



OpenVox Communication Co Ltd



iAG800 V2 Series Analog Gateway User Manual

Version 1.0



OpenVox Communication Co Ltd

Address: Room 624, 6/F, Tsinghua Information Port, Book Building, Qingxiang Road, Longhua Street, Longhua District, Shenzhen, Guangdong, China 518109

Tel: +86-755-66630978, 82535461, 82535362

Business Contact: sales@openvox.cn

Technical Support: support@openvox.cn

Business Hours: 09:00-18:00(GMT+8) from Monday to Friday

URL: www.openvoxtech.com

Thank You for Choosing OpenVox Products!

Confidentiality

Information contained herein is of a highly sensitive nature and is confidential and proprietary to OpenVox Inc. No part may be distributed, reproduced or disclosed orally or in written form to any party other than the direct recipients without the express written consent of OpenVox Inc.

Disclaimer

OpenVox Inc. reserves the right to modify the design, characteristics, and products at any time without notification or obligation and shall not be held liable for any error or damage of any kind resulting from the use of this document.

OpenVox has made every effort to ensure that the information contained in this document is accurate and complete; however, the contents of this document are subject to revision without notice. Please contact OpenVox to ensure you have the latest version of this document.

Trademarks

All other trademarks mentioned in this document are the property of their respective owners.

Revise History

Version	Release Date	Description
1.0	28/08/2020	First Version

Contents

1. Overview	7
What is iAG Series Analog Gateway?	7
Sample Application	7
Product Appearance	8
Main Features	9
Physical Information	10
Software.....	10
2. System.....	11
Status	11
Time	11
Login Settings.....	12
General	14
Language Settings	14
Scheduled Reboot.....	14
Tools	14
Information	16
3. Analog	17
Channel Settings	17
Pickup Settings.....	18
Dial Matching Table	19
Advanced Settings.....	19
Special Function Keys.....	23
4. SIP	24
SIP Endpoints	24
Main Endpoint Settings.....	24
Advanced: Registration Options	26
Call Settings.....	27
Advanced: Signaling Settings	28

Advanced: Timer Settings	29
Media Settings	30
FXS Batch Binding SIP.....	30
Batch Create SIP.....	31
Advanced SIP Settings.....	31
Networking	31
NAT Settings.....	32
RTP Settings	33
Parsing and Compatibility	33
Security	34
Media	35
Sip Account Security	36
5. Routing.....	37
Call Routing Rules	37
Groups	40
Batch Create Rules.....	41
6. Network	43
Network Settings	43
VPN Settings.....	45
DDNS Settings	45
Toolkit	46
7. Advanced	48
Asterisk API	48
Asterisk CLI.....	50
Asterisk File Editor	51
8. Logs.....	52
Log Settings.....	52
System.....	54
CDR	54

1. Overview

What is iAG Series Analog Gateway?

OpenVox iAG800 V2 series Analog Gateway, an upgrade product of the iAG Series, is an open source asterisk-based Analog VoIP Gateway solution for SMBs and SOHOs. With friendly GUI and unique modular design, users may easily setup their customized Gateway. Also secondary development can be completed through AMI (Asterisk Management Interface).

The iAG800 V2 Analog Gateways are comprised of six models: iAG800 V2-4S with 4 FXS ports, iAG800 V2-8S with 8 FXS ports, iAG800 V2-4O with 4 FXO ports, iAG800 V2-8O with 8 FXO ports, iAG800 V2-4S4O with 4 FXS ports and 4 FXO ports, and iAG800 V2-2S2O with 2 FXS ports and 2 FXO ports.

The iAG800 V2 Analog Gateways are developed for interconnecting a wide selection of codecs including G.711A, G.711U, G.729A, G.722, G.726, iLBC. iAG800 V2 series use standard SIP protocol and compatible with Leading VoIP platform, IPPBX and SIP servers. Such as Asterisk, Issabel, 3CX, FreeSWITCH, BroadSoft and VOS VoIP operating platform.

Sample Application

Figure 1-2-1 Topological Graph



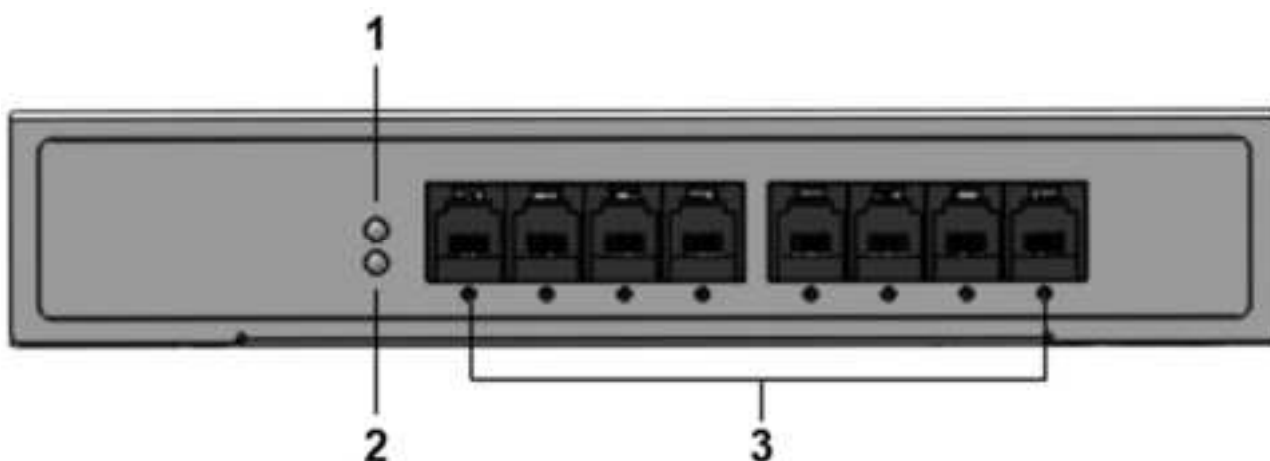
Product Appearance

The picture below is appearance of iAG Series Analog Gateway.

Figure 1-3-1 Product Appearance



Figure 1-3-2 Front Panel



1: Power Indicator

2: System LED

3: Analog Telephone Interfaces and corresponding Channels State Indicators

Figure 1-3-3 Back Panel



- 1: Power interface
- 2: Reset button
- 3: Ethernet ports and indicators

Main Features

System Features

- NTP time synchronization and client time synchronization
- Support modify username and password for web login
- Update firmware online, backup/restore configuration file
- Abundant Log Info, Automatically Reboot, Call status display
- Language selection (Chinese/English)
- Open API interface (AMI), support for custom scripts, dialplans
- Support SSH remote operation and restore the factory settings

Telephony Features

- Support Volume adjustment, Gain adjustment, call transfer, call hold, call waiting, call forward, Caller ID display
- Three way calling, Call transfer, Dial-up matching table
- Support T.38 fax relay and T.30 fax transparent, FSK and DTMF signaling
- Support Ring cadence and frequency setting, WMI (Message Waiting Indicator)
- Support Echo cancellation, Jitter buffer
- Support customizable DISA and other applications

SIP Features

- Support add, modify & delete SIP Accounts, batch add, modify & delete SIP Accounts
- Support multiple SIP registrations: Anonymous, Endpoint registers with this gateway, This gateway registers with the endpoint
- SIP accounts can be registered to multiple servers

Network

- Network type: Static IP, Dynamic
- Support DDNS, DNS, DHCP, DTMF relay, NAT
- Telnet, HTTP, HTTPS, SSH
- VPN client
- Network Toolbox

Physical Information

Table 1-5-1 Description of Physical Information

Weight	637g
Size	19cm*3.5cm*14.2cm
Temperature	-20~70°C (Storage)
	0~50°C (Operation)
Operation humidity	10%~90% non-condensing
Power source	12V DC/2A
Max power	12W

Software

Default IP: 172.16.99.1

Username: admin

Password: admin

Please enter the default IP in your browser to scan and configure the module you want.

Figure 1-6-1 Login Interface



2. System

Status

On the “Status” page, you will see Port/SIP/Routing/Network information and status.

