

G100S VoIP Gateway User Manual





Document VER	Firmware VER	Explanation	Time
V1.0	rc2.1.1136	Initial issue	20160808
		Alter the router mode to LAN Port	
V1.1	1.4.1505	Fixed the functional parameters	20170908
		Add the shortcut keys note	



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1 Safety Instruction

Please use the external power supply that is included in the package. Other power supply may cause damage to the device, affect the behavior.

- Before using the external power supply in the package, please check the home power voltage. Inaccurate power voltage may cause fire and damage.
- Please do not damage the power cord. If power cord or plug is impaired, do not use it, it may cause fire or electric shock.
- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- This device is design for indoor use. Do not install the device in places where there is direct sunlight. Also
 do not put the device on carpets or cushions. It may cause fire or breakdown.
- Avoid exposure the device to high temperature or below 0°C or high humidity.
- Avoid wetting the unit with any liquid.
- Do not attempt to open it. Non-expert handling of the device could damage it. Consult your authorized dealer for help, or else it may cause fire, electric shock and breakdown.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean it. Wipe it with a soft cloth that
 has been slightly dampened in a mild soap and water solution.
- When lightning, do not touch power plug, it may cause an electric shock.
- Do not install this device in an ill-ventilated place. You are in a situation that could cause bodily injury.
 Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents.



2 About Device

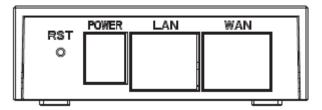
2. 1 **Product description**

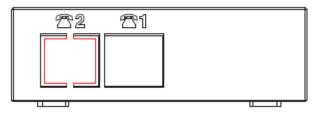
G100S is a new VoIP gateway, its core part is a proven solution for VOIP, and so the performance is stable and reliable. Compact appearance, intelligent software and simple interface, making IP gateway no longer limited to enterprise applications, but also for ordinary home users.

2. 2 **Device Appearance**



2. 2. 1 Interface and Buttons Description

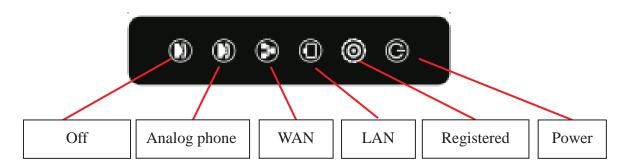




Description	Function
RST	Restore Default button. When the device is working properly, if you press this button with a sharp object (such as a pencil) until the CPU fast twinkling (about
NOT	5 seconds).Restore function will take effect after you release it.
POWER PORT	Connecting to a power source.
LAN PORT	Connecting to a computer or a PBX and so on.
WAN PORT	Connecting to the network.
FXS 1	Connecting to the analog phone.
FXS 2	N/A



2. 2. 2 Indicator Lights Description



After you insert the 12V DC power adapter to this device, power light starts to work, analog phone light comes on, then off! Registered light twinkles for a moment, WAN light and LAN light will be twinkling and then enter standby mode, when you pick up the analog phone, the analog phone light will keep on, when you hang up, the light off!

Indicator lights	Description	Function		
	Down Limbs	off	Power is invalid.	
	Power Light	on Power supply is normal.		
	CID Dogiotorod	off	SIP is not registered.	
	SIP Registered Light	twinkle	SIP registration is failed.	
		on	SIP registration is successful.	
		off	LAN port is not connected.	
	LAN Light	twinkle	LAN port is transmitting data.	
		on	LAN port connection is normal.	
		off	WAN port is not connected.	
	WAN Light	Twinkle WAN port is transmitting dat	WAN port is transmitting data.	
		on	WAN port connection is normal.	
		o#	Phone is in standby or not	
	Analog Phone Light	off	connected.	
		on Phone is being off hook.		



3 Getting Started

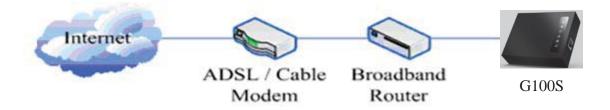
Before you start using the device, please make the following installation:

3. 1 Connecting the Power and the Network

3. 1. 1 Connecting the Network

Before this step, please make sure your environment can satisfy the requirement of broadband network access.

Please connect one end of the network cable to the device's WAN port and the other end connect to your broadband router's LAN port. Now you have completed the network hardware connection. In most of the cases, you need to set your device's network as the DHCP mode. (The default mode of the device is DHCP)



3. 1. 2 Connecting the Power

Before proceeding with this step, please make sure your power connector and electrical outlet for the agreement, at the same time, the voltage and current are also conform to what the device need.

- a) Put the DC port connect to the power port that on the back of the device.
- b) Put the AC adapter plug connect to an electrical outlet, the device starts to boot.
- c) At this point, all of your indicator lights (except the power light) will twinkle together. After the boot is completed, the indicator lights will be on according to your current configuration. (If your lights is unnormal, we need to further configure your network online mode)
- d) If the device has landed on the server, you can start a call right now.



4 Basic Phone Operation

4. 1 Call Transfer

a. Blind Transfer:

During a conversation, you press FLASH (Flash) button, enter * and the number you want to transfer, then press [#] key to confirm, you can transfer the current call to the third party. (In order to use the feature, you must enable the gateway Call Waiting function and Call Transfer function)

b. Attended Transfer:

During a conversation, you press FLASH (Flash) button, enter the number you want to transfer ,wait until telephone connected, hang up directly, you can transfer success. (In order to use the feature, you must enable the gateway Call Waiting function and Call Transfer function)

Notes:

- Call Transfer function is implemented under certain condition: there is one way of the two calls is in idle state.
- ❖ The call between Gateway (transfer side) and phone A is established, then the gateway and the phone C start another call, now you hang up the phone A, the gateway still can initiate a transfer.
- Only your network phone traffic service providers support the (RFC3515), can this function work properly

4. 2 Call Hold

a. Call Hold and Set Aside

During a conversation, you can press FLASH button, then enter the number to dial and the [#] key to confirm. You can keep your current call and build the third party at the same time. If you press the FLASH (flash) button again, you can switch back. You can only talk with one side while other parties cannot hear your conversation or talk with you. During a conversation, if you press the [*] button, the device will enter the three-party call mode. (To use this feature, you must enable the Call Waiting function of the gateway. To achieve the three-way calling mode, you must enable the Gateway Three Way Call function)

b. Call Hold and Accept Call Waiting

During a normal conversation, if there is third-party dial-in, the handset will be heard beep ~ beep ~ tips, you can use FLASH (flash) button to accept the call waiting. If you press this button



again, you can switch back. You can only talk with one side while other parties cannot hear your conversation or talk with you. (To use this feature, you must enable the Call Waiting function of the gateway)

4. 3 Shortcut key

The device can call the corresponding shortcut key through the RJ11 connected analog telephone to realize the related operation.

