

# **The G801**

## **High Speed Router**

### **User's Guide**



**V1.3**

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# **1 Preface**

Thank you for choosing G801 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 G801 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.

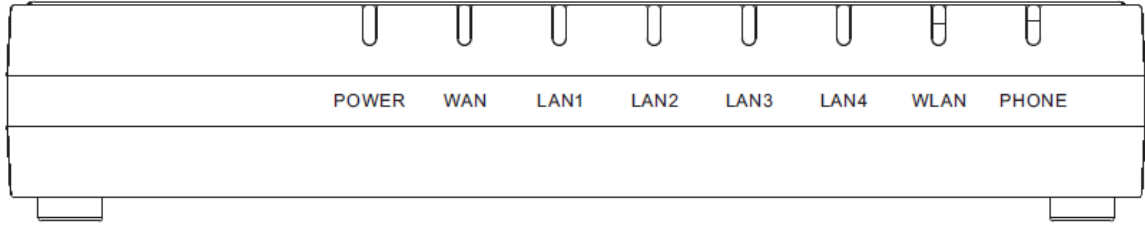
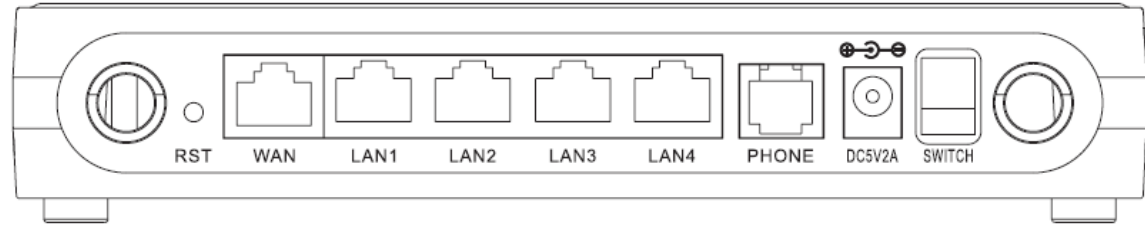
Before you can connect G801 to the Internet and use it, you must have a high-speed broadband connection installed. A high-speed connection includes environments such as DSL, cable modem, and a leased line.

G801 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<br>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<br>5V/2A    | Connector for a power adapter.                 |  |
|  | FXS            | Connect to the phone.                          |  |
|  | WAN            | Connector for accessing the Internet.          |  |

|  |                  |   |
|--|------------------|---|
|  | LAN<br>(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              | <p>Step 1.Pick up phone and press “****” to start IVR</p> <p>Step 2.Choose “1”, and G801 report the current WAN port connection type</p> <p>Step 3.Prompt "Please enter password", user need to input password with end char # if user want to configuration WAN port connection type.</p> <p>◇ 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</p>  |
| 2              | <p>Step 1.Pick up phone and press “****” to start IVR</p> <p>Step 2.Choose “2”, and G801 report current WAN Port IP Address</p> <p>Step 3.Input the new WAN port IP address and with the end char #,</p> <p>◇ using “*” to replace “.”, user can input 192*168*20*168 to set the new IP address 192.168.20.168</p> <p>◇ press # key to indicate that you have finished</p> <p>Step 4.Report “operation successful” if user operation properly.</p> <p>◇ Note: If you want to quit by the wayside, press “***”.</p>    |
| 3              | <p>Step 1.Pick up phone and press “****” to start IVR</p> <p>Step 2.Choose “3”, and G801 report current WAN port subnet mask</p> <p>Step 3.Input a new WAN port subnet mask and with the end char #</p> <p>◇ using “*” to replace “.”, user can input 255*255*255*0 to set the new WAN port subnet mask 255.255.255.0</p> <p>◇ press # key to indicate that you have finished</p> <p>3) Report “operation successful” if user operation properly.</p> <p>◇ Note: If you want to quit by the wayside, press “***”.</p> |
| 4              | <p>Step 1.Pick up phone and press “****” to start IVR</p> <p>Step 2.Choose “4”, and G801 report current gateway</p> <p>Step 3.Input the new gateway and with the end char #</p> <p>◇ using “*” to replace “.”, user can input 192*168*20*1 to set the new gateway 192.168.20.1</p> <p>◇ press # (pound) key to indicate that you have finished</p> <p>3) Report “operation successful” if user operation properly.</p> <p>◇ Note: If you want to quit by the wayside, press “***”.</p>                                |
| 5              | <p>Step 1.Pick up phone and press “****” to start IVR</p> <p>Step 2.Choose “5”, and G801 report current DNS</p> <p>Step 3.Input the new DNS and with the end char #</p> <p>◇ using “*” to replace “.”, user can input 192*168*20*1 to set the new gateway 192.168.20.1</p> <p>◇ press # (pound) key to indicate that you have finished</p> <p>3) Report “operation successful” if user operation properly.</p> <p>◇ If you want to quit by the wayside, press “***”.</p>  |

|   |   |
|---|---|
| 6 | <p>Step 1.Pick up phone and press “*****” to start IVR</p> <p>Step 2.Choose “6”, and G801 report “Factory Reset”</p> <p>Step 3.Prompt "Please enter password", the method of inputting password is the same as operation 1.</p> <p>✧ If you want to quit by the wayside, press “*”.</p> <p>Step 4.Prompt “operation successful” if password is right and then G801 will be factory setting.</p> <p>Step 5.Press “7” reboot to make changes effective.</p>   |
| 7 | <p>Step 1.Pick up phone and press “*****” to start IVR</p> <p>Step 2.Choose “7”, and G801 report “Reboot”</p> <p>Step 3.Prompt "Please enter password", the method of inputting password is same as operation 1.</p> <p>Step 4.G801 will reboot if password is right and operation is properly.</p>   |
| 8 | <p>Step 1.Pick up phone and press “*****” to start IVR</p> <p>Step 2.Choose “8”, and G801 report “WAN Port Login”</p> <p>Step 3.Prompt "Please enter password", the method of inputting password is same as operation 1.</p> <p>✧ If you want to quit by the wayside, press “*”.</p> <p>Step 4.Report “operation successful” if user operation properly.</p> <p>Step 5.Prompt “1enable 2disable”,choose 1 or 2, and with confirm char #</p> <p>Step 6.Report “operation successful” if user operation properly.</p> |
| 9 | <p>Step 1.Pick up phone and press “*****” to start IVR</p> <p>Step 2.Choose “9”, and G801 report “ WEB Access Port”</p> <p>Step 3.Prompt “Please enter password”, the method of inputting password is same as operation 1.</p> <p>Step 4.Report “operation successful” if user operation properly.</p> <p>Step 5.Report the current WEB Access Port</p> <p>Step 6.Set the new WEB access port and with end char #</p> <p>Step 7. Report “operation successful” if user operation properly.</p>                      |
| 0 | <p>Step 1.Pick up phone and press “*****” to start IVR</p> <p>Step 2.Choose “0”, and G801 report current Firmware version</p>   |

**Notice:**

- ◆ When using Voice Menu, press \* (star) to return the main menu.
- ◆ If any changes made in the IP assignment mode, please reboot the G801 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 G801 is connected.
- ◆ The default LAN port IP address of G801 is 192.168.1.1 and do not set the WAN port IP address of G801 in the same network segment of LAN port of G801, otherwise it may lead to the G801 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.

G801 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.



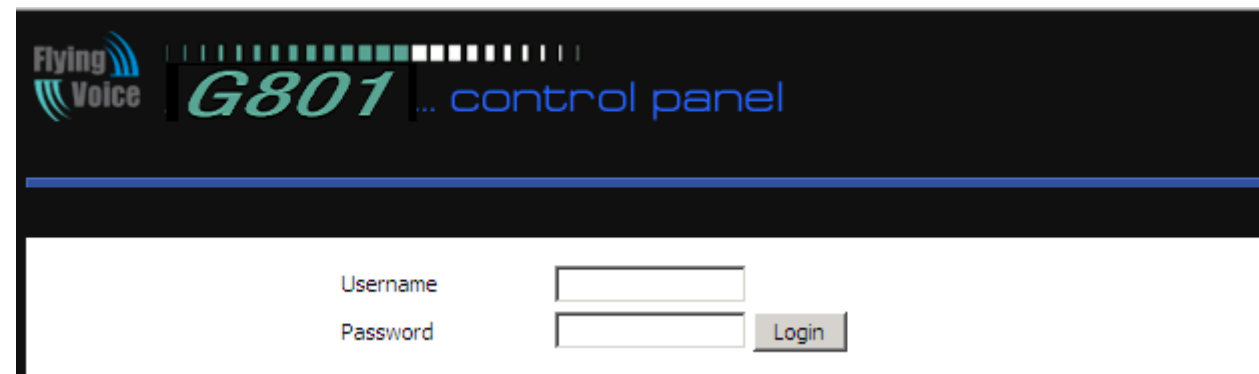
**Notice:** If you fail to access to the web configuration, please go to “Trouble

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.



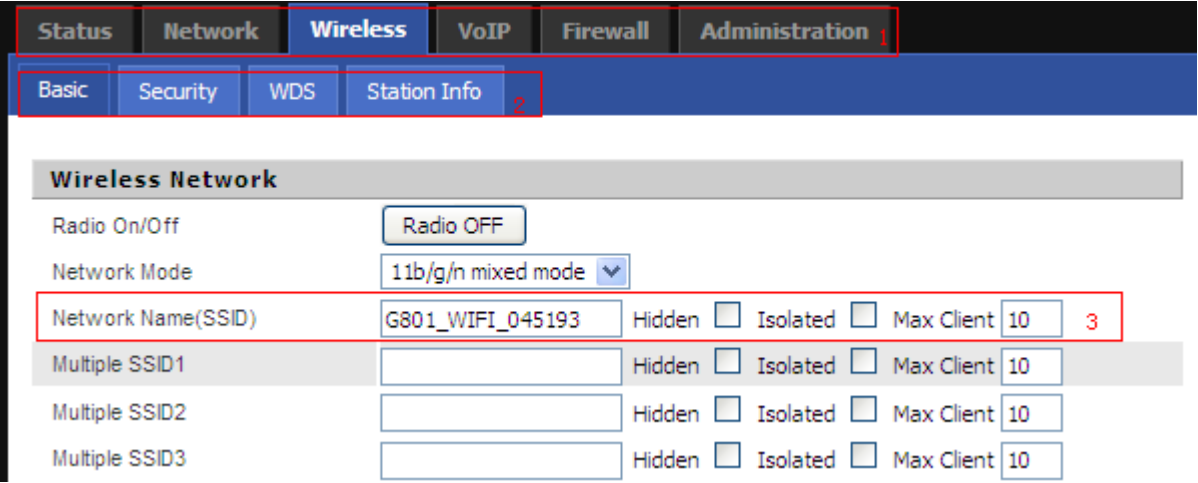
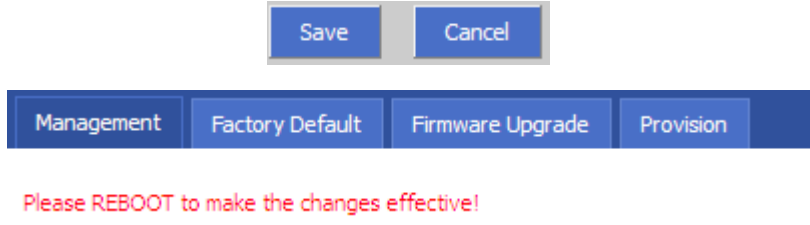
4. For administrator mode operation, please type “**admin/admin**” on Username/Password and click Login to configuration. Yet, for root user mode operation, please type “**user/user**” on Username/Password and click Login for full configuration.



