to add C to the conference:
Step 1.Party A dial "***77**" to hold the party B, when hear the dial tone, A dial C's number, then party A and party C are in conversation.
Step 2.Party A dial **"*88"** to add C, then A, B and C now in conference.

5 Web Configuration

This chapter will guide users to execute advanced (full) configuration through admin mode operation.

5.1 Login

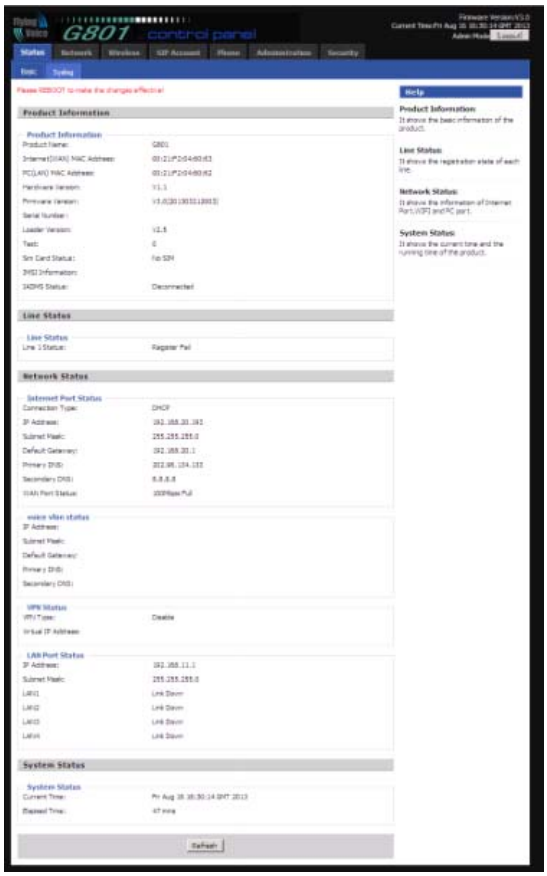
Step 1.Connect the LAN port of the router to your PC
Step 2.Open a web browser on your PC and type in **http://192.168.1.1**. The window will ask for typing username and password. And you can choose language, too.



When login successfully, the webpage shows the basic information about the router, such as the current WAN IP, DNS server IP, WAN port connection mode, WAN link status, wireless SSID, wireless channel and F/W version

Step 3.Please type "**admin/admin**" on Username/Password for administration operation. Now, the Main Screen will appear like below.

Copy Right 2013 All Rights Reserved by FLYINGVOICE TECHNOLOG LIMITED



Copy Right 2013 All Rights Reserved by FLYINGVOICE TECHNOLOG LIMITED

5.2 Status

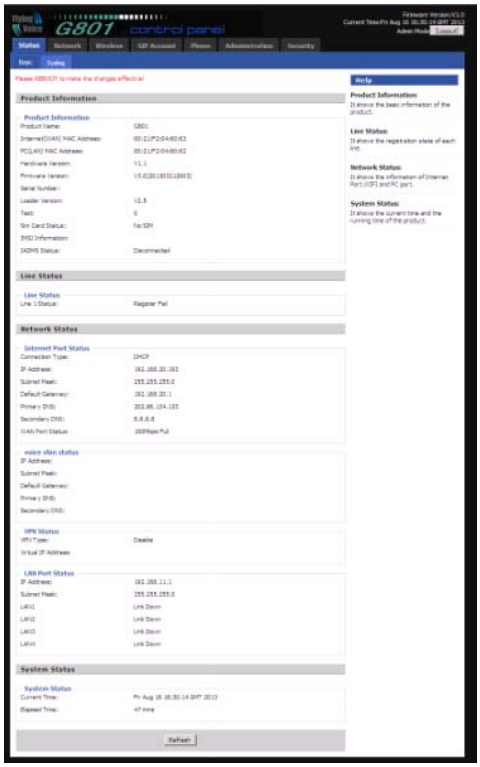
This webpage shows the status information about **product information, Network** and **system**.

It shows the basic information of the product, such as product name, serial number, MAC address, hardware version and software version.

It also shows the information of Link Status, WAN Port Status, and LAN Port Status.

And it shows the current time and the running time of the product.

The picture in the right side is the VWRT510&WRT500's Status webpage.



5.3 Network&Security

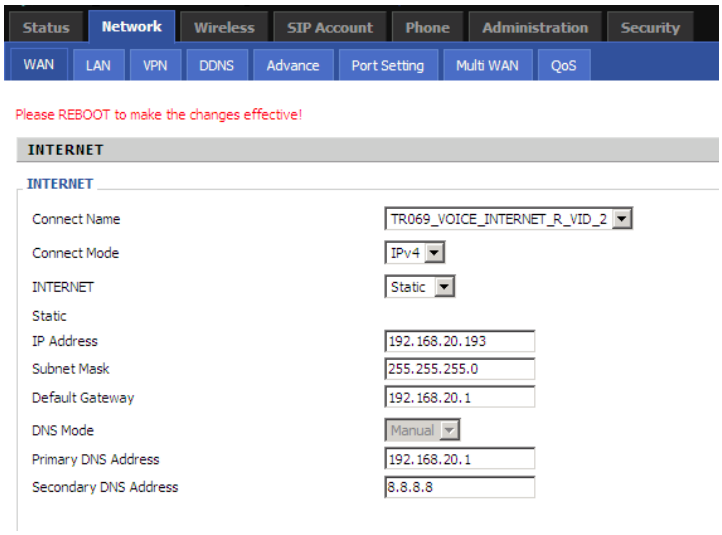
You can configuration the WAN port, LAN port, DDNS, Multi WAN,DMZ, MAC Clone,Port Forward and so on in these two bars.

5.3.1 WAN

This page allows you to set WAN configuration with different modes. Use the Connection Type drop down list to choose one WAN mode and then the corresponding page will be displayed.

