

IAG804/IAG808 User Manual



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1. Overview

What is iAG804/808?

This document is to explain the quad-FXO module of analog gateway.

OpenVox Analog Gateway 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).

There are four models with Analog Gateway, the 4FXS, 8FXS, 4FXO and 8FXO, and there are 4/8 ports in iAG804/808. The Modular Design Analog Gateways are developed for interconnecting the PSTN networks with a wide selection of codecs and signaling protocol, including G.711A, G.711U, G.729, G.722, G.723, iLBC to quickly reduce communication expenses and maximize cost-savings.

The Analog gateway use standard SIP protocol and compatible with Leading IMS/NGN platform, IPPBX and SIP servers, support most of the VoIP operating platforms such as Asterisk, Elastix, 3CX, FreeSWITCH ,Broadsoft etc.

Sample Application



Figure 1-2-1 Topological Graph

Product Appearance

The picture below is appearance of Analog Series Gateway.



Figure 1-3-1 Product Appearance

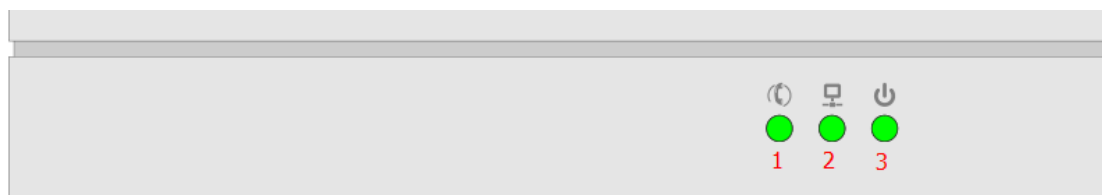


Figure 1-3-2 Front Panel

- 1 : System LED
- 2 : Network interface LED
- 3 : Power Indicator

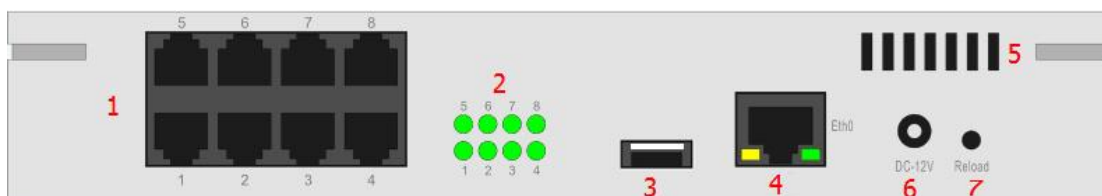


Figure 1-3-4 Back Panel

- 1 : Analog Telephone Interface (8)
- 2 : Channel indicator (8)
- 3 : USB Interface(1)
- 4 : Ethernet ports (1)
- 5 : Fan vent
- 6 : Power socket
- 7 : Reload button

Main Features

- Modular design
- Based on Asterisk®
- Editable Asterisk® configuration file
- Support T.38 fax relay and T.30 fax transparent, can continually fax multiple page
- Echo cancellation and Static jitter buffer
- Wide selection of codecs and signaling protocol
- DTMF relay
- Ring cadence and frequency setting
- MWI(Message waiting indicator)
- DHCP , DNS/DDNS, NAT Network
- VAG and CNG
- All hot-swap
- Stable performance, flexible dialing, friendly GUI
- Two-year time warranty

Physical Information

Table 1-5-1 Description of Physical Information

Weight	580g
Size	21cm*21cm*3.6cm
Temperature	-20~70°C (Storage)
	0~40°C (Operation)
Operation humidity	10%~90% non-condensing
Power source	12V DC/4A
Max power	16W
LAN port	1

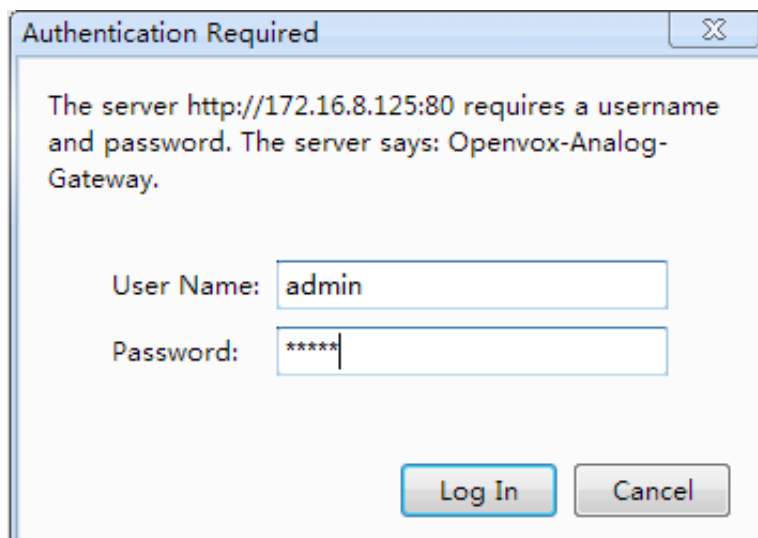
Software

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. Now we offer you two RJ45 Network ports to access to your gateway on the board, ETH1 and ETH2. You can choose either of them and they are the same.

