

The G902 High Speed Router User's Guide



V1.1

The page 1 of 79 Revision time: 2014-12-04



Table of Contents

1	Preface	5
	1.1 Declaration of Conformity	
	1.1.1 Part 15 FCC Rules	5
	1.1.2 Class B Digital Device or Perpheral	5
	1.2 GNU GPL Information	6
	1.3 Warning	6
2	Overview	7
	2.1 G900 series	7
	2.1.1 G900 series	7
	2.1.2 Power Adapter	7
	2.2 LED Indicators	8
	2.3 Hardware Installation	8
	2.4 Voice Prompt	11
3	Configuring Basic Settings	14
	3.1 Two-Level Management.	14
	3.2 Accessing Web Page	14
	3.2.1 From LAN port	14
	3.2.2 From WAN port	15
	3.3 Web Page	15
	3.4 Setting up the Time Zone	16
	3.5 Setting up the Internet Connection	17
	3.6 Setting up the Wireless Connection	17
	3.6.1 Enable Wireless and Setting SSID	
	3.6.2 Encryption	
	3.7 Register	19
	3.7.1 Get the Accounts	19
	3.7.2 Connections	19
	3.7.3 Configuration SIP from Webpage	
	3.7.4 View the Register Status	20
	3.8 Make Call	21
	3.8.1 Calling phone or extension numbers	21
	3.8.2 Direct IP calls	21
	3.8.3 Call Hold	21
	3.8.4 Blind Transfer	21
	3.8.5 Attended Transfer	
	3.8.6 Conference	
4	Web Configuration	22
	4.1 Login	22



Copy Right 2014 All Rights Reserved by FLYINGVOICE TECHNOLOG LIMITED

V1.1

4.2	Status	23
4.3	Network&Security	
4.3	3.1 WAN	
4.3	3.2 LAN	29
4.3	3.3 MAC Clone	3
4.3	3.4 VPN	3
4.3	.3.5 DMZ	32
4.3	.3.6 DDNS Setting	32
4.3	.3.7 Port Forward	33
4.3	.3.8 Advance	32
4.3	.3.9 Port Setting	32
4.3	-3.10 QoS	35
4.3	.3.11 Routing	
4.4	Wireless	30
4.4	.4.1 Basic	30
4.4	.4.2 Wireless Security	37
4.4	.4.3 WMM	40
4.4	.4.4 WDS	
4.4	.4.5 WPS	4
4.4	.4.6 Station Info	43
4.4	.4.7 Advanced	43
4.5	Wireless 5G	4
4.5	-5.1 Basic	4:
4.5	.5.2 Wireless Security	4
4.5	.5.3 WMM	4
4.5	-5.4 WDS	4
4.5	.5.5 WPS	4
4.5	.5.6 Station Info	48
4.5	-5.7 Advanced	48
4.6	SIP	49
4.6	.6.1 SIP Settings	49
4.6	.6.2 VoIP Qos	50
4.7	FXS1	50
4.7	.7.1 SIP Account	50
4.7	.7.2 Preferences	55
4.7	.7.3 Dial Plan	59
4.7	.7.4 Blacklist	6
4.7	.7.5 Call Log	6
4.8	FXS2	63
4.9	Security	63
4.9	.9.1 Filtering Setting	6
4.0	0.2 Content Filtering	6



Copy Right 2014 All Rights Reserved by FLYINGVOICE TECHNOLOG LIMITED V1.1

	4.10	Application	65
	4.10.1	1 UPnP	65
	4.10.2	2 IGMP	65
	4.10.3	3 MLD	66
	4.11	Storage	66
	4.11.1	l Disk Management	66
	4.11.2	2 FTP Setting	67
	4.11.3	Smb Setting	67
	4.12	Administration	68
	4.12.1	1 Management	68
	4.12.2	2 Firmware Upgrade	71
	4.12.3	3 Provision	71
	4.12.4	4 SNMP	72
	4.12.5	5 TR069	73
	4.12.6	6 Diagnoisis	74
	4.12.7	7 Operation Mode	74
	4.13	System Log	75
	4.14 I	Logout	75
	4.15 I	Reboot.	76
5	Trouble sh	ooting of the guide	77
	5.1	Setting your PC gets IP automatically	77
	5.2	Can not connect to the configuration Website	78
	5.3 I	Forget the Password	78
	5.4 I	Fast Bridge Setting	78



1 Preface

Thank you for choosing G902 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 G902 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 G902 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.

G902 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.

1.1Declaration of Conformity

1.1.1 Part 15 FCC Rules

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

This device may not cause harmful interference, and

This device must accept any interference received, including interference that may cause undesired operation.

1.1.2 Class B Digital Device or Perpheral

Note: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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:

The page 5 of 79 Revision time: 2014-12-04



- 1. Reorient or relocate the receiving antenna.
- 2. Increase the separation between the equipment and receiver.
- 3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4. Consult the dealer or an experienced radio/TV technician for help.

1.2GNU GPL Information

G902 firmware contains third-party software under the GNU General Public License (GPL). FLYINGVOICE uses software under the specific terms of the GPL. Please refer to the GPL for the exact terms and conditions of the license. The original GPL license, source code of components licensed under GPL and used in Yealink products can be downloaded online:

http://www.flyingvoice.com/index.php?m=content&c=index&a=lists&catid=169

1.3 Warning

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.L'exploitation est autorisée aux deux conditions suivantes : (1)l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnemen.

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

The page 6 of 79 Revision time: 2014-12-04



20verview

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

2.1G900 series

2.1.1 **G900** series

	G902	G902P	G901	G901P	G900	G900P
WAN	1xGE in RJ45					
LAN				4xGE in RJ45		
WiFi			2X2	2 2.4G 802.11 b/g/n		
****			2	2X2 5G 802.11ac		
USB				1X USB 2.0		
FXS	2xF	XS in RJ11	1xFXS in RJ11			No
PoE	No	Yes	No	Yes	No	Yes
Power Adapter	12V/2A	12V/3A	12V/2A	12V/3A	12V/2A	15V/3A

Trade Mark: Flyingvoive.

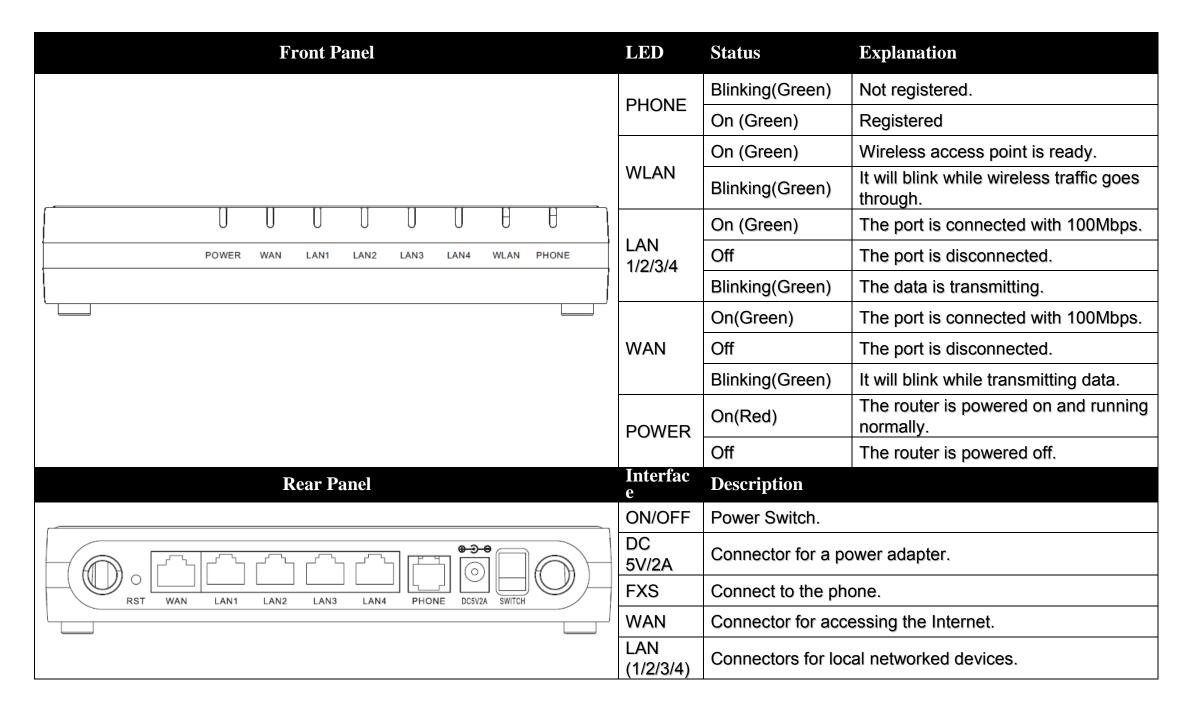
2.1.2 Power Adapter

Model	Туре	Trade Mark	Features
S24B13-120A200-Y4	EU	GONGJIN	INPUT: 100-240VAC/50-60HZ/MAX 0.7A OUTPUT: 12VDC/2A
S24B12-120A200-Y4	UL	GONGJIN	INPUT: 100-240VAC/50-60HZ/MAX 0.7A OUTPUT: 12VDC/2A
F12W 3-120100SPAU	UL	FRECOM	INPUT: 100-240VAC/50-60HZ/MAX 0.3A OUTPUT: 12VDC/1A
F12W 3-120100SPAV	EU	FRECOM	INPUT: 100-240VAC/50-60HZ/MAX 0.3A OUTPUT: 12VDC/1A
SWPP-12003000-W	UL&EU	TOP-ASIA	INPUT: 100-240VAC/50-60HZ/MAX 1.5A OUTPUT: 12VDC/3A

The page 7 of 79 Revision time: 2014-12-04



2.2LED Indicators



2.3Hardware Installation

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

The page 8 of 79 Revision time: 2014-12-04



- 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.





Warning: Please do not attempt to use other different power adapter or cut off power supply during configuration or updating the G201N4 VoIP home gateway. Using other power adapter may damage G201N4 and will void the manufacturer warranty.



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

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.



2.4Voice 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 G902 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
2	Step 1.Pick up phone and press "****" to start IVR
	Step 2.Choose "2", and G902 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.
3	Step 1.Pick up phone and press "***" to start IVR
	Step 2.Choose "3", and G902 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.
4	Step 1.Pick up phone and press "****" to start IVR
	Step 2.Choose "4", and G902 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.

The page 11 of 79 Revision time: 2014-12-04



5	Step 1.Pick up phone and press "****" to start IVR
	Step 2.Choose "5", and G902 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.
	Step 1.Pick up phone and press "****" to start IVR
6	Step 2.Choose "6", and G902 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 G902 will be factory setting.
	Step 1.Pick up phone and press "****" to start IVR
7	Step 2.Choose "7", and G902 report "Reboot"
	Step 3.Prompt "Please enter password", the method of inputting password is same as operation 1.
	Step 4.G902 will reboot if password is right and operation is properly.
	Step 1.Pick up phone and press "****" to start IVR
	Step 2.Choose "8", and G902 report "WAN Port Login"
8	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 1.Pick up phone and press "****" to start IVR
	Step 2.Choose "9", and G902 report " WEB Access Port"
9	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 #
0	Step 1.Pick up phone and press "****" to start IVR
	Step 2.Choose "0", and G902 report current Firmware version

Notice:

- 1. When using Voice Menu, press * (star) to return the main menu.
- 2. If any changes made in the IP assignment mode, please reboot the G902 to take the setting into effect.



- 3. When enter IP address or subnet mask, use "*"(Star) to replace "." (Dot).
- 4. 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.
- 5. #(pound) key to indicate that you have finish entering the IP address or subnet mask
- 6. 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 G902 is connected.
- 7. The default LAN port IP address of G902 is 192.168.1.1 and do not set the WAN port IP address of G902 in the same network segment of LAN port of G902, otherwise it may lead to the G902 fail to work properly.
- 8. 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, I -- 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'



3 Configuring Basic Settings

3.1Two-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.

G902 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.

3.2Accessing Web Page

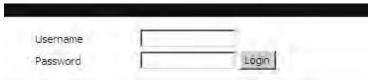
3.2.1 From LAN port

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://192.168.1.1 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.

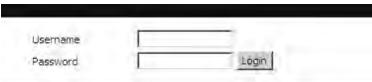
4. The web page can be logged out after 5 minutes without any operation.

The page 14 of 79 Revision time: 2014-12-04



3.2.2 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.

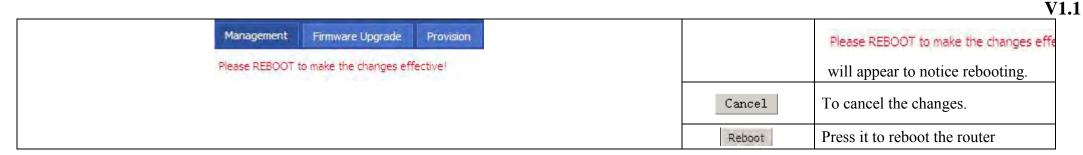
3.3 Web Page

Status Network Wirele	55 Wireless 5G STP FX51 FXS2 Security Applicati	on Storage Administration	Field Name	Description
Basic Wireless Security W Basic Wireless Settings Wireless Network	MM WDS WPS Station Info Advanced	Help	Navigation bar	Click navigation bar, many sub-navigation bar will appear in the place 2
Radio On/Off Wireless Connection Mode Network Mode SSID	Radio On AP AP 11b/g/n mixed mode Wireless_AP001118 Hidden Isolated Max Client 16 3		Title	Click sub-navigation bar to choose one configuration page
Multiple SSID1 Multiple SSID2 Multiple SSID3	Hidden Isolated Max Client 16 Hidden Isolated Max Client 16 Hidden Isolated Max Client 16		Parameter	To configuration the parameters
	Save Cancel Reboot		Save	1.Every time making some changes, user should press this button to confirm the changes.2.After pressing the button, the red

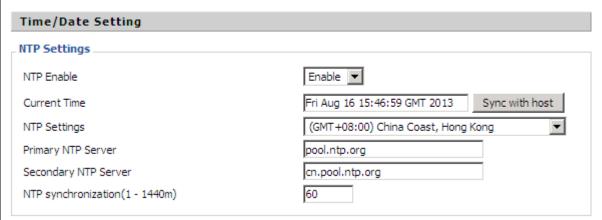
The page 15 of 79 Revision time: 2014-12-04



Copy Right 2014 All Rights Reserved by FLYINGVOICE TECHNOLOG LIMITED



3.4Setting up the Time Zone



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

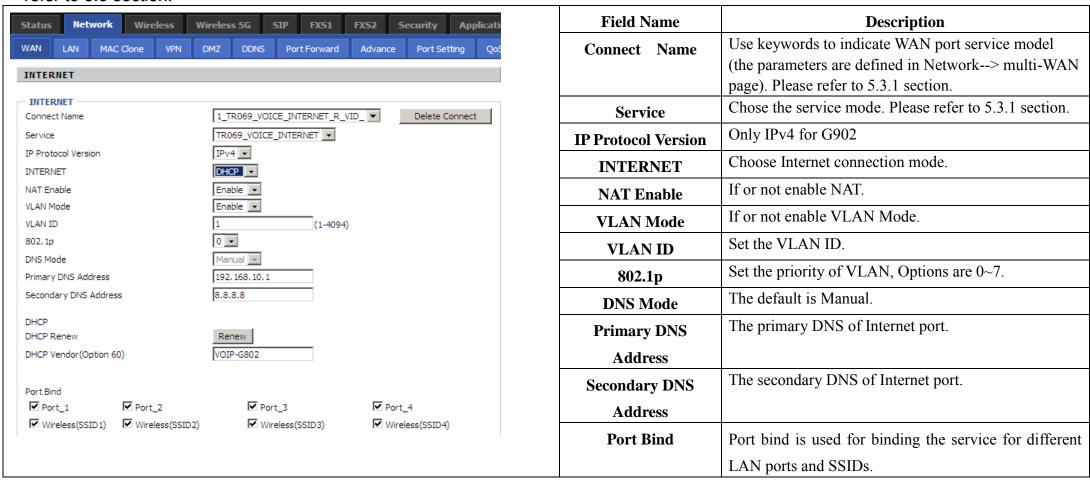
The page 16 of 79 Revision time: 2014-12-04





3.5Setting up the Internet Connection

From WAN page, multi wan connection could be built or deteted. If you want to know more information about Internet Connection setting, please refer to 5.3 section.