Figure 2-1-1 System Status

Port Information				
Port	Name	Type	Line Status/Sig. Account	Port Status
1	trunk-1-port1	FXS	Dis connected	Connect
2	trunk-1-port2	FXS	Disconnected	Connect
3	trunk-1-port3	FXS	Disconnected	Connect
4	trunk-1-port4	FXS	Disconnected	Connect
5	trunk-1-port5	FXS	8000	Connect
6	trunk-1-port6	FXS	8000	Connect
7	trunk-1-port7	FXS	8007	Connect
8	trunk-1-port8	FXS	8000	Connect

SIP Information					
Endpoint Name	User Name	Host	Registration	SIP Status	Response Code
0001	0001	172.16.8.210	server	OK	
0002	0002	172.16.8.210	server	OK	
0003	0003	(Unregistered)	server	Unregistered	
0004	0004	172.16.8.210	server	OK	
0005	0005	172.16.200.10	client	Registered	200 OK
0006	0006	172.16.200.10	client	Registered	200 OK
0009	0009	172.16.200.10	client	Registered	200 OK
0007	0007	172.16.200.10	client	Registered	200 OK
0008	0008	172.16.200.10	client	Registered	200 OK

Routing Information		
Route Name	From	To

Network Information						
Name	MAC Address	IP Address	Mask	Gateway	RX Packets	TX Packets
LAN	42:34:00:01:01:79	172.16.82.16	255.255.0.0	172.16.0.1	0/463	0/04

Time

Table 2-2-1 Description of Time Settings

Options	Definition
System Time	Your gateway system time.
Time Zone	The world time zone. Please select the one which is the same or the

	closest as your city.
POSIX TZ String	Posix time zone strings.
NTP Server 1	Time server domain or hostname. For example, [time.asia.apple.com].
NTP Server 2	The first reserved NTP server. For example, [time.windows.com].
NTP Server 3	The second reserved NTP server. For example, [time.nist.gov].
Auto-Sync from NTP	Whether enable automatically synchronize from NTP server or not. ON is enable, OFF is disable this function.
Sync from NTP	Sync time from NTP server.
Sync from Client	Sync time from local machine.

For example, you can configure like this:

Figure 2-2-1 Time Settings



You can set your gateway time Sync from NTP or Sync from Client by pressing different buttons.

Login Settings

Your gateway doesn't have administration role. All you can do here is to reset what new username and password to manage your gateway. And it has all privileges to operate your gateway. You can modify both your "Web Login

Settings” and “SSH Login Settings”. If you have changed these settings, you don’t need to log out, just rewriting your new user name and password will be OK.

Table 2-3-1 Description of Login Settings

Options	Definition
User Name	Define your username and password to manage your gateway, without space here. Allowed characters "-_+. < >&0-9a-zA-Z". Length: 1-32 characters.
Password	Allowed characters "-_+. < >&0-9a-zA-Z". Length: 4-32 characters.
Confirm Password	Please input the same password as 'Password' above.
Login Mode	Select the mode of login.
HTTP Port	Specify the web server port number.
HTTPS Port	Specify the web server port number.
Port	SSH login port number.

Figure 2-3-1 Login Settings



The screenshot displays two configuration sections: 'Web Login Settings' and 'SSH Login Settings'.

Web Login Settings:

- User Name: admin
- Password: [masked]
- Confirm Password: [masked]
- Login Mode: http and https (dropdown menu)
- HTTP Port: 80
- HTTPS Port: 443

SSH Login Settings:

- Enable: ON (checkbox)
- User Name: admin
- Password: [masked]
- Port: 22

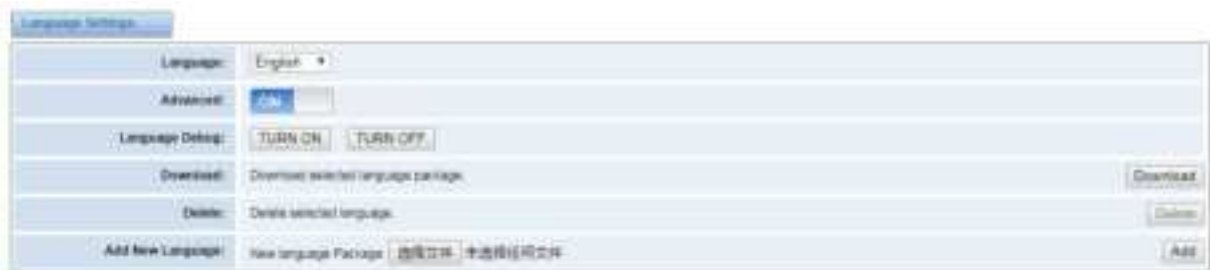
Notice: Whenever you do some changes, do not forget to save your configuration.

General

Language Settings

You can choose different languages for your system. If you want to change language, you can switch “Advanced” on, then “Download” your current language package. After that, you can modify the package with the language you need. Then upload your modified packages, “Choose File” and “Add”, those will be ok.

Figure 2-4-1 Language Settings



Scheduled Reboot

If switch it on, you can manage your gateway to reboot automatically as you like. There are four reboot types for you to choose, “By Day, By Week, By Month and By Running Time”.

Figure 2-4-2 Reboot Types



If use your system frequently, you can set this enable, it can helps system work more efficient.

Tools

On the “Tools” pages, there are reboot, update, upload, backup and restore toolkits.

You can choose system reboot and Asterisk reboot separately.

Figure 2-5-1 Reboot Prompt



If you press “Yes”, your system will reboot and all current calls will be dropped. Asterisk Reboot is the same.

Table 2-5-1 Instruction of reboots

Options	Definition
System Reboot	This will turn off your gateway and then turn it back on. This will drop all current calls.
Asterisk Reboot	This will restart Asterisk and drop all current calls.

We offer two kinds of update types for you, you can choose System Update or System Online Update. System Online Update is an easier way to update your system.

Figure 2-5-2 Update Firmware



If you want to store your previous configuration, you can first backup configuration, then you can upload configuration directly. That will be very convenient for you. Notice, the version of backup and current firmware should be same, otherwise, it would not take effect.

Figure 2-5-3 Upload and Backup



Sometimes there is something wrong with your gateway that you don’t know how to solve it, mostly you will select factory reset. Then you just need to press a button, your gateway will be reset to the factory status.

Figure 2-5-4 Factory Reset



Information

On the “Information” page, there shows some basic information about the analog gateway. You can see software and hardware version, storage usage, memory usage and some help information.

Figure 2-6-1 System Information









Model Name:	VS-AGU-E2V0800
Software Version:	1.1.14
Hardware Version:	1.0.0
Slot Number:	1
Storage Usage:	1.76832M (3%)
Memory Usage:	88.3872 % Memory Usage
Build Time:	2017-12-12 18:31:18
Contact Address:	10F, Building 6-A, Baoxing Science and Technology Industrial Park, Longhua New District, Shenzhen, Guangdong, China 518106
Tel:	+86-755-62532488
Fax:	+86-755-63023074
E-Mail:	sales@openvox.com
Web Site:	www.openvox.com
System Time:	2017-12-20 13:51:51
System Uptime:	0 days 02:10:49

3. Analog

You can see much information about your ports on this page.

Channel Settings

Figure 3-1-1 Channel System

Port	Type	Name	Line Match/Sip Account	Port Status	Action
1	FXO	board1-port1	Disconnected	Online	
2	FXO	board1-port2	Disconnected	Online	
3	FXO	board1-port3	Disconnected	Online	
4	FXO	board1-port4	Disconnected	Online	
5	FXS	board1-port5	8008	Online	
6	FXS	board1-port6	8008	Online	
7	FXS	board1-port7	8007	Online	
8	FXS	board1-port8	8008	Online	



On this page, you can see every port status, and click action button to configure the port.

Figure 3-1-2 FXO Port Configure

General

Port type: FXO
Name: board1-port1
Rx gain: 2.0
Tx gain: 2.0
Ring timeout: 3

Caller ID

Use callerid: ON
Hide callerid: OFF
CID signaling: bell
UNV: OFF
CID start signal: Ring

Priority

Answer on priority switch: OFF
Hangup on priority switch: OFF
Priority on answer delay: 500
Delay reply 208 OK switch: OFF

Figure 3-1-3 FXS Port Configure


Pickup Settings

Call pickup is a feature used in a telephone system that allows one to answer someone else's telephone call. You can set the "Time Out" and "Number" parameters either globally or separately for each port. The feature is accessed by pressing a special sequence of numbers which you set as "Number" parameter on the telephone set when it is enabled this function.