A screenshot of a web browser's authentication dialog box. The title bar reads "Authentication Required". The main text says: "The server http://172.16.8.125:80 requires a username and password. The server says: Openvox-Analog-Gateway." Below this, there are two input fields. The first is labeled "User Name:" and contains the text "admin". The second is labeled "Password:" and contains six asterisks "*****". At the bottom right, there are two buttons: "Log In" and "Cancel".

Authentication Required

The server http://172.16.8.125:80 requires a username and password. The server says: Openvox-Analog-Gateway.

User Name:

Password:

Figure 1-6-1 LOGIN Interface

2. System

Status

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

Port Information					
Port	Name	Type	Line Status	Port Status	
1	board1-port1	FXO	Disconnected	OnHook	
2	board1-port2	FXO	Disconnected	OnHook	
3	board1-port3	FXO	Disconnected	OnHook	
4	board1-port4	FXO	Disconnected	OnHook	
5	board1-port5	FXO	Disconnected	OnHook	
6	board1-port6	FXO	Disconnected	OnHook	
7	board1-port7	FXO	Disconnected	OnHook	
8	board1-port8	FXO	Disconnected	OnHook	

SIP Information					
Endpoint Name	User Name	Host	Registration	SIP Status	Response Code
9000	9000	172.16.8.182	none	UNREACHABLE	
9001	9001	172.16.80.104	none	OK (12 ms)	
9002	9002	172.16.8.180	none	UNREACHABLE	

Routing Information		
Rule Name	From	To
failover_1	9000	fxo-1 9001
failover_2	9000	9002 9001
failover_3	9000	fxo-1 9002 9001

Network Information						
Name	MAC Address	IP Address	Mask	Gateway	RX Packets	TX Packets
LAN	A0:98:05:01:57:D2	172.16.80.61	255.255.0.0	172.16.0.1	514643	39628

Figure 2-1-1 System Status

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].
Auto-Sync from NTP	Whether enable automatically synchronize from NTP server or not. ON is enable, OFF is disable this function.

For example, you can configure like this:

Time Settings	
System Time:	2016-3-3 14:06:15
Time Zone:	Hong Kong ▼
POSIX TZ String:	HKT-8
NTP Server 1:	cn.pool.ntp.org
NTP Server 2:	tw.pool.ntp.org
NTP Server 3:	
Auto-Sync from NTP:	<input checked="" type="checkbox"/> ON
<input type="button" value="Sync from NTP"/> <input type="button" value="Sync from Client"/>	

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	NOTES: Your gateway doesn't have administration role. All you can do here is defining the username and password to manage your gateway. And it has all privileges to operate your gateway. User Name: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.

Web Login Settings

User Name:	1122
Password:
Confirm Password:

SSH Login Settings

Enable:	<input checked="" type="checkbox"/> ON
User Name:	super
Password:
Port:	12345

Save

Figure 2-3-1 Login Settings

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

General, Cluster, Tools and Information

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.

Language Settings	
Language:	English ▼
Advanced:	<input checked="" type="checkbox"/> ON
Language Debug:	<input type="button" value="TURN ON"/> <input type="button" value="TURN OFF"/>
Download:	Download selected language package. <input type="button" value="Download"/>
Delete:	Delete selected language. <input type="button" value="Delete"/>
Add New Language:	New language Package: <input type="button" value="选择文件"/> 未选择任何文件 <input type="button" value="Add"/>

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”.

Scheduled Reboot	
Enable:	<input checked="" type="checkbox"/> ON
Reboot Type:	By Day ▼ By Day By Week By Month By Running Time
Time:	0 ▼

Figure 2-4-2 Reboot Types

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

Snmp Agent	
Enable:	<input checked="" type="checkbox"/> ON
<input type="button" value="Save"/>	

Figure 2-4-3 Snmp Agent

Cluster

Working Mode	
Action:	Automatic Cluster
Basis:	<input type="checkbox"/> Image build time <input type="checkbox"/> Image version
Detail:	<input checked="" type="checkbox"/> ON
Mode:	Stand-alone ▼
Action:	Manual Cluster

Figure 2-4-4 Working Mode

Reboot Tools

On the “Tools” pages, there are reboot, update, upload, backup and restore toolkits. You can choose system reboot and Asterisk reboot separately.

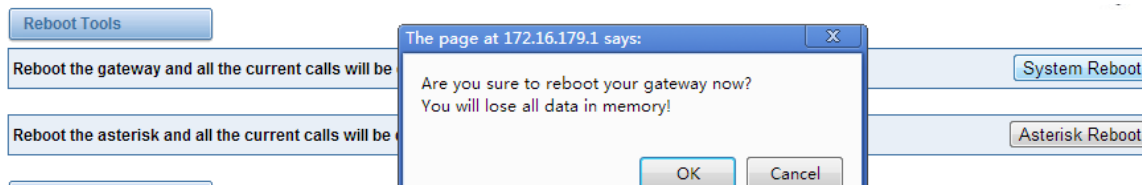


Figure 2-4-5 Reboot Prompt

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

Table 2-4-1 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 2-4-6 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.