3.6Setting up the Wireless Connection

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

3.6.1 Enable Wireless and Setting SSID

Open Wireless/Basic webpage as shown below

The page 17 of 79 Revision time: 2014-12-04



Copy Right 2014 All Rights Reserved by FLYINGVOICE TECHNOLOG LIMITED V1.1

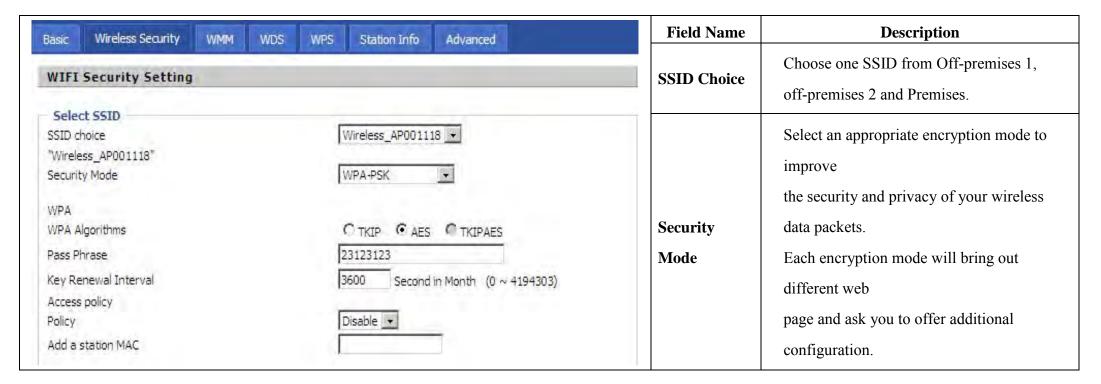
Status Network Wire	ess Wireless 5G SIP FXS1 FXS2 Security Applicat	Field Name	Description
Basic Wireless Security	VMM WDS WPS Station Info Advanced	D 1: 0 /066	Select "Radio Off" to disable wireless.
Basic Wireless Settings		Radio On/Off	Select "Radio on" to enable wireless.
Wireless Network			Choose one network mode from the drop
Radio On/Off Wireless Connection Mode	Radio On 💌	Network Mode	down list.
Network Mode	11b/g/n mixed mode		The name of the wireless name, it can be an
SSID Multiple SSID1	Wireless_AP001118 Hidden ☐ Isolated ☐ Max Client 16 Hidden ☐ Isolated ☐ Max Client 16	SSID	text numbers or various special characters.
Multiple SSID2 Multiple SSID3	Hidden ☐ Isolated ☐ Max Client 16 Hidden ☐ Isolated ☐ Max Client 16	Multiple	Set more wireless network.
broadcast(SSID)	⊙ Enable O Disable	SSSD1-3	See more whereas nevwork.
AP Isolation	C Enable C Disable		
MBSSID AP Isolation BSSID Frequency (Channel)	C Enable	Frequency	Choose channel frequency.

The page 18 of 79 Revision time: 2014-12-04



3.6.2 Encryption

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



3.7Register

3.7.1 Get the Accounts

G902 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.

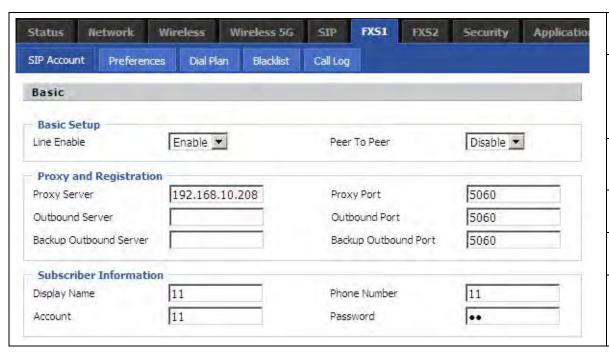
3.7.2 Connections

Connect G902 to the Internet properly

The page 19 of 79 Revision time: 2014-12-04



3.7.3 Configuration SIP from Webpage



Step 1.Open FXS1(FXS2)/**SIP Account** 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 button in the bottom of the webpage to save changes.

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

3.7.4 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 G902 have registered normally and you can make calls.

The page 20 of 79 Revision time: 2014-12-04



3.8Make Call

3.8.1 Calling phone or extension numbers

To make a phone or extension number call:

- 1. Both ATA and the other VoIP device (i.e., another ATA or other SIP products) have public IP addresses, or
- 2. 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
- 3. 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 #.

3.8.2 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:

- 1. Both ATA and the other VoIP device (i.e., another ATA or other SIP products) have public IP addresses, or
- 2. 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
- 3. 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 "#".

3.8.3 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.

3.8.4 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.

The page 21 of 79 Revision time: 2014-12-04



3.8.5 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.

3.8.6 Conference

Assuming that call party A and B are in conversation. A wants to add C to the conference:

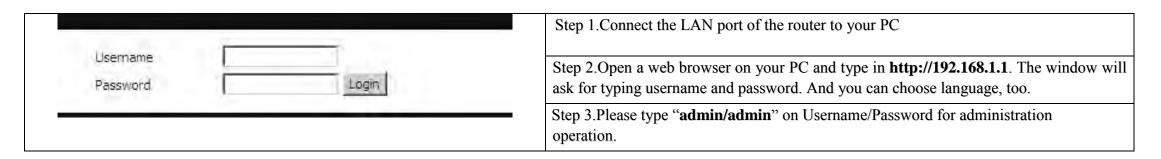
Step 1.Party A dial "*77" to hold the party B, when hear the dial tone, A dial C's number, then party A and party C are in conversation.

Step 2.Party A dial "*88" to add C, then A, B and C now in conference.

4Web Configuration

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

4.1Login

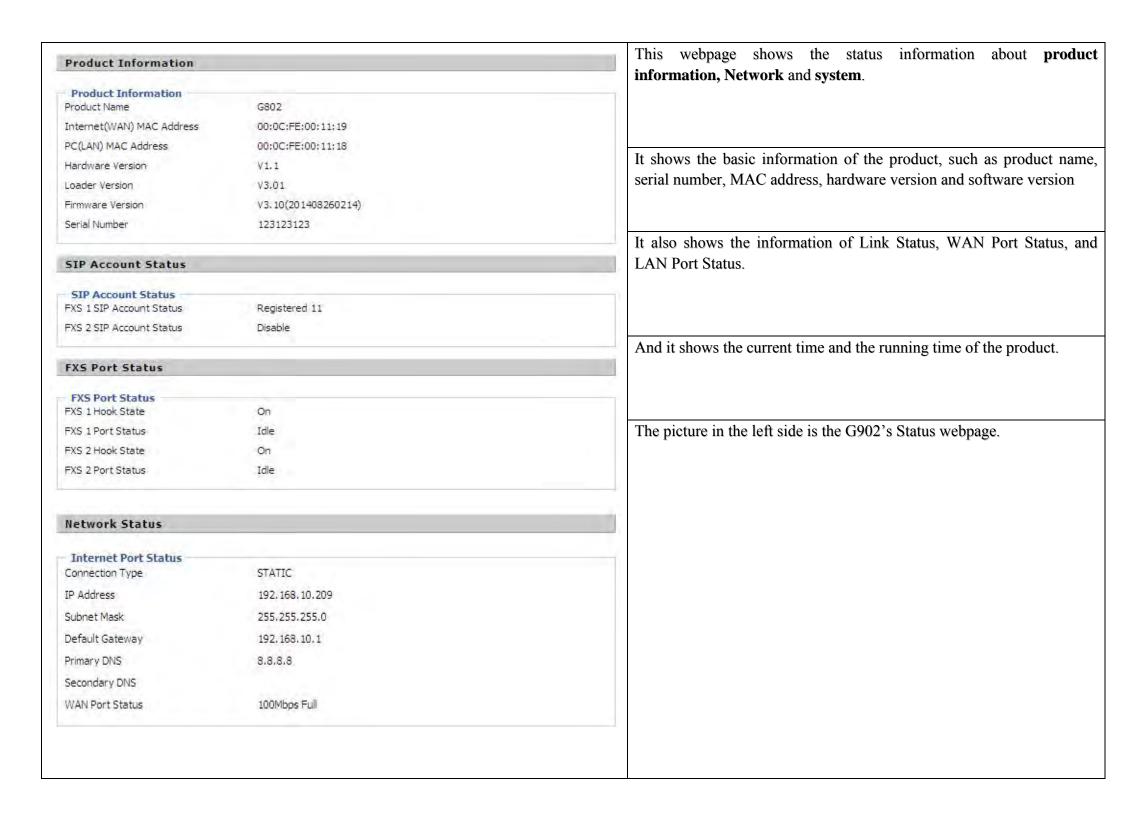


The page 22 of 79 Revision time: 2014-12-04





4.2Status



The page 23 of 79 Revision time: 2014-12-04



4.3Network&Security

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

4.3.1 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.

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.

INTERNET		Field Name	Description
INTERNET Connect Name	1_TR069_VOICE_INTERNET_R_VID_ ▼ Delete Connect	IP Address	The IP address of Internet port
Service IP Protocol Version	TR069_VOICE_INTERNET •	Subnet Mask	The subnet mask of Internet port.
INTERNET NAT Enable	Static Fnable	Default Gateway	The default gateway of Internet port.
VLAN Mode VLAN ID Static	1 (1-4094)	DNS Mode	In Static mode, user need set the DNS manually.
IP Address Subnet Mask	192,168.10,209 255.255.255.0	Primary DNS Address	The primary DNS of Internet port.
Default Gateway DNS Mode Primary DNS Address Secondary DNS Address	192,168.10.1 Manual • 8.8.8.8	Secondary DNS Address	The secondary DNS of Internet port.

The page 24 of 79 Revision time: 2014-12-04



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.

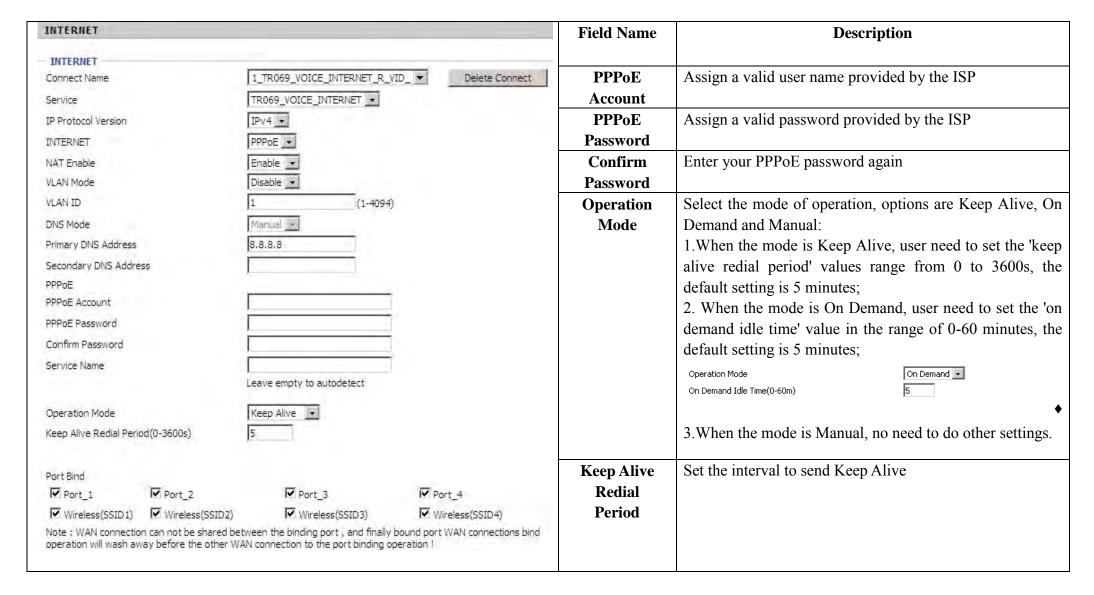
INTERNET		Field Name	Description	
INTERNET Connect Name	1_TR069_VOICE_INTERNET_R_VID_ ▼ Delete Connect	DNS Mode	The Default is Manual	
Service IP Protocol Version	TR069_VOICE_INTERNET IPv4	Primary DNS Address	The primary DNS of Internet port.	
INTERNET NAT Enable	DHCP TENable T	Secondary DNS Address	The secondary DNS of Internet port.	
VLAN Mode	Disable -	DHCP Renew	Refresh DHCP IP	
VLAN ID DNS Mode Primary DNS Address	1 (1-4094) Manual 💌	DHCP Vendor(Option6	Specify DHCP Vendor field Display the vendor and product name	
Secondary DNS Address	0.0.0.0	0)		
DHCP	Renew			
DHCP Renew DHCP Vendor(Option 60)	VOIP-G802			

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.





4. Bridge Mode

Bridge Mode under Multi WAN is different with traditional bridge setting. Bridge mode has no ip address and only work as a bridge between WAN port and LAN port. So Route Connection has to be build to give ip address to local service on device.

Under is example of bridge mode:

- 1_TR069_VOICE_INTERNET_R_VID_ is router connection for local service.
- 2_Other_B_VID_ is bridge connection for host of LAN port.

If bridge setting is complex, please refer to 6.4 section for fast setting of bridge mode.



Copy Right 2014 All Rights Reserved by FLYINGVOICE TECHNOLOG LIMITED V1.1

- INTERNET				Field N	lame	Description
Connect Name		1_TR069_VOICE_INTERNET_R_VID	_ ▼ Delete Connect		IP Bridge	Allow all ethernet packets pass. PC could
Service		TR069_VOICE_INTERNET _				connect to upper network directly.
IP Protocol Version		IPv4 ▼		Bridge	PPPoE	Only Allow PPPoE packets pass. PC need
INTERNET		Bridge 🔻		Type	Bridge	PPPoE dial-up software.
Bridge Type		Hardware IP Bridge 🔻			Hardware	Packets pass through hardware switch with
DHCP Service Type		Pass Through 🔻			IP Bridge	wired speed. Do not support wireless port
VLAN Mode		Enable 💌				bind.
VLAN ID		1 (1-4094)		DHCP	Pass	Dhcp packets can be forwarded between
802.1p		0 🔻		Service	Through	WAN and LAN, dhcp server in gateway will
				Type		not allocate IP to hosts of LAN port.
Port Bind					DHCP	When gateway forwards dhep packets form
Port_1	Port_2	✓ Port_3	✓ Port_4		Snooping	LAN to WAN it will add option82 to dhep
✓ Wireless(SSID 1)	✓ Wireless(SSID2)	✓ Wireless(SSID3)	✓ Wireless(SSID4)			packet, and it will remove option82 when
Note: WAN connection operation will wash av	on can not be shared be way before the other Wa	tween the binding port , and finally bo AN connection to the port binding oper	und port WAN connections bind			forward dhcp packet form WAN to LAN.
operator viii viasi av	ia, perore are outer 177	ar connection to the port billiang oper	Storr.			Local dhep service will not allocate ip to
						hosts of LAN port.
					Local	Gateway will not forward dhcp packets
					Service	between Lan and Wan, it also block dhcp
						packet from WAN port. Hosts of LAN port
						can get ip from dhcp server run in gateway.
				VLAN	Disable	The WAN interface is untagged. LAN is
				Mode		untagged.
					Enable	The WAN interface is tagged. LAN is
						untagged.
					Trunk	Only valid in bridge mode. All ports, include
						WAN and LAN, belong to this VLAN Id and
						all ports are tagged in this VLAN id. Tagged
						packets could pass through WAN and LAN.
				VLAN	l ID	Set the VLAN ID.
				802.1	lp	Set the priority of VLAN, Options are 0~7.