**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

|  | No. | Name           | Description  |
|--|-----|----------------|--|
|    | 1   | Navigation bar | Click navigation bar, many sub-navigation bar will appear in the place 2   |
|  | 2   | Title          | Click sub-navigation bar to choose one configuration page  |
|  | 3   | Parameter      | To configuration the parameters  |
|  |     | Save           | <ul style="list-style-type: none"> <li>◆ Every time making some changes, user should press this button to confirm the changes.</li> <li>◆ After pressing the button, the red <i>Please REBOOT to make the changes effective!</i> will appear to notice rebooting.</li> </ul> |
|  |     | Cancel         | To cancel the changes.   |
|  |     | Reboot         | Press it to reboot the router  |

## 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**.

| Time/Date Setting              |  |
|--------------------------------|--|
| <b>NTP Settings</b>            |  |
| NTP Enable                     | Enable   |
| Current Time                   | Fri Aug 16 15:46:59 GMT 2013 <input type="button" value="Sync with host"/> |
| NTP Settings                   | (GMT+08:00) China Coast, Hong Kong   |
| Primary NTP Server             | pool.ntp.org   |
| Secondary NTP Server           | cn.pool.ntp.org  |
| NTP synchronization(1 - 1440m) | 60   |

## 4.5 Setting up the Internet Connection

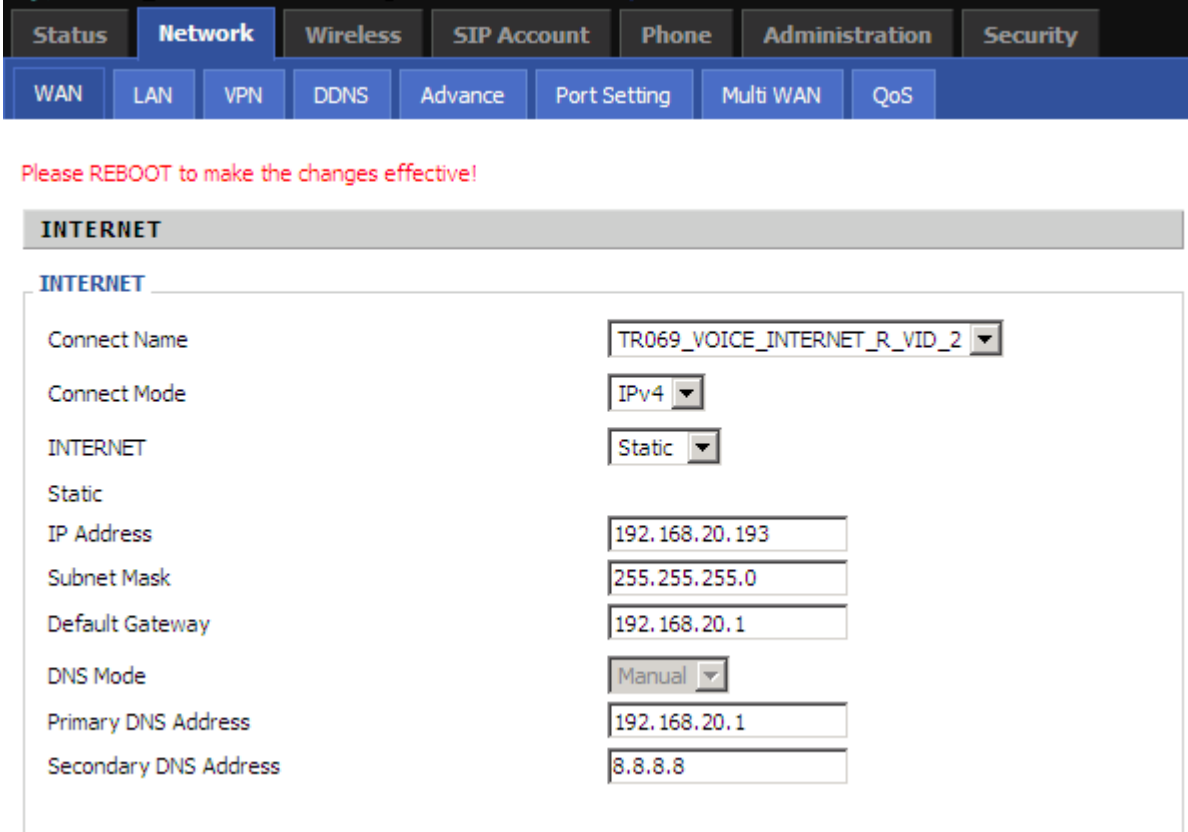
Open the **Network/WAN** webpage as shown below; please select the appropriate **IP Mode** according to the information from your ISP. There are three types offered in this page, which are Static, DHCP and PPPoE.

| Status                 | Network                              | Wireless | SIP Account | Phone   | Administration | Security  |     |
|------------------------|--------------------------------------|----------|-------------|---------|----------------|-----------|-----|
| WAN                    | LAN                                  | VPN      | DDNS        | Advance | Port Setting   | Multi WAN | QoS |
| <b>INTERNET</b>        |                                      |          |             |         |                |           |     |
| <b>INTERNET</b>        |                                      |          |             |         |                |           |     |
| Connect Name           | TR069_VOICE_INTERNET_R_VID_2         |          |             |         |                |           |     |
| Connect Mode           | IPv4                                 |          |             |         |                |           |     |
| INTERNET               | DHCP                                 |          |             |         |                |           |     |
| DNS Mode               | Auto                                 |          |             |         |                |           |     |
| Primary DNS Address    |                                      |          |             |         |                |           |     |
| Secondary DNS Address  |                                      |          |             |         |                |           |     |
| DHCP                   |                                      |          |             |         |                |           |     |
| DHCP Renew             | <input type="button" value="Renew"/> |          |             |         |                |           |     |
| DHCP Vendor(Option 60) | FLYINGVOICE-G801                     |          |             |         |                |           |     |

### 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.

|   |   |
|---|---|
|  | <p><b>IP Address</b>            Type the IP address</p> <p><b>Subnet Mask</b>            Type the subnet mask</p> <p><b>Gateway IP Address</b>            Type the gateway IP address</p> <p><b>Primary DNS Server</b>            Type in the primary IP address for the route</p> <p><b>Secondary DNS Server</b>            Type in secondary IP address for necessity in the future</p> |
|---|---|

## 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

| INTERNET                          |                              |
|-----------------------------------|------------------------------|
| INTERNET                          |                              |
| Connect Name                      | TR069_VOICE_INTERNET_R_VID_2 |
| Connect Mode                      | IPv4                         |
| INTERNET                          | PPPoE                        |
| DNS Mode                          | Auto                         |
| Primary DNS Address               | 192.168.20.1                 |
| Secondary DNS Address             | 8.8.8.8                      |
| PPPoE                             |                              |
| PPPoE Account                     |                              |
| PPPoE Password                    |                              |
| Confirm Password                  |                              |
| Operation Mode                    | Keep Alive                   |
| Keep Alive Redial Period(0-3600s) | 5                            |

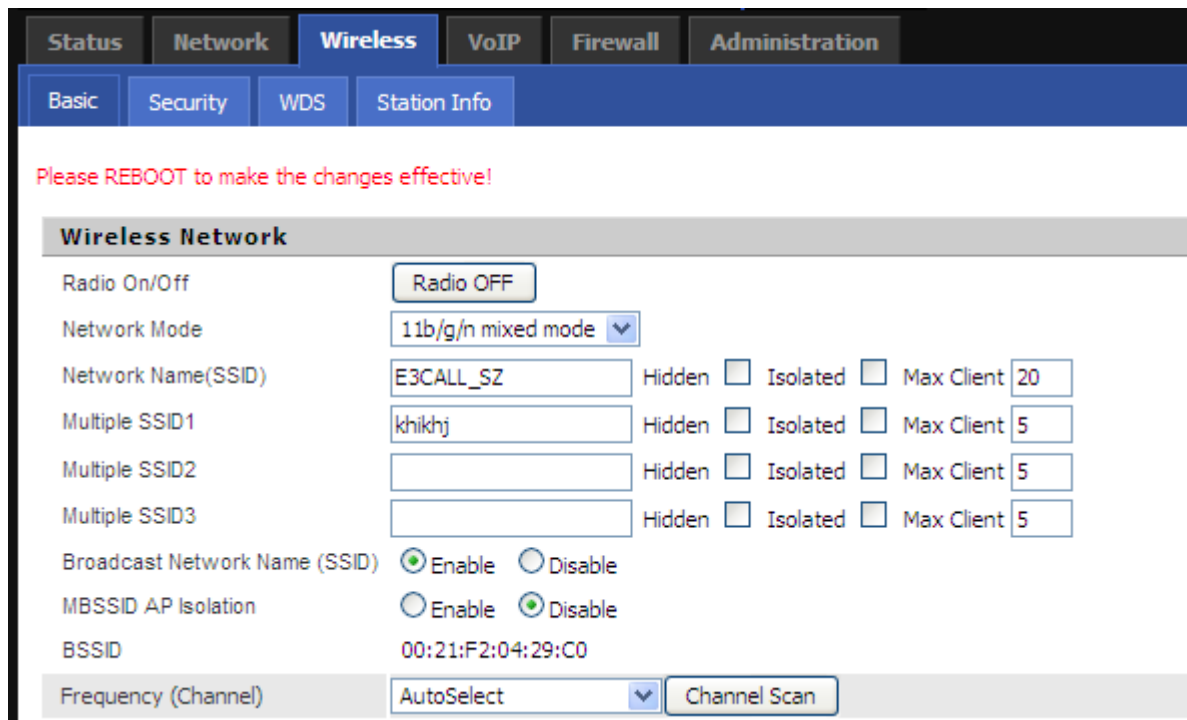


## 4.6 Setting up the Wireless Connection

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

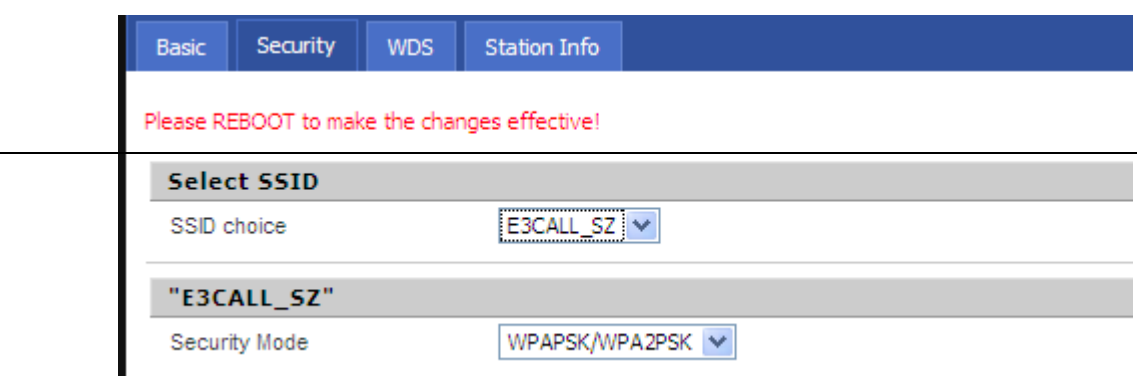
### 4.6.1 Enable Wireless and Setting SSID

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

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

### 4.6.2 Encryption

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

|  |   |
|--|---|
|  | <p><b>SSID Choice</b> Choose one SSID from Off-premises 1, off-premises 2 and Premises.</p> |
|--|---|



### 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

G801 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 G801 to the Internet properly