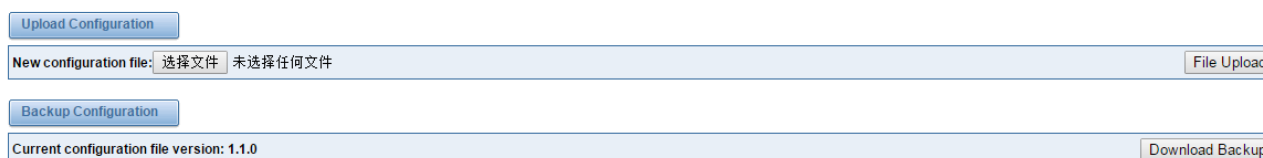


Figure 2-4-7 Upload and Backup

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.

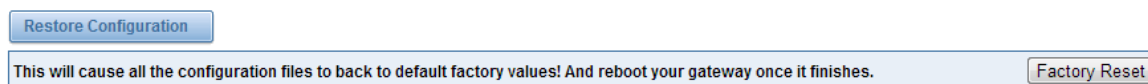


Figure 2-4-8 Factory Reset

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.

Model Name:	VS-AGU-E2M0800
Software Version:	1.1.0
Hardware Version:	1.0.0
Slot Number:	1
Storage Usage:	1.7M/63.5M (3%)
Memory Usage:	59.067 % Memory Clean
Build Time:	2016-03-01 17:26:17
Contact Address:	10/F, Building 6-A, Baoneng Science and Technology Industrial Park, Longhua New District, Shenzhen, Guangdong, China 518109
Tel:	+86-755-82535461
Fax:	+86-755-83823074
E-Mail:	support@openvox.cn
Web Site:	www.openvox.cn
System Time:	2016-3-3 14:32:39
System Uptime:	0 days 03:59:26

Figure 2-4-9 System Information

3. Analog

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

Channel Settings

Port	Type	Name	Line Status	Port Status
1	FXO	<input type="text" value="board1-port1"/>	Disconnected	OnHook
2	FXO	<input type="text" value="board1-port2"/>	Disconnected	OnHook
3	FXO	<input type="text" value="board1-port3"/>	Disconnected	OnHook
4	FXO	<input type="text" value="board1-port4"/>	Disconnected	OnHook
5	FXO	<input type="text" value="board1-port5"/>	Disconnected	OnHook
6	FXO	<input type="text" value="board1-port6"/>	Disconnected	OnHook
7	FXO	<input type="text" value="board1-port7"/>	Disconnected	OnHook
8	FXO	<input type="text" value="board1-port8"/>	Disconnected	OnHook

Figure 3-1-1 Channel System

On this page, you can see every port status.

Advanced Settings

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

Global Settings

General

Tone duration:	<input type="text" value="100"/>
Dial timeout:	<input type="text" value="180"/>
Codec:	<input type="text" value="Ulaw"/>
Impedance:	<input type="text" value="China"/>
Echo cancel tap length:	<input type="text" value="512"/>
VAD/CNG:	<input checked="" type="checkbox"/> ON
Flash/Wink:	<input checked="" type="checkbox"/> ON
Min flash time:	<input type="text" value="40"/>
Max flash time:	<input type="text" value="400"/>
Hangup on polarity switch:	<input type="checkbox"/> OFF

Figure 3-2-1 General Configuration

Table 3-2-1 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.
Min flash time	Min flash time.(in milliseconds).
Max flash time	Max flash time.(in milliseconds).
Hangup on polarity switch	Turn on/off hide caller id function.

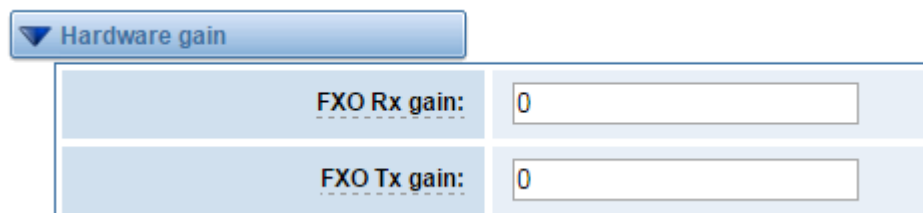


Figure 3-2-2Hardware Gain

Table 3-2-2 Instruction of Hardware gain

Options	Definition
FXO Rx gain	Set the FXO port Rx gain. Range: from -150 to 120.
FXO Tx gain	Set the FXO port Tx gain. Range: from -150 to 120.

▼ CallerID detect

Use Callerid:	<input checked="" type="checkbox"/>
Hide Callerid:	<input checked="" type="checkbox"/>
callerid:	asreceived ▼
cidsignalling:	dtmf ▼
cidstart:	polarity ▼

Figure 3-2-3 CallerID detect

Table 3-2-3 Instruction of CallerID detect

Options	Definition
Use Callerid	Turn on/off callerid detect function
Hide Callerid	Turn on/off callerid detect function

▼ Busy detect

Busy detect:	<input checked="" type="checkbox"/>
Busy count:	3
Busy country:	China ▼

Figure 3-2-4 Busy detect

Table 3-2-4 Instruction of Busy detect

Options	Definition
Busy detect	Turn on/off busy detect function
Busy count	How many busy tones to wait for before hanging up. The default is 3, but it might be safer to set to 6 or even 8.
Busy country	Set the busy detect country.