The page 27 of 79 Revision time: 2014-12-04



5. Connect Name and Service

Connect Name Table is as below:

Content	Define	Comment		
No	1~99	WAN Connection id		
Service	TR069	The connection only support management application, like TR069, WEB, SNMP and Provision		
	INTERNET	The connection only support internet service		
	TR069_INTERNET	The connection support management and internet application		
	VOICE	The connection only support voice application, like sip and rtp		
	TR069_VOICE	The connection support both management and voice application		
	VOICE_INTERNET	The connection support voice and internet application		
	TR069_VOICE_INTERNET	The connection support management, voice and internet application		
	Other	The connection support STB		
NAT Mode	В	Bridge		
	R	Router		
VLAN ID	VID	VLAN ID		

For example:

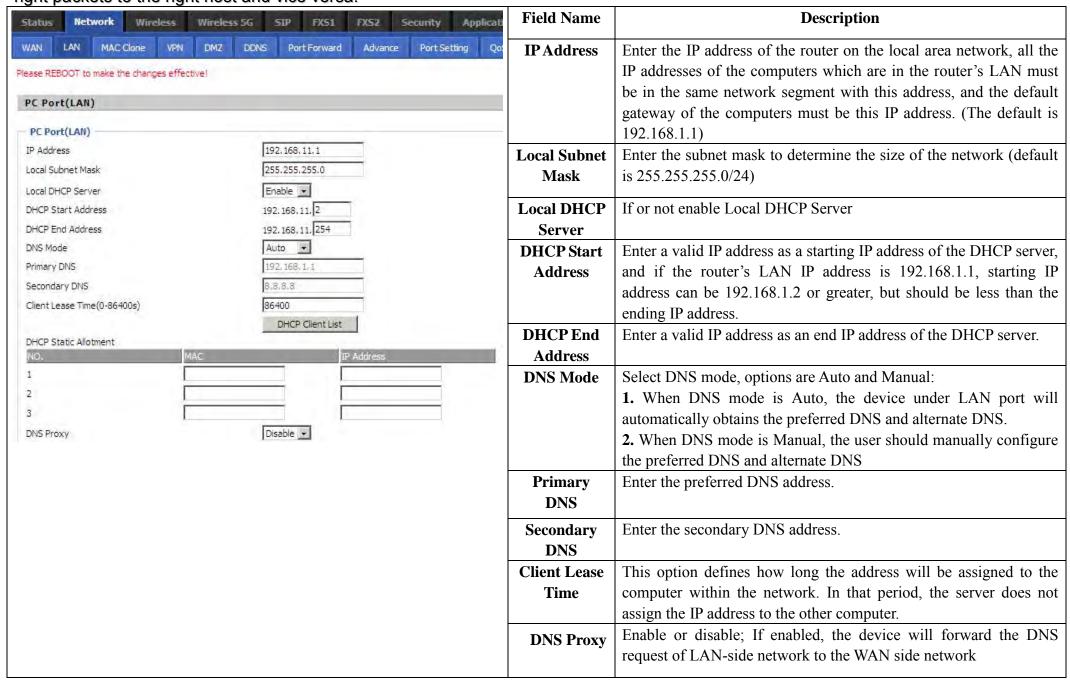
- 1. 1_TR069_R_VID_2 (First Interface, Service is TR069, NAT Mode, VLAN ID is 2)
- 2. 2_INTERNET_B_VID_(Second Interface, Service is INTERNET, Bridge Mode, VLAN is disabled)



4.3.2 LAN

1. 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.



2. DHCP Server:

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



Copy Right 2014 All Rights Reserved by FLYINGVOICE TECHNOLOG LIMITED

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.

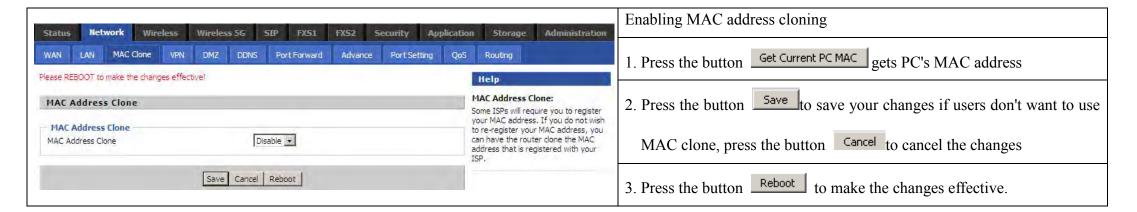
	192.168.11.1 255.255.255.0 Enable • 192.168.11.2 192.168.11.2 Auto •	Field Name	Description	
47.70		Local DHCP Server	If or not enable DHCP server. Enter a value of the IP address pool for the DHCP server to start with	
IP Address Local Subnet Mask		DHCP Start		
Local DHCP Server DHCP Start Address		Address DHCP End	when issuing IP addresses. If the LAN Interface IP Enter a value of the IP address pool for the DHCP server to end with	
DHCP End Address DNS Mode		Address	when issuing IP addresses.	
		DNS Mode	You should set "manual" in the "DNS Mode" if you set "DNS" by yourself. And then fill the DNS in the two following texts. Generally speaking, you can set "Auto" in the "DNS Mode" and the device will get "DNS" from DHCP Server automatically.	
	192, 168, 1, 1 3.8.8.8 86400	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.	
Primary DNS Secondary DNS Client Lease Time (0-86400s)		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 empt the router will assign its own IP address to local users as a DNS proserver and maintain a DNS cache.	
		Client Lease Time	It allows you to set the leased time for the specified PC.	

The page 30 of 79 Revision time: 2014-12-04



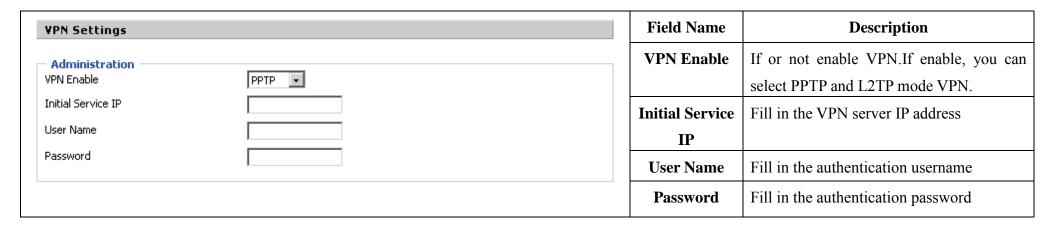
4.3.3 MAC Clone

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.



4.3.4 **VPN**

A VPN is a kind of technology which establish a private network based on the public network. VPN network connection between any two nodes does not require the end to end physical connection as the traditional private network; it is structured on the network platform provided by the public network services, the user dhome gateway are transmitted in the logical link. Through VPN technology, users can establish connection between any two devices which are connected to public network and transmit dhome gateway.



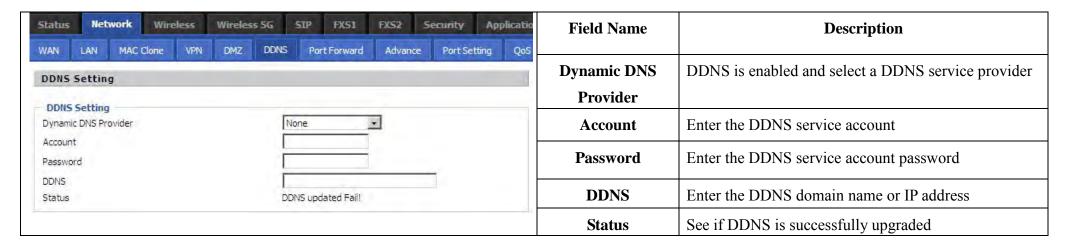
The page 31 of 79 Revision time: 2014-12-04



4.3.5 DMZ



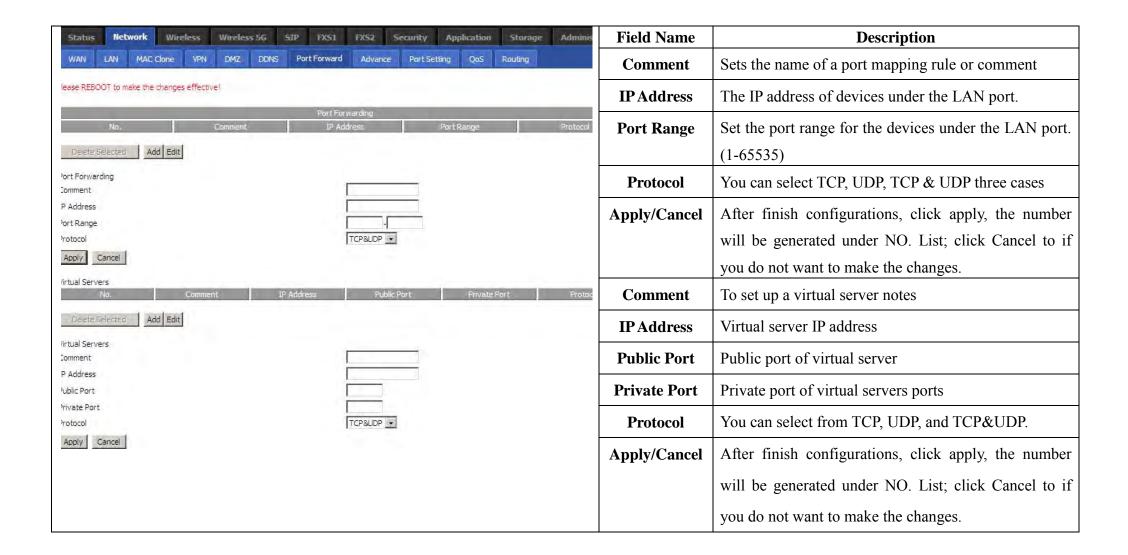
4.3.6 DDNS Setting



The page 32 of 79 Revision time: 2014-12-04

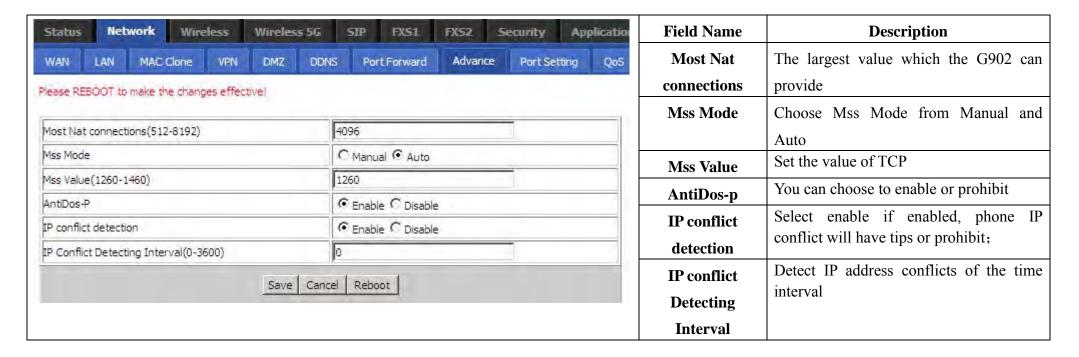


4.3.7 Port Forward

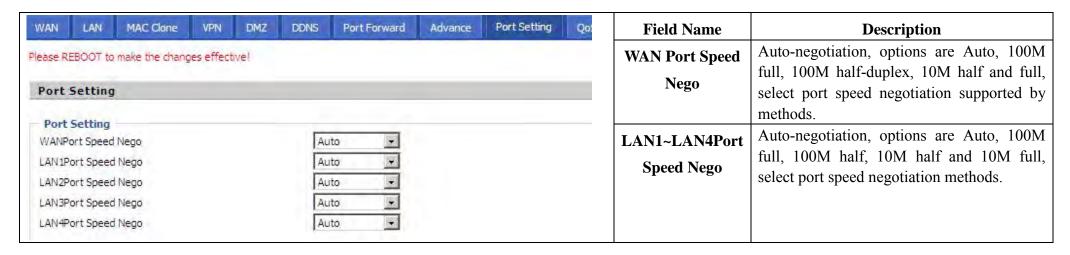




4.3.8 Advance



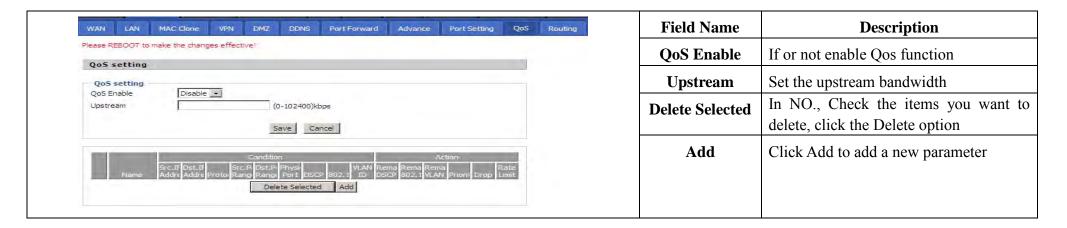
4.3.9 Port Setting



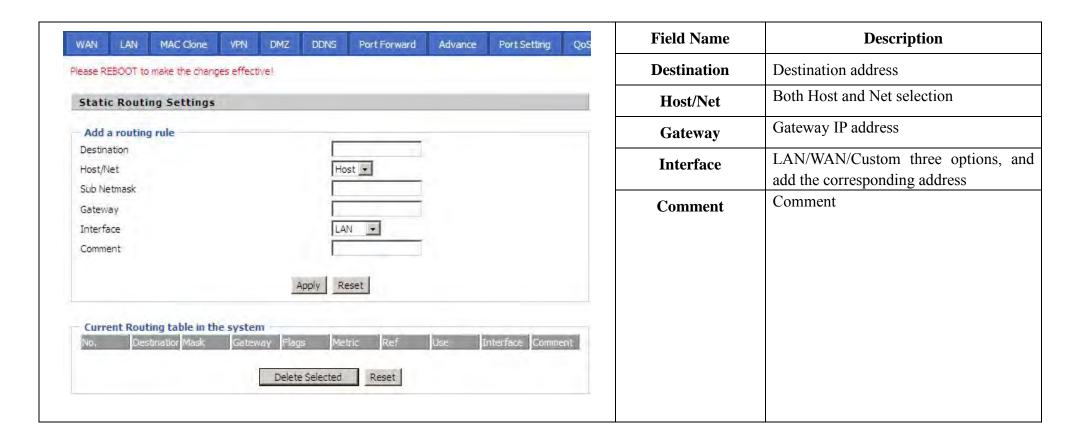
The page 34 of 79 Revision time: 2014-12-04