### 4.7.3 Configuration SIP from Webpage

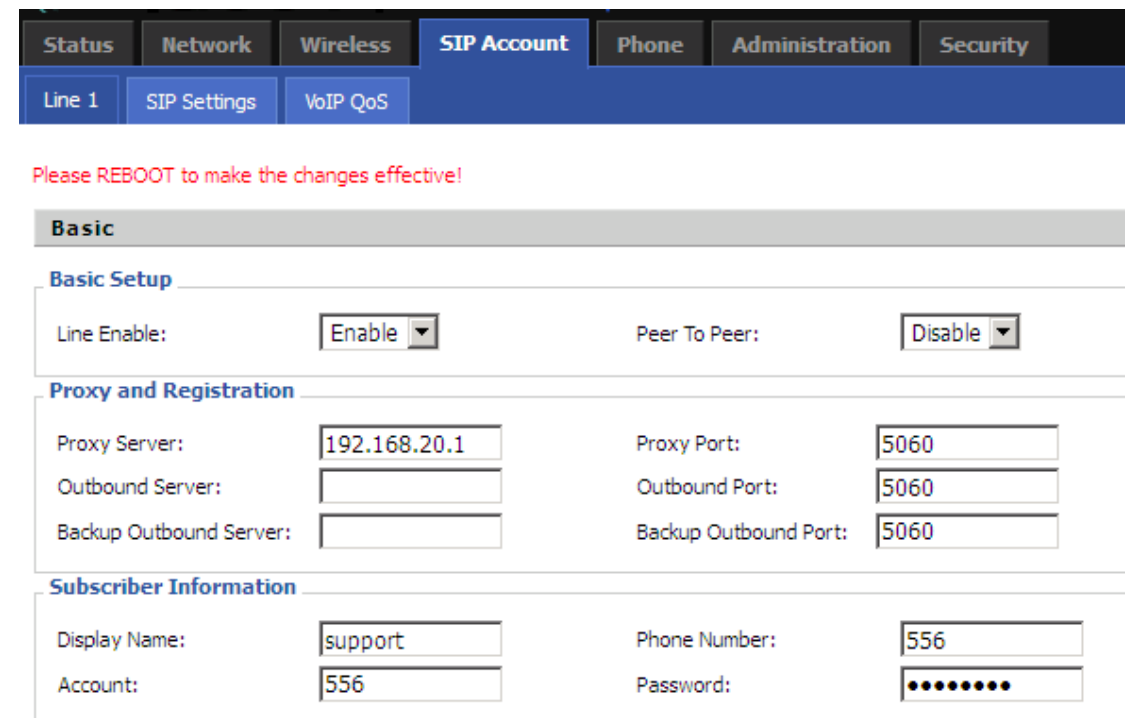
- Step 1. Open **SIP Account/Line 1** webpage, as the picture in the right side.
- Step 2. Fill the SIP Server domain and SIP Server address (which get from you administrator or provider) into Domain Name parameter, into SIP Server
- Step 3. Fill account which get from you administrator into Display 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.

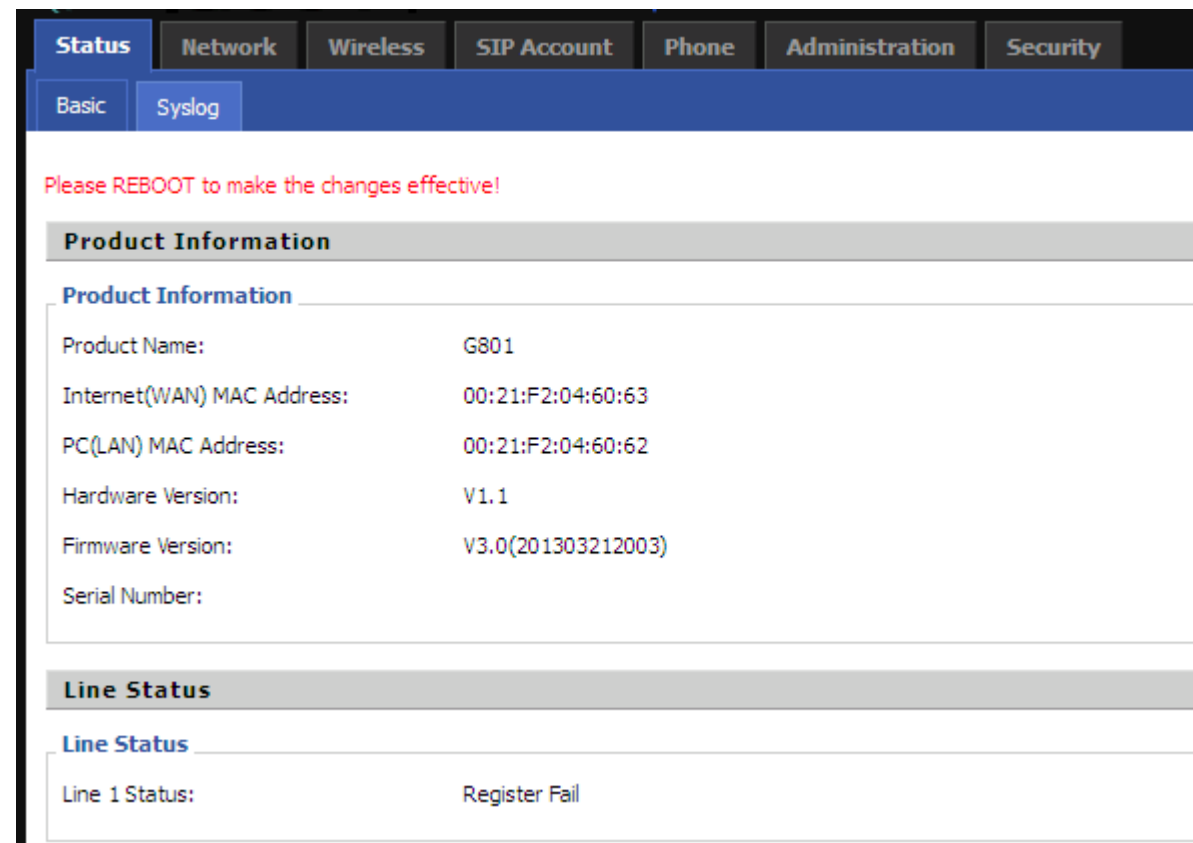
### 4.7.4 View the Register Status

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 G801 have registered normally and you can make calls.



The screenshot shows the 'SIP Account' configuration page with the following sections:

- Status** (selected), Network, Wireless, SIP Account, Phone, Administration, Security
- Line 1, SIP Settings, VoIP QoS
- Message: *Please REBOOT to make the changes effective!*
- Basic**
  - Basic Setup**
    - Line Enable:
    - Peer To Peer:
  - Proxy and Registration**
    - Proxy Server:
    - Proxy Port:
    - Outbound Server:
    - Outbound Port:
    - Backup Outbound Server:
    - Backup Outbound Port:
  - Subscriber Information**
    - Display Name:
    - Phone Number:
    - Account:
    - Password:



The screenshot shows a web interface with a navigation menu at the top containing: Status, Network, Wireless, SIP Account, Phone, Administration, and Security. Under the 'Status' menu, there are sub-tabs for 'Basic' and 'Syslog'. A red message reads: "Please REBOOT to make the changes effective!". Below this, there are two sections: 'Product Information' and 'Line Status'. The 'Product Information' section contains the following data:

|                            |                    |
|----------------------------|--------------------|
| Product Name:              | G801               |
| Internet(WAN) MAC Address: | 00:21:F2:04:60:63  |
| PC(LAN) MAC Address:       | 00:21:F2:04:60:62  |
| Hardware Version:          | V1.1               |
| Firmware Version:          | V3.0(201303212003) |
| Serial Number:             |                    |

The 'Line Status' section contains the following data:

|                |               |
|----------------|---------------|
| Line 1 Status: | Register Fail |
|----------------|---------------|

## 4.8 Make Call

### 4.8.1 Calling phone or extension numbers

To make a phone or extension number call:

- Both ATA and the other VoIP device (i.e., another ATA or other SIP products) have public IP addresses, or
- 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
- 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:

- 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.

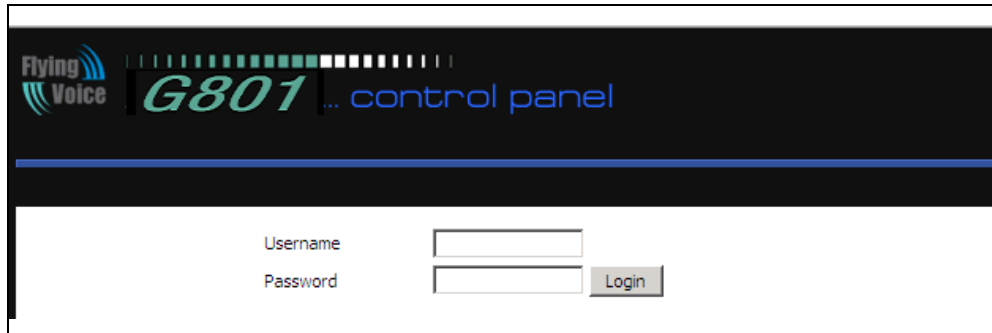
## 5 Web Configuration

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.



The screenshot shows the login page for the Flying Voice G801 control panel. The page has a dark header with the Flying Voice logo and the text "G801 ... control panel". Below the header, there are two input fields: "Username" and "Password", followed by a "Login" button.

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.



**Product Information**

|                            |                    |
|----------------------------|--------------------|
| Product Name:              | G801               |
| Internet(IAN) MAC Address: | 00:12:1F:20:490:83 |
| PC(LAN) MAC Address:       | 00:12:1F:20:490:82 |
| Hardware Version:          | V1.1               |
| Firmware Version:          | V3.0(301303212003) |
| Serial Number:             |                    |
| Loader Version:            | V2.5               |
| Tx/Rx:                     | 0                  |
| Sim Card Status:           | No SIM             |
| DNS Information:           |                    |
| DADNS Status:              | Disconnected       |

**Line Status**

|                |               |
|----------------|---------------|
| Line 1 Status: | Register Fail |
|----------------|---------------|

**Network Status**

**Internet Port Status**

|                  |                |
|------------------|----------------|
| Connection Type: | DHCP           |
| IP Address:      | 192.168.20.193 |
| Subnet Mask:     | 255.255.255.0  |
| Default Gateway: | 192.168.20.1   |
| Primary DNS:     | 202.96.134.133 |
| Secondary DNS:   | 8.8.8.8        |
| WAN Port Status: | 100Mbps Full   |

**voice vlan status**

|                  |  |
|------------------|--|
| IP Address:      |  |
| Subnet Mask:     |  |
| Default Gateway: |  |
| Primary DNS:     |  |
| Secondary DNS:   |  |

**VPN Status**

|                     |         |
|---------------------|---------|
| VPN Type:           | Disable |
| Virtual IP Address: |         |

**LAN Port Status**

|              |               |
|--------------|---------------|
| IP Address:  | 192.168.11.1  |
| Subnet Mask: | 255.255.255.0 |
| LAN1:        | Link Down     |
| LAN2:        | Link Down     |
| LAN3:        | Link Down     |
| LAN4:        | Link Down     |

**System Status**

|                |                              |
|----------------|------------------------------|
| System Status: |                              |
| Current Time:  | Fri Aug 16 18:30:14 GMT 2013 |
| Elapsed Time:  | 47 min                       |

