

VS-AGU-E1M800-S User Manual



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1. Overview

What is VS-AGU-E1M800-S Gateway?

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

OpenVox VS-AGU-E1M800-S 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).

The Modular Design VS-AGU-E1M800-S 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 VS-AGU-E1M800-S 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

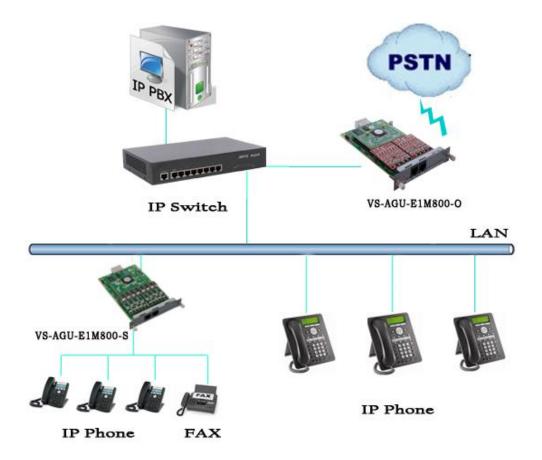


Figure 1-2-1 Topological Graph

Product Appearance

The picture below is appearance of Analog Series Gateway.





Figure 1-3-1 Product Appearance

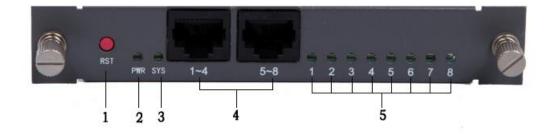


Figure 1-3-2 Front Panel

- 1 : Reset button
- 2 : Power Indicator
- 3: System LED
- 4 : Analog Telephone Interface (2)
- 5 : Power Indicator

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	200g
Size	22cm*2cm*12cm
Temperature	-40~125°C (Storage)
	0~50°C (Operation)
Operation humidity	10%~90% non-condensing
Power source	12V DC/2A
Max power	11W

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.



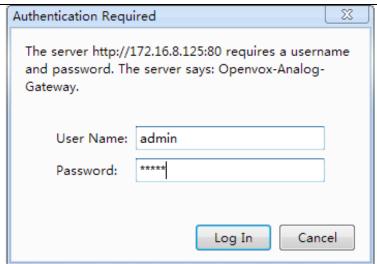


Figure 1-6-1 LOGIN Interface



2. System

Status

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

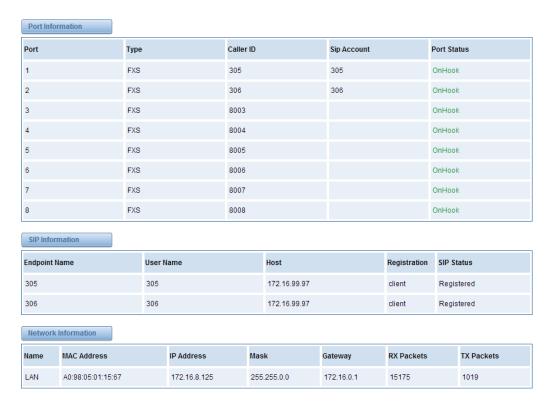


Figure 2-1-1 System Status

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].
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:

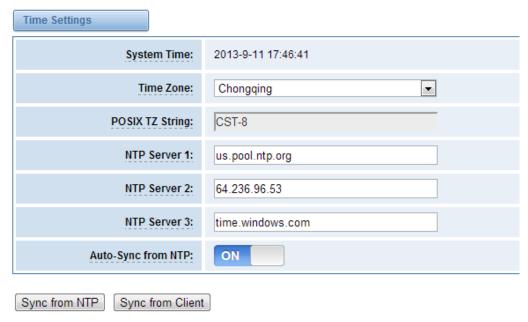


Figure 2-2-1 Time Settings

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.



Figure 2-3-1 Login Settings

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

General, 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.





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".

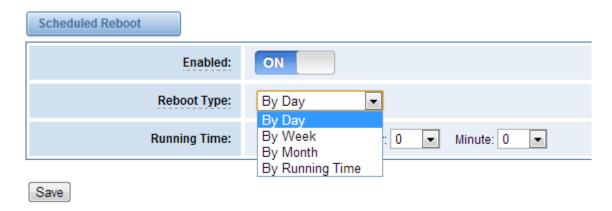


Figure 2-4-2 Reboot Types

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

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 2-4-3 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.

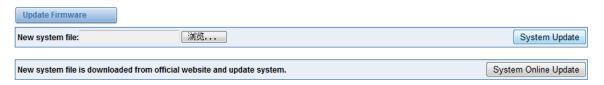


Figure 2-4-4 Update Firmware

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 2-4-5 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 2-4-6 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 2-4-7 System Information



3. Analog

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

Channel Settings

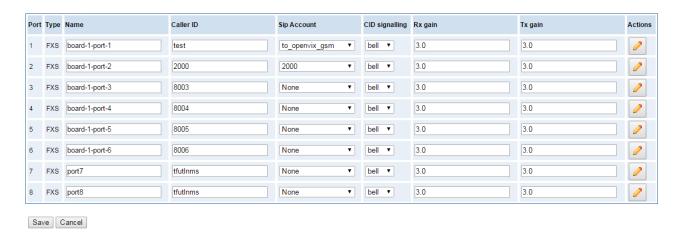


Figure 3-1-1 Channel System

On this page, you can see every port status, and click action



button to configure the port.