After the network related operation has been modified, it will need to be restarted before it becomes effective.

- #****: Reboot
- #*100: Switch to static IP mode
- #*101: Switch to DHCP mode
- #*102: Switch to PPPOE mode
- #*103: Switch to bridge mode
- #*104: Off to bridge mode
- #*111: Query IP of WAN port
- #*222: Read phone number
- #*50: Set IP of WAN port
- #*51: Set Gateway of WAN port
- #*52: Set DNS of WAN port
- #*53: Set Subnet Mask of WAN port
- #*90: Cancel the to call transfer
- #*91: Call transfer of busy
- #*92: Call transfer of unconditional
- #*93: Call transfer of no answer



5 Web Configuration

5. 1 Ways to Configure

Device offers two different configure ways to different users:

- Use web browser: the computer users who are familiar with the operation of computers. (Recommended use)
- Use the telnet tool: command line users.

5. 2 **Password Configuration**

The setting of the device's browser and command-line can be divided into two login modes: user mode and supervisor mode, under the manager mode, you can view and edit all of the options; while the **Auto Provision** option cannot be viewed under the user mode.

When a tip: 'Please enter your password' appeared on the device, you enter different information will into different modes:

User mode:

Username: adminPassword: admin

Manager mode:

Username: rootPassword: admin

5. 3 **Browser Configuration**

When the device and computer are connected to the network successfully, you enter the device WAN port IP address in the browser (gateway IP address can be get by dialing * 111 #) http://xxx.xxx.xxx.xxx / to see the web management interface login page (as shown below). Enter username and password, click **Login**> button, you will enter the setting pages.

Username:	
Password:	
	Login



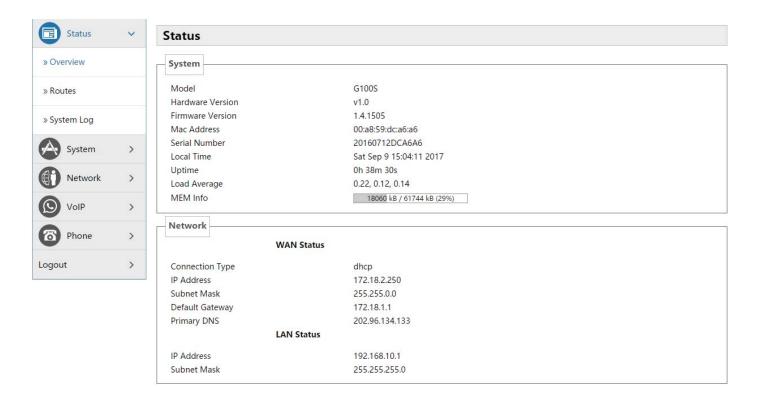
If you have not save your settings, the settings will be restored to the previous state unchanged when you boot phone next time .In order to save your settings, please click the **<Save>** button that belongs to configuration settings in the **System**, after this process, your device configuration will take effect immediately without reboot again.

Note: LAN port IP address (192.168.10.1).

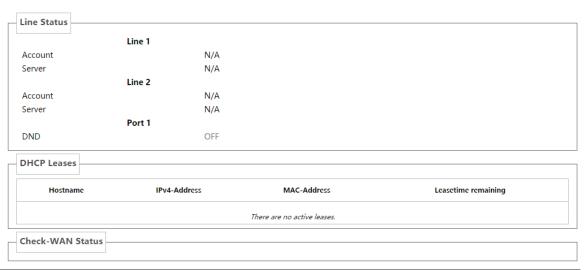
5. 4 WEB Pages Function Explanation

5. 4. 1 **Status**

5. 4. 1. 1 **Overview**





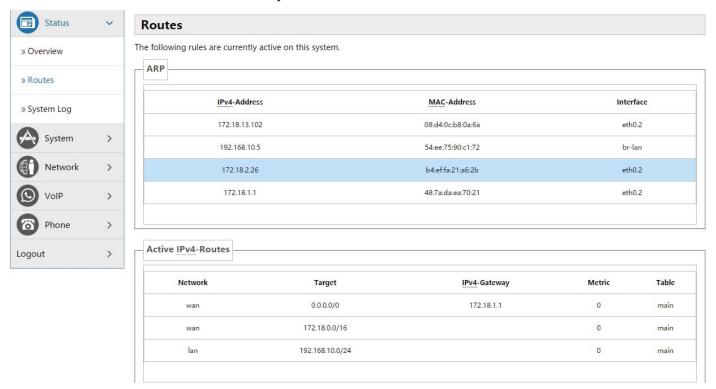


Name	Explanation		
System			
Model	Displays device model.		
Hardware Version	Displays device hardware version.		
Firmware Version	Displays device software firmware version number.		
MAC Address	Displays the current MAC address.		
Serial Name	Displays device serial number.		
Local Time	Displays the current system time		
Uptime	Displays device runtime		
Load Average	Displays the current average load value		
MEM Info	Displays the current memory status		
Network (WAN Sta	Network (WAN Status)		
Connection Type	Displays the current networking way.		
IP Address	Displays the current IP address.		
Subnet Mask	Displays the current subnet mask.		
Default Gateway	Displays the default gateway.		
Primary DNS	Displays the primary DNS.		
Line status			
Displays the current SIP line 1-2 registries number, server and status.			
DND	Open this option, any dial-in call will be blocked, the caller will be prompted		
	that the device cannot be used, but you can establish a call with the device.		
DHCP Leases	Displays host information that has been assigned IP parameters by DHCP		



5. 4. 1. 2 Routes

With this function, you can see the ARP table in the routes. The hosts IP MAC information that had connected with the device recently will be stored in the ARP list.



5. 4. 1. 3 **System Log**

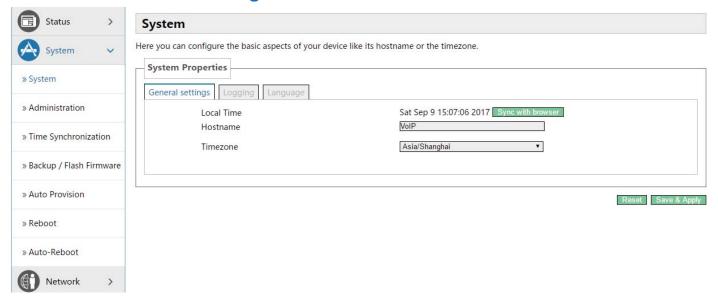
It displays activity information of the system.