Static IP:

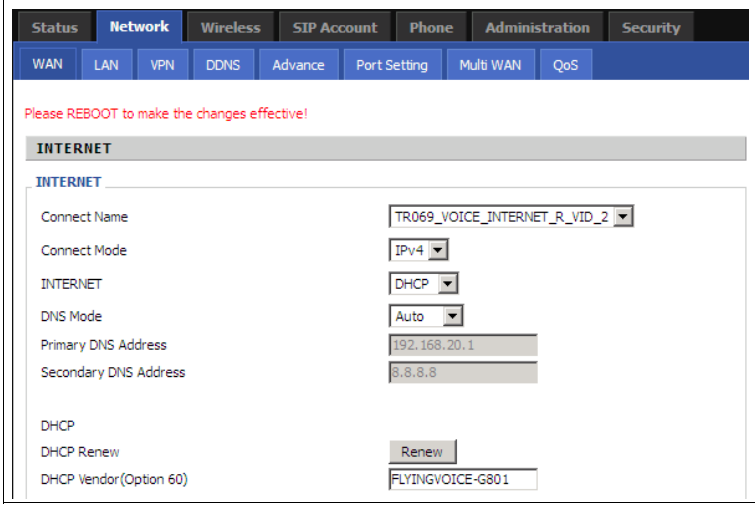
You will receive a fixed public IP address or a public subnet, namely multiple public IP addresses from your DSL or Cable ISP service providers. In most cases, a Cable service provider will offer a fixed public IP, while a DSL service provider will offer a public subnet. If you have a public subnet, you could assign an IP address to the WAN interface.



IP Address	**Type the IP address**
Subnet Mask	**Type the subnet mask**
Gateway IP Address	**Type the gateway IP address**
Primary DNS Server	**Type in the primary IP address for the route**
Secondary DNS Server	**Type in secondary IP address for necessity in the future**

DHCP:

It is not necessary for you to type any IP address manually. Simply choose this type and the system will obtain the IP address automatically from DHCP server.



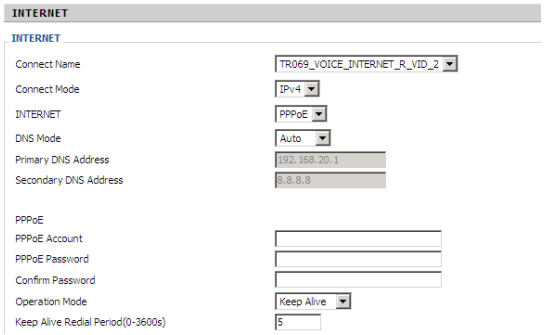
DNS Mode	**Set the DNS Mode from Auto and Manual,** **If user choose manual, you should fill the primary DNS address and Secondary DNS address into Primary DNS Address and Secondary DNS Address.**
Primary DNS Server	**Type in the primary IP address for the route**
Secondary DNS Server	**Type in secondary IP address for necessity in the future**

PPPoE:

PPPoE stands for **Point-to-Point Protocol over Ethernet**. It relies on two widely accepted standards: PPP and Ethernet. It connects users through an Ethernet to the Internet with a common broadband medium, such as a single DSL line, wireless device or cable modem. All the users over the Ethernet can share a common connection.

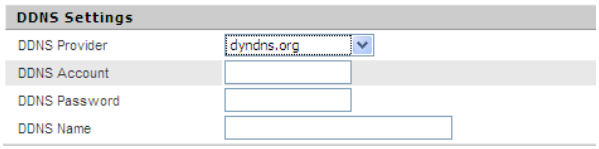
PPPoE is used for most of DSL modem users. All local users can share one PPPoE connection for accessing the Internet. Your service provider will provide you information about user name, password, and authentication mode.

PPPoE Account	**Assign a specific valid user name provided by the ISP**
PPPoE Password	**Assign a valid password provided by the ISP**
PPPoE Auto-Dial	**If or not enable PPPoE Password.**



DNS Mode	**Set the DNS Mode from Auto and Manual,** **If user choose manual, you should fill the primary DNS address and Secondary DNS address into Primary DNS Address and Secondary DNS Address.**
Primary DNS Server	**Type in the primary IP address for the route**
Secondary DNS Server	**Type in secondary IP address for necessity in the future**

DDNS Setting

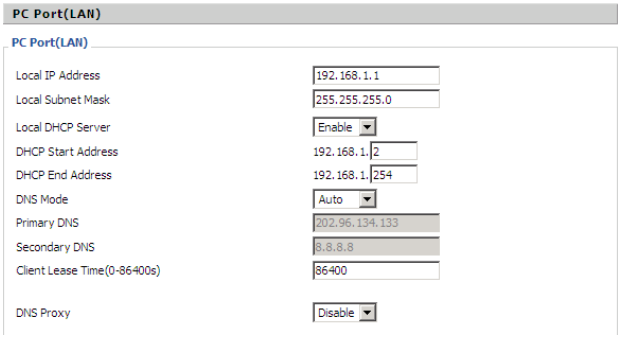


DDNS Provider	**Use the drop down list to select one DDNS Provider domain**
DDNS Account	**Fill in the DDNS account.**
DDNS Password	**Fill in the DDNS Password.**
DDNS Name	**Fill in the DDNS name.**

5.3.2 LAN

LAN Port:

The most generic function of router is NAT. What NAT does is to translate the packets from public IP address to local IP address to forward the right packets to the right host and vice versa.



Local IP Address	**Type in local IP address for connecting to a local private network (Default: 192.168.1.1)**
Local Subnet Mask	**Type in an address code that determines the size of the network. (Default: 255.255.255.0/ 24)**
Local DHCP Server	**If or not enable DHCP server.**

DHCP Server:

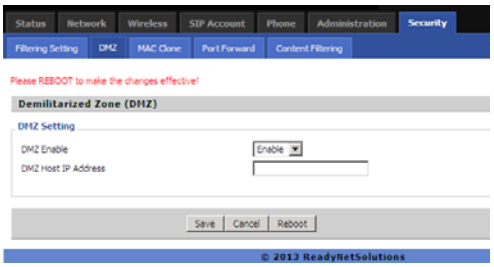
Router has a built-in DHCP server that assigns private IP address to each local host.
DHCP stands for Dynamic Host Configuration Protocol. The router by factory default acts a DHCP server for your network so it automatically dispatch related IP settings to any local user configured as a DHCP client. It is highly recommended that you leave the router enabled as a DHCP server if you do not have a DHCP server for your network.

Local DHCP Server	If or not enable DHCP server.
DHCP Starting Address	Enter a value of the IP address pool for the DHCP server to start with when issuing IP addresses. If the LAN Interface IP
DHCP Ending Address	Enter a value of the IP address pool for the DHCP server to end with when issuing IP addresses.
Primary/Secondary DNS	Input the primary or secondary DNS IP address.