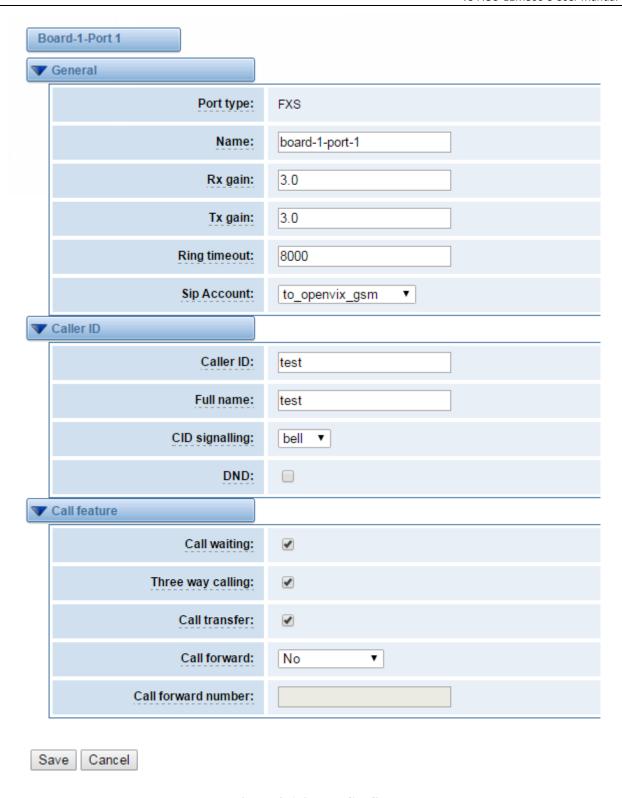


Figure 3-1-2 Port Configure

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

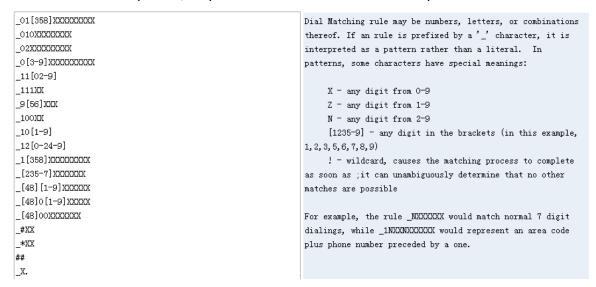


Figure 3-2-1 Port Configure

Advanced Settings

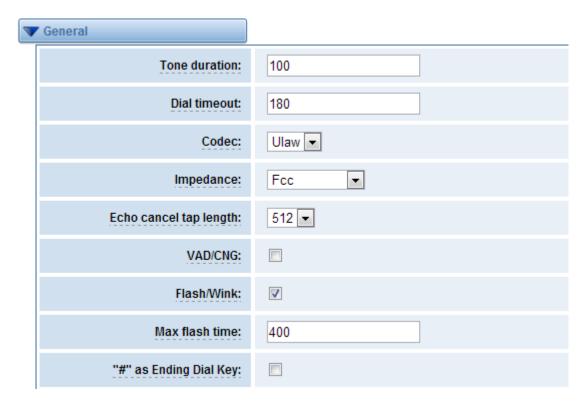


Figure 3-3-1 General Configuration



Table 3-3-1 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	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.

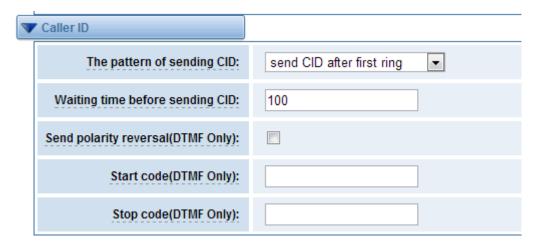


Figure 3-3-2 Caller ID

Table 3-3-2 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	Send polarity reversal before sending the CID on the channel.
reversal(DTMF Only)	
Start code(DTMF Only)	Start code.
Stop code(DTMF Only)	Stop code.



Figure 3-3-3 Hardware Gain

Table 3-3-3 Instruction of Hardware gain

Options	Definition
FXS Rx gain	Set the FXS port Rx gain. Range: -35, 0 or 35.
FXS Tx gain	Set the FXS port Tx gain. Range: -35, 0 or 35.

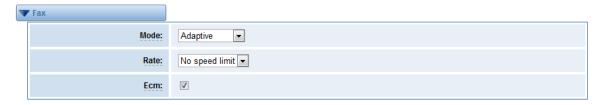


Figure 3-3-4 Fax Configuration

Table 3-3-4 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.