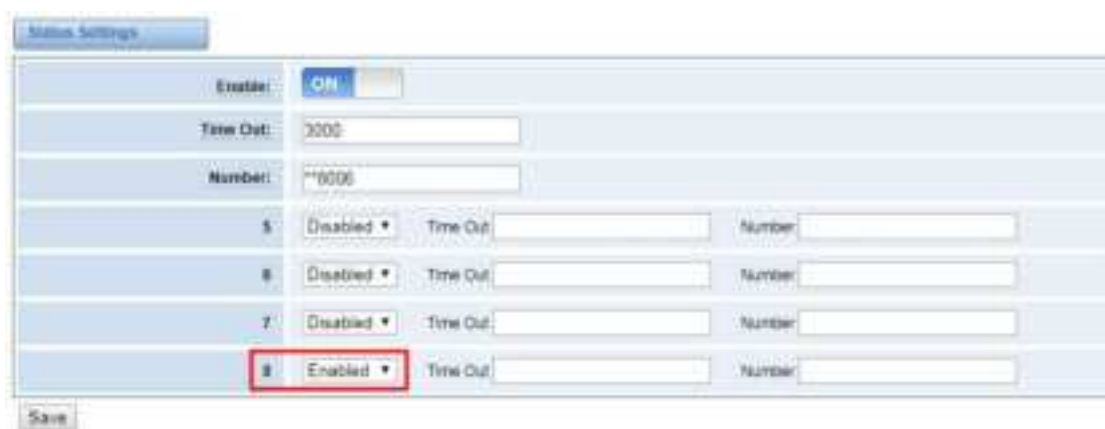
Figure 3-2-1 Pickup Configure


Table 3-2-1 Definition of Pickup

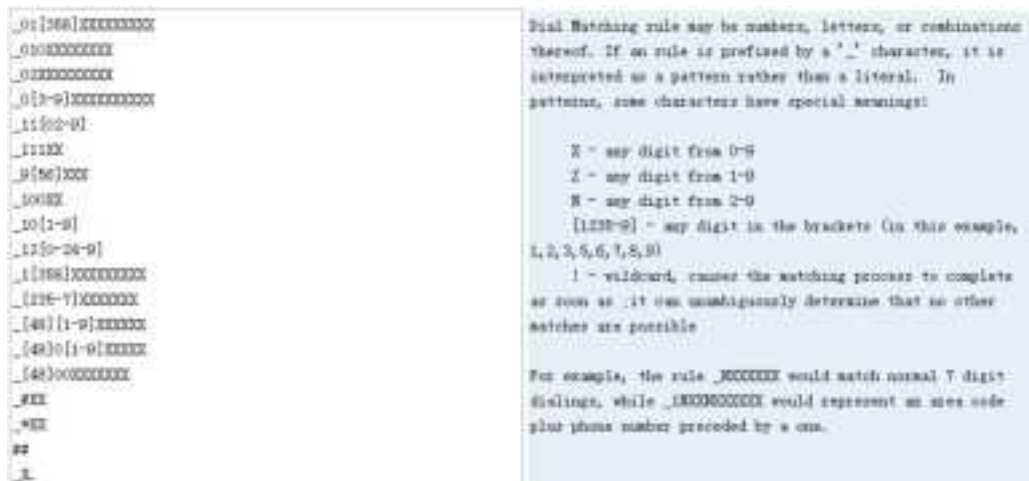
Options	Definition
Enable	ON(enabled),OFF(disabled)
Time Out	Set the timeout, in milliseconds (ms).Note: You can only enter numbers.
Number	Pickup number

Dial Matching Table

Dialing rules is used to effectively judge whether the received number sequence is complete, in order to timely end receiving number and send out number

The correct use of dial-up rules, helps to shorten the turn-on time of phone call

Figure 3-3-1 Port Configure



Advanced Settings

Figure 3-4-1 General Configuration


Tone duration:	120
Dial timeout:	180
Codec:	Ulaw
Impedance:	China
Echo cancel tap length:	512
VAD/CNG:	OFF
Flash/Wink:	ON
Max flash time:	40
Min flash time:	400
"#" as Ending Dial Key:	ON
Checking SIP Status:	OFF

Table 3-4-1 Instruction of General

Options	Definition
Tone duration	How long generated tones (DTMF and MF) will be played on the channel. (in milliseconds)
Dial timeout	Specifies the number of seconds we attempt to dial the specified devices.
Codec	Set the global encoding : mulaw, alaw.
Impedance	Configuration for impedance.
Echo cancel tap length	Hardware echo canceler tap length.
VAD/CNG	Turn on/off VAD/CNG.
Flash/Wink	Turn on/off Flash/wink.
Max flash time	Max flash time.(in milliseconds).
"#" as Ending Dial Key	Turn on/off Ending Dial Key.
Checking SIP Status	Turn on/off SIP Account registration status checking.

Figure 3-4-2 Caller ID

Table 3-4-2 Instruction of Caller ID

Options	Definition
The pattern of sending CID	Some countries(UK) have ring tones with different ring tones(ring-ring), which means the caller ID needs to be set later on, and not just after the first ring, as per the default(1).
Waiting time before sending CID	How long we will waiting before sending the CID on the channel.(in milliseconds).
Sending polarity reversal(DTMF Only)	Send polarity reversal before sending the CID on the channel.
Start code(DTMF Only)	Start code.
Stop code(DTMF Only)	Stop code.

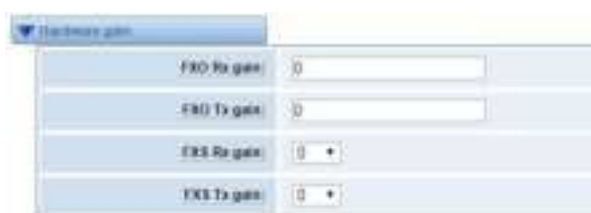
Figure 3-4-3 Hardware Gain


Table 3-4-3 Instruction of Hardware gain

Options	Definition
FXS Rx gain	Set the FXS port Rx gain. Range: from -150 to 120. Select -35, 0 or 35.
FXS Tx gain	Set the FXS port Tx gain. Range: from -150 to 120. Select -35, 0 or 35.

Figure 3-4-4 Fax Configuration


The figure shows a configuration window for Fax. It has a title bar with a dropdown arrow and the text 'Fax'. Below the title bar, there are three rows of configuration options:

- Mode:** A dropdown menu with 'T.38' selected.
- Rate:** A dropdown menu with '14400' selected.
- Ecm:** A toggle switch labeled 'OFF'.

Table 3-4-4 Definition of Fax

Options	Definition
Mode	Set the transmission mode.
Rate	Set the rate of sending and receiving.
Ecm	Enable/disable T.30 ECM (error correction mode) by default.

Figure 3-4-5 Country Configuration


The figure shows a configuration window for Country. It has a title bar with a dropdown arrow and the text 'Country'. Below the title bar, there is a dropdown menu with 'China' selected. Below the dropdown menu, there are ten rows of configuration options, each with a label and a text input field:

- Country:** China
- Ring cadence:** 1000-4000
- Dial tone:** 450
- Ring tone:** 450/1500 0/4000
- Busy tone:** 450/350 0/350
- Call waiting tone:** 450/400 0/4000
- Congestion tone:** 450/750 0/700
- Dial recall tone:** 450
- Record tone:** 950/450 0/10000
- Info tone:** 450/100 0/100 450/100 0/100 450/100 0/100 450/400 0/400
- Stutter tone:** 450-425

Table 3-4-5 Definition of Country

Options	Definition
Country	Configuration for location specific tone indications.
Ring cadence	List of durations the physical bell rings.
Dial tone	Set of tones to be played when one picks up the hook.
Ring tone	Set of tones to be played when the receiving end is ringing.
Busy tone	Set of tones played when the receiving end is busy.
Call waiting tone	Set of tones played when there is a call waiting in the background.
Congestion tone	Set of tones played when there is some congestion.
Dial recall tone	Many phone systems play a recall dial tone after hook flash.
Record tone	Set of tones played when call recording is in progress.
Info tone	Set of tones played with special information messages (e.g., number is out of service.)