5. 4. 2 **System**

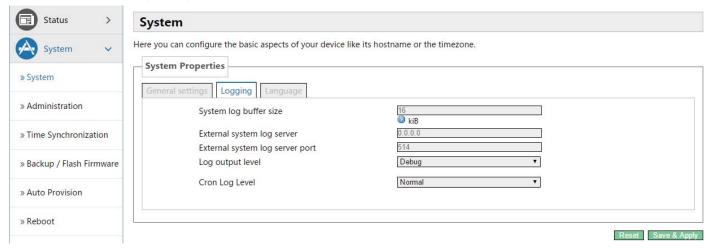
5. 4. 2. 1 **System**

5. 4. 2. 1. 1 General Settings



Name	Explanation	
General Settings		
Local Time	Displays the current system time	
Hostname	Name of the device, similar to the computer' name. The default is VoIP, you	
	can modify it by yourself.	
Timezone	Set the time zone of the area where you are.	

5. 4. 2. 1. 2 Logging





Name	Explanation
Logging	
System log buffer size	Set the log buffer size.
External log system server	Set the address of the external log server.
External Log server port	Set the port of the external log server.
Log output level	Set the level of log output.
Cron log level	Set the level of Cron log.

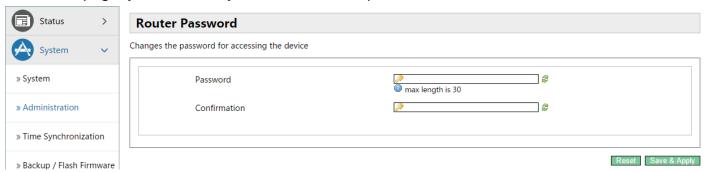
5. 4. 2. 1. 3 **Language**

In this page, you can configure the language that the device currently uses.



5. 4. 2. 2 Administration

In this page, you can modify the current user's password.



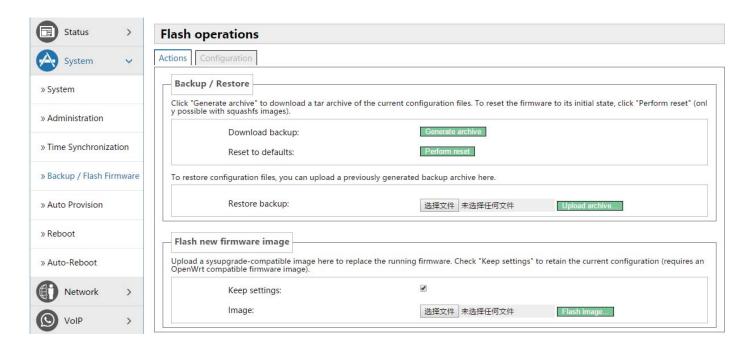


5. 4. 2. 3 Time Synchronization



Name	Explanation
Enable NTP client	Set the enable or disable NTP client
NTP server	Set the NTD conver condidates
candidates	Set the NTP server candidates

5. 4. 2. 4 Backup/Flash Firmware



Name	Explanation	
Backup/Restore		
Backup / Restore the current system configuration file or reset PandoraBox. (Squashfs only valid		
firmware)		
Flash new firmware image		
Keep settings	Preserving configuration that currently set. If the option is not selected, the	

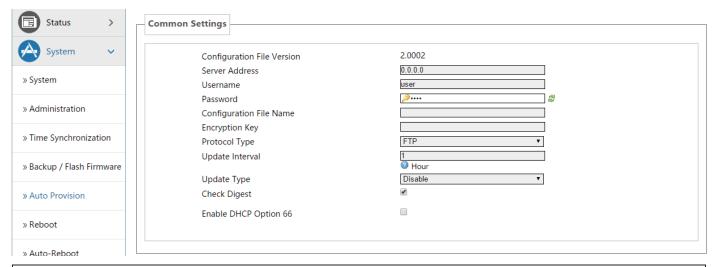


	device will automatically restore to factory configuration after upgrade.		
Image	Selects the firmware you need to update, then click < Flash image>.It is set		
	up.		



Name	Explanation
Export config	
Export current device configuration file.	
Import config	
Select the profile you need, then click <import config.txt="">.It is set up.</import>	

5. 4. 2. 5 Auto Provision



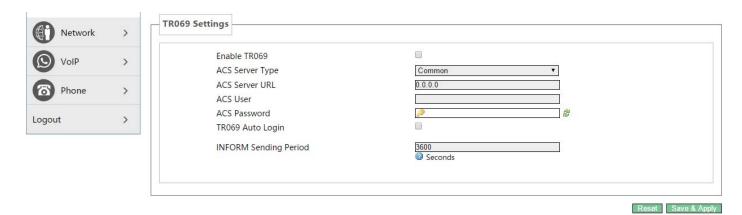
Common Setting	
Name	Explanation
Configuration File Version	Displays the version number of current system configuration file, if the Terminal
	founds the CFG configuration file that has downloaded same with configuration
	file that are running, the device will not run it. Or if the terminal matches

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	configuration file via Digest verification way, as long as the configuration on the	
	server has been modified, or the terminal configure do not match with the	
	configuration on the server, the terminal will to download and update.	
	Configures the FTP server address. The server address can be a IP form, such	
	as 192.168.1.1, it may in the form of domain names also, such as	
Comvon	ftp.domain.com. And the system also supports server setting subdirectory	
Server	function, such as the system can configure server address as	
Address	192.168.1.1/ftp/Config/form or ftp.domain.com/ftp/config form .lt means, the	
	server address to access is 192.168.1.1 or ftp.domain.com , the file storage	
	path is / ftp / Config /. Subdirectory can end without "/".	
	Configures username of FTP server; TFTP protocol need not configuration; if	
Username	you are using ftp protocol download mode, here is no need to fill, the default is	
	the default user anonymous FTP.	
Password	Configures FTP server user's password.	
	Configures the name of these configuration file need to upgrade; if you use the	
Configuration	automatic upgrade feature, this project configuration is empty generally, so our	
File Name	equipment will use its own MAC address as the file name to get the file on the	
	server.	
Encryption	If the configuration file need to update has been encrypted, you need to enter	
Key	the encryption password in this configuration.	
Protocol Type	Selects the server type. There are three types: FTP, TFTP and HTTP	
Update	Configurace the internal congress of times in bours	
Interval	Configures the interval upgrade time in hours.	
	Automatic Update Types:	
Undata Type	Update after rebooting.	
Update Type	2. Deactivated.	
	3. Updated regularly.(How often interval updated)	
Check Digest	Configure whether to use Digest mode.	
Enable DHCP	Enable/Disable DUCD ention 66	
OPTION 66	Enable/Disable DHCP option 66	





Name	Explanation
Enable TR069	Enable/Disable TR069
ACS Server	Used for choosing ACS server type, the terminal supports telecommunications
type	and the general two kinds ACS server currently.
ACS Server URL	Enter the ACS server address.
ACS User	Enter the ACS server verification username.
ACS Password	Enter the ACS server verification user password.
TR069 Auto login	If you selected the automatic login, after rebooting the phone, you will not be prompted to enter username and password, but the correct username and password you entered before link to the ACS server.
INFORM Sending Period	Check the system every 6 minutes by default.