	Primary DNS	You must specify a DNS server IP address here because your ISP should provide you with usually more than one DNS Server. If your ISP does not provide it, the router will automatically apply default DNS Server IP address: 202.96.134.33 to this field.
	Secondary DNS	You must specify a DNS server IP address here because your ISP should provide you with usually more than one DNS Server. If your ISP does not provide it, the router will automatically apply default DNS Server IP address: 202.96.128.86 to this field. If both the Primary IP and Secondary IP Address fields are left empty, the router will assign its own IP address to local users as a DNS proxy server and maintain a DNS cache.
	Client Lease Time	It allows you to set the leased time for the specified PC.

5.3.3 DMZ/Port Forward

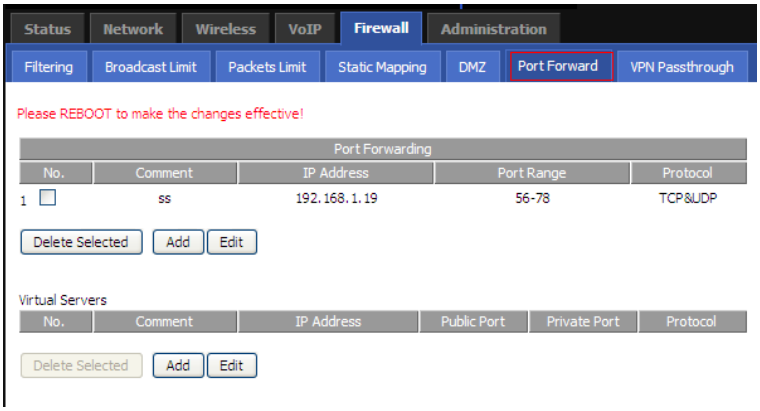
DMZ



DMZ Enable	If or not enable DMZ.
DMZ Host IP Address	Enter the private IP address of the DMZ host

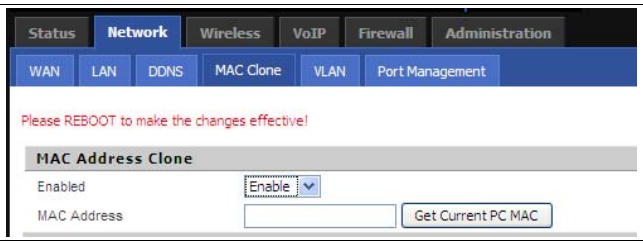
Port Forward

Copy Right 2013 All Rights Reserved by FLYINGVOICE TECHNOLOG LIMITED



5.3.4 MAC Clone

Some ISPs will require you to register your MAC address. If you do not wish to re-register your MAC address, you can have the router clone the MAC address that is registered with your ISP. To use the Clone Address button, the computer viewing the Web-base utility screen will have the MAC address automatically entered in the Clone WAN MAC field.

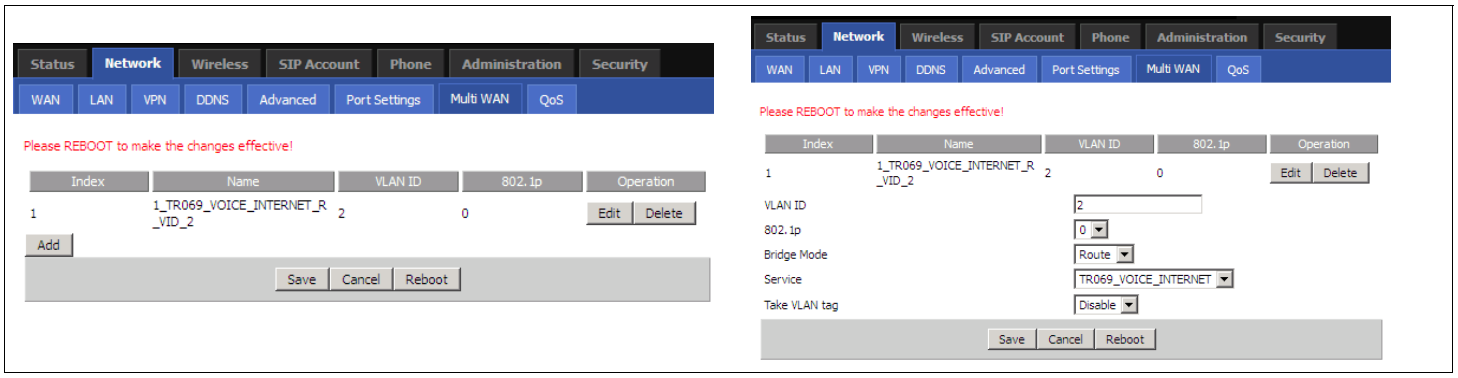


Step 1.Press Clone Address button to clone the currently PC MAC address to router's Internet port.

Step 2.Press Save button to save the changes

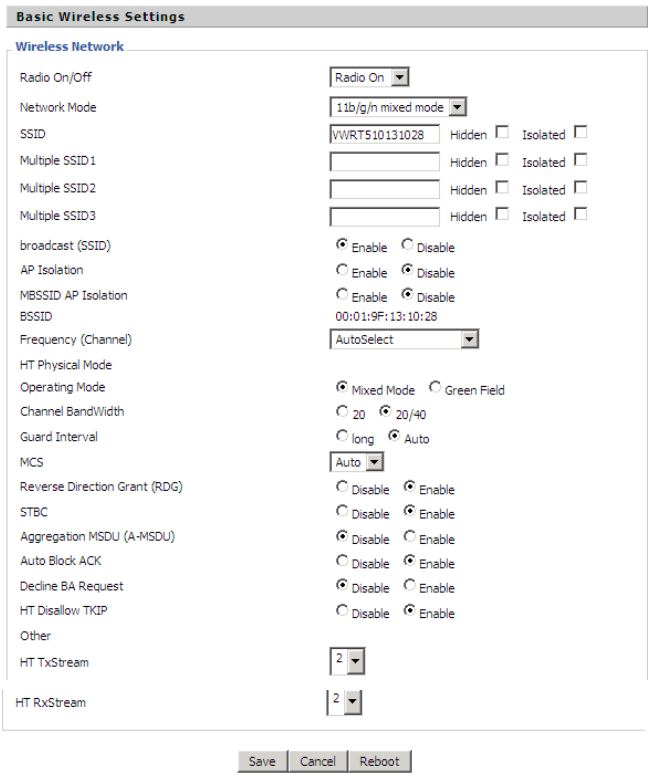
Step 3.Press Cancel button to make changes effective

5.3.5 Multi WAN



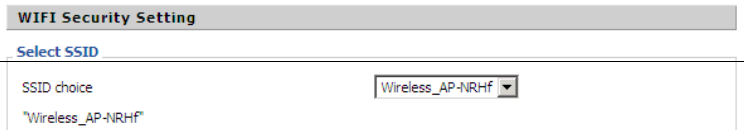
5.4 Wireless

5.4.1 Basic



Radio On/Off	Select Radio On to enable the wireless, select Radio Off to disable wireless.
Network Mode	Choose one network mode from the five types.
SSID	The name of the wireless name, it can be any text numbers or various special characters. The default SSID is "VWRT510131028".
Multiple SSID1-3	User can set multiple SSID.
broadcast(SSID)	If or not enable SSID broadcast.