Special Function Keys

Figure 3-5-1 Function keys

Function Keys

None Keys Blind Transfer:

ON

Blind Transfer:

Asked Transfer:

*38

Save

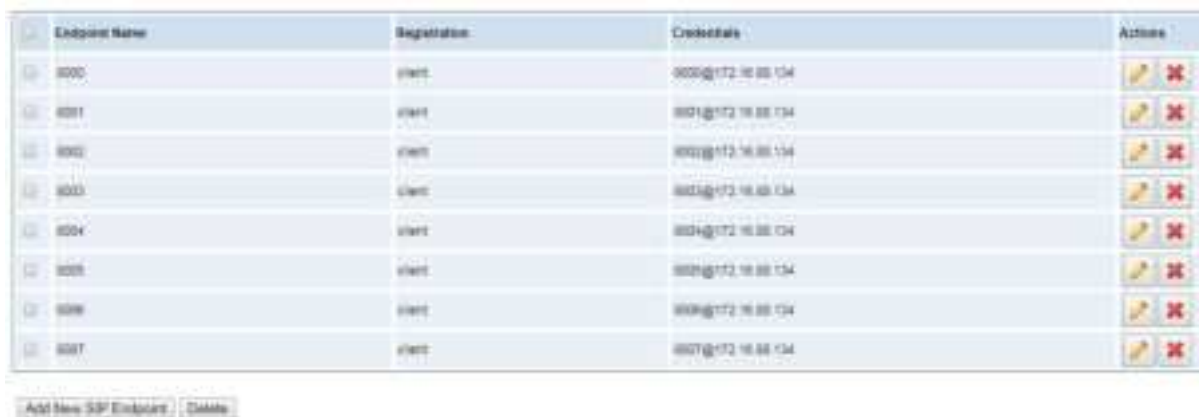
Cancel

















4. SIP

SIP Endpoints


This page shows everything about your SIP, you can see status of each SIP.

Figure 4-1-1 SIP Status



Endpoint Name	Registration	Credentials	Action
8000	None	8000@172.16.88.134	 
8001	None	8001@172.16.88.134	 
8002	None	8002@172.16.88.134	 
8003	None	8003@172.16.88.134	 
8004	None	8004@172.16.88.134	 
8005	None	8005@172.16.88.134	 
8006	None	8006@172.16.88.134	 
8007	None	8007@172.16.88.134	 

[Add New SIP Endpoint](#) [Delete](#)


You can click [Add New SIP Endpoint](#) button to add a new SIP endpoint, and if you want to modify existed endpoints, you can click  button.

Main Endpoint Settings

There are 3 kinds of registration types for choose. You can choose “Anonymous, Endpoint registers with this gateway or This gateway registers with the endpoint”.

You can configure as follows:

If you set up a SIP endpoint by registration “None” to a server, then you can’t register other SIP endpoints to this server. (If you add other SIP endpoints, this will cause Out-band Routes and Trunks confused.)

Figure 4-1-2 Anonymous Registration


The screenshot shows the 'Main Endpoint Settings' form. The 'Registration' dropdown is set to 'None' and is highlighted with a red box. Other fields include: Name (301), User Name (Anonymous), Password (redacted), Hostname or IP Address (172.16.208.33), Backup Hostname or IP Address (empty), Transport (UDP), NAT Traversal (Yes), SUBSCRIBE for MW (No), and VOX Encryption (No).

For convenience, we have designed a method that you can register your SIP endpoint to your gateway, thus your gateway just work as a server.

Figure 4-1-3 Register to Gateway


The screenshot shows the 'Main Endpoint Settings' form. The 'Registration' dropdown is set to 'Endpoint registers with this gateway' and is highlighted with a red box. Other fields include: Name (301), User Name (301), Password (redacted), Hostname or IP Address (dynamic), Backup Hostname or IP Address (empty), Transport (UDP), NAT Traversal (Yes), SUBSCRIBE for MW (No), and VOX Encryption (No).

Also you can choose registration by “This gateway registers with the endpoint”, it’s the same with “None”, except name and password.

Figure 4-1-4 Register to Server


The screenshot shows the 'Main Endpoint Settings' form. The 'Registration' dropdown is set to 'This gateway registers with the endpoint'. Other fields include: Name (301), User Name (301), Password (redacted), Hostname or IP Address (172.16.208.63), Backup Hostname or IP Address (empty), Transport (UDP), NAT Traversal (Yes), SUBSCRIBE for MW (No), and VOX Encryption (No).

Table 4-1-1 Definition of SIP Options

Options	Definition
Name	A name which is able to read by human. And it's only used for user's reference.
Username	User Name the endpoint will use to authenticate with the gateway.
Password	Password the endpoint will use to authenticate with the gateway. Allowed characters.
Registration	<p>None---Not registering;</p> <p>Endpoint registers with this gateway---When register as this type, it means the GSM gateway acts as a SIP server, and SIP endpoints register to the gateway;</p> <p>This gateway registers with the endpoint---When register as this type, it means the GSM gateway acts as a client, and the endpoint should be register to a SIP server;</p>
Hostname or IP Address	IP address or hostname of the endpoint or 'dynamic' if the endpoint has a dynamic IP address. This will require registration.
Transport	<p>This sets the possible transport types for outgoing. Order of usage, when the respective transport protocols are enabled, is UDP, TCP, TLS. The first enabled transport type is only used for outbound messages until a Registration takes place.</p> <p>During the peer Registration the transport type may change to another supported type if the peer requests so.</p>
NAT Traversal	<p>Addresses NAT-related issues in incoming SIP or media sessions.</p> <p>No---Use Rport if the remote side says to use it.</p> <p>Force Rport on---Force Rport to always be on.</p> <p>Yes---Force Rport to always be on and perform comedia RTP handling.</p> <p>Rport if requested and comedia---Use Rport if the remote side says to use it and perform comedia RTP handling.</p>

Advanced: Registration Options

Table 4-1-2 Definition of Registration Options

Options	Definition
Authentication User	A username to use only for registration.
Register Extension	When Gateway registers as a SIP user agent to a SIP proxy (provider), calls from this provider connect to this local extension.
From User	A username to identify the gateway to this endpoint.
From Domain	A domain to identify the gateway to this endpoint.
Remote Secret	A password which is only used if the gateway registers to the remote side.
Port	The port number the gateway will connect to at this endpoint.
Quality	Whether or not to check the endpoint's connection status.
Qualify Frequency	How often, in seconds, to check the endpoint's connection status.
Outbound Proxy	A proxy to which the gateway will send all outbound signaling instead of sending signaling directly to endpoints.
Custom Registry	Custom Registry On / Off.
Enable Outboundproxy to Host	Outboundproxy to Host On / Off.

Call Settings

Table 4-1-3 Definition of Call Options

Options	Definition
DTMF Mode	Set default DTMF Mode for sending DTMF. Default: rfc2833. Other options: 'info', SIP INFO message (application/dtmf-relay); 'Inband', Inband audio (require 64kbit codec -alaw, ulaw).
Call Limit	Setting a call-limit will cause calls above the limit not to be accepted.

Trust Remote-Party-ID	Whether or not the Remote-Party-ID header should be trusted.
Send Remote-Party-ID	Whether or not to send the Remote-Party-ID header.
Remote Party ID Format	How to set the Remote-Party-ID header: from Remote-Party-ID or from P-Asserted-Identity.
Caller ID Presentation	Whether or not to display Caller ID.

Advanced: Signaling Settings

Table 4-1-4 Definition of Signaling Options

Options	Definition
Progress Inband	<p>If we should generate in-band ringing.</p> <p>Always use 'never' to never use in-band signaling, even in cases where some buggy devices might not render it.</p> <p>Valid values: yes, no never.</p> <p>Default: never.</p>
Allow Overlap Dialing	<p>Allow Overlap Dialing: Whether or not to allow overlap dialing.</p> <p>Disabled by default.</p>
Append user=phone to URI	<p>Whether or not to add '; user=phone' to URIs that contain a valid phone number.</p>
Add Q.850 Reason Headers	<p>Whether or not to add Reason header and to use it if it is available.</p>
Honor SDP Version	<p>By default, the gateway will honor the session version number in SDP packets and will only modify the SDP session if the version number change. Turn this option off to force the gateway to ignore the SDP session version number and treat all SDP data as new data. This is</p>

	required for devices that send non-standard SDP packets (observed with Microsoft OCS). By default this option is on.
Allow Transfers	Whether or not to globally enable transfers. Choosing 'no' will disable all transfers (unless enabled in peers or users). Default is enabled.
Allow Promiscuous Redirects	Whether or not to allow 302 or REDIR to non-local SIP address. Note that promiscredirect when redirects are made to the local system will cause loops since this gateway is incapable of performing a "hairpin" call.
Max Forwards	Setting for the SIP Max-Forwards header (loop prevention).
Send TRYING on REGISTER	Send a 100 Trying when the endpoint registers.