5. 4. 2. 6 **Reboot**

Clicking the **Execute Restart**> button, the device will reboot.

Rebooting will not lost the saved configuration ,in the process of rebooting, the network connection will be interrupted temporarily .

Note: During the rebooting, please ensure stable power supply, avoid forced interruption.

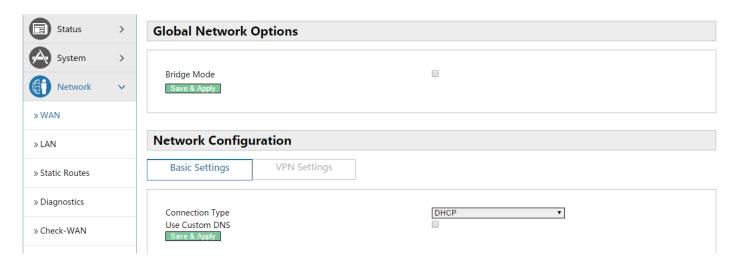
5. 4. 2. 7 **Auto-Reboot**

Config AutoReboot to restart gateway at specific time every day.



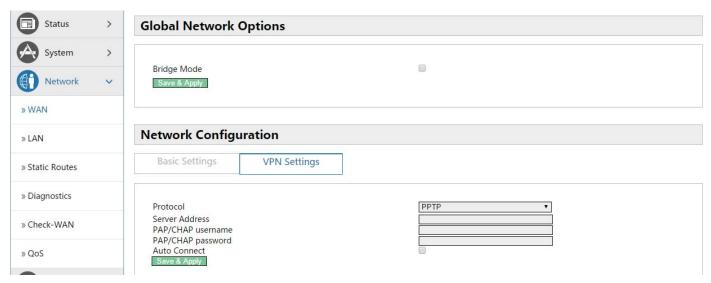
5. 4. 3 **Network**

5. 4. 3. 1 **WAN**



Name	Explanation	
Global Network	Global Network Configuration	
Bridge Mode	Use the bridge mode (transparent mode): Bridge mode will make the device no	
	longer set the IP address for achieving the LAN port, LAN port and WAN port	
	will be connected to the same network.	
Network Configuration (Basic Settings)		
The mode of device connects to the network .According to the network environment, you need to		
select the appropriate network mode. The device offers three modes:		
	If your ISP server provides a fixed IP address, you can select this mode. After	
Static IP	selecting, you must fill in a static table: Static IP address / Subnet Mask /	
Static II	Gateway / DNS and other related information. If you do not know this	
	information, contact your ISP provider or network administrator for assistance.	
	When you select this mode, the network-related information will be	
DHCP	automatically obtained from the DHCP server, you do not need to manually	
	enter these fields.	
PPPoE	When you select this mode, you must input your ADSL account and password	
Use Custom	When you select this mode, you must enter the DNS server address. If you	
DNS	have not, the device will get the DNS server address automatically.	





Name	Explanation	
Network configuration	Network configuration (VPN Settings)	
Protocol	Choose the PPTP type, the L2T represents the VPN L2TP, and the PPTP represents	
	VPN PPTP, you must only choose one of them as the current state.	
Server Address	Configures the VPN server address.	
PAP/CHAP	Configures the VPN server username.	
Username		
PAP/CHAP Password	Configures the VPN server password.	
Bring Up on Boot	Configures VPN settings auto start after rebooting.	

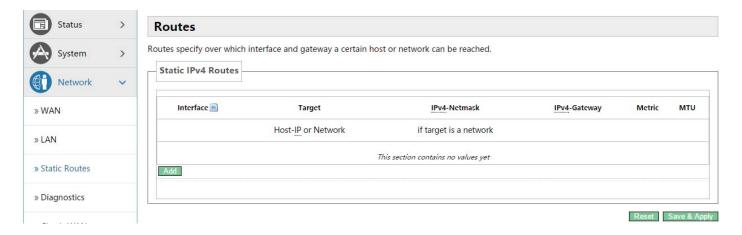
5. 4. 3. 2 LAN

Name	Explanation	
Common Configu	Common Configuration	
IPv4 address	Set the IP address to LAN por. Default is 192.168.10.1	
IPv4 netmask	Set the netmask to LAN port. Default is 255.255.25.0	
DHCP Server		
Ignore interface	Disable DHCP for this interface.	
Start	Set the IP address Start of DHCP Server . Default is 100 (192.168.10.100).	
Limit	Set the IP address max of DHCP Server. Default is 150	
Leasetime	Set the DHCP Leasetime	
Static Leases		
Static leases are used to assign fixed IP addresses and symbolic hostnames to DHCP clients.		
They are also required for non-dynamic interface configurations where only hosts with a		



corresponding lease are served.

5. 4. 3. 3 **Static Routes**



Name	Explanation
Interface	Configures the interfaces sent out by packets.
Target	Configures the destination IP address that packets needs to reach
IPv4-Netmask	Configures the subnet mask of target IP address
IPv4-Gateway	When you Specify an IP address, the device will next transmit the data
	packets meet the requirements to this address.
Metric	The maximum steps number send by packets.
MTU	The maximum bytes number send by packets.

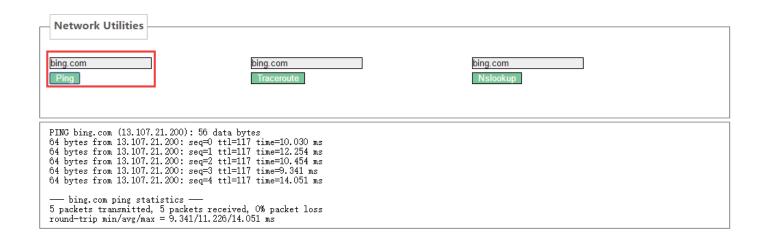
5. 4. 3. 4 Diagnostics

5. 4. 3. 4. 1 **Diagnostics**

$5.\ 4.\ 3.\ 4.\ 1.\ 1$ Ping Communication Test

Enter the destination address, which can be a legitimate IP address or a legitimate domain. Click the **Ping**> button, the device will send a ping packet to detect whether the destination can be reached, and the results will appear in the box below.