▼ Silence detect

Silence detect:	ON <input type="checkbox"/>
Silence threshold:	<input type="text" value="250"/>
Max silence:	<input type="text" value="480"/>
Rx threshold:	<input type="text" value="38"/>
Tx threshold:	<input type="text" value="38"/>

Figure 3-2-5 Silence detect

Table 3-2-5 Definition of Silence detect

Options	Definition
Silence detect	Turn on/off silence detect function
Silence threshold	What we consider silence: the lower, the more sensitive, eg:250 is 250ms. Range: 100 to 500(100 to 500ms), default: 250
Max silence	How many silence threshold of silence before hanging up(eg: 16 is 250ms*16=4s). Range: 2 to 1020 (200ms to 512s), default: 80(20s)
Rx threshold	Range:-20 dBm0 to -40 dBm0, default: 20(-20 dBm0), all values are understood to be negative.
Tx threshold	Range:-20 dBm0 to -40 dBm0, default: 20(-20 dBm0), all values are understood to be negative.

▼ Fax

Mode:	Adaptive ▼
Rate:	No speed limit ▼
Ecm:	ON <input type="checkbox"/>

Figure 3-2-6 Fax Configuration

Table 3-2-6 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.
-----	---

Country

Country:	United States / North America
Ring cadence:	2000,4000
Dial tone:	350+440
Ring tone:	440+480/2000,0/4000
Busy tone:	480+620/500,0/500
Call waiting tone:	440/300,0/10000
Congestion tone:	480+620/250,0/250
Dial recall tone:	!350+440/100,10/100,!350+440/100,10/100,!350+440/100,10/100,350+
Record tone:	1400/500,0/15000
Info tone:	!950/330,!1400/330,!1800/330,0
Stutter tone:	!350+440/100,10/100,!350+440/100,10/100,!350+440/100,10/100,!350+

Figure 3-2-7 Country Configuration

Table 3-2-7 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.)
Stutter tone	

Special Function Keys

Function Keys

None Keys Blind Transfer:	ON <input type="checkbox"/>
Blind Transfer:	<input type="text"/>
Asked Transfer:	*38 <input type="text"/>

Save Cancel

Figure 3-3-1 Function keys

Table 3-3-1 Definition of Function keys

Options	Definition
None Keys Blind Transfer	None Keys Blind Transfer help.
Blind Transfer	Blind Transfer help.
Asked Transfer	Asked Transfer help.

4. SIP

SIP Endpoints

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






<input type="checkbox"/>	Endpoint Name	Registration	Credentials	Actions
<input type="checkbox"/>	9000	none	9000@172.16.8.182	 
<input type="checkbox"/>	9001	none	9001@172.16.80.104	 

Figure 4-1-1 SIP Status

You can click 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.)

▼ Main Endpoint Settings	
Name:	301
User Name:	<input type="text"/> <input checked="" type="checkbox"/> Anonymous
Password:	<input type="password"/>
Registration:	None ▼
Hostname or IP Address:	172.16.80.61
Backup Hostname or IP Address:	172.16.80.61
Transport:	UDP ▼
NAT Traversal:	Yes ▼
SUBSCRIBE for MWI:	No ▼
VOS Encryption:	No ▼

Figure 4-1-2 Anonymous Registration


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.

▼ Main Endpoint Settings	
Name:	301
User Name:	301 <input type="checkbox"/> Anonymous
Password:	...
Registration:	Endpoint registers with this gateway ▼
Hostname or IP Address:	dynamic
Backup Hostname or IP Address:	172.16.80.61
Transport:	UDP ▼
NAT Traversal:	Yes ▼
SUBSCRIBE for MWI:	No ▼
VOS Encryption:	No ▼

Figure 4-1-3 Register to Gateway

Also you can choose registration by “This gateway registers with the endpoint”, it’s the same with

“None”, except name and password.

 Main Endpoint Settings

Name:	<input type="text" value="301"/>
User Name:	<input type="text" value="301"/> <input type="checkbox"/> Anonymous
Password:	<input type="password" value="..."/>
Registration:	<input type="text" value="This gateway registers with the endpoint"/>
Hostname or IP Address:	<input type="text"/>
Backup Hostname or IP Address:	<input type="text" value="172.16.80.61"/>
Transport:	<input type="text" value="UDP"/>
NAT Traversal:	<input type="text" value="Yes"/>
SUBSCRIBE for MWI:	<input type="text" value="No"/>
VOS Encryption:	<input type="text" value="No"/>

Figure 4-1-4 Register to Server

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	Whether this endpoint will register to this gateway ro this gateway to the endpoint.
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. Notice: if the input here is hostname and your DNS has changed, you must reboot asterisk.
Backup 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. Notice: if the input here is hostname and your DNS has changed, you must reboot asterisk.