4.3.10 QoS



4.3.11 Routing



The page 35 of 79 Revision time: 2014-12-04



4.4 Wireless

4.4.1 Basic

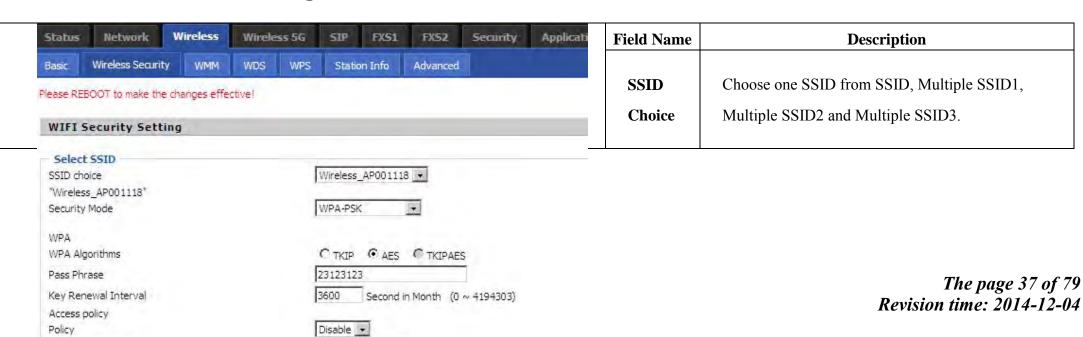
Basic Wireless Settings		Field Name	Description
Wireless Network			
Radio On/Off	Radio On 💌	Radio on/off	Select "Radio Off" to disable wireless.
Wireless Connection Mode	AP 🔻		Select "Radio on" to enable wireless.
Network Mode	11b/g/n mixed mode ▼	Wireless connection	According to the wireless client type, select
SSID	Wireless_AP001118 Hidden ☐ Isolated ☐ Max Client 16		one of these modes. Default is AP
Multiple SSID1	Hidden ☐ Isolated ☐ Max Client 16	mode	
Multiple SSID2	Hidden □ Isolated □ Max Client 16	Network Mode	Choose one network mode from the drop down
Multiple SSID3	Hidden ☐ Isolated ☐ Max Client 16		list. Default is 11b/g/n mixed mode
broadcast(SSID)	€ Enable C Disable		11b/g/n mixed mode 11b/g mixed mode
AP Isolation	C Enable Oisable		11b only
MBSSID AP Isolation	C Enable C Disable		11g only 11b/g/n mixed mode
BSSID	00:0C;FE:00:11:18		11n only(2.4G)
Frequency (Channel)	Auto	SSID	It is the basic identity of wireless LAN. SSID
HT Physical Mode	6		can be any alphanumeric or a combination of
Operating Mode	Mixed Mode C Green Field		special characters. It will appear in the wireless
Channel BandWidth	C 20 © 20/40		network access list.
Guard Interval	C Long © Auto	Multiple	G902 supports multiple SSIDs.
MCS	Auto 💌	_	
Reverse Direction Grant(RDG)	C Disable © Enable	SSID1~SSID3	10 d d d d d d d d d d d d d d d d d d d
STBC	C Disable © Enable	Hidden	After the item is checked, the SSID is no
Aggregation MSDU(A-MSDU)	© Disable C Enable		longer displayed in the search for the Wi-Fi
Auto Block ACK	C Disable C Enable		wireless network connection list
Decline BA Request	⊙ Disable C Enable	Broadcast(SSID)	After initial State opening, the device
HT Disallow TKIP	C Disable C Enable	, , ,	broadcasts the SSID of the router to wireless
HT LDPC	O Disable		network
Other		AP Isolation	If AP isolation is enabled, the clients of the AP
HT TxStream	2 🔻		cannot access each other.
HT RxStream	2 -	MBSSID AP	AP isolation among the devices which are not
	Save Cancel Reboot	Isolation	belong to this AP and along to, when the option
	Safe Contact Treasure		is enabled, the devices which do not belong to
			this AP cannot access the devices which are

The page 36 of 79 Revision time: 2014-12-04

	within the AP.
BSSID	A group of wireless stations and a WLAN access point (AP) consists of a basic access device (BSS), each computer in the BSS must be configured with the same BSSID, that is, the wireless AP logo.
Frequency (Channel)	You can select Auto Select and channel 1/2/3/4/5/6/7/8/9/10/11.
HT Physical Mode	1. Mixed Mode: In this mode, the previous
Operating	wireless card can recognize and connect to the Pre-N AP, but the throughput will be affected
Mode	2. Green Field: high throughput can be
	achieved, but it will affect backward
Channel Bandwidth	compatibility, and security of the system Select channel bandwidth, default is 20MHz and 20/40MHz.
Guard Interval	The default is automatic, in order to achieve
	good BER performance, you must set the appropriate guard interval
MCS	Position control signal, options are 0 to 32, the default is automatic
Reverse Direction	You can choose to enable or disable this
(RDG)	privilege

4.4.2 Wireless Security

Add a station MAC



V1.1

Select an appropriate encryption mode to improve the security and privacy of your wireless data Security Mode Each encryption mode will bring out different web	
--	--

Select a different encryption mode, the web interface will be different, user can configure the corresponding parameters under the mode you select. Here are some common encryption method:

1. OPENWEP: A handshake way of WEP encryption, encryption via the WEP key:

WIFI Security	Setting		Field Name	Description
Select SSID SSID choice "Wireless_AP001111 Security Mode	8*	Wireless_AP001118 •	Security Mode	This is used to select one of the 4 WEP keys, key settings on the clients should be the same with this when connecting.
Wire Equivalence Pr Default Key	rotection (WEP)	WEP Key 1	WEP Keys	Set the WEP key. A-64 key need 10 Hex characters or 5 ASCII
	WEP Key 1 WEP Key 2	Hex •		characters; choose A-128 key need 26 Hex characters or 13 ASCII characters.
WEP Keys	WEP Key 3 WEP Key 4	Hex •	WEP represents V	Wired Equivalent Privacy, which is a basic encryption method.

2. WPA-PSK, the router will use WPA way which is based on the shared key-based mode:

WIFI Security Setting		Field Name	Description
Select SSID SSID choice "Wireless_AP001118" Security Mode	Wireless_AP001118 🔻	WPA Algorithms	This item is used to select the encryption of wireless dhome gateway algorithms, options are TKIP, AES and TKIPAES.
WPA		Pass Phrase	Setting up WPA-PSK security password.
WPA Algorithms Pass Phrase Key Renewal Interval	C TKIP	Key Renewal Interval	Set the key scheduled update cycle, default is 3600s.

3. WPA2-PSK, the router will be based on shared key WPA2 modes:

WIFI Security Setting		Field Name	Description
Select SSID	futer to a second second		
SSID choice	Wireless_AP001118		
"Wireless_AP001118"			The page 38 of 79
Security Mode	WPAZ-PSK		Revision time: 2014-12-04
WPA			
WPA Algorithms	CIKIP @ AFS CIKIPAFS		

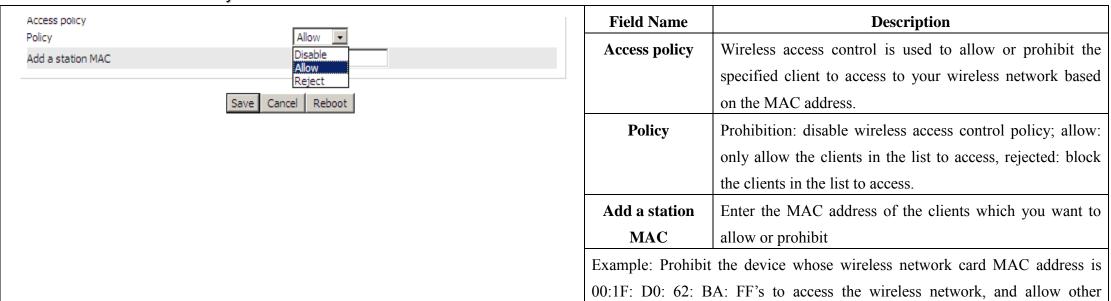


	V1.1
WPA Algorithms	This item is used to select the security algorithm for
	encryption of wireless dhome gateway, options are
	TKIP, AES, TKIPAES three
Pass phrase	Setting up WPA2-PSK security password
Key Renewal	Set the key scheduled update cycle, default is 3600s
Interval	

4. WPAPSKWPA2PSK manner is consistent with WPA2PSK settings

WIFI Security Setting		Field Name	Description
Select SSID SSID choice "Wireless_AP001118" Security Mode	WPAPSKWPA2PSK •	WPA Algorithms	The dhome gateway is used to select the wireless security encryption algorithm options are TKIP, AES, TKIP / AES. 11N mode does not support TKIP algorithms.
WPA WPA Algorithms Pass Phrase Kev Renewal Interval	C TKIP	Pass Phrase Key Renewal Interval	Set WPA-PSK/WPA2-PSK security code Set the key scheduled update cycle, default is 3600s
		version, which is based o	WPA/WPA2 security type is actually a simplified in the WPA shared key mode, higher security setting e, suitable for ordinary home users and small

5. Wireless Access Policy:



The page 39 of 79 Revision time: 2014-12-04

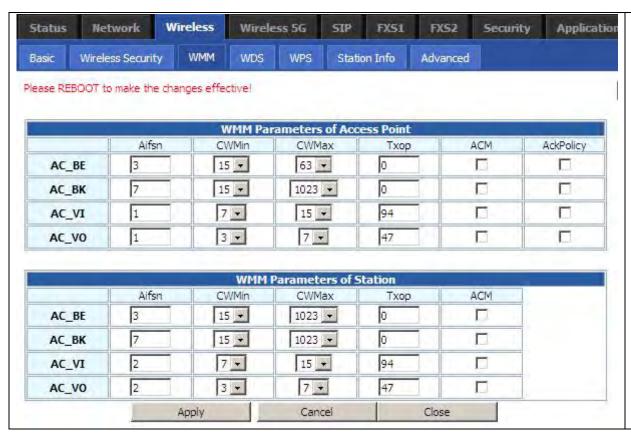


V1.1

computers to access the network.

Implementation: As shown, the Policy is Reject, add 00:1F: D0: 62: BA: FF to the MAC, click Save and reboot the device settings to take effect.

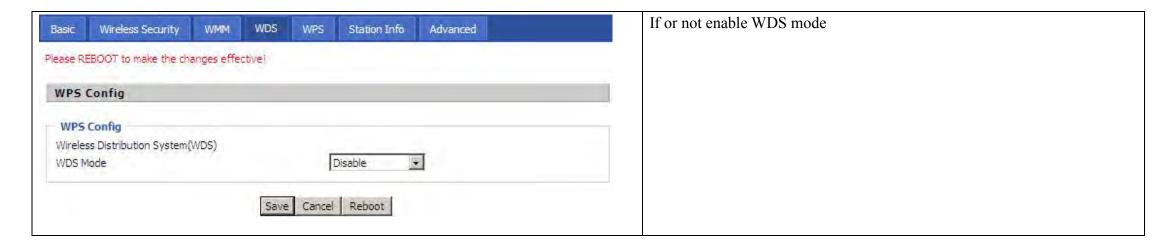
4.4.3 WMM



WMM (Wi-Fi MultiMedia) is the QoS certificate of Wi-Fi Alliance (WFA). This provides you to configure the parameters of wireless multimedia; VMM allows wireless communication to define a priority according to the dhome gateway type. To make VMM effective, the wireless clients must also support VMM.



4.4.4 WDS



4.4.5 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 Setting	Field Name	Description
WPS Config WPS Enable	WPS Setting	If or not enable WPS function
WPS Summary WPS Current Status Idle WPS Configured Yes WPS SSID Wireless_AP001118 WPS Auth Mode WPA-PSK	WPS Summary Generate	Display the current status of WPS, including current state, SSSID name, authentication methods, encryption type and the PIN code of this AP. Generate a new PIN code
WPS Encryp Type AES WPS Default Key Index 2 WPS Key(ASCII) 23123123 AP PIN 00043762 Generaté	Reset OOB	G902 uses default security policy to allow other non-WPS users to access and apply.
WPS Progress WPS Mode PIN Apply WPS Status WSC:Idle	WPS Mode	PIN: Enter the PIN code of the wireless device which accesses to this LAN in the following option, and press apply. Then G902 begins to send signals, turn on the PIN accessing method on the clients, and then it can access the wireless AP automatically. PBC: There are two ways to start PCB mode, user can press the PCB button directly on the device, or select PCB mode on the software and apply. Users can activate WPS connection in WPS mode through these two methods, only when the clients choose PCB access, the clients can connect the AP automatically.
	WPS Status	WPS shows status in three ways: WSC: Idle WSC: Start WSC Process(begin to send messages) WSC: Success; this means clients have accessed the AP successfully, WPS connects well.

The page 42 of 79 Revision time: 2014-12-04



4.4.6 Station Info



4.4.7 Advanced

Advanced Wireless		Field Name	Description
Advanced Wireless BG Protection Mode	Auto 🔻	BG Protection Mode	Select G protection mode, options are on, off and automatic. The interval of sending a wireless beacon frame, within
Beacon Interval Data Beacon Rate (DTIM) Fragment Threshold	ms ms (range 20 - 999, default 100) ms (range 1 - 255, default 3) 2346 (range 256 - 2346, default 2346)	Beacon Interval	this range, it will send a beacon frame for the information of the surrounding radio network.
RTS Threshold TX Power Short Preamble Short Slot	2347 (range 1 - 2347, default 2347) 100 (range 1 - 100, default 100) © Enable C Disable	Data Beacon Rate(DTIM)	Specify the interval of transmitting the indication message, it is a kind of cut down operation, and it is used for informing the next client which is going to receive broadcast multi-cast.
Tx Burst Pkt_Aggregate IEEE 802.11H Support	 € Enable C Disable € Enable C Disable C Enable C Disable C Enable C Disable (only in A band) 	Fragment Threshold	Specify the fragment threshold for the packet, when the length of the packet exceeds this value, the packet will be divided into multiple packets.
Country Code Support Channel Wi-Fi Multimedia	US (United States) Ch1~11	RTS Threshold	Specify the packet RTS threshold, when the packet exceeds this value, the router will send RTS to the destination site consultation
WMM Capable APSD Capable	© Enable © Disable © Enable © Disable WMM Configuration © Enable © Disable	TX Power	Define the transmission power of the current AP, the greater it is, the stronger the signal is.
WMM Parameters Multicast-to-Unicast Converter Multicast-to-Unicast		Short Preamble	Default is enable, G902 system is not compatible with traditional IEEE802.11, the operation rate can be 1,2Mpbs



V1.1	
alnful	

Short Slot	If or not enable short slot, default is enable, it is helpful
	in improving the transmission rate of wireless
	communication.
Tx Burst	One of the features of MAC layer, it is used to improve
	the fairness for transmitting TCP.
Pkt_Aggregate	It is a mechanism that is used to enhance the LAN, in
	order to ensure that the dhome gateway packets are sent
	to the destination correctly.
IEEE802.11H	If or not enable IEEE802.11H Support, default is
support	disable.
Country Code	Select country code, options are CN, US, JP, FR, TW,
	IE, HK and NONE.
Wi-Fi	
Multimedia(WMM)	
WMM Capable	If or not enable WMM. WMM take effects when it is
	enabled.
APSD Capable	After enable this, it may affect wireless performance,
	but can play a role in energy-saving power
WMM Parameters	Press WMM Configuration , the webpage will jump to
	the configuration page of Wi-Fi multimedia.
Multicast-to-Unicast	
Converter	
Multicast-to-Unicast	If or not enable Multicast-to-Unicast, by default, it is
	disabled, you can enable it.