Advanced: Timer Settings

Table 4-1-5 Definition of Timer Options

Options	Definition
Default T1 Timer	This timer is used primarily in INVITE transactions. The default for Timer T1 is 500ms or the measured run-trip time between the gateway and the device if you have qualify=yes for the device.
Call Setup Timer	If a provisional response is not received in this amount of time, the call will auto-congest. Defaults to 64 times the default T1 timer.
Session Timers	Session-Timers feature operates in the following three modes: originate, Request and run session-timers always; accept, run session-timers only when requested by other UA; refuse, do not run session timers in any case.
Minimum Session Refresh Interval	Minimum session refresh interval in seconds. Default is 90secs.

Maximum Session Refresh Interval	Maximum session refresh interval in seconds. Defaults to 1800secs.
Session Refresher	The session refresher, uac or uas. Defaults to uas.

Media Settings

Table 4-1-6 Definition of Media Settings

Options	Definition
Media Settings	Select codec from the drop down list. Codecs should be different for each Codec Priority.

FXS Batch Binding SIP

If you want binding batch Sip accounts to FXS port, you can configure this page. Look out: this is only used when “This gateway registers with the endpoint” work mode.

Figure 4-2-1 FXS Batch Binding SIP



Port	Port Name	User Name	Password	Hostname or IP Address	Port	WOS Exception	Codec Priority	Support Codec
1	fxs-port1					No	G.711 a-law	Ad
2	fxs-port2					No	G.711 a-law	Ad
3	fxs-port3					No	G.711 a-law	Ad
4	fxs-port4					No	G.711 a-law	Ad
5	fxs-port5					No	G.711 a-law	Ad
6	fxs-port6					No	G.711 a-law	Ad
7	fxs-port7					No	G.711 a-law	Ad
8	fxs-port8					No	G.711 a-law	Ad

Batch Create SIP

If you want add batch Sip accounts, you can configure this page. You can choose all the register mode.

Figure 4-3-1 Batch SIP Endpoints

ID	User Name	Password	Hostname or IP Address	Port	Register Mode
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	client
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	client
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	client
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	client
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	client
5	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	client
6	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	client
7	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	client
8	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	client

Save Cancel Batch ☐ AutoPassword

Advanced SIP Settings

Networking

Table 4-4-1 Definition of Networking Options

Options	Definition
UDP Bind Port	Choose a port on which to listen for UDP traffic.
Enable TCP	Enable server for incoming TCP connection (default is no).
TCP Bind Port	Choose a port on which to listen for TCP traffic.
TCP Authentication Timeout	The maximum number of seconds a client has to authenticate. If the client does not authenticate before this timeout expires, the client will be disconnected.(default value is: 30 seconds).
TCP Authentication Limit	The maximum number of unauthenticated sessions that will be allowed to connect at any given time(default is:50).
Enable Hostname Lookup	Enable DNS SRV lookups on outbound calls Note: the gateway only uses the first host in SRV records Disabling DNS SRV lookups disables the ability to place SIP calls based on domain names to some other SIP users on the Internet specifying a port in a SIP peer definition or when dialing

	outbound calls with suppress SRV lookups for that peer or call.
--	---

NAT Settings

Table 4-4-2 Definition of NAT Settings

Options	Definition
Local Network	Format:192.168.0.0/255.255.0.0 or 172.16.0.0./12. A list of IP address or IP ranges which are located inside a NATed network. This gateway will replace the internal IP address in SIP and SDP messages with the external IP address when a NAT exists between the gateway and other endpoints.
Local Network List	Local IP address list that you added.
Subscribe Network Change Event	Through the use of the test_stun_monitor module, the gateway has the ability to detect when the perceived external network address has changed. When the stun_monitor is installed and configured, chan_sip will renew all outbound registrations when the monitor detects any sort of network change has occurred. By default this option is enabled, but only takes effect once res_stun_monitor is configured. If res_stun_monitor is enabled and you wish to not generate all outbound registrations on a network change, use the option below to disable this feature.
Match External Address Locally	Only substitute the externaddr or externhost setting if it matches
Dynamic Exclude Static	Disallow all dynamic hosts from registering as any IP address. Used for statically defined hosts. This helps avoid the configuration error of allowing your users to register at the same address as a SIP provider.
Externally Mapped TCP Port	The externally mapped TCP port, when the gateway is behind a static NAT or PAT
External Address	The external address (and optional TCP port) of the NAT. External Address = hostname[:port] specifies a static address[:port] to be used in SIP and SDP messages.Examples: External Address = 12.34.56.78

	External Address = 12.34.56.78:9900
External Hostname	The external hostname (and optional TCP port) of the NAT. External Hostname = hostname[:port] is similar to External Address. Examples: External Hostname = foo.dyndns.net
Hostname Refresh Interval	How often to perform a hostname lookup. This can be useful when your NAT device lets you choose the port mapping, but the IP address is dynamic. Beware, you might suffer from service disruption when the name server resolution fails.

RTP Settings

Table 4-4-3 Definition of NAT Settings Options

Options	Definition
Start of RTP Port Range	Start of range of port numbers to be used for RTP.
End of RTP port Range	End of range of port numbers to be used for RTP.
RTP Timeout	

Parsing and Compatibility

Table 4-4-4 Instruction of Parsing and Compatibility

Options	Definition
Strict RFC Interpretation	Check header tags, character conversion in URIs, and multiline headers for strict SIP compatibility(default is yes)
Send Compact Headers	Send compact SIP headers
SDP Owner	Allows you to change the username filed in the SDP owner string. This filed MUST NOT contain spaces.
Disallowed SIP	The external hostname (and optional TCP port) of the NAT.

Methods	
Shrink Caller ID	The shrinkcallerid function removes '(', ' ', ')', non-trailing '.', and '-' not in square brackets. For example, the caller id value 555.5555 becomes 5555555 when this option is enabled. Disabling this option results in no modification of the caller id value, which is necessary when the caller id represents something that must be preserved. By default this option is on.
Maximum Registration Expiry	Maximum allowed time of incoming registrations and subscriptions (seconds).
Minimum Registration Expiry	Minimum length of registrations/subscriptions (default 60).
Default Registration Expiry	Default length of incoming/outgoing registration.
Registration Timeout	How often, in seconds, to retry registration calls. Default 20 seconds.
Number of Registration Attempts Enter '0' for unlimited	Number of registration attempts before we give up. 0 = continue forever, hammering the other server until it accepts the registration. Default is 0 tries, continue forever.

Security

Table 4-4-5 Instruction of Security

Options	Definition
Match Auth Username	If available, match user entry using the 'username' field from the authentication line instead of the 'from' field.
Realm	Realm for digest authentication. Realms MUST be globally unique according to RFC 3261. Set this to your host name or domain name.

Use Domain as Realm	Use the domain from the SIP Domains setting as the realm. In this case, the realm will be based on the request 'to' or 'from' header and should match one of the domain. Otherwise, the configured 'realm' value will be used.
Always Auth Reject	When an incoming INVITE or REGISTER is to be rejected, for any reason, always reject with an identical response equivalent to valid username and invalid password/hash instead of letting the requester know whether there was a matching user or peer for their request. This reduces the ability of an attacker to scan for valid SIP usernames. This option is set to 'yes' by default.
Authenticate Options Requests	Enabling this option will authenticate OPTIONS requests just like INVITE requests are. By default this option is disabled.
Allow Guest Calling	Allow or reject guest calls (default is yes, to allow). If your gateway is connected to the Internet and you allow guest calls, you want to check which services you offer everyone out there, by enabling them in the default context.