Transport	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. During the peer Registration the transport type may change to another supported type if the peer requests so.
NAT Traversal	Addresses NAT-related issues in incoming SIP or media sessions.
SUBSCRIBE for MWI	Whether or not to subscribe to receive the MWI.
VOS Encryption	Whether or not to enable VOS Encryption.

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.

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	If we should generate in-band ringing. Always use 'never' to never use in-band signaling, even in cases where some buggy devices might not render it. Valid values: yes, no never. Default: never.
Allow Overlap Dialing	Allow Overlap Dialing: Whether or not to allow overlap dialing. Disabled by default.
Append user=phone to URI	Whether or not to add '; user=phone' to URIs that contain a valid phone number.
Add Q.850 Reason Headers	Whether or not to add Reason header and to use it if it is available.

Honor SDP Version	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 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 promiscdir 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.

Advanced SIP Settings

Networking

Table 4-2-1 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.
Enable Internal SIP Call	Whether enable the internal SIP calls or not when you select the registration option "Endpoint registers with this gateway".
Internal SIP Call Prefix	Specify a prefix before routing the internal calls.

NAT Settings

Table 4-2-2Definition 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 for 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 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 4-2-3Definition of RTP 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	RTP Timeout

Parsing and Compatibility

Table 4-3-4 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 Methods	When a dialog is started with another SIP endpoint, the other endpoint should include an Allow header telling us what SIP methods the endpoint implements. However, some endpoints either do not include an Allow header or lie about what methods they implement. In the former case, the gateway makes the assumption that the endpoint support all known SIP methods. If you know that your SIP endpoint does not provide support for a specific method, then you may provide a list of methods that your endpoint does not implement in the disallowed_methods option. Note that if your endpoint is truthful with its Allow header, then there is no need to set this option.
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 4-3-5 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 4-3-6 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

5.Routing

Call Routing Rules





































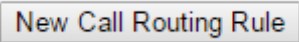



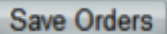


Move	Order	Rule Name	From	To	Actions
	1	test_1	9000	9001	 
	2	test_2	9000	9001	 
	3	test_3	9000	9001	 
	4	test_4	9000	9001	 
	5	test_5	9000	9001	 
	6	test_6	9000	9001	 
	7	test_7	9000	9001	 
	8	test_8	9000	9001	 
	9	test_9	9000	9001	 
	10	test_10	9000	9001	 
	11	test_11	9000	9001	 
	12	test_12	9000	9001	 

Figure 5-1-1 Routing Rules

You are allowed to set up new routing 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  shows current routing rules. Otherwise you can set up unlimited routing rules.



Routing Name:	<input type="text"/>
Call Comes in From:	None ▼
Send Call Through:	None ▼

Figure 5-1-2 Create a Call Routing Rule

Modify a Call Routing Rule

▼ Call Routing Rule

Routing Name:	test_108
Call Comes in From:	9000 ▼
Send Call Through:	9001 ▼

Figure 5-1-2 Modify a Call Routing Rule

Table 5-1-1 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.

▼ Advance Routing Rule

Dial Patterns that will use this Route

(8108)

+

prefix

[8108]

/

Callerid

✗

(prepend)

+

prefix

[match pattern]

/

Callerid

✗

+ Add More Dial Pattern Fields

Change Rules

Set the Caller ID Name to

Set the Caller ID Number to

Forward Number

Failover Call Through Number

Add a Failover Call Through Provider

Save





Cancel

Figure 5-1-3 Advance Routing Rule

Table 5-1-2 Definition of Advance Routing Rule

Options	Definition
Dial Patterns that will use this Route	Callee ID Manipulation Help
Set the Caller ID Name to	What caller ID name would you like to set before sending this call to the endpoint.
Set the Caller ID Number to	What caller number would you like to set before sending call to the endpoint.
Forward Number	What destination number will you dial? This is very useful when you have a transfer call.
Failover Call Through Number	The gateway will attempt to send the call out each of these in the order you specify.

Groups

Group Name	Type	Policy	Members	Actions
all	fxo	roundrobin	1, 2, 3, 4, 5, 6, 7, 8	 
SIP	sip	roundrobin	987, 1002, 980, 981, 982, 983, 984, 985, 986	 






Figure 5-2-1 Group Rules

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

Create a Group

Routing Groups

Group Name:	<input style="width: 90%;" type="text"/>
Type:	FXO ▾
Policy:	Ascending ▾
Members	<div style="display: flex; align-items: flex-start;"> <div style="width: 30px; text-align: right;">NO.</div> <div style="flex-grow: 1;"> <input type="checkbox"/> All 1 <input type="checkbox"/> fxo-1 2 <input type="checkbox"/> fxo-2 3 <input type="checkbox"/> fxo-3 4 <input type="checkbox"/> fxo-4 5 <input type="checkbox"/> fxo-5 6 <input type="checkbox"/> fxo-6 7 <input type="checkbox"/> fxo-7 8 <input type="checkbox"/> fxo-8 </div> </div>

Figure 5-2-2 Create a Group

Modify a Group

Routing Groups

Group Name:	<input style="width: 90%;" type="text" value="all"/>
Type:	FXO ▾
Policy:	Roundrobin ▾
Members	<div style="display: flex; align-items: flex-start;"> <div style="width: 30px; text-align: right;">NO.</div> <div style="flex-grow: 1;"> <input type="checkbox"/> All 1 <input checked="" type="checkbox"/> fxo-1 2 <input checked="" type="checkbox"/> fxo-2 3 <input checked="" type="checkbox"/> fxo-3 4 <input checked="" type="checkbox"/> fxo-4 5 <input checked="" type="checkbox"/> fxo-5 6 <input checked="" type="checkbox"/> fxo-6 7 <input checked="" type="checkbox"/> fxo-7 8 <input checked="" type="checkbox"/> fxo-8 </div> </div>

Figure 5-2-2 Modify a Group

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').