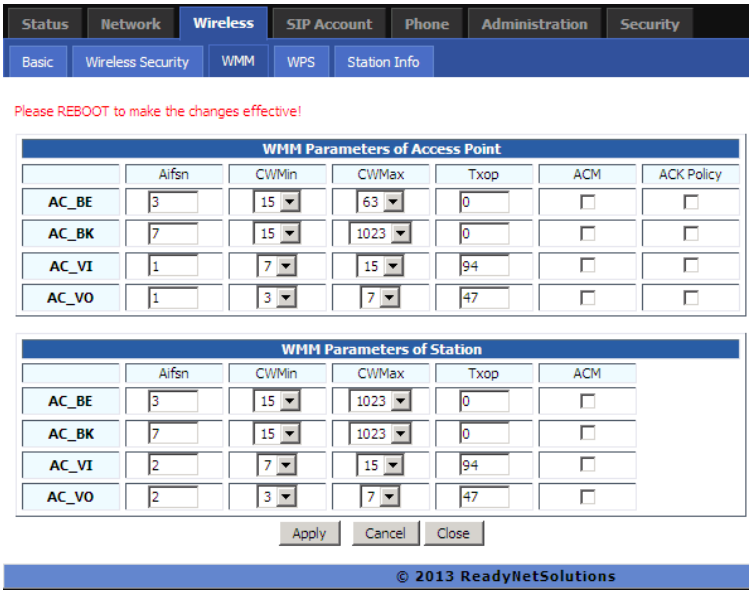
5.4.2 Security



SSID Choice	Choose one SSID from SSID, Multiple SSID1, Multiple SSID2 and Multiple SSID3.
Security Mode	Select an appropriate encryption mode to improve

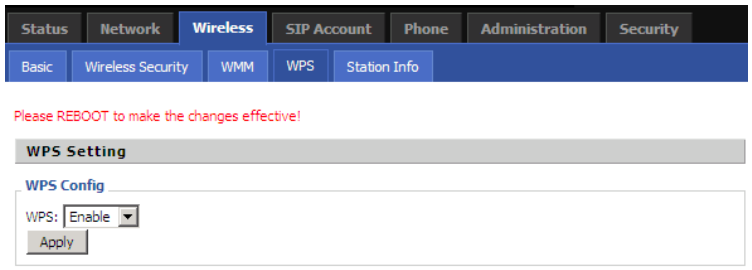
	the security and privacy of your wireless data packets. Each encryption mode will bring out different web page and ask you to offer additional configuration.

5.4.3 WMM



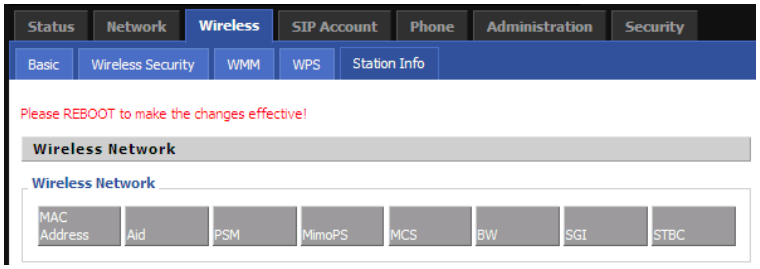
5.4.4 WPS

WPS (**Wi-Fi Protected Setup**) provides easy procedure to make network connection between wireless station and wireless access point (vigor router) with the encryption of WPA and WPA2.
It is the simplest way to build connection between wireless network clients and vigor router. Users do not need to select any encryption mode and type any long encryption passphrase to setup a wireless client every time. He/she only needs to press a button on wireless client, and WPS will connect for client and router automatically.

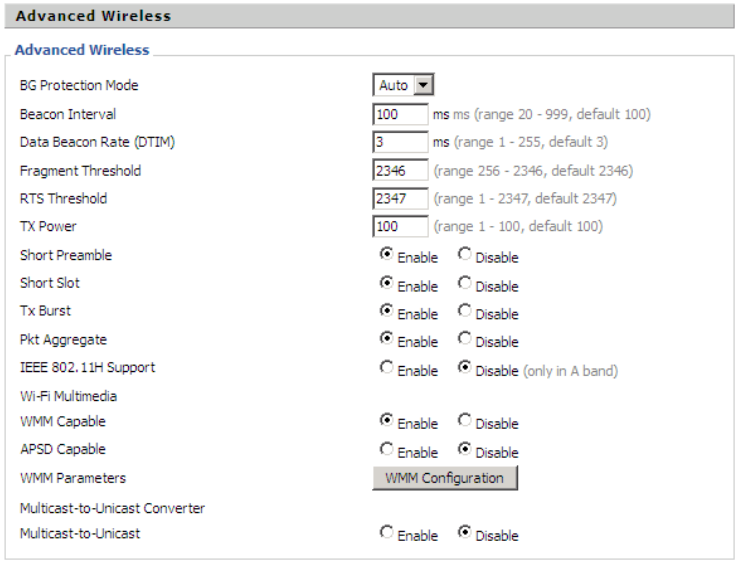


WPS	If or not enable WPS.
Apply	Press the button to apply.