Media

Table 4-4-6 Instruction of Media

Options	Definition
Premature Media	Some ISDN links send empty media frames before the call is in ringing or progress state. The SIP channel will then send 183 indicating early media which will be empty - thus users get no ring signal. Setting this to "yes" will stop any media before we have call progress (meaning the SIP channel will not send 183 Session Progress for early media). Default is 'yes'. Also make sure that the SIP peer is configured with progressinband=never. In order for 'noanswer' applications to work, you need to run the progress()

	application in the priority before the app.
TOS for SIP Packets	Sets type of service for SIP packets
TOS for RTP Packets	Sets type of service for RTP packets

Sip Account Security

This analog gateway support TLS protocol for encrypting calls. On the one hand, it can worked as TLS server, generate the session keys used for the secure connection. On the other hand, it also can be registered as a client, upload the key files provied by the server.

Figure 4-5-1 TLS settings

Table 4-5-1 Instruction of TLS

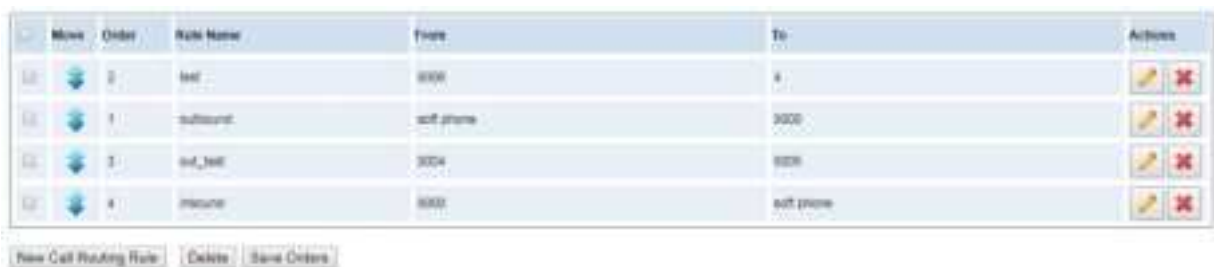
Options	Definition
TLS Enable	Enable or disable DTLS-SRTP support.
TLS Verify Server	Enable or disable tls verify server(default is no).
Port	Specify the port for remote connection.
TLS Client Method	Values include tlsv1, sslv3, sslv2, Specify protocol for outbound client connections, default is sslv2.

5. Routing

The gateway embraces the flexible and friendly routing settings for user. It supports up to 512 routing rules and about 100 pairs of calleeID/callerID manipulations can be set in a rule. It support DID function The gateway support trunk group and trunk priority management.

Call Routing Rules

Figure 5-1-1 Routing Rules



Move	Order	Rule Name	From	To	Actions
	2	test	8000	8	
	1	subsound	soft phone	8000	
	3	out_test	8004	8000	
	4	inbound	8000	soft phone	

New Call Routing Rule Delete Save Orders

You are allowed to set up new routing rule by , and after setting routing rules, move rules' order by pulling up and down, click  button to edit the routing and  to delete it. Finally click the  button to save what you set.  will show current routing rules. Otherwise you can set up unlimited routing rules.

There is an example for routing rules number conversion, it transform calling, called number at the same time. Suppose you want eleven numbers start at 159 to call the eleven numbers of start at 136. Calling transform delete the three numbers from left, then writing number 086 as prefix, delete the last four numbers, and then add number 0755 at the end, it will show caller name is China Telecom. Called transform adds 086 as prefix, and Change the last two number to 88.

Figure 5-1-1

processing rules	prepend	prefix	Match pattern	SdfR	StA	RdfR	Caller Name
Calling Transformation	086	159	xxxxxxx	4	0755		China telecom
Called transformation	086	136	xxxxxxx	2	88		N/A

You can click **New Call Routing Rule** button to set up your routings.

Figure 5-1-2 Example of Setup Routing Rule

The figure above realizes that calls from “support” SIP endpoint switch you have registered will be transferred to Port-1. When “Call Comes in From” is 1001, “prepend”, “prefix” and “match pattern” in “Advanced Routing Rule” are ineffective, and just “CallerID” option is available.

Table 5-1-2 Definition of Call Routing Rule

Options	Definition
Routing Name	The name of this route. Should be used to describe what types of calls this route matches (for example, ‘SIP2GSM’ or ‘GSM2SIP’).
Call Comes in From	The launching point of incoming calls.
Send Call Through	The destination to receive the incoming calls.

Figure 5-1-3 Advance Routing Rule

Table 5-1-3 Definition of Advance Routing Rule

Options	Definition
CalleeID/callerID Manipulation	A Dial Pattern is a unique set of digits that will select this route and send the call to the designated trunks. If a dialed pattern matches this route, no subsequent routes will be tried. If Time Groups are enabled, subsequent routes will be checked for matches outside of the designated time(s).
	X matches any digit from 0-9
	Z matches any digit from 1-9
	N matches any digit from 2-9
	[1237-9]matches any digit in the brackets (example: 1,2,3,7,8,9)
	. wildcard, matches one or more dialed digits
	Prepend: Digits to prepend to a successful match. If the dialed number matches the patterns specified by the subsequent columns, then this will be prepended before sending to the trunks.
	Prefix: Prefix to remove on a successful match. The dialed number is compared to this and the subsequent columns for a match. Upon a match, this prefix is removed from the dialed number before sending it to the trunks.
	Mach Pattern: The dialed number will be compared against the prefix + this match pattern. Upon a match, the match pattern portion of the dialed number will be sent to the trunks.
	SDfR(Stripped Digits from Right): The amount of digits to be deleted from the right end of the number. If the value of this item exceeds the length of the current number, the whole number will be deleted.

RDfR(Reserved Digits from Right): The amount of digits to be reserved from the right end of the number. If the value of this item under the length of the current number, the whole number will be reserved.

StA(Suffix to Add): Designated information to be added to the right end of the current number.

Caller Name: What caller name would you like to set before sending this call to the

	<p>endpoint.</p> <p>Disabled Caller Number Change : Disable the caller number change, and fixed caller number match pattern.</p>
Time Patterns that will use this Route	Time Patterns that will use this Route help
Forward Number	<p>What destination number will you dial?</p> <p>This is very useful when you have a transfer call.</p>
Failover Call Through Number	The gateway will attempt to send the call out each of these in the order you specify.

Groups


Sometimes you want to make a call through one port, but you don't know if it is available, so you have to check which port is free. That would be troublesome. But with our product, you don't need to worry about it. You can combine many Ports or SIP to groups. Then if you want to make a call, it will find available port automatically.

Figure 5-2-1 Group Rules



Group Name	Type	Policy	Members	Actions
p1	fx	roundrobin	1,2,3,4,5,6,7,8	 
SIP	sip	roundrobin	802,1002,800,801,802,803,804,805,806	 

New Group...

You can click  button to set new group, and if you want to modify existed group,

you can click  button.

Figure 5-2-2 Create a Group

Create a Group

Routing Groups

Group Name:

Type:

Policy:

Members

NO	
1	<input type="checkbox"/> All
2	<input checked="" type="checkbox"/> sip-8005
3	<input checked="" type="checkbox"/> sip-8006
4	<input checked="" type="checkbox"/> sip-8007
5	<input checked="" type="checkbox"/> sip-8008
6	<input type="checkbox"/> sip-9001
7	<input type="checkbox"/> sip-9002
8	<input checked="" type="checkbox"/> sip-9003
9	<input type="checkbox"/> sip-9004
10	<input type="checkbox"/> sip-9005

Save Cancel

Figure 5-2-3 Modify a Group

Modify a Group

Routing Groups

Group Name:

Type:

Policy:

Members

NO	
1	<input checked="" type="checkbox"/> All
2	<input checked="" type="checkbox"/> fxo-1
3	<input checked="" type="checkbox"/> fxo-2
4	<input checked="" type="checkbox"/> fxo-3
5	<input checked="" type="checkbox"/> fxo-4

Save Cancel

Table 5-2-1 Definition of Routing Groups

Options	Definition
Group Name	The mean of this route. Should be used to describe what types of calls this route match (for example, 'sip1 TO port1' or 'port1 To sip2').

Batch Create Rules

If you bind telephone for each FXO port and want to establish separate call routings for them. For convenience, you can batch create call routing rules for each FXO port at once in this page.

Figure 5-3-1 Batch Create Rules

Port	Forward Number	Up Endpoint	CallerID
FWD-1	<input type="text"/>	None ▾	<input type="text"/>
FWD-2	<input type="text"/>	None ▾	<input type="text"/>
FWD-3	<input type="text"/>	None ▾	<input type="text"/>
FWD-4	<input type="text"/>	None ▾	<input type="text"/>

6. Network

On “Network” page, there are “Network Settings”, “VPN Settings”, “DDNS Settings”, and “Toolkit”.