Refresh

## 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 G801'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.

| Status                                       | Network                      | Wireless | SIP Account | Phone   | Administration | Security  |     |
|--|------------------------------|----------|-------------|---------|----------------|-----------|-----|
| WAN  | LAN                          | VPN      | DDNS        | Advance | Port Setting   | Multi WAN | QoS |
| Please REBOOT to make the changes effective! |                              |          |             |         |                |           |     |
| <b>INTERNET</b>                              |                              |          |             |         |                |           |     |
| <b>INTERNET</b>                              |                              |          |             |         |                |           |     |
| Connect Name                                 | TR069_VOICE_INTERNET_R_VID_2 |          |             |         |                |           |     |
| Connect Mode                                 | IPv4                         |          |             |         |                |           |     |
| INTERNET                                     | Static                       |          |             |         |                |           |     |
| Static                                       |                              |          |             |         |                |           |     |
| IP Address                                   | 192.168.20.193               |          |             |         |                |           |     |
| Subnet Mask                                  | 255.255.255.0                |          |             |         |                |           |     |
| Default Gateway                              | 192.168.20.1                 |          |             |         |                |           |     |
| DNS Mode                                     | Manual                       |          |             |         |                |           |     |
| Primary DNS Address                          | 192.168.20.1                 |          |             |         |                |           |     |
| Secondary DNS Address                        | 8.8.8.8                      |          |             |         |                |           |     |

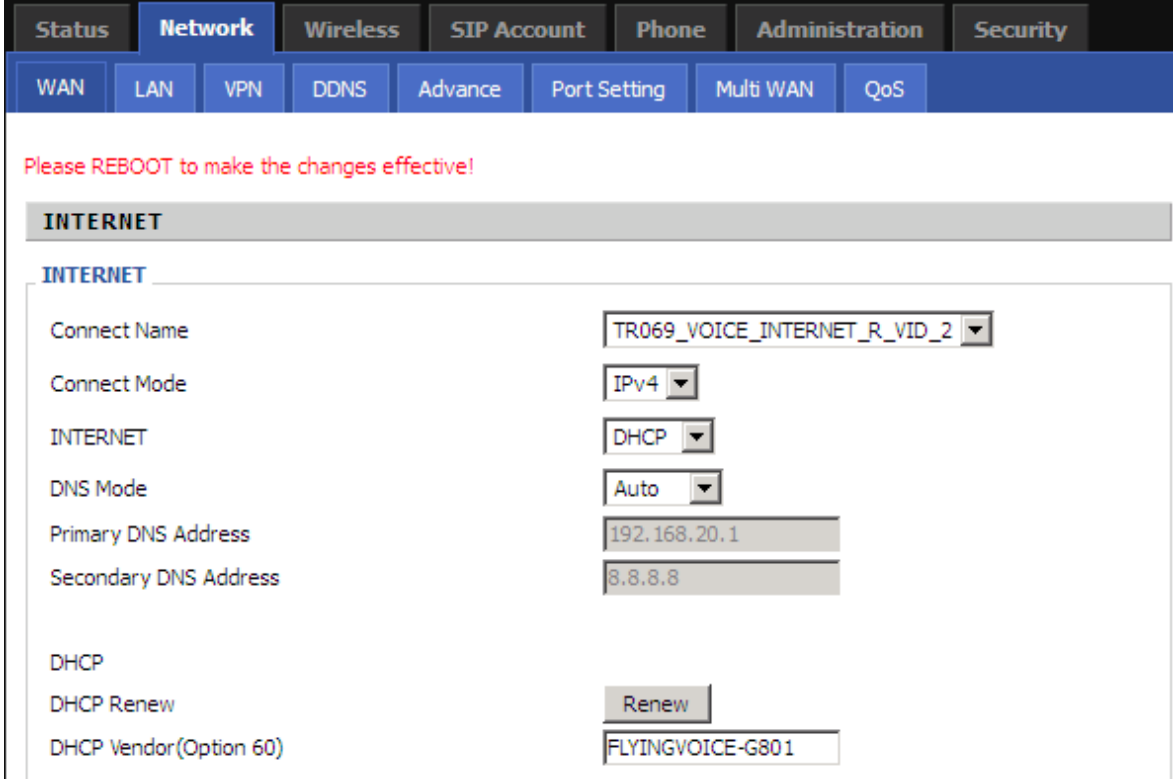
  

|                             |  |
|-----------------------------|--|
| <b>IP Address</b>           | Type the IP address                                      |
| <b>Subnet Mask</b>          | Type the subnet mask                                     |
| <b>Gateway IP</b>           | Type the gateway IP address                              |
| <b>Address</b>              |  |
| <b>Primary DNS Server</b>   | Type in the primary IP address for the route             |
| <b>Secondary DNS Server</b> | 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.

|   |  |   |
|---|--|---|
|  |  | <p><b>DNS Mode</b></p> <p>Set the DNS Mode from Auto and Manual,<br/>If user choose manual, you should fill the primary DNS address and Secondary DNS address into Primary DNS Address and Secondary DNS Address.</p> <p><b>Primary DNS Server</b></p> <p>Type in the primary IP address for the route</p> <p><b>Secondary DNS Server</b></p> <p>Type in secondary IP address for necessity in the future</p> |
|---|--|---|

## 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.

|                        |   |
|------------------------|---|
| <b>PPPoE Account</b>   | Assign a specific valid user name provided by the ISP |
| <b>PPPoE Password</b>  | Assign a valid password provided by the ISP           |
| <b>PPPoE Auto-Dial</b> | If or not enable PPPoE Password.                      |



| INTERNET                          |                              |   |
|-----------------------------------|------------------------------|---|
| INTERNET                          |                              |   |
| Connect Name                      | TR069_VOICE_INTERNET_R_VID_2 |   |
| Connect Mode                      | IPv4                         | <b>DNS Mode</b>   |
| INTERNET                          | PPPoE                        | <b>If user choose manual, you should fill the primary DNS address and Secondary DNS address into Primary DNS Address and Secondary DNS Address.</b> |
| DNS Mode                          | Auto                         |   |
| Primary DNS Address               | 192.168.20.1                 | <b>Primary DNS Server</b>   |
| Secondary DNS Address             | 8.8.8.8                      | <b>Type in the primary IP address for the route</b>   |
| PPPoE                             |                              |   |
| PPPoE Account                     |                              |   |
| PPPoE Password                    |                              |   |
| Confirm Password                  |                              |   |
| Operation Mode                    | Keep Alive                   |   |
| Keep Alive Redial Period(0-3600s) | 5                            | <b>Secondary DNS Server</b>   |
|                                   |                              | <b>Type in secondary IP address for necessity in the future</b>   |

## DDNS Setting

|                      |            |                      |  |
|----------------------|------------|----------------------|--|
| <b>DDNS Settings</b> |            | <b>DDNS Provider</b> | <b>Use the drop down list to select one DDNS Provider domain</b> |
| DDNS Provider        | dyndns.org | <b>DDNS Account</b>  | <b>Fill in the DDNS account.</b>                                 |
| DDNS Account         |            | <b>DDNS Password</b> | <b>Fill in the DDNS Password.</b>                                |
| DDNS Password        |            | <b>DDNS Name</b>     | <b>Fill in the DDNS name.</b>                                    |
| 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.

|   |  |   |
|---|--|---|
| <p><b>PC Port(LAN)</b></p> <p>PC Port(LAN)</p> <p>Local IP Address: 192.168.1.1</p> <p>Local Subnet Mask: 255.255.255.0</p> <p>Local DHCP Server: Enable</p> <p>DHCP Start Address: 192.168.1.2</p> <p>DHCP End Address: 192.168.1.254</p> <p>DNS Mode: Auto</p> <p>Primary DNS: 202.96.134.133</p> <p>Secondary DNS: 8.8.8.8</p> <p>Client Lease Time(0-86400s): 86400</p> <p>DNS Proxy: Disable</p> |  | <p><b>Local IP Address</b></p> <p>Type in local IP address for connecting to a local private network (Default: 192.168.1.1)</p> <p><b>Local Subnet Mask</b></p> <p>Type in an address code that determines the size of the network. (Default: 255.255.255.0/ 24)</p> <p><b>Local DHCP Server</b></p> <p>If or not enable DHCP server.</p> |
|---|--|---|

### DHCP Server:

Router has a built-in DHCP server that assigns private IP address to each local host.

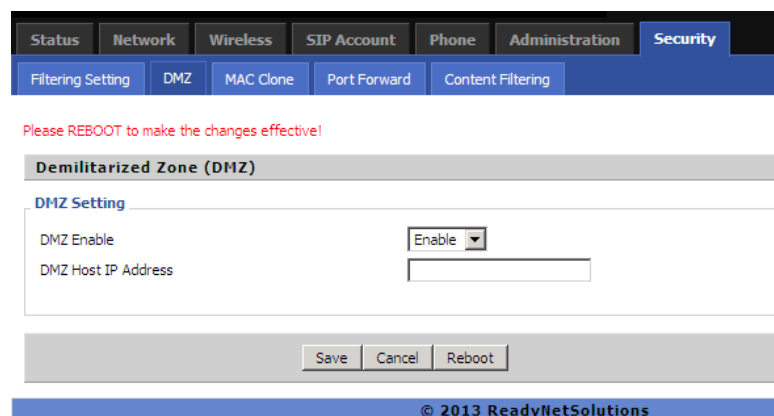
DHCP stands for Dynamic Host Configuration Protocol. The router by factory default acts a DHCP server for your network so it automatically dispatch related IP settings to any local user configured as a DHCP client. It is highly recommended that you leave the router enabled as a DHCP server if you do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

|   |  |  |
|---|--|--|
| <p>Local IP Address: 192.168.11.1</p> <p>Local Subnet Mask: 255.255.255.0</p> <p>Local DHCP Server: Enable</p> <p>DHCP Start Address: 192.168.11.2</p> <p>DHCP End Address: 192.168.11.254</p> <p>DNS Mode: Auto</p> <p>Primary DNS: 192.168.11.1</p> <p>Secondary DNS:</p> <p>Client Lease Time (0-86400s): 86400</p> <p>DNS Proxy: Enable</p> |  | <p><b>Local DHCP Server</b></p> <p>If or not enable DHCP server.</p> <p><b>DHCP Starting Address</b></p> <p>Enter a value of the IP address pool for the DHCP server to start with when issuing IP addresses. If the LAN Interface IP</p> <p><b>DHCP Ending Address</b></p> <p>Enter a value of the IP address pool for the DHCP server to end with when issuing IP addresses.</p> <p><b>Primary/Secondary DNS</b></p> <p>Input the primary or secondary DNS IP address.</p> |
|---|--|--|

|  |                                 |   |
|--|---------------------------------|---|
| <p>Primary DNS <input type="text" value="192.168.11.1"/></p> <p>Secondary DNS <input type="text"/></p> <p>Client Lease Time (0-86400s) <input type="text" value="86400"/></p> <p>DNS Proxy <input type="button" value="Enable"/></p> | <p><b>Primary DNS</b></p>       | <p>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.</p>  |
|  | <p><b>Secondary DNS</b></p>     | <p>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.</p> <p>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.</p> |
|  | <p><b>Client Lease Time</b></p> | <p>It allows you to set the leased time for the specified PC.</p>   |

### 5.3.3 DMZ/Port Forward

#### DMZ



The screenshot shows a router configuration page with a navigation bar at the top containing 'Status', 'Network', 'Wireless', 'SIP Account', 'Phone', 'Administration', and 'Security'. Under 'Security', there are sub-tabs for 'Filtering Setting', 'DMZ', 'MAC Clone', 'Port Forward', and 'Content Filtering'. A red message reads 'Please REBOOT to make the changes effective!'. The 'Demilitarized Zone (DMZ)' section is expanded, showing 'DMZ Setting' with 'DMZ Enable' set to 'Enable' and an empty 'DMZ Host IP Address' field. At the bottom are 'Save', 'Cancel', and 'Reboot' buttons. A footer shows '© 2013 ReadyNetSolutions'.