5. 4. 3. 4. 1. 2 Traceroute Detection

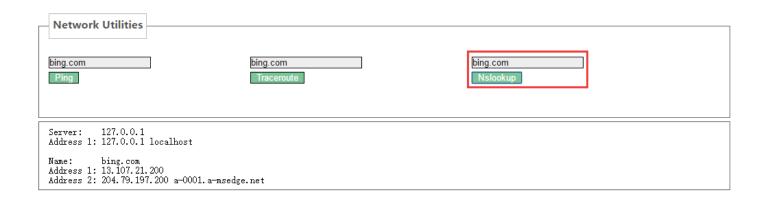
Enter the destination address, which can be a legitimate IP address or a legitimate domain. Click **<Traceroute>** button, the device will send tracert packets to detect through which routes to arrive at the destination address, and the test results will be displayed in the box below.



5. 4. 3. 4. 1. 3 **Network Detection**

Enter the destination address, which can be a legitimate IP address or a legitimate domain . Click **<Traceroute>** button, the test results will be displayed in the box below.



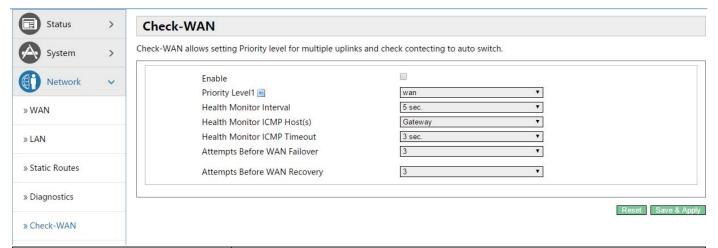


5. 4. 3. 4. 2 **Network Packets Capture**

When you need to catch the packets that through the device wan port, click **<Start>** button, and then choose to save or open according to the dialog box.



5. 4. 3. 5 Check-WAN



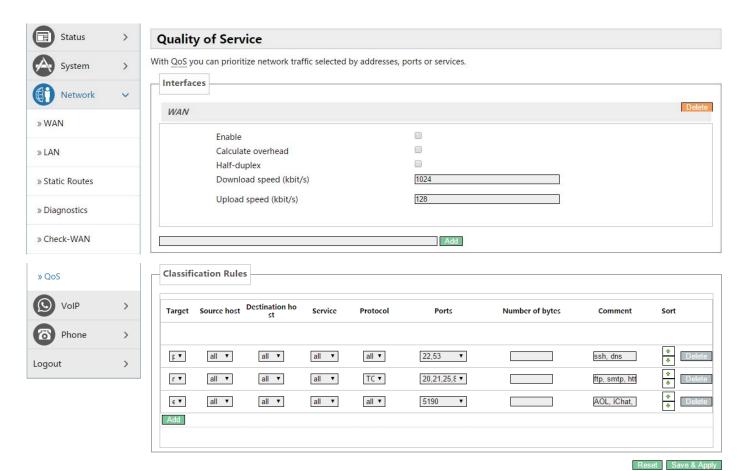
Name	Explanation
Enable	Select on or off online detection
Priority Level1	Select detection interface
Health Monitor Interval	Set the detection interval
Health Monitor ICMP Host(s)	Set the ICMP host type (PING detection or DNS detection)
Health Monitor ICMP Timeout	Set the ICMP host timeout
Attempts Before WAN Failover	Number of attempts before configuring failover

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Attempts Before WAN Recovery Number of attempts before configuration failure recovery

5. 4. 3. 6 **QoS**



Name	Explanation	
Interfaces (WAN)		
Enable	Set if the current interface to enable QoS service	
Classification Group	Selects the interface classification group	
	Set whether to enable the calculation of overhead functions for	
Calculate Overhead	calculating packets, reduce upload and download rates to avoid link	
	saturation	
Half-duplex	Set whether to enable half duplex mode.	
Download Speed	Set download speed of the interface, units (kbit / s)	
Classification Rules		
Target	Selects the target priority	
Source Host	Selects a specific IP as the source host	
Destination Host	Selects a specific IP as the destination host	

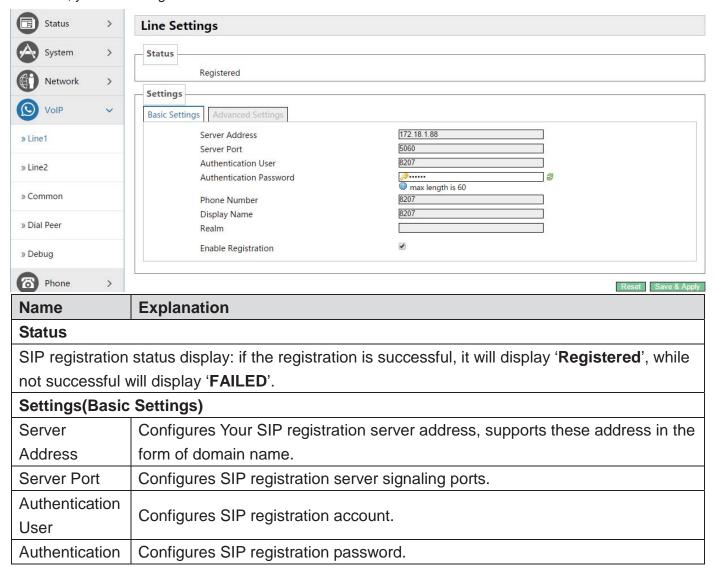


Service	Selects the application service of what the category groups need .
Protocol	The protocol can be selected as :all optional , TCP, UDP, IGMP, etc.
Ports	The port number can be selected as all or a custom specified port.
Number of Bytes	Fills the data need to be limited.
Comment	Fills comment information.
Sort	Set the taxonomic groups sorting , when the targets have same level, the
Suit	device will prefer to use the preceding rules

5. 4. 4 VolP

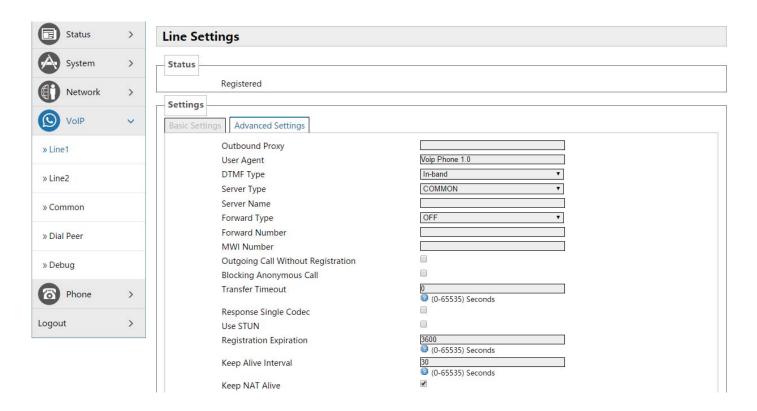
5. 4. 4. 1 Line1 & Line2

Here, you can configure the SIP server of SIP 1 and SIP 2.