Network Settings

There are three types of LAN port IP, Factory, Static and DHCP. Factory is the default type, and it is 172.16.99.1.

When you Choose LAN IPv4 type is “Factory”, this page is not editable.

A reserved IP address to access in case your gateway IP is not available. Remember to set a similar network segment with the following address of your local PC.

Figure 6-1-1 LAN Settings Interface

The screenshot displays the LAN Settings interface with the following sections and values:

- LAN IPv4:**
 - Interface: eth0
 - Type: Static
 - MAC: A2:58:2E:07:33:70
- IPv4 Settings:**
 - Address: 172.16.99.1
 - Netmask: 255.255.0.0
 - Default Gateway: 172.16.0.1
- DNS Servers:**
 - DNS Server 1: 202.96.134.133
 - DNS Server 2: 202.96.128.166
 - DNS Server 3: 8.8.8.8
 - DNS Server 4: (empty)
- Reserved Access IP:**
 - Enable: ON
 - Reserved Address: 192.168.99.1
 - Reserved Netmask: 255.255.255.0

Table 6-1-1 Definition of Network Settings

Options	Definition
---------	------------

Interface	The name of network interface.
Type	<p>The method to get IP.</p> <p>Factory: Getting IP address by Slot Number (System → information to check slot number).</p> <p>Static: manually set up your gateway IP.</p> <p>DHCP: automatically get IP from your local LAN.</p>
MAC	Physical address of your network interface.
Address	The IP address of your gateway.
Netmask	The subnet mask of your gateway.
Default Gateway	Default gateway IP address.
Reserved Access IP	A reserved IP address to access in case your gateway IP is not available. Remember to set a similar network segment with the following address of your local PC.
Enable	<p>A switch to enable the reserved IP address or not.</p> <p>ON(enabled), OFF(disabled)</p>
Reserved Address	The reserved IP address for this gateway.
Reserved Netmask	The subnet mask of the reserved IP address.

Basically this info is from your local network service provider, and you can fill in four DNS servers.

Figure 6-1-2 DNS Interface

DNS Servers

DNS Server 1:	<input style="width: 80%;" type="text" value="221.179.38.7"/>
DNS Server 2:	<input style="width: 80%;" type="text"/>
DNS Server 3:	<input style="width: 80%;" type="text"/>
DNS Server 4:	<input style="width: 80%;" type="text"/>

Table 6-1-2 Definition of DNS Settings

Options	Definition
DNS Servers	A list of DNS IP address. Basically this info is from your local network service provider.

VPN Settings

You can upload the VPN client configuration, if success, you can see a VPN virtual network card on SYSTEM status page. About the configure format you can refer to the Notice and Sample configuration.

Figure 6-2-1 VPN Interface

VPN Settings

VPN Type: OpenVPN +

The type of VPN:
OpenVPN: openvpn.
PPTP VPN: pptpvpn.
None: none.

OpenVPN Settings

Upload Configuration: 选择文件 串连接收配置

File Upload

Notes:
1. The format of the upload file should be like this one (e.g.):
2. The path of configuration files should be - conf.
3. The upload file can not include any directory.
4. It will upload files divided the sample configuration and refer to it.

Download Samples

Save

DDNS Settings

You can enable or disable DDNS (dynamic domain name server).

Figure 6-3-1 DDNS Interface

DDNS Settings

DDNS: ON

Type: inadyn

Username: admin

Password: admin

Your domain: www.internet.site.com

Table 6-3-1 Definition of DDNS Settings

Options	Definition
DDNS	Enable/Disable DDNS(dynamic domain name
Type	Set the type of DDNS server.
Username	Your DDNS account's login name.
Password	Your DDNS account's password.
Your domain	The domain to which your web server will belong.

Toolkit

It is used to check network connectivity. Support Ping command on web GUI.

Figure 6-4-1 Network Connectivity Checking


Interface: LAN

google.com Ping

google.com Traceroute

Output

```
ping -I 172.16.178.1 -c 4 google.com
PING google.com (173.194.72.101) from 172.16.178.1: 56 data bytes
64 bytes from 173.194.72.101: icmp_seq=1 ttl=46 time=598.5 ms
64 bytes from 173.194.72.101: icmp_seq=3 ttl=46 time=600.5 ms

--- google.com ping statistics ---
4 packets transmitted, 2 packets received, 50% packet loss
round-trip min/avg/max = 596.5/598.5/600.5 ms
```

Result

Successfully ping [google.com]

Figure 6-4-2 Channel Recording


Channel Recording

Start time: 172.16.178.1

End time: 172.16.178.1

Recording time: 3000

Channel: 1

Recording Option Parameter: UDP

Add a Recording parameter option

Result

Figure 6-4-3 Capture Network Data

Table 6-4-1 Definition of Channel Recording

Options	Definition
Interface	The name of network interface.
Source host	Capture the data of source host you specified
Destination host	Capture the data of destination host you specified
Port	Capture the data of port you specified
Channel	Capture the data of channel you specified
Tcpdump Option Parameter	The tool of tcpdump capture network data by parameter option specified.

7. Advanced

Asterisk API

When you make “Enable” switch to “on”, this page is available.

Figure 7-1-1 API Interface

The screenshot displays the Asterisk API configuration interface with three tabs: General, Manager, and Rights.

- General Tab:**
 - Enabled:** A toggle switch set to "ON".
 - Port:** A text field containing "5038".
- Manager Tab:**
 - Manager Name:** A text field containing "admin".
 - Manager secret:** A text field containing "admin".
 - Deny:** A text field containing "0.0.0.0/0.0.0.0".
 - Permit:** A text field containing "172.16.123.123/255.255.0.0&192.168.1.0/255.255.0.0".
- Rights Tab:**
 - System:** read: ☒ write: ☒
 - Call:** read: ☒ write: ☒
 - Log:** read: ☒ write: ☒
 - Verbose:** read: ☒ write: ☒

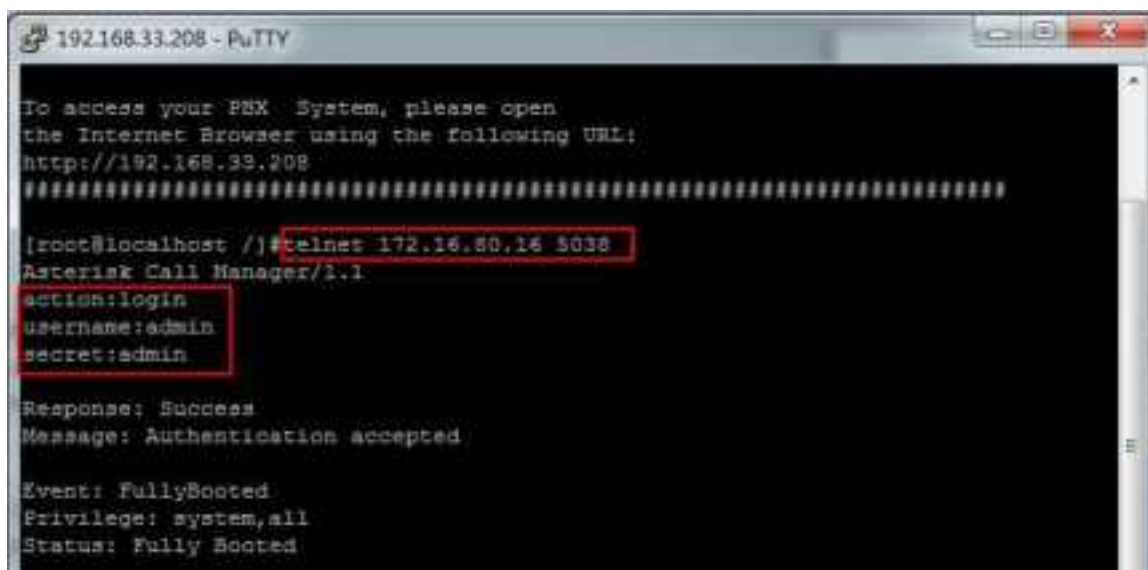
Table 7-1-1 Definition of Asterisk API

Options	Definition
Port	Network port number
Manager Name	Name of the manager without space
Manager secret	Password for the manager. Characters: Allowed characters “-_.<>&0-9a-zA-Z”. Length:4-32 characters.
Deny	If you want to deny many hosts or networks, use char & as separator.Example: 0.0.0.0/0.0.0.0 or 192.168.1.0/255.255.255.0&10.0.0.0/255.0.0.0

Permit	If you want to permit many hosts or network, use char & as separator.Example: 0.0.0.0/0.0.0.0 or 192.168.1.0/255.255.255.0&10.0.0.0/255.0.0.0
System	General information about the system and ability to run system management commands, such as Shutdown, Restart, and Reload.
Call	Information about channels and ability to set information in a running channel.
Log	Logging information. Read-only. (Defined but not yet used.)
Verbose	Verbose information. Read-only. (Defined but not yet used.)
Command	Permission to run CLI commands. Write-only.
Agent	Information about queues and agents and ability to add queue members to a queue.
User	Permission to send and receive UserEvent.
Config	Ability to read and write configuration files.
DTMF	Receive DTMF events. Read-only.
Reporting	Ability to get information about the system.
CDR	Output of cdr, manager, if loaded. Read-only.
Dialplan	Receive NewExten and Varset events. Read-only.
Originate	Permission to originate new calls. Write-only.
All	Select all or deselect all.