6 Network, Advanced and Logs

Network

On “Network” page, there are “Network Settings”, “VPN Setting”, “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.

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

- LAN IPv4**

Interface:	eth0
Type:	Static ▼
MAC:	A0:98:05:01:57:D2
- IPv4 Settings**

Address:	172.16.80.61
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:	
- Reserved Access IP**

Enable:	ON <input checked="" type="checkbox"/>
Reserved Address:	192.168.99.1
Reserved Netmask:	255.255.255.0

Save

Figure 6-1-1 LAN Settings Interface

Table 6-1-1 Definition of Network Settings

Options	Definition
Interface	The name of network interface.
Type	The method to get IP. Factory: Getting IP address by Slot Number (System → information to check slot number). Static: manually set up your gateway IP. DHCP: automatically get IP from your local LAN.
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	A switch to enable the reserved IP address or not. ON(enabled), OFF(disabled)
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.

DNS Servers

DNS Server 1:	<input style="width: 90%;" type="text" value="221.179.38.7"/>
DNS Server 2:	<input style="width: 90%;" type="text"/>
DNS Server 3:	<input style="width: 90%;" type="text"/>
DNS Server 4:	<input style="width: 90%;" type="text"/>

Figure 6-1-2 DNS Interface

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.

VPN Settings

VPNType: OpenVPN ▼

OpenVPN Settings

Upload Configuration: 选择文件 未选择任何文件 File Upload

Notice:

1. The format of the upload file should be like this xxx.tar.gz;
2. The postfix of configuration files should be .conf;
3. The upload file can not include any directory;
4. If still confused please download the sample configuration and refer to it;

Sample Configuration Download Samples

Save

Figure 6-1-3 OpenVPN Interface

VPN Settings

VPNType: PPTP VPN ▼

PPTP VPN Settings

Server:	0.0.0.0
Account:	test
Password:
Domain:	
Use MPPE:	<input type="checkbox"/>

Save

Figure 6-1-4 PPTP VPN Interface

DDNS Settings

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

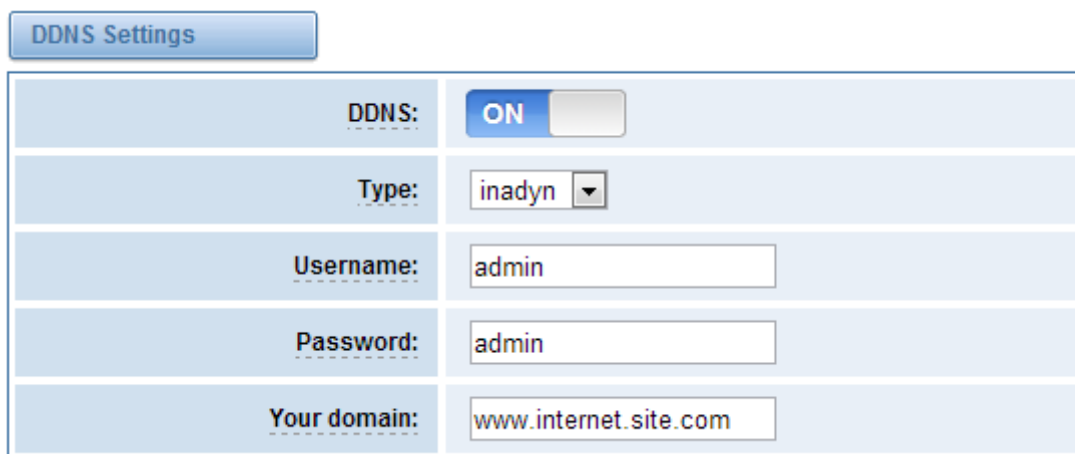


Figure 6-1-5 DDNS Interface

Table 6-1-3 Definition of DDNS Settings

Options	Definition
DDNS	Enable/Disable DDNS(dynamic domain name server)
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.