The page 44 of 79 Revision time: 2014-12-04



4.5 Wireless 5G

4.5.1 Basic

Basic Wireless Settings		Field Name	Description
Wireless Network		Radio on/off	Select "Radio Off" to disable wireless.
Radio On/Off	Radio On 🔻		
Network Mode	11vht AC/AN/A		Select "Radio on" to enable wireless.
SSID	Wireless_AP_5G Hidden ☐ Isolated ☐ Max Client 16	Network Mode	Choose one network mode from the drop down
Multiple SSID1	Hidden 🗆 Isolated 🗀 Max Client 16		11a/n mixed mode 🔻
Multiple SSID2	Hidden 🗆 Isolated 🗀 Max Client 16		11b/g mixed mode
Multiple SSID3	Hidden 🗆 Isolated 🗀 Max Client 16		11b only
broadcast(SSID)	⊙ Enable O Disable		11g only 11b/g/n mixed mode
AP Isolation	○ Enable		11a only 11a/n mixed mode
MBSSID AP Isolation	C Enable		11vht AC/AN/A
BSSID	00:0C:FE:00:11:20		list 11vht AC/AN
Frequency (Channel)	5220MHz (Channel 44)		It is the basis identity of spinsless I AN CCID
HT Physical Mode Operating Mode	Mixed Mode	SSID	It is the basic identity of wireless LAN. SSID
Channel BandWidth	O 20		can be any alphanumeric or a combination of
Guard Interval	C Long © Auto		special characters. It will appear in the wireless
MCS	Auto 🔻		network access list.
Reverse Direction Grant(RDG)	C Disable	Multiple	G902 supports multiple SSIDs.
Extension Channel	5240MHz (Channel 48) 🔻	SSID1~SSID3	
STBC	O Disable		A.C
Aggregation MSDU(A-MSDU)	◆ Disable ◆ Enable ◆ Enable	Hidden	After the item is checked, the SSID is no
Auto Block ACK	○ Disable		longer displayed in the search for the Wi-Fi
Decline BA Request	⊙ Disable C Enable		wireless network connection list
HT Disallow TKIP	○ Disable · ⊙ Enable	Broadcast(SSID)	After initial State opening, the device
20/40 Coexistence	C Disable	, ,	broadcasts the SSID of the router to wireless
HT LDPC	⊙ Disable C Enable		network
VHT Option	6	AP Isolation	If AP isolation is enabled, the clients of the AP
VHT BandWidth	© 20/40 ○ 80	AI Isolation	cannot access each other.
VHT STBC VHT Short GI	© Disable C Enable	MOCCIDAD	AD: 1.: 41 1 : 1:1
VHT BW Signaling	O Disable	MBSSID AP	AP isolation among the devices which are not
VHT LDPC	© Disable C Enable	Isolation	belong to this AP and along to, when the option
Other	S DISADIE S ENABLE		is enabled, the devices which do not belong to
HT TxStream	2 -		
HT RxStream	2 •		this AP cannot access the devices which are
			within the AP.

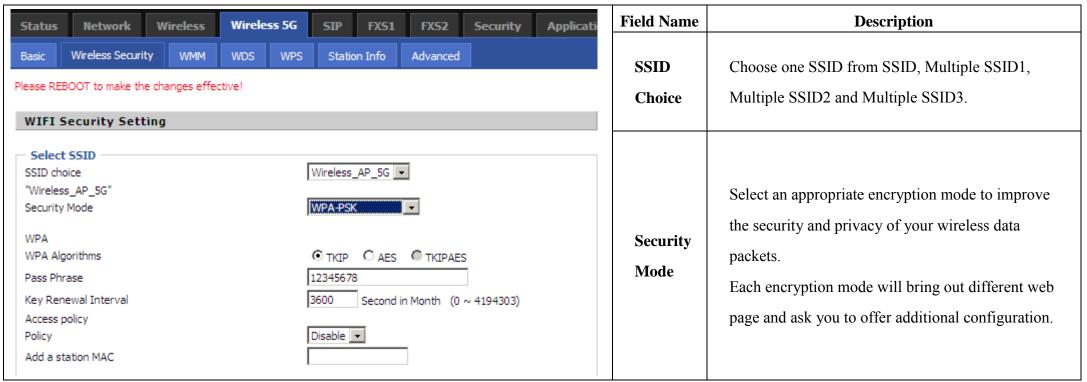
The page 45 of 79 Revision time: 2014-12-04

BSSID	A group of wireless stations and a WLAN
	access point (AP) consists of a basic access device (BSS), each computer in the BSS must
	be configured with the same BSSID, that is, the
	wireless AP logo.
Frequency (Channel)	You can select Auto Select and channel
	1/2/3/4/5/6/7/8/9/10/11.
HT Physical Mode	1. Mixed Mode: In this mode, the previous
Operating	wireless card can recognize and connect to the Pre-N AP, but the throughput will be affected
Mode	2. Green Field: high throughput can be
	achieved, but it will affect backward
	compatibility, and security of the system
Channel Bandwidth	Select channel bandwidth, default is 20MHz and 20/40MHz.
Guard Interval	The default is automatic, in order to achieve
	good BER performance, you must set the
	appropriate guard interval
MCS	Position control signal, options are 0 to 32, the default is automatic
D D: 4:	You can choose to enable or disable this
Reverse Direction	privilege
(RDG)	
STBC	
VHT Bandwidth	
VHT STBC	
VHT Short GI	
VHT BW Signaling	
VHT LDPC	

The page 46 of 79 Revision time: 2014-12-04



4.5.2 Wireless Security



Select a different encryption mode, the web interface will be different, user can configure the corresponding parameters under the mode you select. Please refer to 4.4.2 section.

4.5.3 WMM

Please refer to 4.4.3 section.

4.5.4 WDS

Please refer to 4.4.4 section

4.5.5 WPS

Please refer to 4.4.5 section.

The page 47 of 79 Revision time: 2014-12-04



4.5.6 Station Info

Please refer to 4.4.6 section.

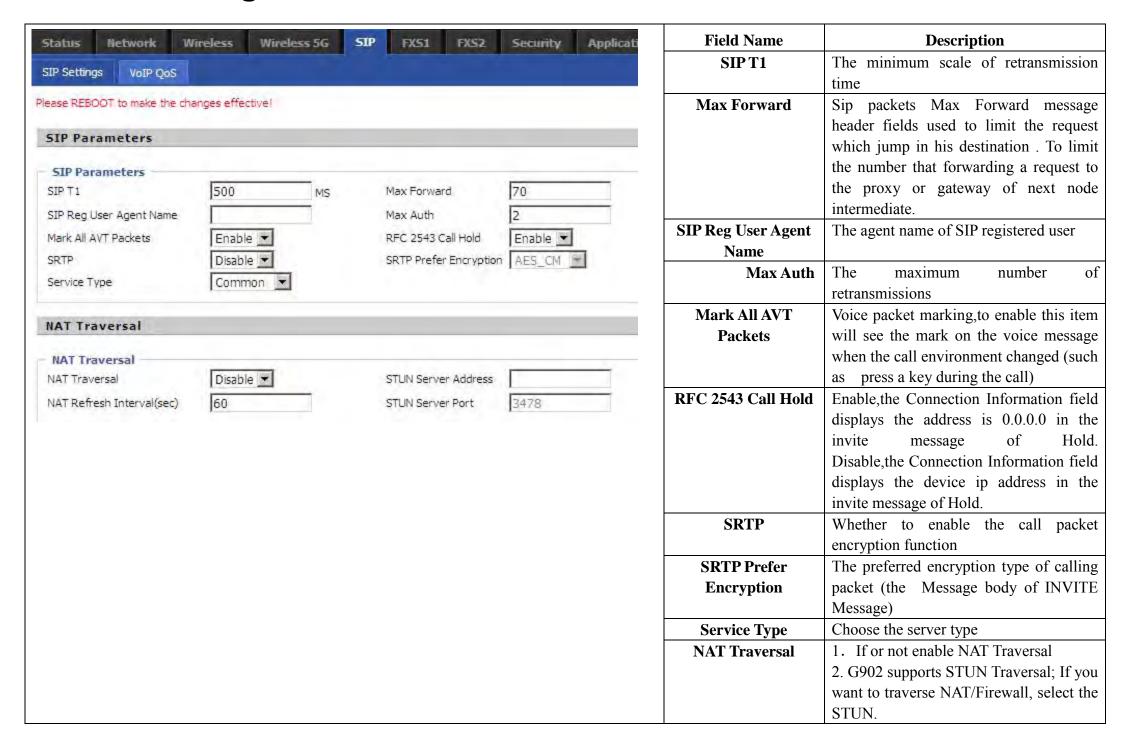
4.5.7 Advanced

Please refer to 4.4.7 section.



4.6 SIP

4.6.1 SIP Settings



The page 49 of 79 Revision time: 2014-12-04



	V 1.1
STUN Server	Add the correct STUN service provider
Address	IP address.
NAT Refresh	Set NAT Refresh Interval, default is 60s.
Interval	
STUN Server Port	Set STUN Server Port, default is 5060.

4.6.2 VoIP Qos

QoS Settings	Field Name	Description
SIP QoS(0-63) 0	SIP/RTP QoS	The default value is 0,you can set a range of values is
RTP QoS(0-63) 0		0~63

4.7 FXS1

4.7.1 SIP Account

1. Basic

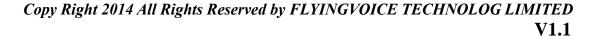
Set the basic information provided by your VOIP Service Provider, such as Phone Number, Account, password, SIP Proxy and so on.

The page 50 of 79 Revision time: 2014-12-04



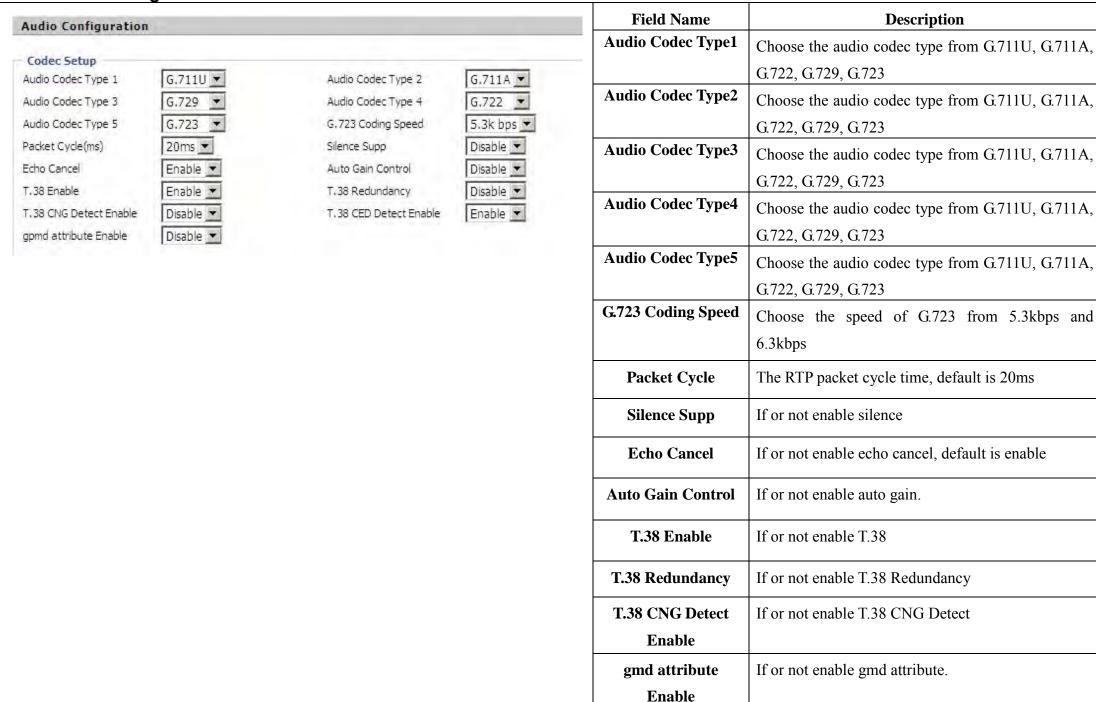
Basic				Field Name	Description
Basic Setup		20.175	-	Line Enable	If or not enable the line.
Line Enable	Enable 💌	Peer To Peer	Disable 💌		If or not enable PEER to PEER.
Proxy and Registration	on			Peer To Peer	If enable, SIP-1 will not send register request to
Proxy Server	192.168.10.208	Proxy Port	5060		SIP server; but in Status/ SIP Account Status
Outbound Server		Outbound Port	5060		webpage, Status is Registered; lines 1 can dial
Backup Outbound Server		Backup Outbound Port	5060		out, but the external line number cannot dialed
Subscriber Information	on				line1.
Display Name	11	Phone Number	11	Proxy Server	The IP address or the domain of SIP Server
Account	11	Password	••	Outbound Server	The IP address or the domain of Outbound Server
				Backup Outbound Server	The IP address or the domain of Backup
					Outbound Server
				Proxy port	SIP Service port, default is 5060
				Outbound Port	Outbound Proxy's Service port, default is 5060
				Backup Outbound Port	Backup Outbound Proxy's Service port, default is
					5060
				Display Name	The number will be displayed on LCD
				Phone Number	Enter telephone number provided by SIP Proxy
				Account	Enter SIP account provided by SIP Proxy
				Password	Enter SIP password provided by SIP Proxy

The page 51 of 79 Revision time: 2014-12-04





2. Audio Configuration



The page 52 of 79 Revision time: 2014-12-04



3. Supplementary Service Subscription

Supplementary Ser	rvice Subscription			Field Name	Description
Supplementary Serv	ices			Call Waiting	If or not enable Call Waiting
Call Waiting	Enable 💌	Hot Line		Hot Line	Fill in the hotline number.
MWI Enable	Enable 💌	Voice Mailbox Numbers			Pickup handset or press handsfree/headset
MWI Subscribe Enable	Disable 💌	VMWI Serv	Enable 💌		button, the device will dial out the hotline
DND	Disable 💌				number automatically.
				MWI Enable	If or not enable MWI (message waiting
Speed Dial Speed Dial 2		Speed Dial 3			indicate). If the user needs to user voice mail,
Speed Dial 4		Speed Dial 5			please enable this feature.
Speed Dial 6		Speed Dial 7			
Speed Dial 8		Speed Dial 9		MWI Subscribe Enable	If or not enable MWI Subscribe
Speed Dial 6	4	General		Voice Mailbox Numbers	Fill in the voice mailbox phone number,
					Asterisk platform, for example, its default
					voice mail is *97
				VMWI Serv	If or not enable VMWI service.
				DND	If or not enable DND (do not disturb).
					If enable, any phone call cannot arrive at the
					device; default is disable.
					Enter the speed dial phone numbers.
				Speed Dial	Dial *74 to active speed dial function.
					Then press the speed dial numbers, for
					example, press 2, phone will dial
					075526099365 directly.