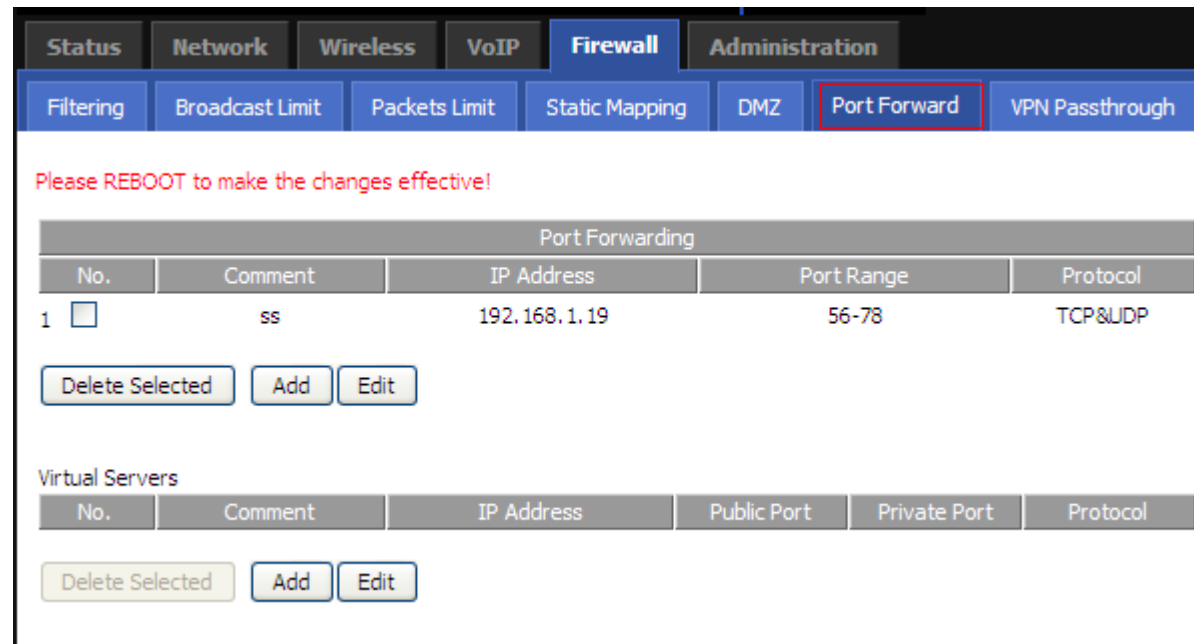
**DMZ Enable**

If or not enable DMZ.

**DMZ Host IP Address**

Enter the private IP address of the DMZ host

#### Port Forward



Please REBOOT to make the changes effective!

| Port Forwarding |         |              |            |          |
|-----------------|---------|--------------|------------|----------|
| No.             | Comment | IP Address   | Port Range | Protocol |
| 1               | ss      | 192.168.1.19 | 56-78      | TCP&UDP  |

Delete Selected Add Edit

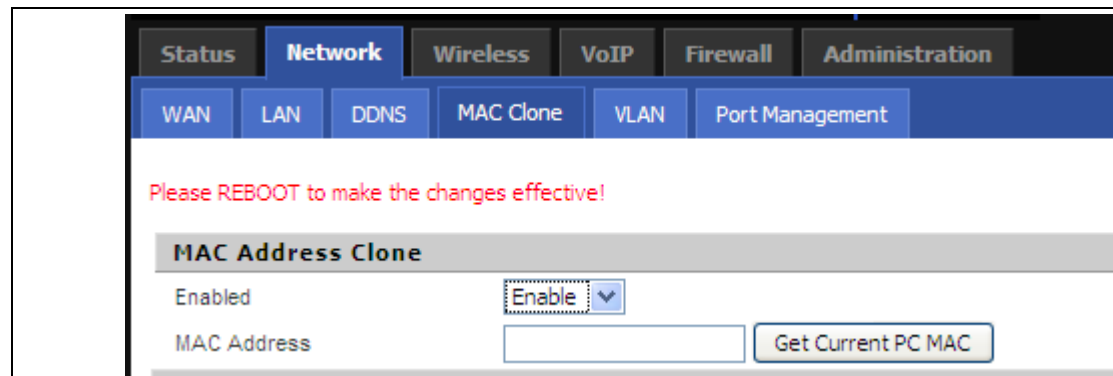
Virtual Servers

| No. | Comment | IP Address | Public Port | Private Port | Protocol |
|-----|---------|------------|-------------|--------------|----------|
|-----|---------|------------|-------------|--------------|----------|

Delete Selected Add Edit

### 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.



Please REBOOT to make the changes effective!

**MAC Address Clone**

Enabled

MAC Address

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

Step 2. Press  button to save the changes

Step 3. Press  button to make changes effective

## 5.3.5 Multi WAN

**Status** **Network** Wireless SIP Account Phone Administration Security

WAN LAN VPN DDNS Advanced Port Settings Multi WAN QoS

Please REBOOT to make the changes effective!

| Index | Name                               | VLAN ID | 802.1p | Operation   |
|-------|------------------------------------|---------|--------|-------------|
| 1     | 1_TR069_VOICE_INTERNET_R<br>_VID_2 | 2       | 0      | Edit Delete |

Add

Save Cancel Reboot

**Status** **Network** Wireless SIP Account Phone Administration Security

WAN LAN VPN DDNS Advanced Port Settings Multi WAN QoS

Please REBOOT to make the changes effective!

| Index | Name                               | VLAN ID | 802.1p | Operation   |
|-------|------------------------------------|---------|--------|-------------|
| 1     | 1_TR069_VOICE_INTERNET_R<br>_VID_2 | 2       | 0      | Edit Delete |

VLAN ID:

802.1p:

Bridge Mode:

Service:

Take VLAN tag:

Save Cancel Reboot

## 5.4 Wireless

### 5.4.1 Basic

| Basic Wireless Settings   |  |
|---|--|
| <b>Wireless Network</b>   |  |
| Radio On/Off  | Radio On <input type="button" value="v"/>  |
| Network Mode  | 11b/g/n mixed mode <input type="button" value="v"/>                                    |
| SSID  | VWRT510131028 Hidden <input type="checkbox"/> Isolated <input type="checkbox"/>        |
| Multiple SSID1  | <input type="text"/> Hidden <input type="checkbox"/> Isolated <input type="checkbox"/> |
| Multiple SSID2  | <input type="text"/> Hidden <input type="checkbox"/> Isolated <input type="checkbox"/> |
| Multiple SSID3  | <input type="text"/> Hidden <input type="checkbox"/> Isolated <input type="checkbox"/> |
| broadcast (SSID)  | <input checked="" type="radio"/> Enable <input type="radio"/> Disable                  |
| AP Isolation  | <input type="radio"/> Enable <input checked="" type="radio"/> Disable                  |
| MBSSID AP Isolation   | <input type="radio"/> Enable <input checked="" type="radio"/> Disable                  |
| BSSID   | 00:01:9F:13:10:28  |
| Frequency (Channel)   | AutoSelect <input type="button" value="v"/>  |
| HT Physical Mode  |  |
| Operating Mode  | <input checked="" type="radio"/> Mixed Mode <input type="radio"/> Green Field          |
| Channel BandWidth   | <input type="radio"/> 20 <input checked="" type="radio"/> 20/40                        |
| Guard Interval  | <input type="radio"/> long <input checked="" type="radio"/> Auto                       |
| MCS   | Auto <input type="button" value="v"/>  |
| Reverse Direction Grant (RDG)   | <input type="radio"/> Disable <input checked="" type="radio"/> Enable                  |
| STBC  | <input type="radio"/> Disable <input checked="" type="radio"/> Enable                  |
| Aggregation MSDU (A-MSDU)   | <input checked="" type="radio"/> Disable <input type="radio"/> Enable                  |
| Auto Block ACK  | <input type="radio"/> Disable <input checked="" type="radio"/> Enable                  |
| Decline BA Request  | <input checked="" type="radio"/> Disable <input type="radio"/> Enable                  |
| HT Disallow TKIP  | <input type="radio"/> Disable <input checked="" type="radio"/> Enable                  |
| Other   |  |
| HT TxStream   | 2 <input type="button" value="v"/>   |
| HT RxStream   | 2 <input type="button" value="v"/>   |
| <input type="button" value="Save"/> <input type="button" value="Cancel"/> <input type="button" value="Reboot"/> |  |

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

## 5.4.2 Security

| WIFI Security Setting |   |
|-----------------------|---|
| <b>Select SSID</b>    |   |
| SSID choice           | Wireless_AP-NRHF <input type="button" value="v"/> |
| "Wireless_AP-NRHF"    |   |
| Security Mode         | WPA-PSK <input type="button" value="v"/>          |

|                    |   |
|--------------------|---|
| <b>SSID Choice</b> | 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

Status Network Wireless SIP Account Phone Administration Security

Basic Wireless Security WMM WPS Station Info

Please REBOOT to make the changes effective!

| WMM Parameters of Access Point |                                |                                 |                                   |                                 |                          |                          |
|--------------------------------|--------------------------------|---------------------------------|-----------------------------------|---------------------------------|--------------------------|--------------------------|
|                                | Aifsn                          | CWMin                           | CWMax                             | Txop                            | ACM                      | ACK Policy               |
| AC_BE                          | <input type="text" value="3"/> | <input type="text" value="15"/> | <input type="text" value="63"/>   | <input type="text" value="0"/>  | <input type="checkbox"/> | <input type="checkbox"/> |
| AC_BK                          | <input type="text" value="7"/> | <input type="text" value="15"/> | <input type="text" value="1023"/> | <input type="text" value="0"/>  | <input type="checkbox"/> | <input type="checkbox"/> |
| AC_VI                          | <input type="text" value="1"/> | <input type="text" value="7"/>  | <input type="text" value="15"/>   | <input type="text" value="94"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| AC_VO                          | <input type="text" value="1"/> | <input type="text" value="3"/>  | <input type="text" value="7"/>    | <input type="text" value="47"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| WMM Parameters of Station |                                |                                 |                                   |                                 |                          |
|---------------------------|--------------------------------|---------------------------------|-----------------------------------|---------------------------------|--------------------------|
|                           | Aifsn                          | CWMin                           | CWMax                             | Txop                            | ACM                      |
| AC_BE                     | <input type="text" value="3"/> | <input type="text" value="15"/> | <input type="text" value="1023"/> | <input type="text" value="0"/>  | <input type="checkbox"/> |
| AC_BK                     | <input type="text" value="7"/> | <input type="text" value="15"/> | <input type="text" value="1023"/> | <input type="text" value="0"/>  | <input type="checkbox"/> |
| AC_VI                     | <input type="text" value="2"/> | <input type="text" value="7"/>  | <input type="text" value="15"/>   | <input type="text" value="94"/> | <input type="checkbox"/> |
| AC_VO                     | <input type="text" value="2"/> | <input type="text" value="3"/>  | <input type="text" value="7"/>    | <input type="text" value="47"/> | <input type="checkbox"/> |

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## 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.