5.4.5 Station list



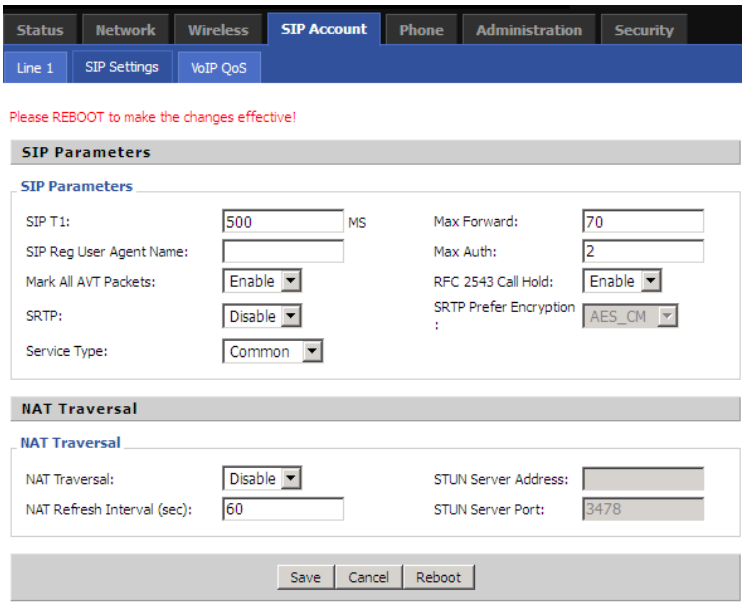
5.4.6 Advanced



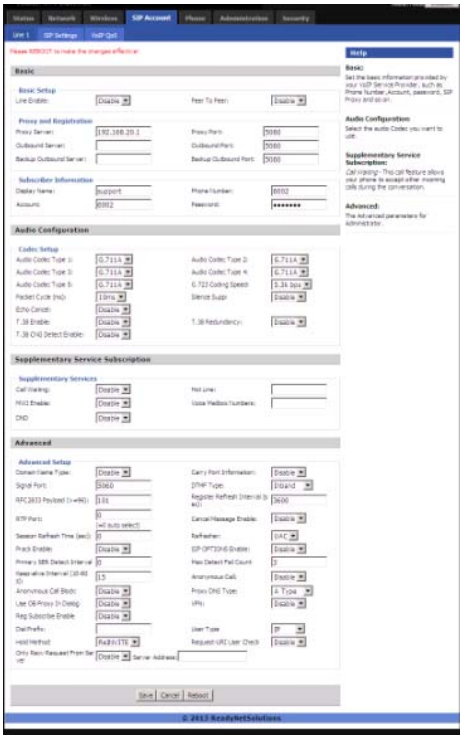
Copy Right 2013 All Rights Reserved by FLYINGVOICE TECHNOLOG LIMITED

5.5 SIP Account

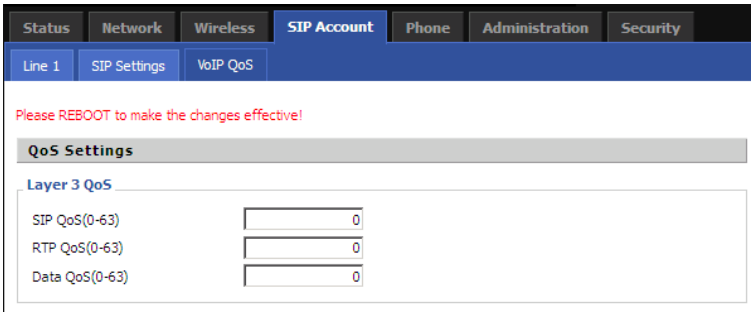
5.5.1 SIP Settings



5.5.2 Line 1

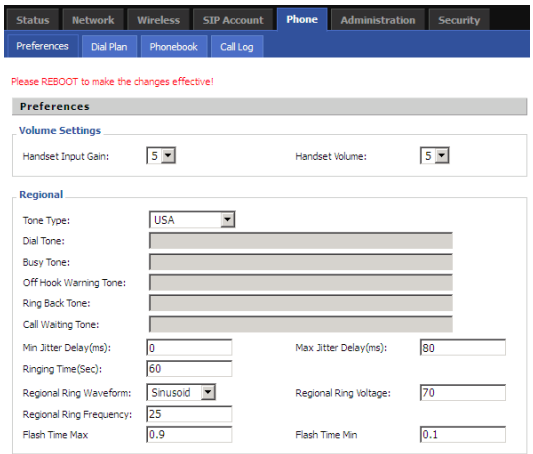


5.5.3 VOIP QoS Setting

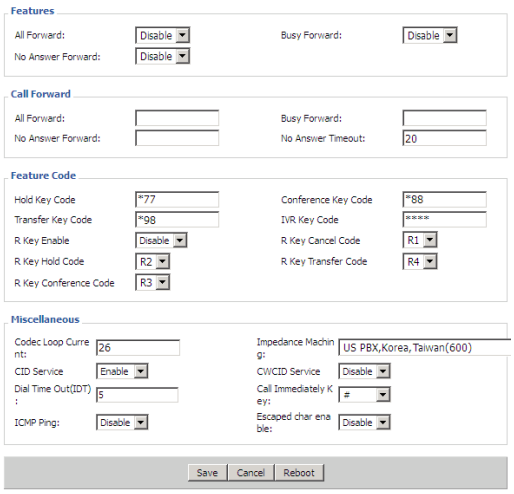


5.6 Phone

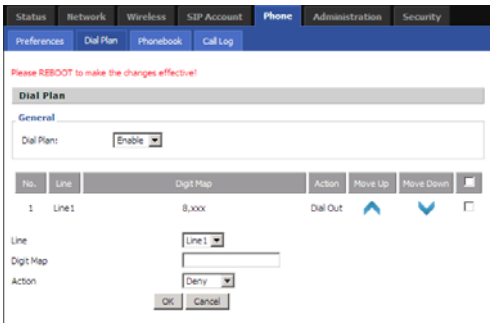
5.6.1 Preferences



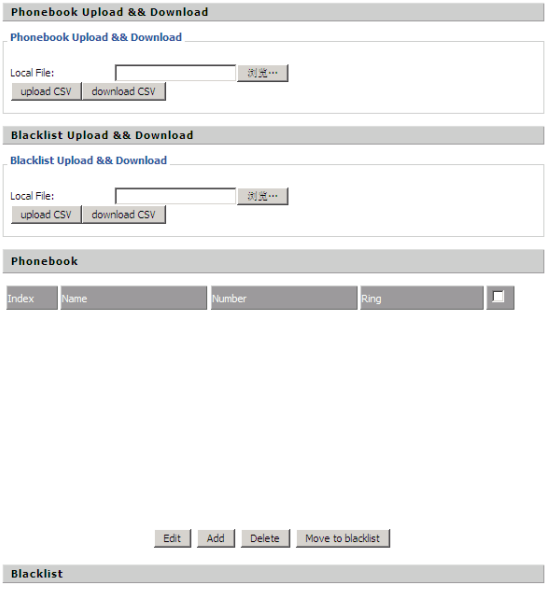
Copy Right 2013 All Rights Reserved by FLYINGVOICE TECHNOLOG LIMITED