The page 53 of 79 Revision time: 2014-12-04



4. Advanced

Advanced			
Advanced Setup			
Domain Name Type	Enable 🔻	Carry Port Information	Disable 💌
Signal Port	5060	DTMF Type	RFC2833 ▼
RFC2833 Payload(>=96)	101	Register Refresh Interval (sec)	3600
RTP Port	0 (=0 auto select)	Cancel Message Enable	Disable 🔻
Session Refresh Time(sec)	0	Refresher	UAC ▼
Prack Enable	Disable 💌	SIP OPTIONS Enable	Disable 💌
Primary SER Detect Interval	0	Max Detect Fail Count	3
Keep-alive Interval(10-60s)	15	Anonymous Call	Disable 💌
Anonymous Call Block	Disable 🔻	Proxy DNS Type	A Type
Use OB Proxy In Dialog	Disable 💌	Reg Subscribe Enable	Disable 💌
Dial Prefix		User Type	IP 💌
Hold Method	ReINVITE 💌	Request-URI User Check	Disable 💌
Only Recv Request From Server	Disable 💌	Server Address	
SIP Received Detection	Disable 💌	VPN	Disable 💌
Country Code		Remove Country Code	Disable 💌
Caller ID Header	FROM		

	Field Name	Description						
	Domain Name Type	If or not use domain name in the SIP URI.						
m())	Carry Port Information	If or not carry port information in the SIP URI.						
-	Signal Port	The local port of SIP protocol, default is 5060.						
-	DTMF Type	Choose the DTMF type from Inbound,						
	••	RFC2833 and SIP INFO.						
-	RFC2833 Payload(>=96)	User can use the default setting.						
-	Register Refresh Interval	The interval between two normal Register						
		messages. You can use the default setting.						
	RTP Port	Set the port to send RTP.						
		The device will select one idle port for RTP if						
		you set "0"; otherwise use the value which user						
		sets.						
	Cancel Message Enable	When you set enable, an unregistered message						
		will be sent before registration, while you set						
		disable, unregistered message will not be sent						
		before registration. You should set the option						
		for different Proxy.						
	Session Refresh Time(sec)	Time interval between two sessions, you can						
		use the default settings.						
	Refresher	Choose refresher from UAC and UAS.						
	Prack Enable	If or not enable prack.						
	SIP OPTIONS Enable	When you set enable, the device will send						
		SIP-OPTION to the server, instead of sending						
		periodic Hello message. The sending interval is						
		Keep-alive interval.						
	Primary SER Detect	Test interval of the primary server, the default						
	Interval	value is 0, it represents disable.						
	Max Detect Fail Count	Interval of detection of the primary server fail;						
		the default value is 3, it means that if detect 3						

The page 54 of 79 Revision time: 2014-12-04



	V1.1
	times fail; the device will no longer detect the
	primary server.
Keep-alive Interval(10-60s)	The interval that the device will send an empty
	packet to proxy.
Anonymous Call	If or not enable anonymous call.
Anonymous Call Block	If or not enable anonymous call block.
Proxy DNS Type	Set the DNS server type, choose from A type
	and DNS SRV.
Use OB Proxy In Dialog	If or not use OB Proxy In Dialog.
Reg Subscribe Enable	If enable, subscribing will be sent after
	registration message, if not enable, do not send
	subscription.
Dial Prefix	The number will be added before your
	telephone number when making calls.
User Type	Choose the User Type from IP and Phone.
Hold Method	Choose the Hold Method from ReINVITE and
	INFO.
Request-URI User Check	If or not enable the user request URI check.
Only Recv request from	If or not enable the only receive request from
server	server.
Server Address	The IP address of SIP server.
SIP Received Detection	If or not enable SIP Received Detection, if
	enable, use it to confirm the public network
	address of the device.

4.7.2 Preferences

1. Volume Settings

			Field Name	Description
			Handset Input Gain	Adjust the handset input gain from 0 to 7.
5 🕶	Handset Volume	5 🔻	Handset Volume	Adjust the output gain from 0 to 7.
	5 💌	5 ▼ Handset volume	Handset volume 5	Handset Input Gain

The page 55 of 79 Revision time: 2014-12-04



2. Regional

Regional -				Field Name	Description
Tone Type	USA 💌			Tone Type	Choose tone type form China, US, Hong Kong
Dial Tone					and so on.
Busy Tone				Dial Tone	Dial Tone
Off Hook Warning Tone Ring Back Tone					
Call Waiting Tone				Busy Tone	Busy Tone
		in the second of the second	To a	Off Hook Warning Tone	Off Hook warning tone
Min Jitter Delay(ms) Ringing Time(sec)	60	Max Jitter Delay(ms)	80	Ring Back Tone	Ring back tone
Ring Waveform	Sinusoid 🔻	Ring Voltage(40-63 Vrms)	45	Call Waiting Tone	Call waiting tone
Ring Frequency	25	VMWI Ring Splash Len(sec)	0.5	Min Jitter Delay	The Min value of home gateway's jitter delay,
Flash Time Max(sec)	0.9	Flash Time Min(sec)	0.1	·	home gateway is an adaptive jitter mechanism.
			0.0	Max Jitter Delay	The Max value of home gateway's jitter delay,
					home gateway is an adaptive jitter mechanism.
				Ringing Time	How long G902 will ring when there is an
					incoming call.
				Ring Waveform	Select regional ring waveform, options are
					Sinusoid and Trapezoid, the default Sinusoid.
				Ring Voltage	Set ringing voltage, the default value is 70
				Ring Frequency	Set ring frequency, the default value is 25
				VMWI Ring Splash	Set the VMWI ring splash length, default is 0.5s.
				Len(sec)	
				Flash Time Max(sec)	Set the Max value of the device's flash time, the
					default value is 0.9
				Flash Time Min(sec)	Set the Min value of the device's flash time, the

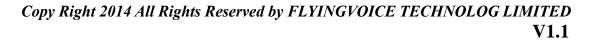
The page 56 of 79 Revision time: 2014-12-04





3. Features and Call Forward

				Fi	eld Name	Description
Features					All Forward	If or not enable forward all calls
All Forward	Disable 💌	Busy Forward	Disable 🕶	Features	Busy Forward	If or not enable busy forward.
No Answer Forward	Disable 💌				No Answer	If or not enable no answer forward.
					Forward	
Call Forward					All Forward	Set the target phone number for all forward.
All Forward		Busy Forward		Call		The device will forward all calls to the phone
No Answer Forward		No Answer Timeout	20	Forward		number immediately when there is an
				-		incoming call.
Feature Code					Busy Forward	The phone number which the calls will be
Hold Key Code	*77	Conference Key Code	*88			forwarded to when line is busy.
Transfer Key Code	*98	IVR Key Code	de ac ar ar		No Answer	The phone number which the call will be
R Key Enable	Disable 🔻	R Key Cancel Code	R1 ▼		Forward	forwarded to when there's no answer.
R Key Hold Code	R2 💌	R Key Transfer Code	R4 🕶		No Answer	The seconds to delay forwarding calls, if
R Key Conference Code	R3 🕶	Speed Dial Code	*74		Timeout	there is no answer at your phone.
					Hold key code	Call hold signatures, default is *77.
				Feature	Conference key	Signature of the tripartite session, default is
				Code	code	*88.
					Transfer key	Call forwarding signatures ,default is *98.
					code	3
					IVR key code	Signatures of the voice menu, default is ****.
					R key enable	If or not enable R key way call features.
					R key cancel	Set the R key cancel code, option are ranged
					code	from R1 to R9, default value is R1.
					R key hold code	Set the R key hold code, options are ranged from R1 to R9, default value is R2.
					R key transfer	Set the R key transfer code, options are
					code	ranged from R1 to R9, default value is R4.
					R key conference code	Set the R key conference code, options are ranged from R1 to R9, default value is R3.
					Speed Dial Code	Speed dial code, default is *74.





4. Miscellaneous

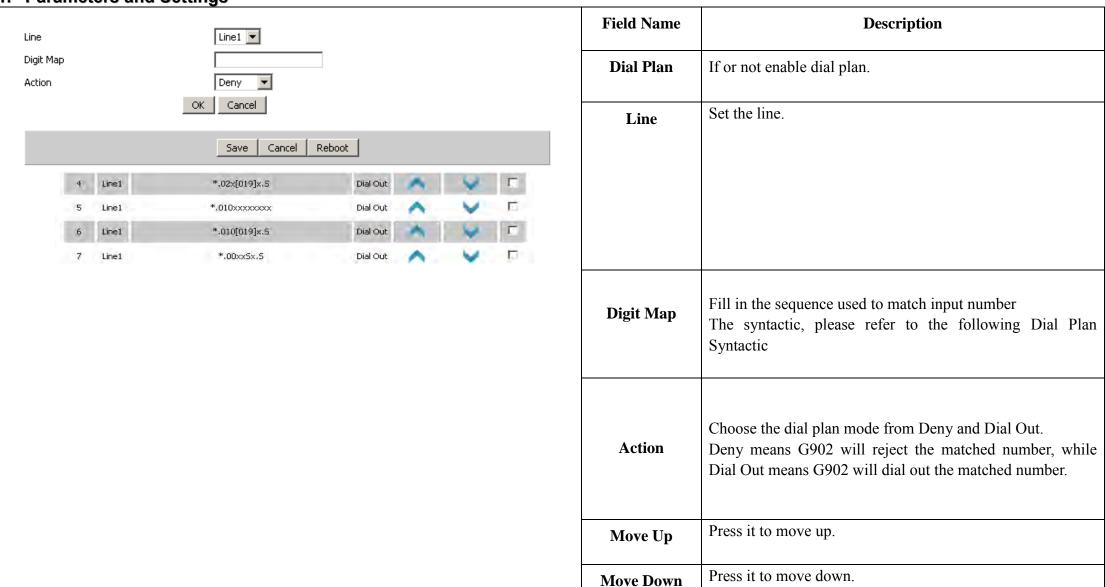
				Field Name	Description
Miscellaneous Codec Loop Current	26	Impedance Maching	US PBX,Korea,T	Codec Loop Current	Set off-hook loop current, default is 26
CID Service Caller ID Method	Enable Facilities Belicore	CWCID Service	Disable 💌	Impedance Maching	Set impedance matching, default is US PBX,Korea,Taiwan(600).
Dial Time Out(IDT) ICMP Ping	5 Disable	Call Immediately Key Escaped char enable	# ▼	CID service	If or not enable displaying caller ID; If enable, caller ID is displayed when there is an incoming call or it won't be displayed. Default is enable.
				CWCID Service	If or not enable CWCID. If enable, the device will display the waiting call's caller ID, or it won't display. Default is disable.
				Dial Time Out	How long G902 will sound dial out tone when G902 dials a number.
				Call Immediately Key	Choose call immediately key form * or #.
				ICMP Ping	If or not enable ICMP Ping. If enable this option, home gateway will ping the SIP
					Server every interval time, otherwise, It will send "hello" empty packet to the SIP Server.
				Escaped char enable	Open special character translation function; if enable, when you press the # key, it will be translated
					to 23%, when disable, it is just #

The page 58 of 79 Revision time: 2014-12-04



4.7.3 Dial Plan

1. Parameters and Settings





2. Adding one dial plan:

Dial Plan			Step 1. Enable Dial Plan	
General Dial Plan	Enable 🔽		Step 2. Click Add button, and the configuration table	
	7		Step 3. Fill in the value of parameters.	
No. PXS	Digit Map	Action Move Up Move Down	Step 4.Press OK button to end configuration.	
FXS	FXS 1 🕶		Step 5. Press Save button to save changes	
Digit Map				
Action	Deny			
	OK Cancel			

3. Dial Plan Syntactic

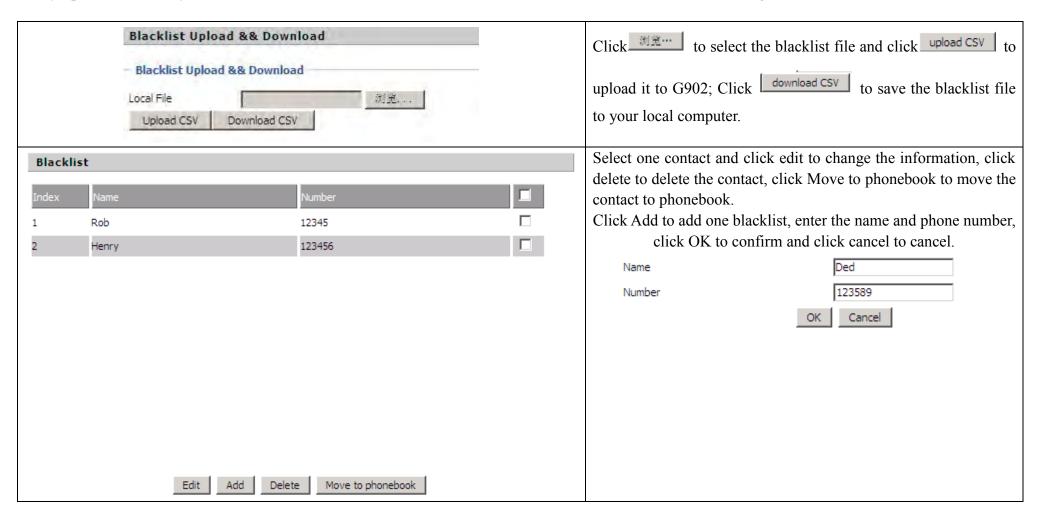
No.	String	Description				
1	0123456789*#	Legal characters				
2	X	Lowercase letter x stands for one legal character				
3	[sequence]	To match one character form sequence. For example: 6. [0-9]: match one digit form 0 to 9 7. [23-5*]: match one character from 2 or 3 or 4 or 5 or *				
4	X.	Match to x ⁰ , x ¹ , x ² , x ³ x ⁿ For example: "01.":can match "0", "01", "011", "0111", "0111"				
5	<dialed:substituted></dialed:substituted>	Replace dialed with substituted. For example: <8:1650>123456: input is "85551212", output is "16505551212"				
6	x,y	Make outside dial tone after dialing "x", stop until dialing character "y" For example: "9,1xxxxxxxxxxx":the device reports dial tone after inputting "9", stops tone until inputting "1" "9,8,010x": make outside dial tone after inputting "9", stop tone until inputting "0"				
7	Т	Set the delayed time. For example: "<9:111>T2": The device will dial out the matched number "111" after 2 seconds.				

The page 60 of 79 Revision time: 2014-12-04



4.7.4 Blacklist

In this page, user can upload or download blacklist file, and can add or delete or edit blacklist one by one.