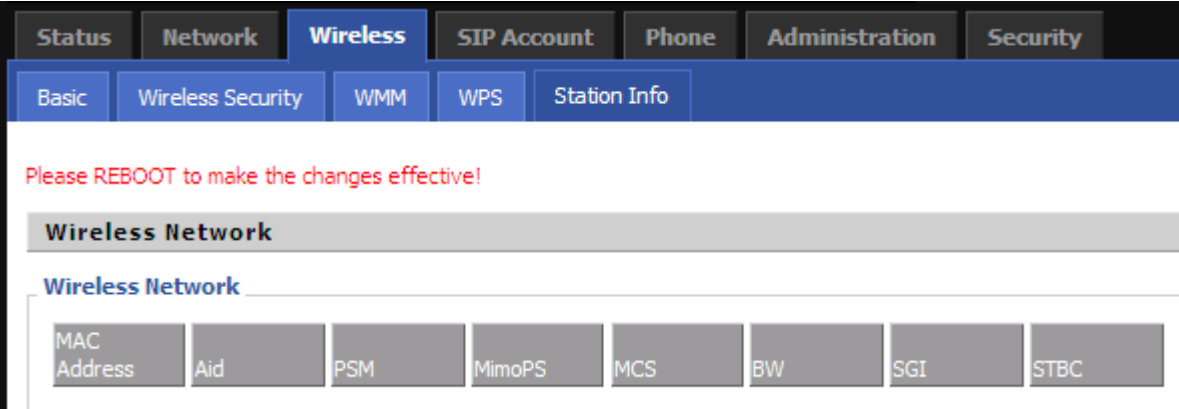
The screenshot shows the 'WPS' configuration page. At the top, there are navigation tabs: Status, Network, **Wireless**, SIP Account, Phone, Administration, and Security. Under 'Wireless', there are sub-tabs: Basic, Wireless Security, WMM, **WPS**, and Station Info. A red message says 'Please REBOOT to make the changes effective!'. Below that is a 'WPS Setting' section with a grey bar. The 'WPS Config' section has a dropdown menu set to 'Enable' and an 'Apply' button.

**WPS**

If or not enable WPS.

Press the button to apply.

## 5.4.5 Station list



The screenshot shows the 'Station list' page. It has the same navigation structure as the previous page. The 'Wireless Network' section is highlighted. Below it, there is a table with the following columns: MAC Address, Aid, PSM, MimoPS, MCS, BW, SGI, and STBC.

| MAC Address | Aid | PSM | MimoPS | MCS | BW | SGI | STBC |
|-------------|-----|-----|--------|-----|----|-----|------|
|             |     |     |        |     |    |     |      |



## 5.4.6 Advanced

| Advanced Wireless              |  |
|--------------------------------|--|
| <b>Advanced Wireless</b>       |  |
| BG Protection Mode             | Auto   |
| Beacon Interval                | 100 ms (range 20 - 999, default 100)   |
| Data Beacon Rate (DTIM)        | 3 ms (range 1 - 255, default 3)  |
| Fragment Threshold             | 2346 (range 256 - 2346, default 2346)  |
| RTS Threshold                  | 2347 (range 1 - 2347, default 2347)  |
| TX Power                       | 100 (range 1 - 100, default 100)   |
| Short Preamble                 | <input checked="" type="radio"/> Enable <input type="radio"/> Disable                  |
| Short Slot                     | <input checked="" type="radio"/> Enable <input type="radio"/> Disable                  |
| Tx Burst                       | <input checked="" type="radio"/> Enable <input type="radio"/> Disable                  |
| Pkt Aggregate                  | <input checked="" type="radio"/> Enable <input type="radio"/> Disable                  |
| IEEE 802.11H Support           | <input type="radio"/> Enable <input checked="" type="radio"/> Disable (only in A band) |
| Wi-Fi Multimedia               |  |
| WMM Capable                    | <input checked="" type="radio"/> Enable <input type="radio"/> Disable                  |
| APSD Capable                   | <input type="radio"/> Enable <input checked="" type="radio"/> Disable                  |
| WMM Parameters                 | WMM Configuration  |
| Multicast-to-Unicast Converter |  |
| Multicast-to-Unicast           | <input type="radio"/> Enable <input checked="" type="radio"/> Disable                  |

## 5.5 SIP Account

### 5.5.1 SIP Settings

|        |              |          |                    |       |                |          |
|--------|--------------|----------|--------------------|-------|----------------|----------|
| Status | Network      | Wireless | <b>SIP Account</b> | Phone | Administration | Security |
| Line 1 | SIP Settings | VoIP QoS |                    |       |                |          |

Please REBOOT to make the changes effective!

**SIP Parameters**

SIP Parameters

|                          |                                      |    |                          |                                     |
|--------------------------|--------------------------------------|----|--------------------------|-------------------------------------|
| SIP T 1:                 | <input type="text" value="500"/>     | MS | Max Forward:             | <input type="text" value="70"/>     |
| SIP Reg User Agent Name: | <input type="text"/>                 |    | Max Auth:                | <input type="text" value="2"/>      |
| Mark All AVT Packets:    | <input type="text" value="Enable"/>  |    | RFC 2543 Call Hold:      | <input type="text" value="Enable"/> |
| SRTP:                    | <input type="text" value="Disable"/> |    | SRTP Prefer Encryption : | <input type="text" value="AES_CM"/> |
| Service Type:            | <input type="text" value="Common"/>  |    |                          |                                     |

**NAT Traversal**

NAT Traversal

|                             |                                      |                      |                                   |
|-----------------------------|--------------------------------------|----------------------|-----------------------------------|
| NAT Traversal:              | <input type="text" value="Disable"/> | STUN Server Address: | <input type="text"/>              |
| NAT Refresh Interval (sec): | <input type="text" value="60"/>      | STUN Server Port:    | <input type="text" value="3478"/> |

## 5.5.2 Line 1

[Status](#) | [Network](#) | [Wireless](#) | **SIP Account** | [Phone](#) | [Administration](#) | [Security](#)

LINE 1 | SIP Settings | VoIP QoS

**Please REBOOT to make the changes effective!**

[Help](#)

---

**Basic**

**Basic Setup**

Line Enable:  Disable Peer To Peer:  Disable

**Proxy and Registration**

Proxy Server: 192.168.20.1 Proxy Port: 5060  
 Outbound Server: Outbound Port: 5060  
 Backup Outbound Server: Backup Outbound Port: 5060

**Subscriber Information**

Display Name: support Phone Number: 0002  
 Account: 0002 Password: \*\*\*\*\*

**Audio Configuration**

**Codec Setup**

Audio Codec Type 1: G.711A Audio Codec Type 2: G.711A  
 Audio Codec Type 3: G.711A Audio Codec Type 4: G.711A  
 Audio Codec Type 5: G.711A G.723 Coding Speed: 5.3k bps  
 Packet Cycle (ms): 10ms Silence Supp: Disable  
 Echo Cancell: Disable  
 T.38 Enable: Disable T.38 Redundancy: Disable  
 T.38 CHG Detect Enable: Disable

**Supplementary Service Subscription**

**Supplementary Services**

Call Waiting:  Disable Not Line:   
 Mail Enable:  Disable Voice Mailbox Number:   
 DND:  Disable

**Advanced**

**Advanced Setup**

Domain Name Type:  Disable Carry Port Information:  Disable  
 Sign Port: 5060 DTMF Type: Inband  
 RFC2833 Payload (+95): 10 Register Refresh Interval (s): 3600  
 RTP Port: 0 Cancel Message Enable:  Disable  
 Session Refresh Time (sec): 0 Refresh: SBC  
 Prack Enable:  Disable SIP OPTIONS Enable:  Disable  
 Primary SIP Detect Interval: 0 Max Detect Fail Count: 0  
 Keep-alive Interval (30-60 s): 15 Anonymous Call:  Disable  
 Anonymous Call Block:  Disable Proxy DNS Types: A Type  
 Use OS Proxy In Dns:  Disable UPN:  Disable  
 Reg Subscribe Enable:  Disable User Type: IP  
 Dial Prefix: Request-URI User Check:  Disable  
 Hold Method: RAB/ITE  
 Only Recv Request From Server:  Disable Server Address:

Save Cancel Reboot

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## 5.5.3 VOIP QoS Setting

| Status                                       | Network      | Wireless | SIP Account                    | Phone | Administration | Security |
|--|--------------|----------|--------------------------------|-------|----------------|----------|
| Line 1                                       | SIP Settings | VoIP QoS |                                |       |                |          |
| Please REBOOT to make the changes effective! |              |          |                                |       |                |          |
| <b>QoS Settings</b>                          |              |          |                                |       |                |          |
| <b>Layer 3 QoS</b>                           |              |          |                                |       |                |          |
| SIP QoS(0-63)                                |              |          | <input type="text" value="0"/> |       |                |          |
| RTP QoS(0-63)                                |              |          | <input type="text" value="0"/> |       |                |          |
| Data QoS(0-63)                               |              |          | <input type="text" value="0"/> |       |                |          |

## 5.6 Phone

### 5.6.1 Preferences

| Status                                       | Network                               | Wireless  | SIP Account            | Phone                            | Administration | Security |
|--|---------------------------------------|-----------|------------------------|----------------------------------|----------------|----------|
| Preferences                                  | Dial Plan                             | Phonebook | Call Log               |                                  |                |          |
| Please REBOOT to make the changes effective! |                                       |           |                        |                                  |                |          |
| <b>Preferences</b>                           |                                       |           |                        |                                  |                |          |
| <b>Volume Settings</b>                       |                                       |           |                        |                                  |                |          |
| Handset Input Gain:                          | <input type="text" value="5"/>        |           | Handset Volume:        | <input type="text" value="5"/>   |                |          |
| <b>Regional</b>                              |                                       |           |                        |                                  |                |          |
| Tone Type:                                   | <input type="text" value="USA"/>      |           |                        |                                  |                |          |
| Dial Tone:                                   |                                       |           | <input type="text"/>   |                                  |                |          |
| Busy Tone:                                   |                                       |           | <input type="text"/>   |                                  |                |          |
| Off Hook Warning Tone:                       |                                       |           | <input type="text"/>   |                                  |                |          |
| Ring Back Tone:                              |                                       |           | <input type="text"/>   |                                  |                |          |
| Call Waiting Tone:                           |                                       |           | <input type="text"/>   |                                  |                |          |
| Min Jitter Delay(ms):                        | <input type="text" value="0"/>        |           | Max Jitter Delay(ms):  | <input type="text" value="80"/>  |                |          |
| Ringing Time(Sec):                           | <input type="text" value="60"/>       |           |                        |                                  |                |          |
| Regional Ring Waveform:                      | <input type="text" value="Sinusoid"/> |           | Regional Ring Voltage: | <input type="text" value="70"/>  |                |          |
| Regional Ring Frequency:                     | <input type="text" value="25"/>       |           |                        |                                  |                |          |
| Flash Time Max                               | <input type="text" value="0.9"/>      |           | Flash Time Min         | <input type="text" value="0.1"/> |                |          |

**Features**

All Forward:  Busy Forward:   
 No Answer Forward:

**Call Forward**

All Forward:  Busy Forward:   
 No Answer Forward:  No Answer Timeout:

**Feature Code**

Hold Key Code:  Conference Key Code:   
 Transfer Key Code:  IVR Key Code:   
 R Key Enable:  R Key Cancel Code:   
 R Key Hold Code:  R Key Transfer Code:   
 R Key Conference Code:

**Miscellaneous**

Codec Loop Current:  Impedance Matching:   
 CID Service:  CWCID Service:   
 Dial Time Out(IDT):  Call Immediately Key:   
 ICMP Ping:  Escaped char enable:

## 5.6.2 Dial Plan

Status Network Wireless SIP Account **Phone** Administration Security

Preferences Dial Plan Phonebook Call Log

Please REBOOT to make the changes effective!