Password	
Phone	Configures the number registered to the SIP server, if it is empty, will not initiate
Number	registration.
	Configures the display name, when you make a call, the called party (did not
Display Name	give you a name) can display the configuration parameters that be allowed to
	input the English alphabet.
	Configures SIP local domain name. If the server does not require local domain
Realm	SIP terminal is the specified domain, local domain can be configured with the
	address or domain name that same with server. To simplify user input, users
	can do not enter the domain name, the system will automatically get the server
	address to fill it as 'domain realm'.
Enable	Configures enable/disable registration.
registration	Cornigures enable/disable registration.





Keep Authentication **Enable Strict Proxy** Enable DNS SRV **Enable Rport Enable PRACK** Long Contact Convert URI **Enable Session Timer** 300 (0-65535) Seconds Subscribe Expiration **Enable Subscribe** UDP Transportation Protocol Auto TCP SIP Version RFC3261 Local Port **RFC Privacy Edition** NONE Use Quote in Display Name Enable GRUU RTP Encryption Key RTP Encryption

Reset Save & Apply **Name Explanation Settings (Advanced Settings)** Enter the IP or FQDN address of outbound proxy server provided by the **Outbound Proxy** service provider. **User Agent User Agent Terminal** Set DTMF transmit mode, there three types totally: The default is In-band In-band **DTMF** Type RFC2833 SIP INFO Different service providers may offer different modes. Server Type Selects signaling encryption type or special server type Server Name Names the server. Selects call forward mode. Call Forward (off by default) Off: close call forward Unconditional: inbound calls will be forwarded to the specified number Busy: inbound calls will be forwarded to the specified number when the Forward Type device is buys. No answer: Inbound calls have not been answered after specified time, will be forwarded to the assigned number, during the this proceed, the device will prompt a call. **Forward Number** Configures the forward number. Configures the MWI number, achieve Listen to achieve sip voicemail MWI Number notification and listening.



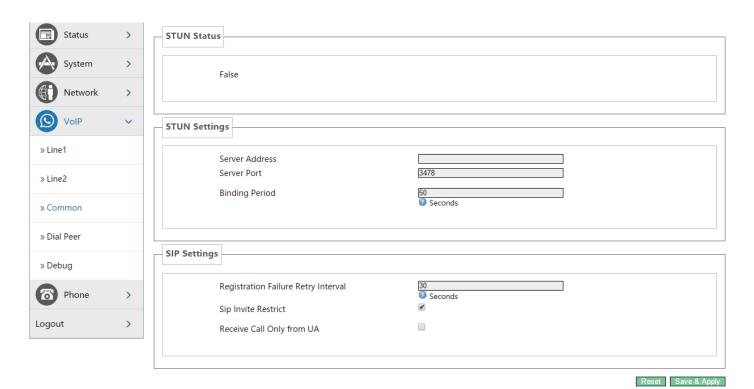
Outgoing Call Without Registration	If you configure this item, you can also call through a proxy server without registration.
Blocking Anonymous Call	Configures blocking anonymous call.
Transfer Timeout	In order to adapt a platform, when you make the attended transfer and hang up, the session will end after the expire time, the device will send 'bye' initiatively; the default is 0(when you hang up, the device will send a BYE to end the session immediately).
Response Single Codec	As the called, only in response to the supported Codec.
Use STUN	Configures enable/disable the SIP STUN.
Registration Expiration	Configures the SIP server registration expiration time, defaults 3600 seconds. If the server requires registration expiration time is more than or less than the device configuration time, the device can be automatically changed as the server recommendation expiration time and re-register.
Keep Alive Interval	Configures the server detection time interval, if the gateway opens SIP detection server function, the gateway will detect whether the server responds every configured time.
Keep NAT Alive	Configures automatic detection server. Some servers prohibit the registration time is too short, but there have not packet (maintain the device terminal NAT actively) to send, you can open this function and set the interval to send this package is less than NAT duration of time.
Keep Authentication	Enable/Disable Keep Authentication System will take the last authentication field which is passed the authentication by server to the request packet. It will decrease the server's repeat authorization work, if it is enable.
Enable Strict Proxy	Matches with a special server (when the return message ,the device will use the other party source address ,no longer use the address in via field)
Enable DNS SRV	When you open it ,the device will support RFC2782
Enable Rport	Configures if the device support RFC3581,rport mechanism is used in the Intranet, need be supported by SIP server for maintaining the NAT connection of Intranet devices and Extranet devices
Enable PRACK	Configures whether let the device support the SIP PRACK function (mostly used for ring tones), we recommend you to use the default configuration
Long Contact	Configures Contact field carries more parameters; the item is used with SEM server.



Convert URI	Convert # to %23 when URI is sending massage.
Enable Session	Configures whether the device support rfc4028 function and refresh the
Timer	SIP sessions function.
Subscribe	
Expiration	Configures the effective time of subscription
Enable Subscribe	After successful registration, subscription information can subscribe to
Enable Subscribe	others state or voice mail, etc.
Transportation Protocol	Configures the using transport protocol, TCP or UDP, the default is UDP
Auto TCP	When the message body exceeds 1300 bytes ,the device will automatically
Auto TCP	use the TCP transport protocol to guarantee the availability of transport
	Configures the protocol version. When the device needs to communicate
SIP Version	with the gateway like CISCO5300 which uses SIP1.0, you need to
SIP VEISION	configure this item into RFC2543, so it can communicate normally. The
	default is RFC3261.
Local Port	Configures individual port of each line.
RFC Privacy	Configures whether you use anonymous security call out, it supports
Edition	RFC3323 and RFC3325 .
Use Quote in	When the device sending signaling, whether add the quotes before the
Display Name	display name.
Enable GRUU	Configures supporting GRUU
RTP Encryption	Configuracyclica approprian key
Key	Configures voice encryption key
RTP Encryption	Configures whether to support voice encryption