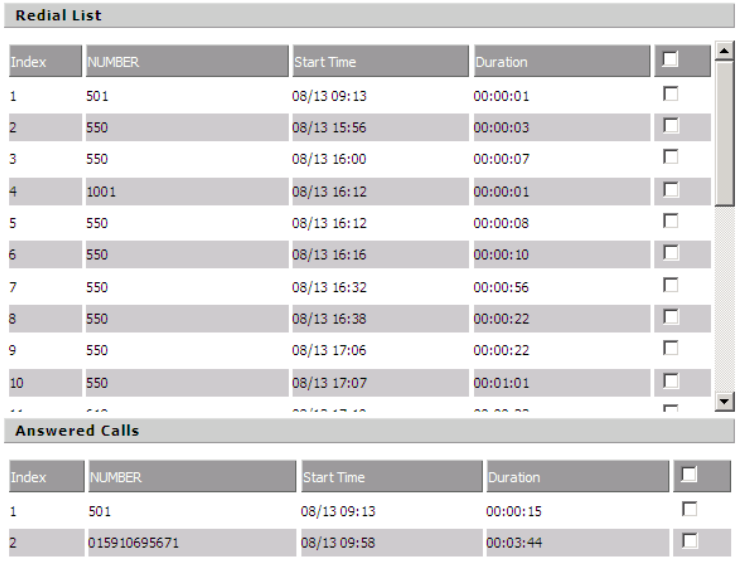
5.6.2 Dial Plan



5.6.3 Phonebook



5.6.4 Call Log



Redial List

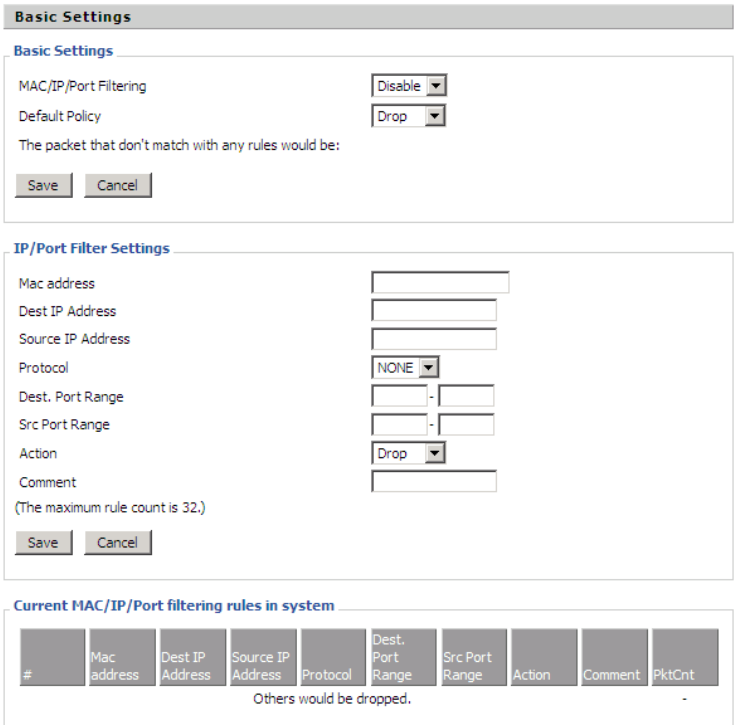
Index	NUMBER	Start Time	Duration
1	501	08/13 09:13	00:00:01
2	550	08/13 15:56	00:00:03
3	550	08/13 16:00	00:00:07
4	1001	08/13 16:12	00:00:01
5	550	08/13 16:12	00:00:08
6	550	08/13 16:16	00:00:10
7	550	08/13 16:32	00:00:56
8	550	08/13 16:38	00:00:22
9	550	08/13 17:06	00:00:22
10	550	08/13 17:07	00:01:01

Answered Calls

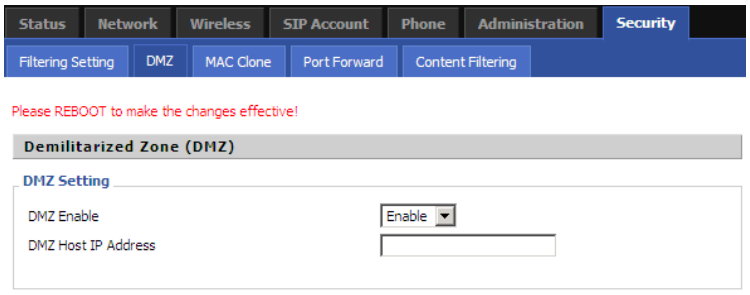
Index	NUMBER	Start Time	Duration
1	501	08/13 09:13	00:00:15
2	015910695671	08/13 09:58	00:03:44