4.7.5 Call Log

To view the call log information such as redial list (incoming call), answered call and missed cal



Redia	nl List			Redial List
Index	NUMBER	Start Time	Duration	
1	123	10/28 10:30	00:00:07	
2	010123	10/28 12:02	00:00:01	
3	010123	10/28 16:16	00:00:00	
4	010123	10/28 16:16	00:00:00	
5	123	10/28 16:20	00:00:13	
6	123	10/28 16:21	00:00:34	
7	123	10/29 10:50	00:00:10	
8	123	10/29 14:36	00:00:01	
9	123	10/29 15:05	00:00:23	
10	123	10/29 15:06	00:00:05	
	100	40100 45 07	00.00.04	
Answ	ered Calls			Answered Calls
Index	NUMBER	Start Time	Duration	
l	22222	10/21 09:56	00:00:40	
2	110	10/21 18:14	00:00:03	
3	110	10/21 18:15	00:00:07	
+	sipp	10/23 13:40	00:00:06	
i	sipp	10/24 18:05	00:00:05	
5	sipp	10/24 18:05	00:00:05	
7	sipp	10/25 15:38	00:00:03	
3	sipp	10/25 15:42	00:00:06	
)	sipp	10/25 15:55	00:00:10	
.0	sipp	10/25 16:03	00:00:02	
		10/05/17	00 00 00	
Misse	d Calls			Missed Call
Index	NUMBER	Start Time	Duration	
	110	10/21 09:50	00:00:03	
	555	10/22 12:04	00:00:03	

The page 62 of 79 Revision time: 2014-12-04



4.8 FXS2

The settings of FXS2 are the same as FXS1.

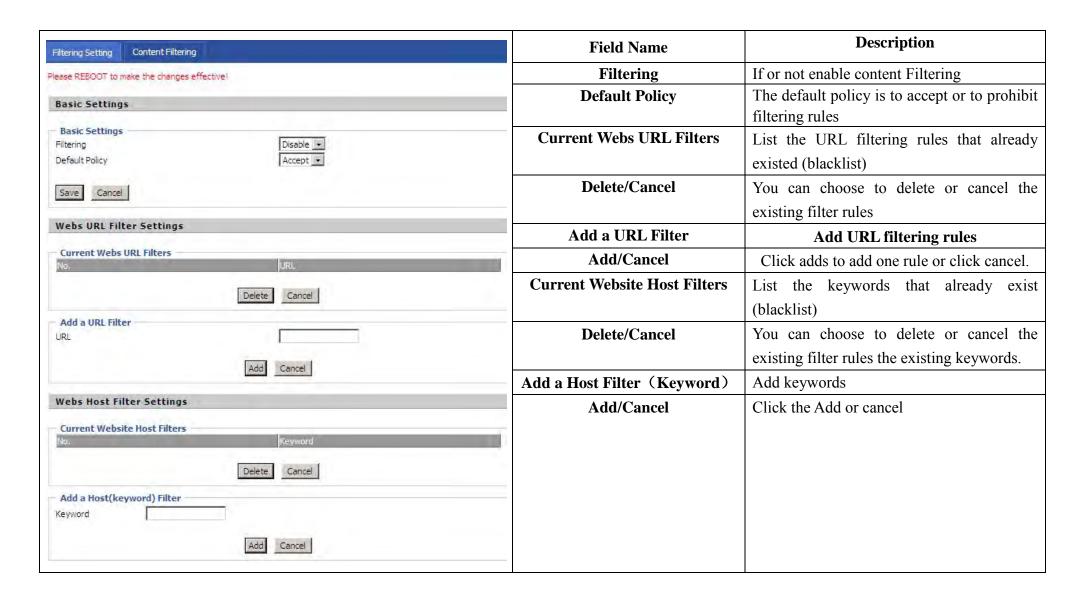
4.9 Security

4.9.1 Filtering Setting

Basic Settings		Field Name	Description
Basic Settings		Filtering	If or not enable filter function
Filtering Default Policy	Drop -	Default Policy	Choose to give up or accept
The packet that don't match with any rules wo		Mac address	Add the Mac address filtering
Save Cancel		Dest IP address	Dest IP address
		Source IP address	Source IP address
IP/Port Filter Settings Mac address Dest IP Address		Protocol	Select a protocol name, support for TCP, UDP and TCP&UDP
Source IP Address		Dest. Port Range	Destination port ranges
Protocol	NONE -	Src Port Range	Source port range
Dest. Port Range Src Port Range Action Comment (The maximum rule count is 32)	Drop 🔻	Action	You can choose to receive or give up; this should be consistent with the default policy.
Save Cancel			
Current MAC/IP/Port filtering rules in s Mac Dest IP Source IP No. address Address Address Others	Dest. Port Stc Port Protocol Range Range A would be dropped.	Comment	Add callout
Delete Cancel		Delete	Delete selected item



4.9.2 Content Filtering



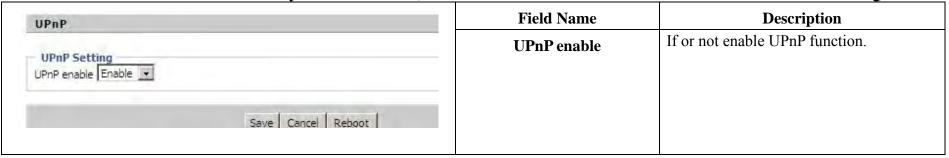


4.10 Application

4.10.1 UPnP

UPnP (Universal Plug and Play) support zero setting networking, and can automatically discover a variety of networked devices. UPnP is enabled, allows the device supports UPnP function dynamically access network, obtain an IP address, and convey its performance information. If the network has a DHCP and DNS server, you can automatically obtain DHCP and DNS services.

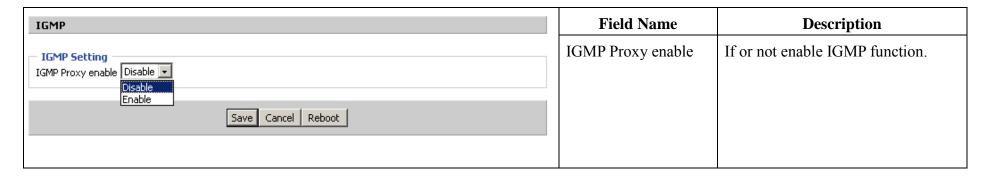
Supports UPnP devices can be automatically off the network, the device or other devices on the network without affecting.



4.10.2 IGMP

Multicast has the ability to send the same data to multiple devices.

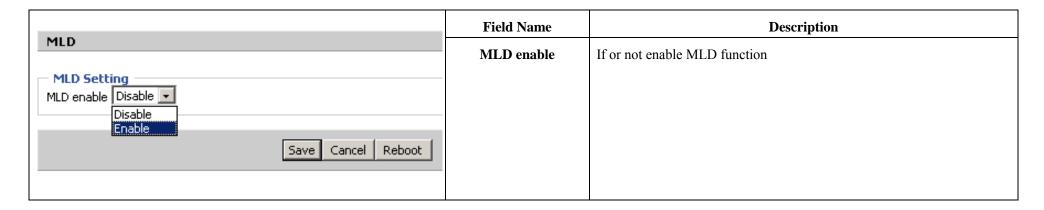
IP hosts use IGMP (Internet Group Management Protocol) report multicast group memberships to the neighboring routers to transmit data, at the same time, the multicast router use IGMP to discover which hosts belong to the same multicast group.



The page 65 of 79 Revision time: 2014-12-04



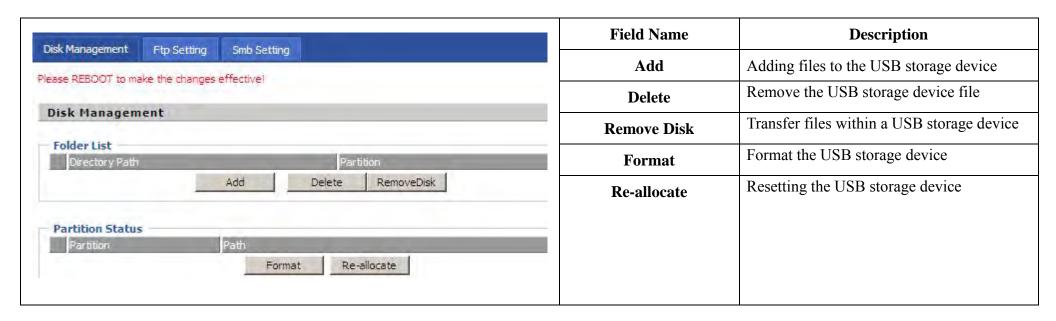
4.10.3 MLD



4.11 Storage

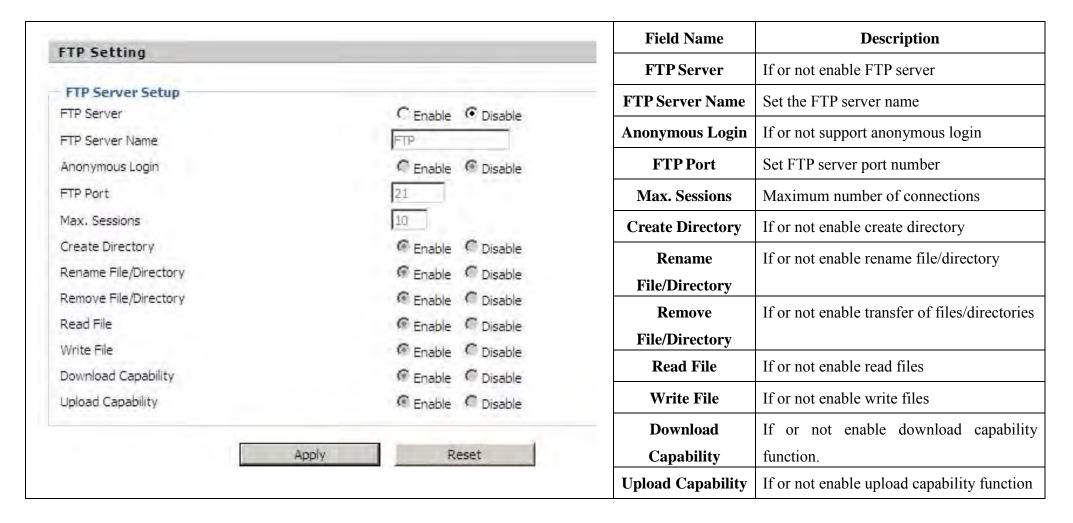
4.11.1 Disk Management

This page is used to manage the USB storage device.

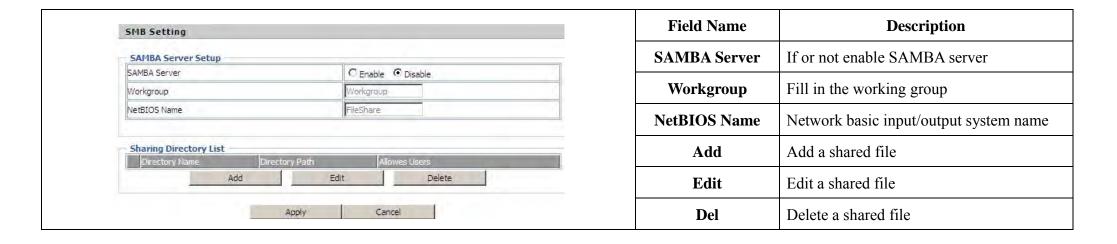




4.11.2 FTP Setting



4.11.3 Smb Setting



The page 67 of 79 Revision time: 2014-12-04



4.12 Administration

Use can manage the device in these webpage; you can configure the Time/Date, password, web access, system log and associated configuration TR069

4.12.1 Management

You can configure the value of Time/Date, password, web access, and system log and so on.

1. Save config file

Save Config File	Field Name	Description	
Config File Upload && Download	Config file	Upload: click on browse, select file in the local, press the upload button to begin	
Local File 浏览…	upload and	uploading files	
Upload Download	download	Download: click to download, and then select contains the path to download the configuration file	

2. Administrator settings

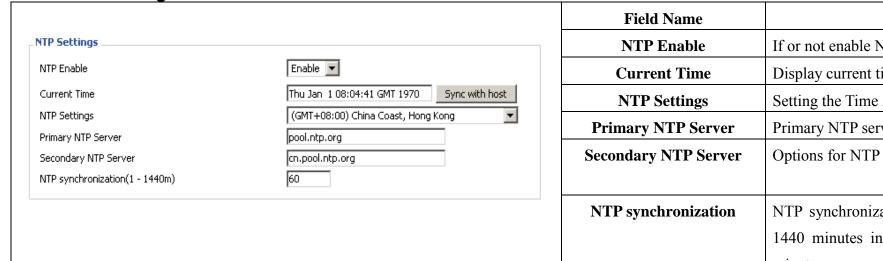
Administrator Settings		Field Name	Description
Password Reset User Type	Admin User	User type	Choose the user type from admin user and normal user and basic user.
New User Name New Password	admin	New User Name	You can modify the user name, set up a new user name
Confirm Password		New Password	Input the new password
• manage		Confirm Password	Input the new password again
Language Language	English	Language	Select the language for the web, the device support Chinese, English, and Spanish and so on.
Web Access Remote Web Login	Enable 🔻	Remote Web Login	If or not enable remote Web login
Web Port Web Idle Timeout(0 - 60m)	80 5	Web Port	Set the port value which is used to login from Internet port and PC port, default is 80.
Allowed Remote IP(IP1;IP2;) Telnet Access		Web Idle timeout	Set the Web Idle timeout time. The webpage can be logged out after Web Idle Timeout without any operation.
Remote Telnet Telnet Port Allowed Remote IP(IP1;IP2;)	Enable •	Allowed Remote IP(IP1,IP2,)	Set the IP which can login the device remotely.
The second second second		Remote Telnet	If or not enable remote telnet login
		Telnet Port	Set the port value which is used to telnet the device.

The page 68 of 79 Revision time: 2014-12-04

Description



3. NTP settings



If or not enable NTP Display current time Setting the Time Zone Primary NTP server's IP address or domain name Options for NTP server's IP address or domain name NTP synchronization cycle, cycle time can be 1 to 1440 minutes in any one, the default setting is 60 minutes

4. Daylight Saving Time

Daylight Saving Time	Enable 💌
Offset	60 Min.
Start Month	April
Start Day of Week	Sunday
Start Day of Week Last in Month	First in Month
Start Hour of Day	2
Stop Month	October
Stop Day of Week	Sunday
Stop Day of Week Last in Month	Last in Month
Stop Hour of Day	2

Set the summer time steps:

Step 1. Enable Daylight Saving Time.

Step 2. Set value of offset, like the upon picture

Step 3: Set staring Month/Week/Day/Hour in Start Month/Start Day of Week Last in Month/Start Day of Week/Start Hour of Day, analogously set stopping Month/Week/Day/Hour in Stop Month/Stop Day of Week Last in Month/Stop Day of Week/Stop Hour of Day.

Step 4.Press **Saving** button to save and press **Reboot** button to active changes.

5. System Log Setting

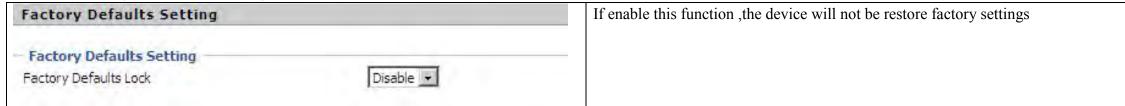
The page 69 of 79 Revision time: 2014-12-04



V1.1

Surlag Satting		Field Name	Description
Syslog Setting Syslog Enable	Enable 🔻	Syslog Enable	If or not enable syslog function
Syslog Level	INFO 🔻	Syslog Level	Select the system log, there is INFO and Debug two
Remote Syslog Enable	Enable 💌		grades, the Debug INFO can provide more information.
Remote Syslog Server	192.168.10.101	Remote Syslog Enable	If or not enable remote syslog function.
		Remote Syslog server	Add a remote server IP address.

6. Factory Defaults Setting



7. Packet Trace



Users can use the packet trace feature intercepts the packets that were sent. Click the Start button, start dhome gateway tracking and keep refreshing the page until the message trace shows to stop, click the Save button to save captured packets.