**Dial Plan**

**General**

Dial Plan:

| No. | Line  | Digit Map | Action   | Move Up | Move Down |   |
|-----|-------|-----------|----------|---------|-----------|---|
| 1   | Line1 | 8,xxx     | Dial Out | ▲       | ▼         | ☐ |

Line:   
 Digit Map:   
 Action:

## 5.6.3 Phonebook

**Phonebook Upload && Download**

**Phonebook Upload && Download**

Local File:  浏览...

upload CSV download CSV

**Blacklist Upload && Download**

**Blacklist Upload && Download**

Local File:  浏览...

upload CSV download CSV

**Phonebook**

| Index | Name | Number | Ring |  |
|-------|------|--------|------|--|
|-------|------|--------|------|--|

Edit Add Delete Move to blacklist

**Blacklist**

## 5.6.4 Call Log

| Redial List |        |             |          |                          |
|-------------|--------|-------------|----------|--------------------------|
| Index       | NUMBER | Start Time  | Duration | <input type="checkbox"/> |
| 1           | 501    | 08/13 09:13 | 00:00:01 | <input type="checkbox"/> |
| 2           | 550    | 08/13 15:56 | 00:00:03 | <input type="checkbox"/> |
| 3           | 550    | 08/13 16:00 | 00:00:07 | <input type="checkbox"/> |
| 4           | 1001   | 08/13 16:12 | 00:00:01 | <input type="checkbox"/> |
| 5           | 550    | 08/13 16:12 | 00:00:08 | <input type="checkbox"/> |
| 6           | 550    | 08/13 16:16 | 00:00:10 | <input type="checkbox"/> |
| 7           | 550    | 08/13 16:32 | 00:00:56 | <input type="checkbox"/> |
| 8           | 550    | 08/13 16:38 | 00:00:22 | <input type="checkbox"/> |
| 9           | 550    | 08/13 17:06 | 00:00:22 | <input type="checkbox"/> |
| 10          | 550    | 08/13 17:07 | 00:01:01 | <input type="checkbox"/> |
| ..          | ...    | ..          | ..       | <input type="checkbox"/> |

| Answered Calls |              |             |          |                          |
|----------------|--------------|-------------|----------|--------------------------|
| Index          | NUMBER       | Start Time  | Duration | <input type="checkbox"/> |
| 1              | 501          | 08/13 09:13 | 00:00:15 | <input type="checkbox"/> |
| 2              | 015910695671 | 08/13 09:58 | 00:03:44 | <input type="checkbox"/> |

## 5.7 Security

### 5.7.1 Filtering Setting

**Basic Settings**

**Basic Settings**

MAC/IP/Port Filtering Disable ▾

Default Policy Drop ▾

The packet that don't match with any rules would be:

**IP/Port Filter Settings**

Mac address

Dest IP Address

Source IP Address

Protocol NONE ▾

Dest. Port Range  -

Src Port Range  -

Action Drop ▾

Comment

(The maximum rule count is 32.)

**Current MAC/IP/Port filtering rules in system**

| #                        | Mac address | Dest IP Address | Source IP Address | Protocol | Dest. Port Range | Src Port Range | Action | Comment | PktCnt |
|--------------------------|-------------|-----------------|-------------------|----------|------------------|----------------|--------|---------|--------|
| Others would be dropped. |             |                 |                   |          |                  |                |        |         |        |



## 5.7.2 DMZ

|                   |         |           |              |                   |                |          |
|-------------------|---------|-----------|--------------|-------------------|----------------|----------|
| Status            | Network | Wireless  | SIP Account  | Phone             | Administration | Security |
| Filtering Setting | DMZ     | MAC Clone | Port Forward | Content Filtering |                |          |

Please REBOOT to make the changes effective!

### Demilitarized Zone (DMZ)

**DMZ Setting**

|                     |                      |
|---------------------|----------------------|
| DMZ Enable          | Enable               |
| DMZ Host IP Address | <input type="text"/> |

## 5.7.3 MAC Clone

### MAC Address Clone

**MAC Address Clone**

|                   |  |
|-------------------|--|
| MAC Address Clone | Enable   |
| MAC Address       | <input type="text"/> <input type="button" value="Get Current PC MAC"/> |

## 5.7.4 Port Forward

| Status            | Network | Wireless  | SIP Account  | Phone             | Administration | Security |
|-------------------|---------|-----------|--------------|-------------------|----------------|----------|
| Filtering Setting | DMZ     | MAC Clone | Port Forward | Content Filtering |                |          |

Please REBOOT to make the changes effective!

| Port Forwarding            |         |               |            |          |
|----------------------------|---------|---------------|------------|----------|
| No.                        | Comment | IP Address    | Port Range | Protocol |
| 1 <input type="checkbox"/> | ss      | 192.168.11.19 | 56-78      | TCP&UDP  |

Delete Selected Add Edit

Virtual Servers

| No. | Comment | IP Address | Public Port | Private Port | Protocol |
|-----|---------|------------|-------------|--------------|----------|
|-----|---------|------------|-------------|--------------|----------|

Delete Selected Add Edit

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## 5.7.5 Content Filtering

### Webs URL Filter Settings

**Current Webs URL Filters:**

| No. | URL |
|-----|-----|
|     |     |

**Add a URL Filter:**

URL:

### Webs Host Filter Settings

**Current Website Host Filters:**

| No. | Host(Keyword) |
|-----|---------------|
|     |               |

**Add a Host (keyword) Filter:**

Keyword:

## 5.8 Administration

### 5.8.1 General

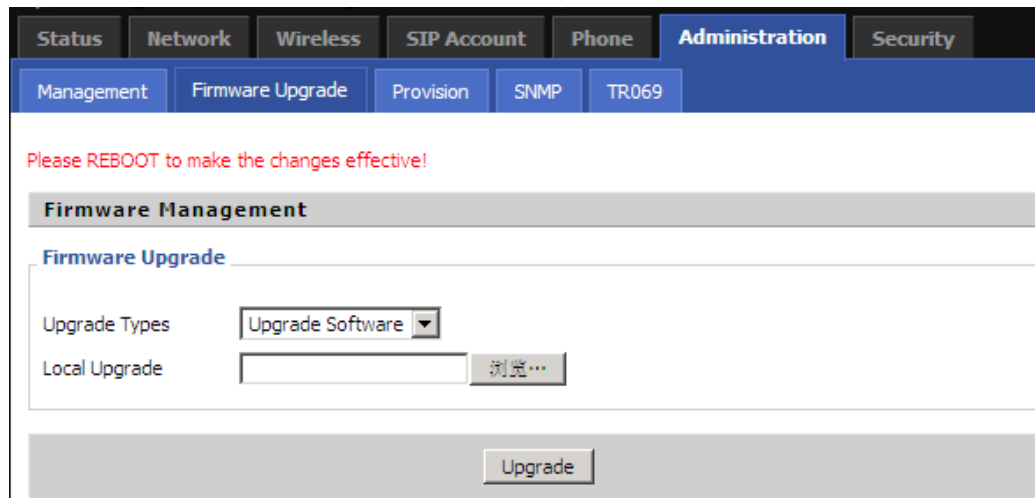


The screenshot displays the 'Administration' page of the Flying Voice web interface. The page is organized into several sections:

- Save Config File:** Contains two sections for saving configurations. The first is 'Locally File Upload & Download' with a 'Local File' input field and 'Upload' and 'Download' buttons. The second is 'Web Logo File Upload' with a 'Local File' input field and an 'Upload' button.
- Administrator Settings:** Includes 'Password Reset' with fields for 'User Name', 'New User Name', 'New Password', and 'Confirm Password'. It also has a 'Language' dropdown set to 'English'.
- Web Access:** Features a 'Remote Web Login' dropdown set to 'Disable', and 'Web Port' and 'Web Site Timeout (0-60s)' input fields.
- NTP Settings:** Contains 'NTP Enable' (checked), 'Current Time' (Fri Aug 16 10:33:42 GMT 2013), 'NTP Settings' (GMT+1:00:00:Malaya Island, Sereik), 'Primary NTP Server' (888.888.888), 'Secondary NTP Server' (87.255.100.org), and 'NTP Authentication (0-1440s)' (0).
- Daylight Saving Time:** Includes 'Daylight Saving Time' (checked), 'Offset' (00 min.), and various dropdowns for 'Start Month', 'Start Day of Week', 'Start Day of Week Last in Month', 'Start Hour of Day', 'Stop Month', 'Stop Day of Week', 'Stop Day of Week Last in Month', and 'Stop Hour of Day'.
- System Log Setting:** Features 'Syslog Setting' (checked), 'Syslog Level' (INFO), 'Remote Syslog Enable' (checked), and 'Remote Syslog Server'.
- SNMP Set:** Includes 'SNMP Set' (checked), 'Primary SNMP IP Address', 'Port Number', 'Secondary SNMP IP Address', 'Port Number', and 'Trap On/Off'.
- Packet Trace:** Contains 'Packet Trace' and 'Packet Trace' buttons.

At the bottom of the page, there are 'Save', 'Cancel', and 'Reset' buttons.

## 5.8.2 Firmware Upgrade



The screenshot shows a web interface for firmware management. At the top, there are navigation tabs: Status, Network, Wireless, SIP Account, Phone, Administration (selected), and Security. Below these are sub-tabs: Management, Firmware Upgrade (selected), Provision, SNMP, and TR069. A red message reads: "Please REBOOT to make the changes effective!". The main section is titled "Firmware Management" and contains a "Firmware Upgrade" section. It features a dropdown menu for "Upgrade Types" set to "Upgrade Software", a "Local Upgrade" input field, and a "浏览..." (Browse...) button. At the bottom of the section is an "Upgrade" button.

- 1) Choose upgrade file type from **Image File** and **Dial Rule**
- 2) Press  to browser file.
- 3) Press  to start upgrading.

## 5.8.3 Provision

Please refer to the provision user manual to test provision.

|            |                  |           |             |       |                       |          |
|------------|------------------|-----------|-------------|-------|-----------------------|----------|
| Status     | Network          | Wireless  | SIP Account | Phone | <b>Administration</b> | Security |
| Management | Firmware Upgrade | Provision | SNMP        | TR069 |                       |          |

Please REBOOT to make the changes effective!

**Provision**

**Configuration Profile**

|                               |        |
|-------------------------------|--------|
| Provision Enable              | Enable |
| Resync On Reset               | Enable |
| Resync Random Delay(sec)      | 40     |
| Resync Periodic(sec)          | 3600   |
| Resync Error Retry Delay(sec) | 3600   |
| Forced Resync Delay(sec)      | 14400  |
| Resync After Upgrade          | Enable |
| Option 66                     | Enable |
| Config File Name              | \$(MA) |
| Profile Rule                  |        |

**Firmware Upgrade**

|                                |        |
|--------------------------------|--------|
| Upgrade Enable                 | Enable |
| Upgrade Error Retry Delay(sec) | 3600   |
| Upgrade Rule                   |        |

## 5.8.4 SNMP

|            |                  |           |             |       |                       |          |
|------------|------------------|-----------|-------------|-------|-----------------------|----------|
| Status     | Network          | Wireless  | SIP Account | Phone | <b>Administration</b> | Security |
| Management | Firmware Upgrade | Provision | SNMP        | TR069 |                       |          |

Please REBOOT to make the changes effective!

**SNMP Configuration**

**SNMP Configuration**

|                           |         |
|---------------------------|---------|
| SNMP Service              | Disable |
| Trap Server Address       |         |
| Read Community Name       |         |
| Write Community Name      |         |
| Trap Community            |         |
| Trap period interval(sec) |         |

## 5.8.5 TR069

| Status     | Network          | Wireless  | SIP Account | Phone | Administration | Security |
|------------|------------------|-----------|-------------|-------|----------------|----------|
| Management | Firmware Upgrade | Provision | SNMP        | TR069 |                |          |

Please REBOOT to make the changes effective!