5.7 Security

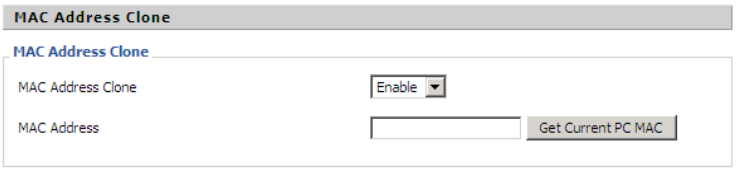
5.7.1 Filtering Setting



5.7.2 DMZ

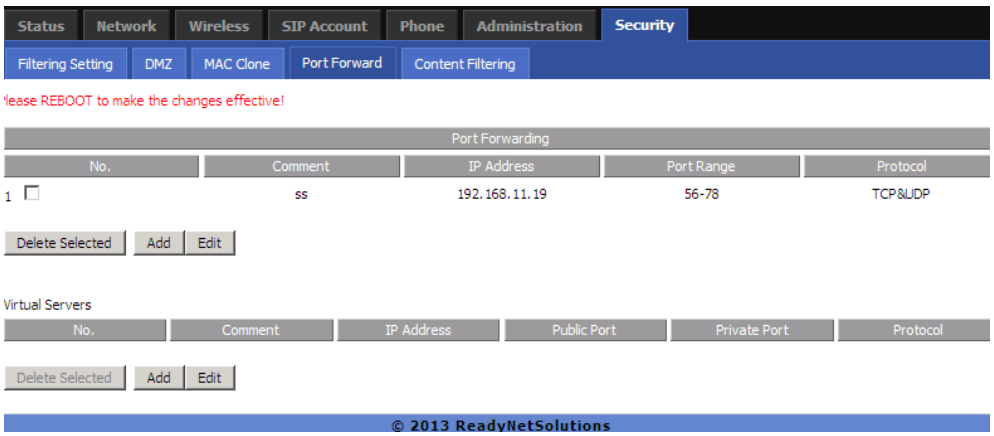


5.7.3 MAC Clone

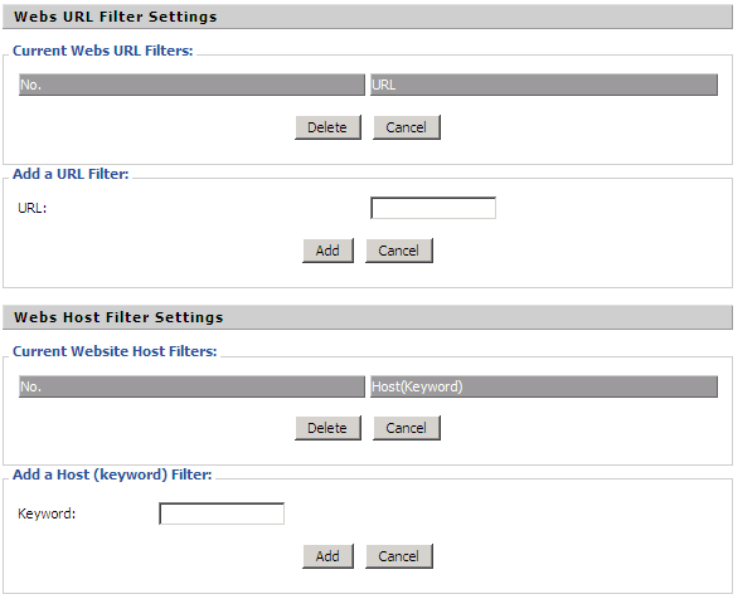


Copy Right 2013 All Rights Reserved by FLYINGVOICE TECHNOLOG LIMITED

5.7.4 Port Forward

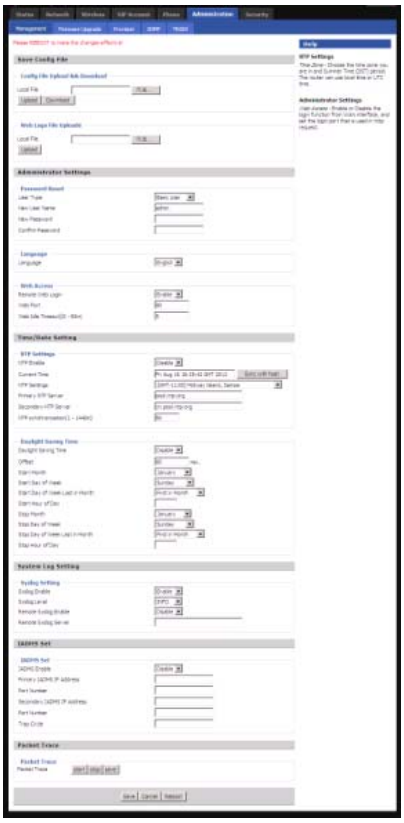


5.7.5 Content Filtering

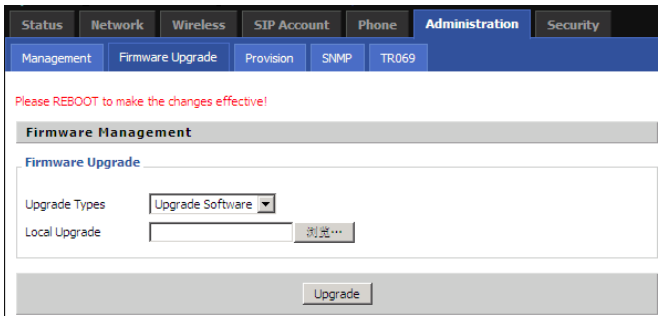


5.8 Administration

5.8.1 General



5.8.2 Firmware Upgrade



1) Choose upgrade file type from **Image File** and **Dial Rule**

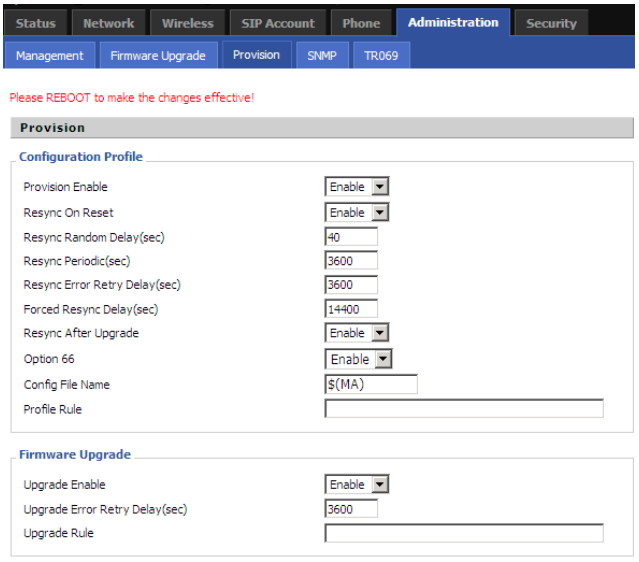
2) Press 浏览... to browser file.

3) Press Upgrade to start upgrading.

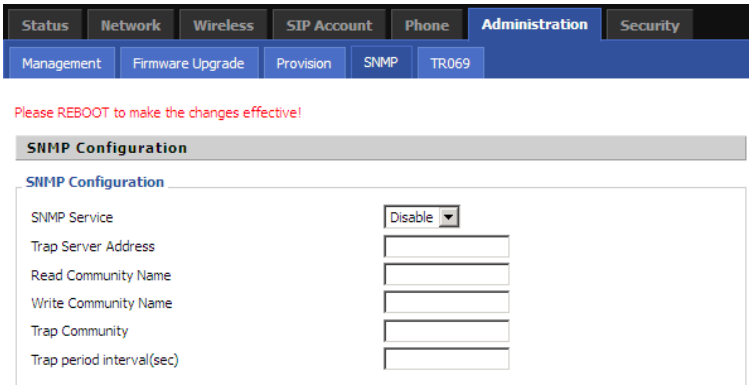
5.8.3 Provision

Please refer to the provision user manual to test provision.