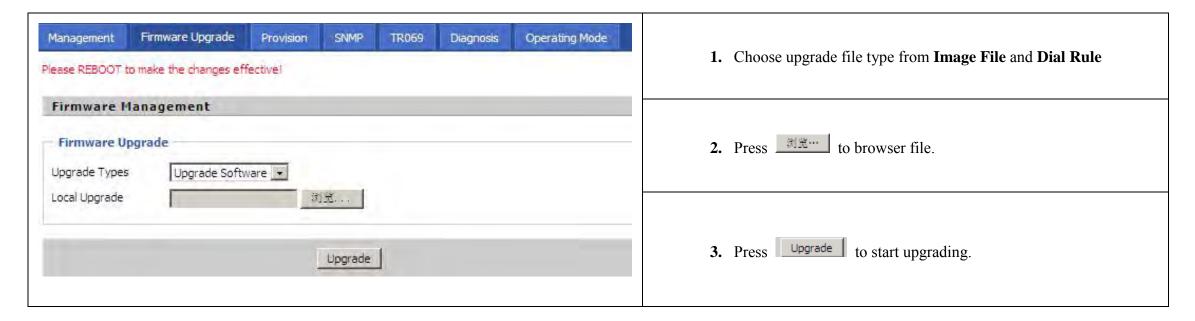
8. Factory Defaults

Factory Defaults		Click Factory Default to restore the residential gateway to factory settings.
Reset to Factory Defaults	Factory Default	

The page 70 of 79 Revision time: 2014-12-04



4.12.2 Firmware Upgrade

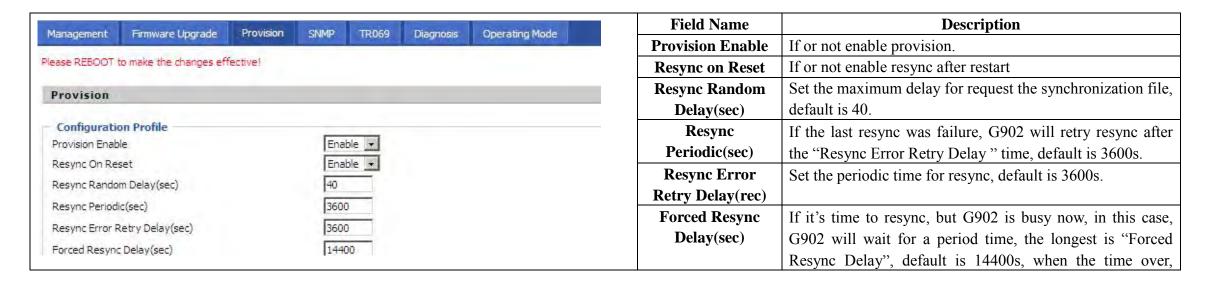


4.12.3 Provision

Provisioning allows G902 auto-upgrading and auto-configuring, and Flyingvoice devices support TFTP, HTTP and HTTPs three ways.

- 1. Before testing or using TFTP, user should have tftp server and upgrading file and configuring file.
- 2. Before testing or using HTTP, user should have http server and upgrading file and configuring file.
- 3. Before testing or using HTTPS, user should have https server and upgrading file and configuring file and CA Certificate file(should same as https server's) and Client Certificate file and Private key file(HTTPS provision will be supported soon)

User can uploading CA Certificate file and Client Certificate file and Private Key file in Security page.

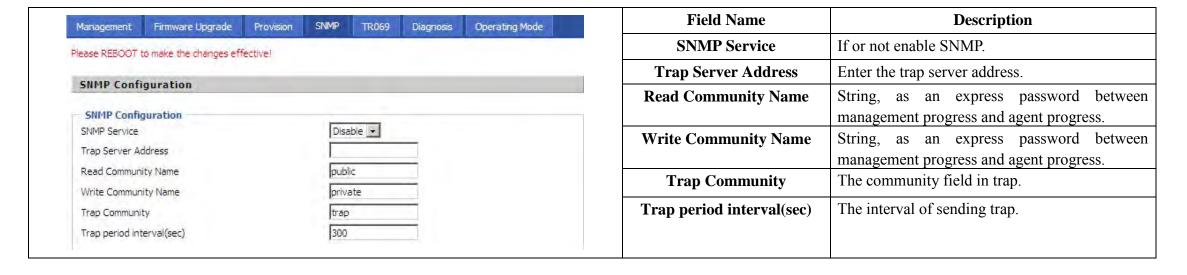


The page 71 of 79 Revision time: 2014-12-04



				G902 will forced to resync.
Resync After Upgrade	Enable 💌		Resync After	If or not enable firmware upgrade after resync, by default it
Resync From SIP	Disable 💌		Upgrade	is enabled.
Option 66	Enable 💌		Resync From SIP	If or not enable resync from SIP.
Config File Name	\$(MA)		Option 66	It is used for In-house provision mode only. When use
User Agent				TFTP with option 66 to realize provisioning, user must
Profile Rule				input right configuration file name in IP542N's webpage.
	8			When disable Option 66 , this parameter has no effect.
			Config File Name	It is used for In-house provision mode only. When use
				TFTP with option 66 to realize provisioning, user must
				input right configuration file name in the webpage. When
				disable Option 66 , this parameter has no effect.
			Profile Rule	URL of profile provision file
				Note that the specified file path is relative to the TFTP
				server's virtual root directory.
_ Firmware Upgrade			Field Name	Description
Upgrade Enable	Enable V	-	Upgrade Enable	If or not enable firmware upgrade via provision.
Upgrade Error Retry Delay(sec)	3600	-	Upgrade Error	If the last upgrade fails, G902 will try upgrading again after
Upgrade Rule			Retry Delay(sec)	"Upgrade Error Retry Delay" period, default is 3600s.
		<u> </u>	Upgrade Rule	URL of upgrade file
			Upgrade Rule	URL of upgrade file

4.12.4 SNMP



The page 72 of 79 Revision time: 2014-12-04





4.12.5 TR069

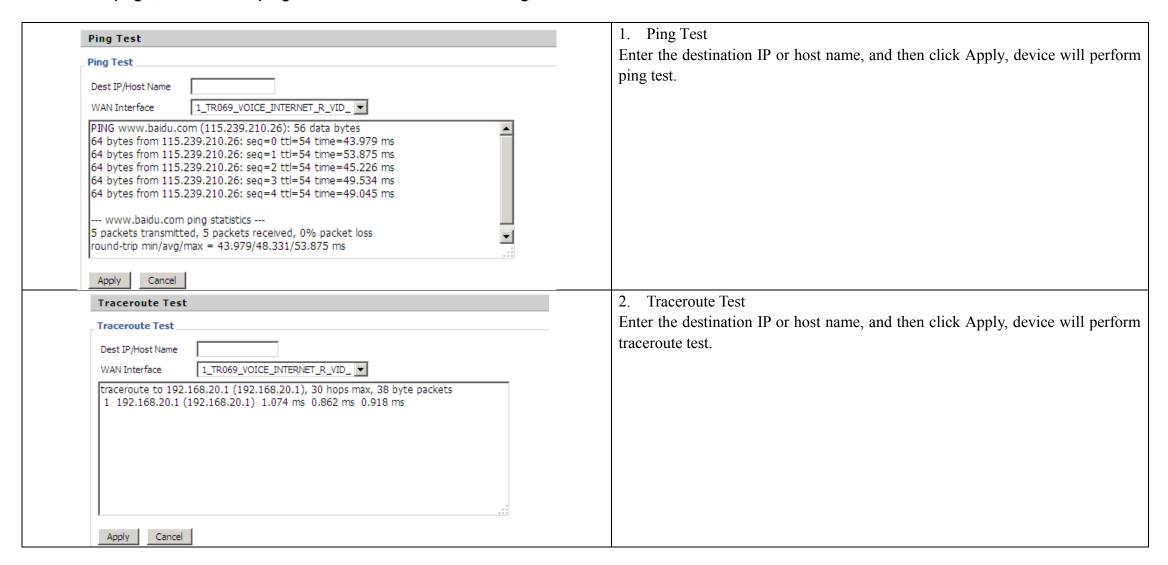
Management	Firmware Upgrade	Provision	SNMP	TR069	Diagnosis	Operating Mode	Field Name	Description
Please REBOOT	to make the changes e	ffectivel				TR069 Enable	If or not enable TR069	
TR069 Con	findustian.						CWMP	If or not enable CWMP
	nguration						ACS URL	ACS URL address
TR069 Enable	Disab	le 💌					User Name	ACS username
CWMP	Enab	le 💌			5		Password	ACS password
ACS URL							Periodic Inform Enable	If or not enable the function of periodic inform,
User Name Password								default is enable
Periodic Inform	n Enable Enab	le 🔻					Periodic Inform	Periodic notification interval, the unit is
Periodic Inform	n Interval 30						Interval	seconds, default is 43200s
							User Name	The username used to connect the TR069
Connect Re	quest				2			server to the DUT.
User Name						Password	The password used to connect the TR069	
Password								server to the DUT.

The page 73 of 79 Revision time: 2014-12-04

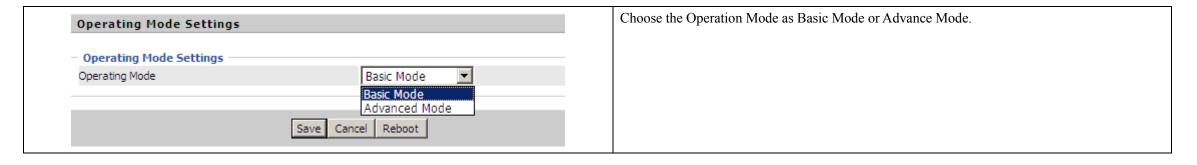


4.12.6 Diagnoisis

In this page, user can do ping test and traceroute test to diagnose the device's connection status.



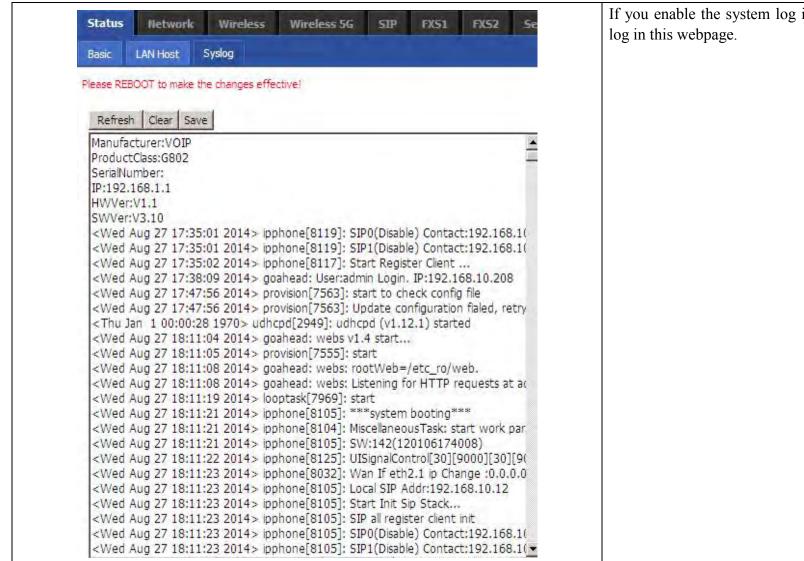
4.12.7 Operation Mode



The page 74 of 79 Revision time: 2014-12-04



4.13 System Log



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

4.14 Logout

Firmware Version V3.10
Current Time Fri Aug 29 09:05:53 GMT 2014
Admin Mode | Logout]

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

The page 75 of 79 Revision time: 2014-12-04



4.15 Reboot

Press the Reboot button to reboot G902.

The page 76 of 79 Revision time: 2014-12-04



5Trouble shooting of the guide

5.1 Setting your PC gets IP automatically

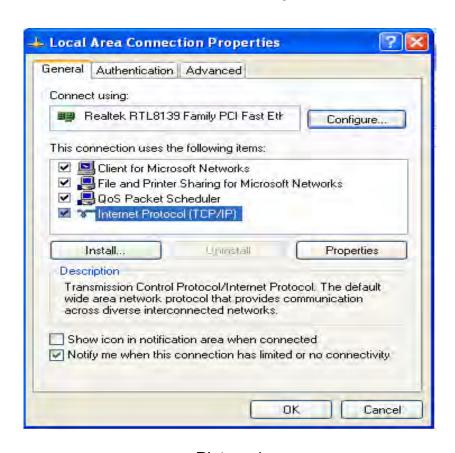
Following are the process of setting your PC gets IP automatically

Step 1.Click the "begin"

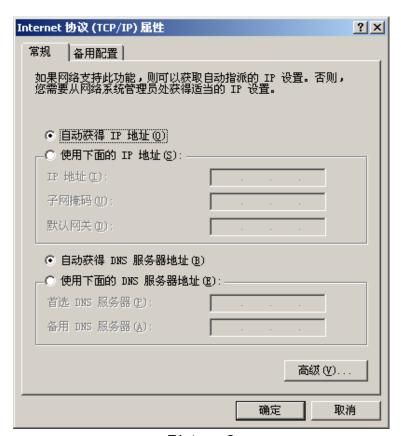
Step 2. Select "control panel", then double click "network connections" in the "control panel"

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

The page 77 of 79 Revision time: 2014-12-04



5.2 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

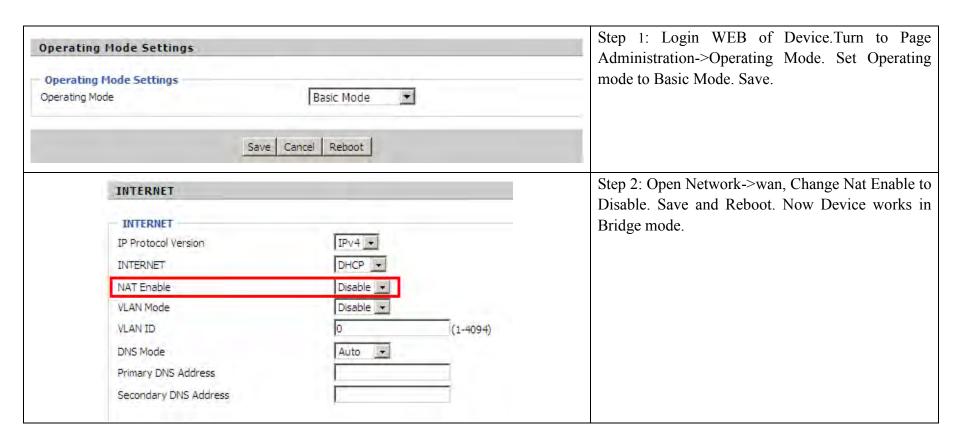
Contact your administrator, supplier, or ITSP for more information or assistance.

5.3 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.

5.4 Fast Bridge Setting



The page 78 of 79 Revision time: 2014-12-04



V1.1

Step 3: Please Login from WAN port. Under is TR069_VOICE_INTERNET Vlan Status example of Page Status->Basic. Connection Type MAC Address 00:21:F2:14:08:13 IP Address 192.168.10.225 255.255.255.0 Subnet Mask Default Gateway 192, 168, 10, 1 Primary DNS 192.168.10.1 Secondary DNS Other Vlan Status Connection Type Bridge MAC Address IP Address Subnet Mask Default Gateway Primary DNS Secondary DNS VPN Status Disable VPN Type Initial Service IP Virtual IP Address PC Port Status 192.168.0.1 IP Address Subnet Mask 255,255,255.0 Port Status Link Down