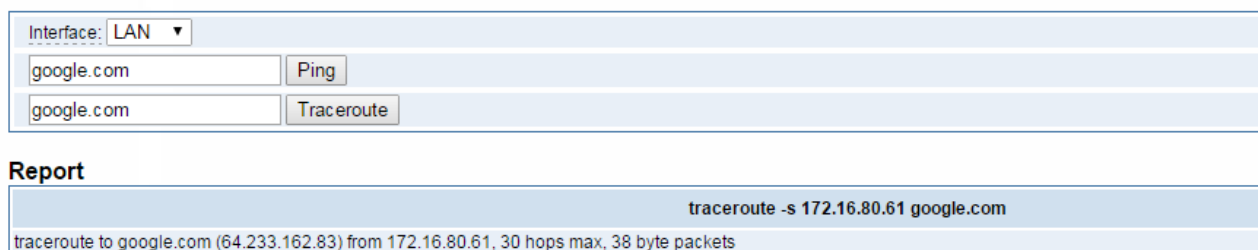


Figure 6-1-6 Network Connectivity Checking

Advanced

Asterisk API

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

General		
Enable:	<input checked="" type="checkbox"/> ON <input type="checkbox"/>	
Port:	5038	

Manager		
Manager Name:	admin	
Manager secret:	admin	
Deny:	0.0.0.0/0.0.0.0	
Permit:	172.16.123.123/172.16.80.61	

Rights		
System:	read: <input checked="" type="checkbox"/>	write: <input checked="" type="checkbox"/>
Call:	read: <input checked="" type="checkbox"/>	write: <input checked="" type="checkbox"/>
Log:	read: <input checked="" type="checkbox"/>	write: <input checked="" type="checkbox"/>
Verbose:	read: <input checked="" type="checkbox"/>	write: <input checked="" type="checkbox"/>
Command:	read: <input type="checkbox"/>	write: <input checked="" type="checkbox"/>
Agent:	read: <input checked="" type="checkbox"/>	write: <input checked="" type="checkbox"/>
User:	read: <input checked="" type="checkbox"/>	write: <input checked="" type="checkbox"/>
Config:	read: <input checked="" type="checkbox"/>	write: <input checked="" type="checkbox"/>

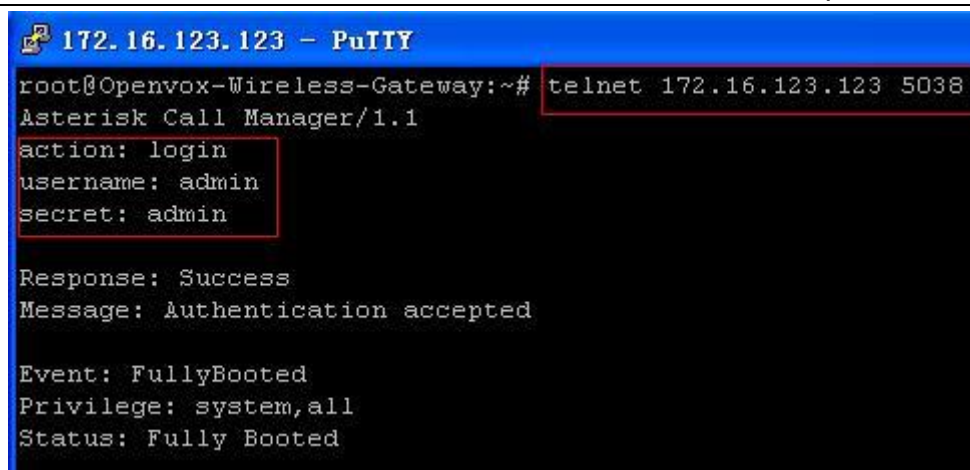
Figure6-2-1 API Interface

Table 6-2-1 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
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 172.16.123.123/255.255.0.0 is allowed to access the gateway API. Please refer to the following figure to access the gateway API by putty. 172.16.123.123 is the gateway's IP, and 5038 is its API port.



```
172.16.123.123 - PuTTY
root@Openvox-Wireless-Gateway:~# telnet 172.16.123.123 5038
Asterisk Call Manager/1.1
action: login
username: admin
secret: admin

Response: Success
Message: Authentication accepted

Event: FullyBooted
Privilege: system,all
Status: Fully Booted
```

Figure 6-2-2 Putty Access

Asterisk CLI

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

Asterisk CLI

Command:

Execute

Output:

! Execute a shell command
agi dump html Dumps a list of AGI commands in HTML format
agi exec Add AGI command to a channel in Async AGI
agi set debug [on|off] Enable/Disable AGI debugging
agi show commands [topic] List AGI commands or specific help
aoc set debug enable cli debugging of AOC messages
cc cancel Kill a CC transaction
cc report status Reports CC stats
cdr show status Display the CDR status
cel show status Display the CEL status
channel request hangup Request a hangup on a given channel

Figure 6-2-3 Asterisk Command Interface

Table 6-2-2 Definition of Asterisk API

Options	Definition
Command	Type your Asterisk CLI commands here to check or debug your gateway. e.g, type "help" or "?" you will get all help information.

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.

Configuration Files	
File Name	File Size
asterisk.conf	247
astmanproxy.conf	439
cdr.conf	572
chan_dahdi.conf	240
dahdi-channels.conf	2455
dahdi_startup.conf	78
dnsmgr.conf	245
extensions.conf	161
extensions_dialmatchingrules.conf	922
extensions_fxs.conf	10

1

2

3

4

▶

1

/ 4

go

New Configuration File

Reload Asterisk

Figure 6-2-4 Configuration Files List

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

Logs

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.