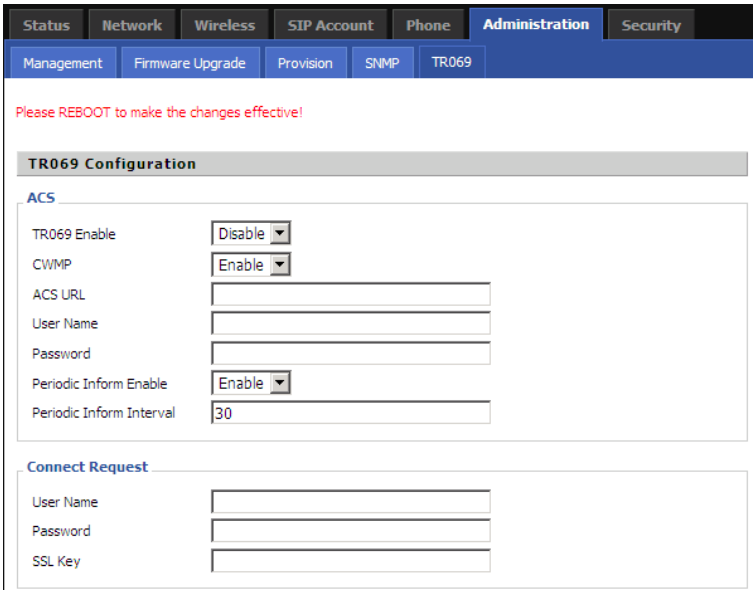
Copy Right 2013 All Rights Reserved by FLYINGVOICE TECHNOLOG LIMITED



5.8.4 SNMP

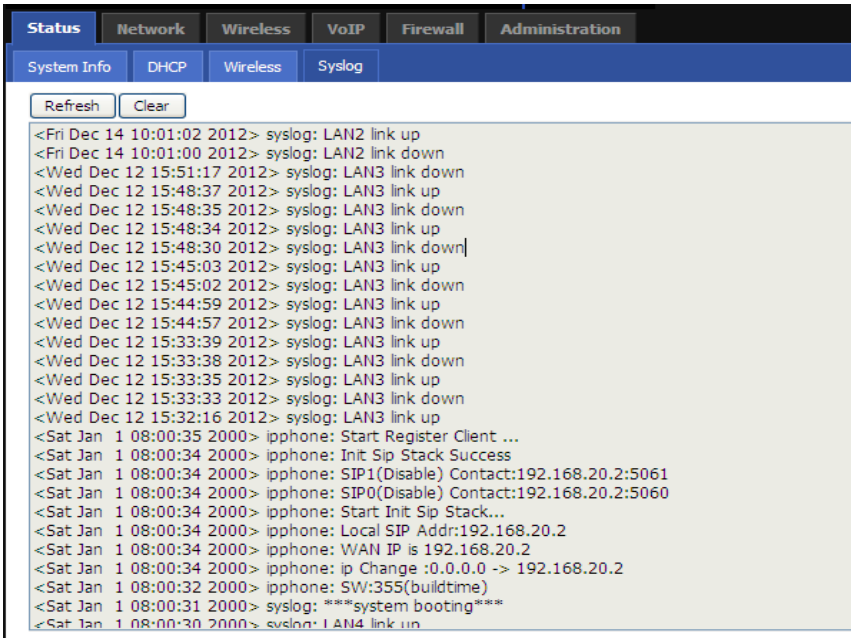


5.8.5 TR069



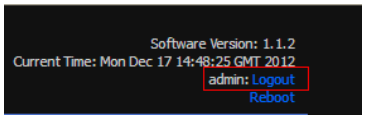
5.9 System Log

If you enable the system log in **Status/syslog** webpage, you can view the system log in this webpage.



5.10 Logout

Press the **logout** button to logout, and then the login window will appear.



5.11 Reboot

Press the **Reboot** button to reboot VWRT510&WRT500.

6 Trouble shooting of the guide

6.1 Setting your PC gets IP automatically

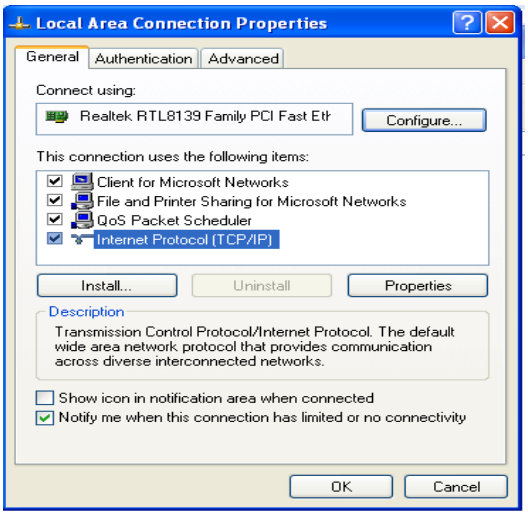
Following are the process of setting your PC gets IP automatically

Step 1.Click the “begin”

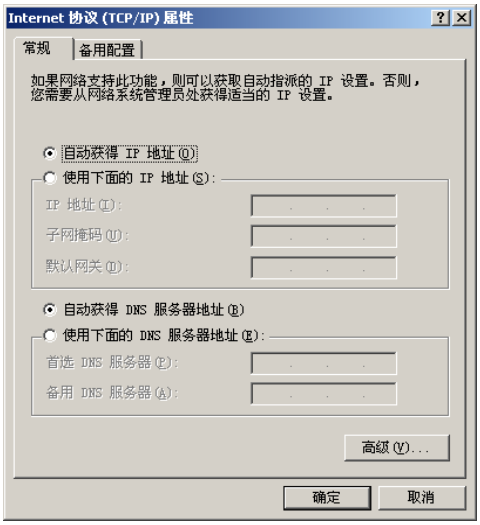
Step 2.Select “control panel”, then double click “network connections” in the “control panel”

Step 3.Right clicks the “network connection” that your PC uses, select “attribute” and you can see the interface as picture 1:

Step 4.Select “Internet Protocol (TCP/IP)”, click “attribute” button, and you can see the interface as following Picture 2 and you should click the “Get IP address automatically”.



Picture 1



Picture 2

6.2 Can not connect to the configuration Website

Solution:

Check if the Ethernet cable is properly connected, then

Check if the URL is right wrote, the format of URL is: ***http:// the IP address: 8080***, 8080 must be added, then

Check if the version of IE is IE8, or use other browser such as Firefox or Mozilla, then

Contact your administrator, supplier, or ITSP for more information or assistance.

6.3 Forget the Password

If user changed the password and then forgot, you can not access to the configuration website.

Solution:

To factory default: press reset button 10s.

7 Statement

FCC Radiation Exposure Statement

FlyingVoice Technology Ltd. Declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

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, many 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:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

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

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

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices)

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment 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.

This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

CE 1622