### TR069 Configuration

**ACS**

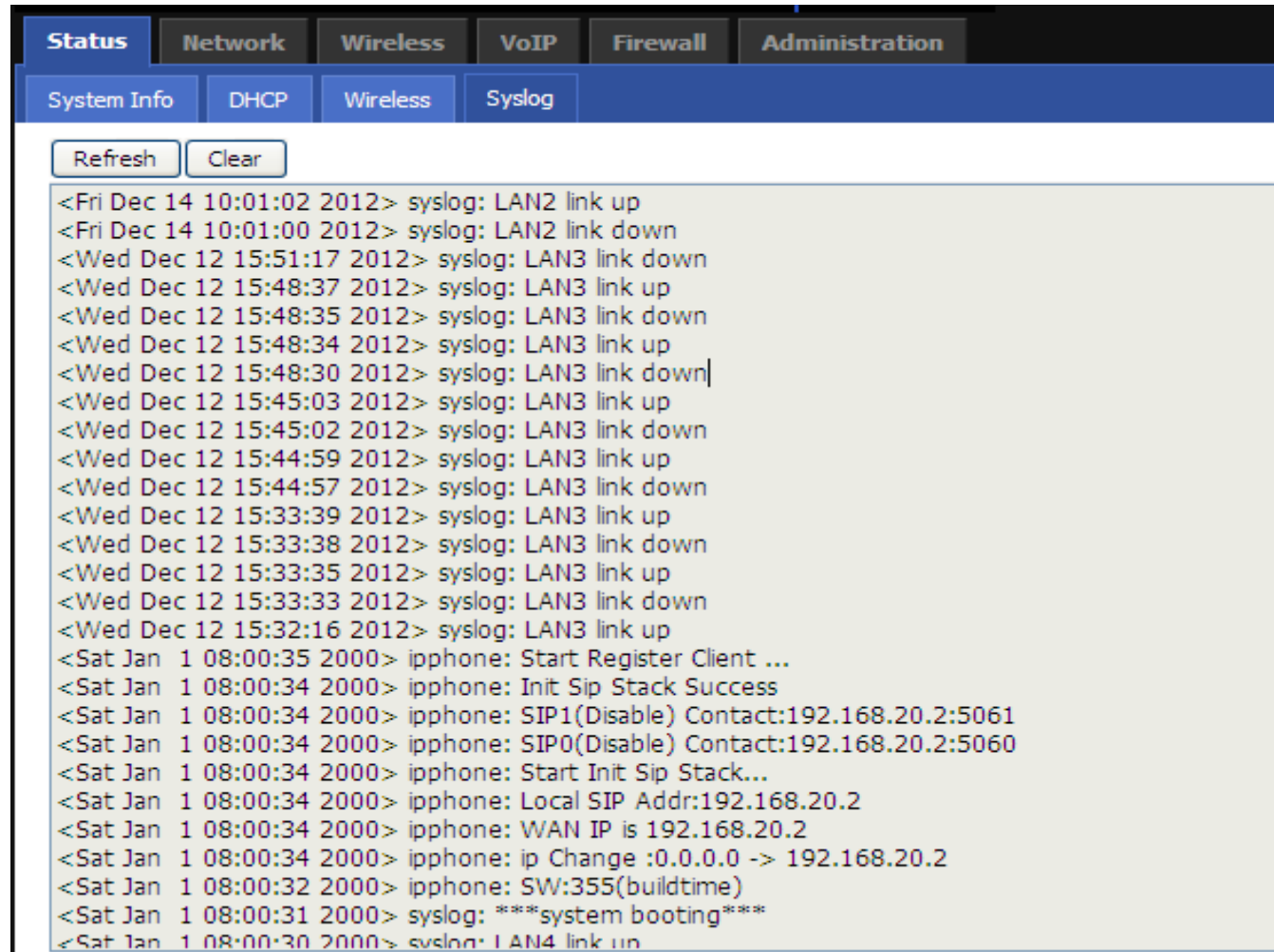
|                          |                                 |
|--------------------------|---------------------------------|
| TR069 Enable             | Disable ▾                       |
| CWMP                     | Enable ▾                        |
| ACS URL                  | <input type="text"/>            |
| User Name                | <input type="text"/>            |
| Password                 | <input type="text"/>            |
| Periodic Inform Enable   | Enable ▾                        |
| Periodic Inform Interval | <input type="text" value="30"/> |

**Connect Request**

|           |                      |
|-----------|----------------------|
| User Name | <input type="text"/> |
| Password  | <input type="text"/> |
| SSL Key   | <input type="text"/> |

## 5.9 System Log

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



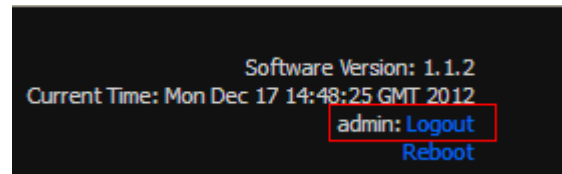
Refresh Clear

```

<Fri Dec 14 10:01:02 2012> syslog: LAN2 link up
<Fri Dec 14 10:01:00 2012> syslog: LAN2 link down
<Wed Dec 12 15:51:17 2012> syslog: LAN3 link down
<Wed Dec 12 15:48:37 2012> syslog: LAN3 link up
<Wed Dec 12 15:48:35 2012> syslog: LAN3 link down
<Wed Dec 12 15:48:34 2012> syslog: LAN3 link up
<Wed Dec 12 15:48:30 2012> syslog: LAN3 link down
<Wed Dec 12 15:45:03 2012> syslog: LAN3 link up
<Wed Dec 12 15:45:02 2012> syslog: LAN3 link down
<Wed Dec 12 15:44:59 2012> syslog: LAN3 link up
<Wed Dec 12 15:44:57 2012> syslog: LAN3 link down
<Wed Dec 12 15:33:39 2012> syslog: LAN3 link up
<Wed Dec 12 15:33:38 2012> syslog: LAN3 link down
<Wed Dec 12 15:33:35 2012> syslog: LAN3 link up
<Wed Dec 12 15:33:33 2012> syslog: LAN3 link down
<Wed Dec 12 15:32:16 2012> syslog: LAN3 link up
<Sat Jan 1 08:00:35 2000> ipphone: Start Register Client ...
<Sat Jan 1 08:00:34 2000> ipphone: Init Sip Stack Success
<Sat Jan 1 08:00:34 2000> ipphone: SIP1(Disable) Contact:192.168.20.2:5061
<Sat Jan 1 08:00:34 2000> ipphone: SIP0(Disable) Contact:192.168.20.2:5060
<Sat Jan 1 08:00:34 2000> ipphone: Start Init Sip Stack...
<Sat Jan 1 08:00:34 2000> ipphone: Local SIP Addr:192.168.20.2
<Sat Jan 1 08:00:34 2000> ipphone: WAN IP is 192.168.20.2
<Sat Jan 1 08:00:34 2000> ipphone: ip Change :0.0.0.0 -> 192.168.20.2
<Sat Jan 1 08:00:32 2000> ipphone: SW:355(buildtime)
<Sat Jan 1 08:00:31 2000> syslog: ***system booting***
<Sat Jan 1 08:00:30 2000> syslog: LAN4 link up
  
```

## 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 G801.



## 6 Trouble shooting of the guide

### 6.1 Setting your PC gets IP automatically

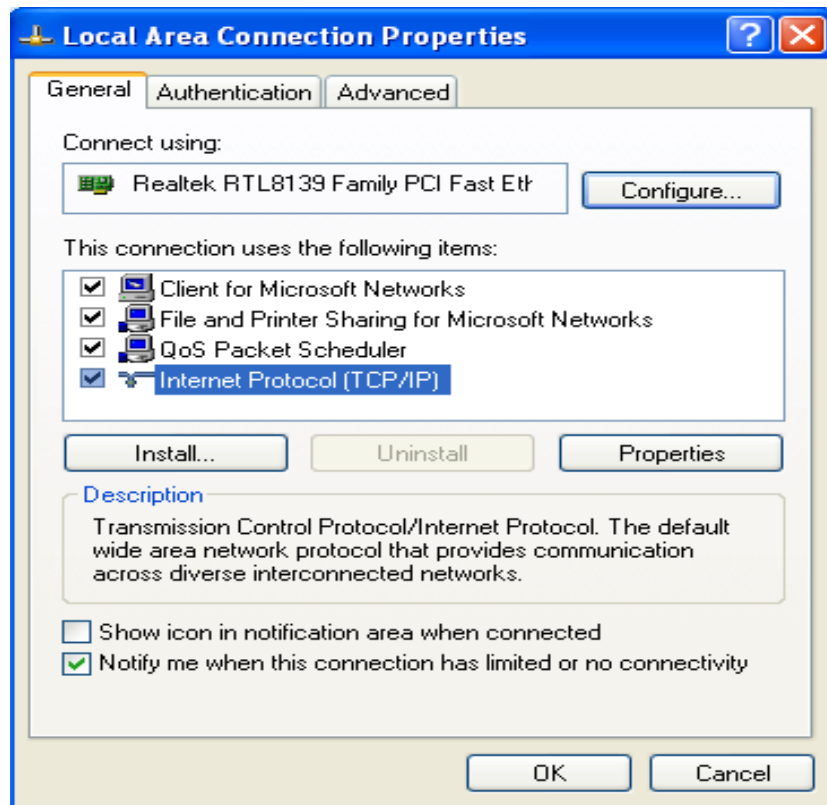
Following are the process of setting your PC gets IP automatically

Step 1. Click the “begin”

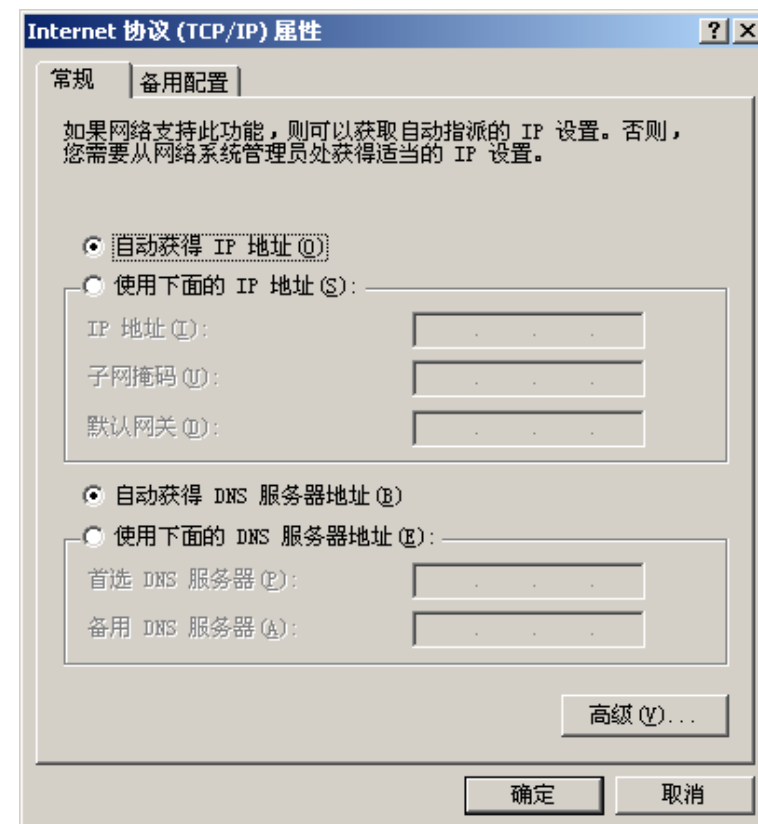
Step 2. Select “control panel”, then double click “network connections” in the “control panel”

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, 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:

- 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.