System Logs

System Logs: ☒ ON

Whether enable or disable system log. size: 1MB

Asterisk Logs

Verbose: ☒ ON

Notice: ☒ ON

Warning: ☒ ON

Debug: ☒ ON

Error: ☒ ON

DTMF: ☒ ON

Auto clean: ☒ ON maxsize: 100KB

SIP Logs

SIP Logs: ☒ ON

Auto clean: ☒ ON maxsize: 100KB

Call Detail Record

Call Detail Record: ☒ ON

Auto clean: ☒ ON maxsize: 20MB

Save

Figure 6-3-1 System Logs Control

System Logs

```

[1970/01/01 07:01:23] Power on
[2016/03/03 10:33:00] Power off
[1970/01/01 07:01:15] Power on
[2016/03/03 15:20:49] Power off
[2016/03/03 15:22:07] Power on
[2016/03/03 15:28:14] Power off
[2016/03/03 15:29:34] Power on
[2016/03/04 10:41:04] Restart astmanproxy (keeper).
[2016/03/04 10:43:04] Restart astmanproxy (keeper).
[2016/03/04 10:45:04] Restart astmanproxy (keeper).
[2016/03/04 10:47:05] Restart astmanproxy (keeper).
[2016/03/04 10:49:05] Restart astmanproxy (keeper).
[2016/03/04 10:51:05] Restart astmanproxy (keeper).
[2016/03/04 10:53:05] Restart astmanproxy (keeper).
[2016/03/04 10:55:05] Restart astmanproxy (keeper).
[2016/03/04 10:57:06] Restart astmanproxy (keeper).
[2016/03/04 10:59:06] Restart astmanproxy (keeper).
[2016/03/04 11:01:06] Restart astmanproxy (keeper).
[2016/03/04 11:03:07] Restart astmanproxy (keeper).
[2016/03/04 11:05:08] Restart astmanproxy (keeper).
[2016/03/04 11:07:08] Restart astmanproxy (keeper).
[2016/03/04 11:09:08] Restart astmanproxy (keeper).
[2016/03/04 11:11:08] Restart astmanproxy (keeper).
[2016/03/04 11:13:08] Restart astmanproxy (keeper).
[2016/03/04 11:15:08] Restart astmanproxy (keeper).
[2016/03/04 11:17:09] Restart astmanproxy (keeper).
[2016/03/04 11:19:09] Restart astmanproxy (keeper).
[2016/03/04 11:21:09] Restart astmanproxy (keeper).
[2016/03/04 11:23:09] Restart astmanproxy (keeper).

```

Refresh Rate: Off

Refresh

Clean Up

Figure 6-3-2 System Logs Output

Notice: The same to Asterisk Logs and SIP Logs.

Table 6-3-1 Definition of Log Setting

Options	Definition
System Logs	Whether enable or disable system log.
Auto clean (System Logs)	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. switch off : logs will remain, and the file size will increase gradually. default on, max size=1MB.
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)	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. switch off : logs will remain, and the file size will increase gradually. default on, max size=100KB.
SIP Logs	Whether enable or disable SIP log.
Auto clean (SIP logs)	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. switch off : logs will remain, and the file size will increase gradually. default on, default size=100KB.
Call Detail Record	Displaying Call Detail Records for channel.
Auto clean	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. switch off : logs will remain, and the file size will increase gradually. default on, default size=20MB.

CDR

You can scan your CDR easily on web GUI, and also you can delete, clean up export your CDR information.

Caller ID	Callee ID	From	To	Start Time	Duration	Result
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	from <input type="text"/> to <input type="text"/>	from <input type="text"/> to <input type="text"/>	<input type="text"/>

Filter Clean Filter

Total Records: 258

<input type="checkbox"/>	Caller ID	Callee ID	From	To	Start Time	Duration	Result
<input type="checkbox"/>	9000	81278127	9000	9001	2016-03-04 11:22:02	00:00:01	ANSWERED
<input type="checkbox"/>	9000	81268126	9000	9001	2016-03-04 11:22:00	00:00:01	ANSWERED
<input type="checkbox"/>	9000	81258125	9000	9001	2016-03-04 11:21:58	00:00:01	ANSWERED
<input type="checkbox"/>	9000	81248124	9000	9001	2016-03-04 11:21:56	00:00:01	ANSWERED
<input type="checkbox"/>	9000	81238123	9000	9001	2016-03-04 11:21:54	00:00:01	ANSWERED
<input type="checkbox"/>	9000	81228122	9000	9001	2016-03-04 11:21:52	00:00:01	ANSWERED
<input type="checkbox"/>	9000	81218121	9000	9001	2016-03-04 11:21:51	00:00:01	ANSWERED
<input type="checkbox"/>	9000	81208120	9000	9001	2016-03-04 11:21:49	00:00:01	ANSWERED
<input type="checkbox"/>	9000	81198119	9000	9001	2016-03-04 11:21:47	00:00:01	ANSWERED
<input type="checkbox"/>	9000	81188118	9000	9001	2016-03-04 11:21:45	00:00:01	ANSWERED

1 2 3 4 5 6 7 8 9 10 11 ▶ 1 / 26 go

Delete Clean Up Export

Figure 6-3-3 CDR Output

Thank You for Choosing OpenVox Products!