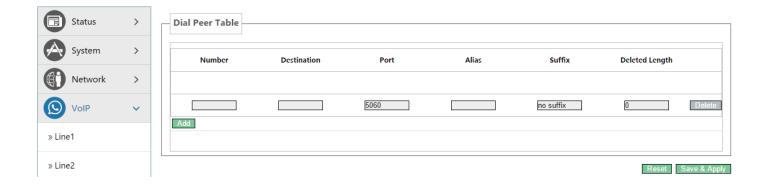
5. 4. 4. 2 **Common**



Name	Explanation	
STUN Status		
Displays STUN penetrate judgment, true means STUN is penetrable, false means impenetrable.		
STUN Settings		
Server Address	Configures SIP STUN Server Address.	
Server Port	Configures SIP STUN server Port.	
	The interval that STUN detects NAT type; When NAT finds a connection have	
Binding Period	no activity over a period of time, it will close the map, so you must send a	
	packet out at intervals to ensure keep alive.	
SIP Settings		
Registration	Configures how often the device initiate registration again after registration	
Failure Retry	failure.	
Interval	Tallule.	
	Whether match Invite field strictly. If you selected this item, the SIP message	
SIP Invite	via field that the device received must begin with z9hG4k, or the device will	
Restrict	not respond to the SIP message received.	
	NOTE: This configuration will take effect in all SIP accounts.	
Receive Call	Configures whether match UA strictly.	
Only from UA	Configures whether match on strictly.	



5. 4. 4. 3 **Dial Peer**



5. 4. 4. 4 **Debug**

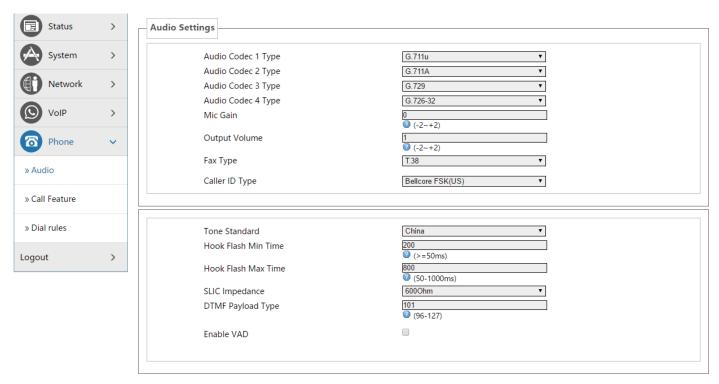


Name	Explanation
CM Log Level	Configures the MGR Log Level.
SIP Log Level	Configures the SIP Log Level.



5. 4. 5 **Phone**

5. 4. 5. 1 Audio



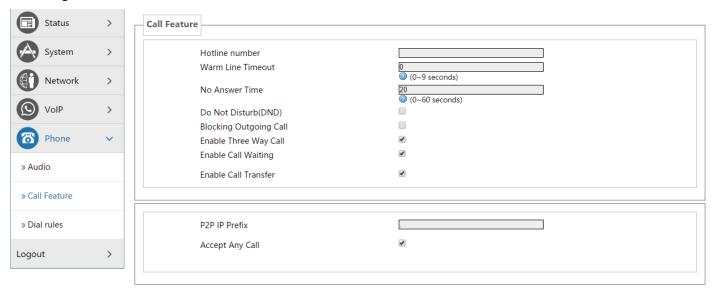
Name	Explanation
Audio Settings	
Audio Codec 1	Selects DSP the first priority speech coding algorithm: G.711A/u,G.726-32,
Туре	G.729
Audio Codec 2	Selects DSP the second priority speech coding algorithm:
Туре	G.711A/u,G.726-32, G.729
Audio Codec 3	Selects DSP the third priority speech coding algorithm: G.711A/u,G.726-32,
Туре	G.729
Audio Codec 4	Selects DSP the fourth priority speech coding algorithm:
Туре	G.711A/u,G.726-32, G.729
MIC Gain	Set the microphone volume level.
Handset volume	Set the handset volume level.
Fax Type	Set the fax type.
Caller ID Type	Set the PSTN phones that only support transfering Caller ID under DTMF
	mode.
Tone Standard	Selects tone standard.



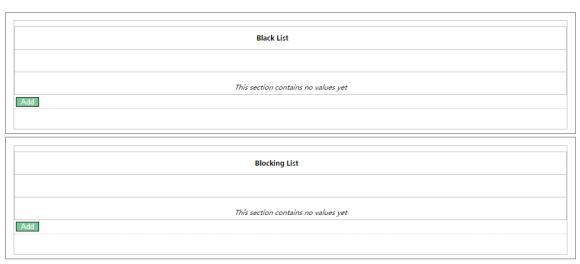
Hook Flash Min	Sat the minimum time of incerted enring detection
Time	Set the minimum time of inserted spring detection.
Hook Flash Max	Set the maximum time of inserted spring detection.
Time	
SLIC Impedance	Set subscriber line interface circuit impedance, the default is 600 ohms.
DTMF Payload	Effective load of dual-tone multifrequency.
Туре	
Enable VND	Silence detection; if it is enabled VAD, G.729 payload length cannot be set
	higher than 20ms

5. 4. 5. 2 Call Feature

On this page, you can set the hotline, call transfer, call waiting, three way call, black list, Blocking list and so on.







Reset Save & Apply

Name	Explanation
Call Feature	
Hotline Number	Set the Hotline Number. If you set this number, as long as you goes off-hook,
	the device will automatically dial the hotline number and you cannot dial any
	other number.
Warm Line	Set automatically dial the hotline number time after off-hook .If you set this
Timeout	item as 0, device will call the hotline number immediately after you off-hook.
No Answer Time	Set the no answer time.
	If you selected this item, the device will reject any incoming calls, the caller will
Do Not Disturb	be prompted that the other side gateway is unavailable; your device can dial
	out without any effect.
Blocking	When it is enable, the device will send buys tone and prompt you to hang up
Outgoing Call	when you off-hook and then dial.
Enable Three Way Call	Enable three way call.
Enable Call Waiting	Enable call waiting
P2P IP Prefix	Set point-to-point IP call prefix, such as the other side IP is 192.168.1.119,
	then you defined here as 192.168.1., just dial # 119, can make a point-to-point
	IP call.
Accept Any Call	When you selected this option, as long as the other side call you, the device
	will allow to make a conversation regardless of the number correctness.
Enable Call	Set whether to enable call Transfer.