Once you set like the above figure, the host 172.16.80.16/255.255.0.0 is allowed to access the gateway API. Please refer to the following figure to access the gateway API by putty. 172.16.80.16 is the gateway's IP, and 5038 is its API port.

Figure 7-1-2 Putty Access



Asterisk CLI

In this page, you are allowed to run Asterisk commands.

Figure 7-2-1 Asterisk Command Interface

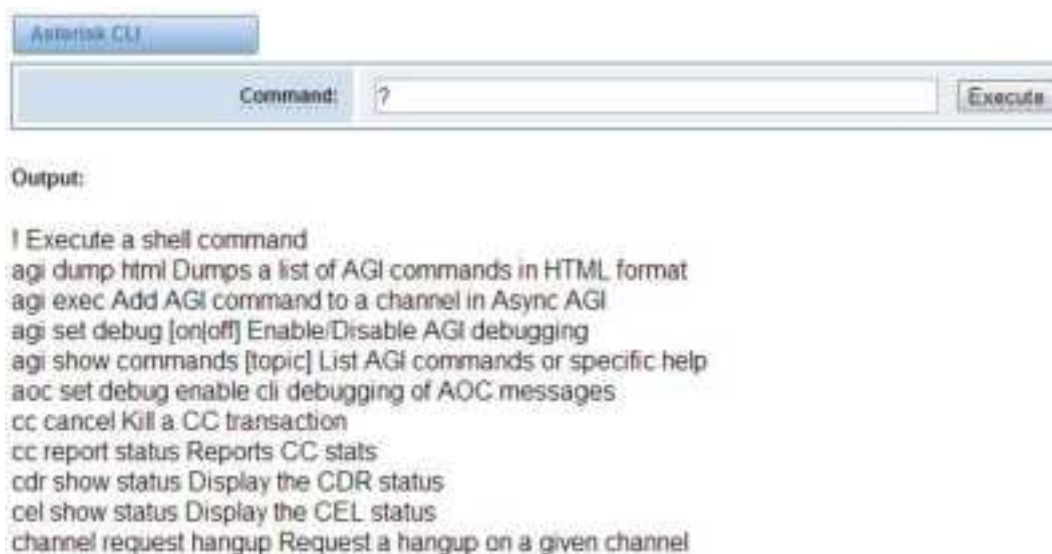


Table 7-2-1 Definition of Asterisk API

Options	Definition
Command	Type your Asterisk CLI commands here to check or debug your gateway.

If you type “help” or “?” and execute it, the page will show you the executable commands.

Asterisk File Editor

On this page, you are allowed to edit and create configuration files.

Click the file to edit.

Figure 7-3-1 Configuration Files List

Configuration Files	
File Name	File Size
asterisk.conf	247
asterisk.conf	448
astmoh.conf	0
ast.conf	332
chan_sip.conf	248
sip.conf	2882
sip.conf	18
sip.conf	248
sip.conf	188
sip.conf	817

1 2 3 4 + 3 4 go

New Configuration File Reload Asterisk

Click “New Configuration File” to create a new configuration file. After editing or creating, please reload Asterisk.

8. Logs

Log Settings

On the “Log Settings” page, you should set the related logs on to scan the responding logs page. For example, set “System Logs” on like the following, then you can turn to “System” page for system logs, otherwise, system logs is unavailable. And the same with other log pages.

Figure 8-1-1 Logs Settings



System Logs		
System Logs:	<input checked="" type="checkbox"/>	ON
Auto clean:	<input checked="" type="checkbox"/>	ON maxsize: 1MB

Asterisk Logs		
Verbose:	<input type="checkbox"/>	OFF
Notice:	<input type="checkbox"/>	OFF
Warning:	<input type="checkbox"/>	OFF
Debug:	<input type="checkbox"/>	OFF
Error:	<input type="checkbox"/>	OFF
DTMF:	<input type="checkbox"/>	OFF
Auto clean:	<input checked="" type="checkbox"/>	ON maxsize: 100KB

SIP Logs		
SIP Logs:	<input type="checkbox"/>	OFF
Auto clean:	<input checked="" type="checkbox"/>	ON maxsize: 100KB

Call Detail Record		
Call Detail Record:	<input type="checkbox"/>	OFF
Auto clean:	<input checked="" type="checkbox"/>	ON maxsize: 20MB

Table 8-1-1 Definition of LOG

Options	Definition
System Logs	Whether enable or disable system log.
Auto clean (System Logs)	<p>switch on : when the size of log file reaches the max size, the system will cut a half of the file. New logs will be retained.</p> <p>switch off : logs will remain, and the file size will increase gradually. default on, max size=1MB.</p>
Verbose	Asterisk console verbose message switch.
Notice	Asterisk console notice message switch.
Warning	Asterisk console warning message switch.
Debug	Asterisk console debug message switch.
Error	Asterisk console error message switch.
DTMF	Asterisk console DTMF info switch.
Auto clean: (asterisk logs)	<p>switch on : when the size of log file reaches the max size, the system will cut a half of the file. New logs will be retained.</p> <p>switch off : logs will remain, and the file size will increase gradually. default on, max size=100KB.</p>
SIP Logs:	Whether enable or disable SIP log.
Auto clean: (SIP logs)	<p>switch on : when the size of log file reaches the max size,the system will cut a half of the file. New logs will be retained.</p> <p>switch off : logs will remain, and the file size will increase gradually. default on, default size=100KB.</p>
Call Detail Record	Displaying Call Detail Records for each channel.
Auto clean: (Call Detail Record)	<p>switch on : when the size of log file reaches the max size,the system will cut a half of the file. New logs will be retained.</p> <p>switch off : logs will remain, and the file size will increase gradually. default on, default size=20MB.</p>

System

Figure 8-2-1 System Logs Output



Notice: The same to Asterisk Logs and SIP Logs.

CDR

You can scan every call detail records in this page. We also provide the filter for you to search some specific records.

Figure 8-3-1 Call Detail Record

Call ID	Call ID	From	To	Start Time	Duration	Result
				From To	From To	Go

Filter Clear Filter

Total Records: 201

Call ID	Call ID	From	To	Start time	Duration	Result
8888	8888	8888	8888	2017-12-12 17:41:34	00:00:00	NO ANSWER
8888	8888	8888	8888	2017-12-12 17:43:33	00:00:00	NO ANSWER
8888	8888	8888	8888	2017-12-12 18:35:11	00:00:00	NO ANSWER
8888	8888	8888	8888	2017-12-12 18:35:40	00:00:00	NO ANSWER
8888	8888	8888	8888	2017-12-12 18:31:21	00:00:00	NO ANSWER
8888	8888	8888	8888	2017-12-12 18:45:18	00:00:00	NO ANSWER
8888	8888	8888	8888	2017-12-12 18:44:57	00:00:00	BUSY
12345	8888	12345	8888	2017-12-12 18:41:11	00:00:01	ANSWERED
8888	8888	8888	8888	2017-12-12 18:38:44	00:00:10	ANSWERED
8888	8888	8888	8888	2017-12-12 18:35:38	00:00:00	NO ANSWER

1 2 3 4 5 6 7 8 9 10 11 + 29 go

Delete Clear Log Export