Transfer

Black List

Add / Delete blacklist. If you do not want to answer a certain number ,can add the number to this list, when the number in black list call your device, the device will reject it;

It supports x format, that is, match to any one digit, such as 4xx represents these three digits number begin with 4 will be forbidden dial in;

Supported .formats, that is match to any length, including the null; Such as 6. represents the number more one digit and begin with 6 will be forbidden dial in;

Blocking List

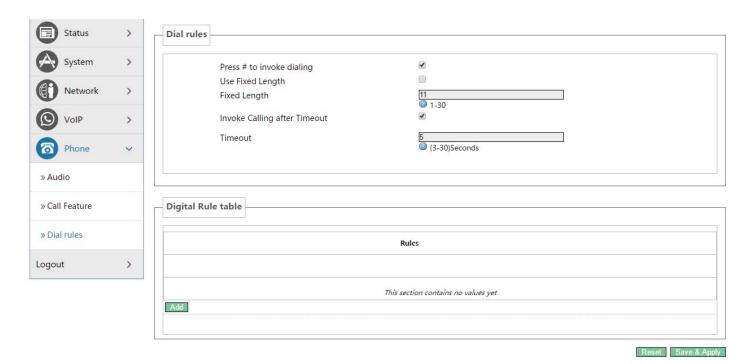
Call limit, set the number prefix form: if 010 as configured number prefix, you will hear busy tone and be prompted to hang up when you dial 010,so you cannot continue dial: if 0 as configured number prefix, you will cannot dial all numbers begin with 0;

It supports x form, that is, match any one digit, such as 4xx represents all three digit number begin with 4 will be forbidden to dial out;

It supports . form ,that is match to any length, including the null; such as 6. Represents all number begin with 6 will be forbidden to dial out .

Note: Black List and Blocking List can match 10 records maximumly. If more than 10, it will prompt the list is full.

5. 4. 5. 3 **Dial rules**





5. 4. 5. 3. 1 **Dial Rules**

Name	Explanation
Press # to	Set the gateway to press the # key to finish receiving number.
invoke dialing	
Use Fixed	Set enable\disable use fixed length to dial.
Length	
	Set the gateway to receive a fixed length number; for example, if you set it as
Fixed Length	11, when you finished dialing 11 digits number, the gateway automatically dial
	the 11 digits number.
Invoke Calling	Enable/disable calling after timeout.
After Timeout	
Timeout	Set the timeout calling length in seconds. Gateway default is 5 seconds, that
	is , when the gateway received a number, it will deem that you have finished
	dialing the number after you have not continue dialing a number in 5
	seconds ,and it will dial the received number.

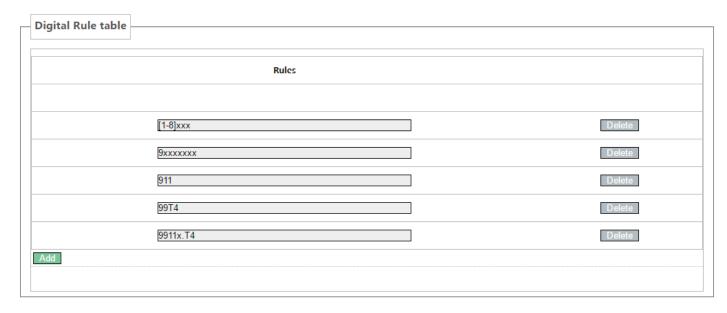
5. 4. 5. 3. 2 Digital Rule Table

The following is user-defined number-receiving rule table:

- [] is defining the number range. It can be a range, can be separated by a comma, it can also be a digit of list;
- x means can math to any one digit;
- means can match to any length, including the null;
- Tn means the device will stop receiving number after n seconds. n is mandatory, the range is 0-9 seconds. Tn must be the last two digits setting. If Tn is not specified, it will be assumed as T0, the receiving number will end immediately.

As shown below:





- [1-8]xxx, means all the four digits number(1000-8999) will be sent out immediately after receiving four digits number.
- 9xxxxxxx, means all number begin with 9 will be send out immediately after receiving eight digits number.
- 911, means the 911 number will be sent immediately after dialing.
- 99T4, means when you finish dialing 99, the number will be send out after 4 seconds.
- 9911x.T4, means when you finish dialing a number begin with 9911, 5 digits at least, it will be sent out after 4 seconds.
- Other ways is unchanged.

Note: Press # to invoke dialing, Use fixed length, Invoke Calling after Timeout, Digital Rules table can be used simultaneously, as long as when you finish dialing a number, the number satisfies any of these judgments ,the device will end receiving number and send the number out.

5. 4. 6 **Logout**

Click **<Logout>** button, you will exit web page. If you want to enter it next time, you need input username and password again.



6 Trouble Shooting

When the device does not work properly, users may try the following methods to recover the device or gather relative information and send an issue report to support.

6. 1 Reboot Device

Users may reboot the device from power switch. Or, simply remove the power supply and restore it again.

6. 2 Reset Device to Factory Default

Reset Device to Factory Default will erase all user's configuration, preference, database and profiles on the device and restore the device back to the state as factory default.

To perform a factory default reset, Press the RST button for 3~5 seconds and then release. The device will be rebooted into a clean factory default state.

6. 3 Network Packets Capture

Sometimes it is helpful to dump the network packets of the device for issue identification. To get the packets dump of the device, user needs to log in the device web portal, open page [Network] -> [Diagnostics] and click [Start] in "Network Packets Capture" section. A pop-up message will be prompt to ask user to save the capture file. User then should perform relevant operations such as activate/deactivate line or making phone calls and click [Stop] button in the web page when operation finished. The network packets of the device during the period have been dumped to the saved file. User may examine the packets with a packet analyzer or send it to support.



6.4 Common Problems

Symptom	Solution
POWER light is not on	1. Check if the power switch is open.
	2. Check if the power connection is correct.
	3. Check if the power adapter is suited.
	1. Check if the cable connection is valid, check if the PC network card
	indicator light is on.
WAN/LAN link light	2. Check if the network card is working properly, the specific approach is
is not on	to see if there is the device with "?" Or "!" under the Network Adapter"of
	the PC. If so, please delete the device and reinstall. Otherwise, put the
	network card in another slot, if not yet, change the network card.
	Such as the common access modes(your PC have already installed
	dial-up software):
	Make sure the front problem does not exist.
Can not access the	2. Make sure the dial-up software is properly installed and set.
network	3. Make sure you entered correct username and password.
Hetwork	4. If you call successfully dial, but cannot access the network, please
	make sure if the IE browser's proxy server is set correctly.
	5. Please try to log more websites to confirm if it is because of a Web
	server failure.
	Please check if device is well connected to the network. The network
	Ethernet cable should be connected to the [Network] port NOT the
	[PC] port.
	2. Please check if the device has an IP address. If the device does not
Device could not	have an IP address. Please check if the network configurations is
register to a service	correct.
provider	3. If network connection is fine, please check again your line
	configurations. If all configurations are correct, please kindly contact
	your service provider to get support, or follow the instructions in "6.3
	Network Packet Capture" to get the network packet capture of
	registration process and send it to support to analyze the issue.