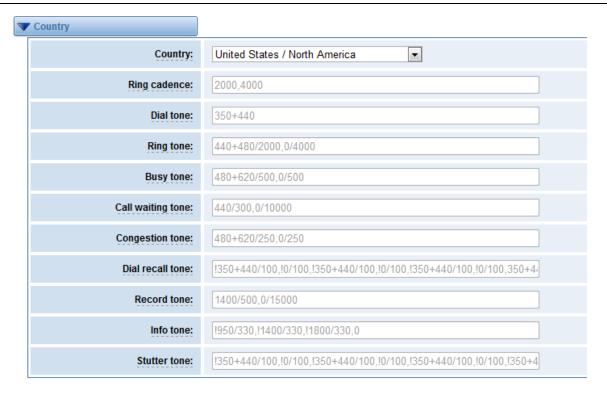


Figure 3-3-5 Country Configuration

Table 3-3-5 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.)
Stutter tone	



4. SIP

SIP Endpoints

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

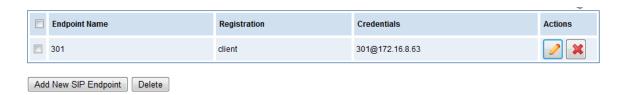


Figure 4-1-1 SIP Status

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.)



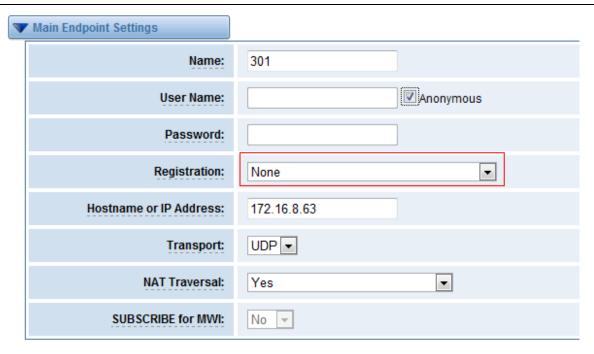


Figure 4-1-2 Anonymous Registration

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.

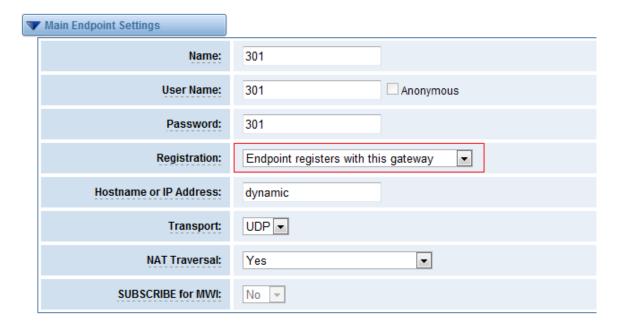


Figure 4-1-3 Register to Gateway

Also you can choose registration by "This gateway registers with the endpoint", it's the same with



"None", except name and password.

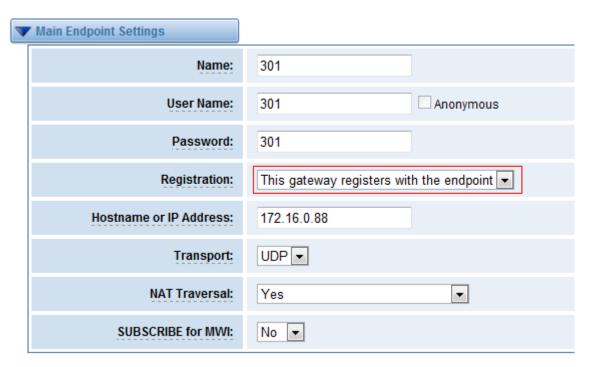


Figure 4-1-4 Register to Server

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.
	NoneNot registering;
	Endpoint registers with this gatewayWhen register as this type, it
	means the GSM gateway acts as a SIP server, and SIP endpoints register to
Registration	the gateway;
	This gateway registers with the endpointWhen register as this type, it
	means the GSM gateway acts as a client, and the endpoint should be
	register to a SIP server;
Hostname or IP	IP address or hostname of the endpoint or 'dynamic' if the endpoint has a dynamic IP address. This will require registration.
Addless	aynamic ii addiess. Tiis wiii tequile tegistiation.



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. NoUse Rport if the remote side says to use it. Force Rport onForce Rport to always be on. YesForce Rport to always be on and perform comedia RTP handling. Rport if requested and comediaUse Rport if the remote side says to use it and perform comedia RTP handling.

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.



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	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).
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 promiscredir 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.
Outbound Proxy	A proxy to which the gateway will send all outbound signaling instead of sending signaling directly to endpoints.

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.

Batch SIP Endpoint

If you want add batch Sip accounts, you can configure this page. Look out: this is only used when "This gateway registers with the endpoint" work mode.

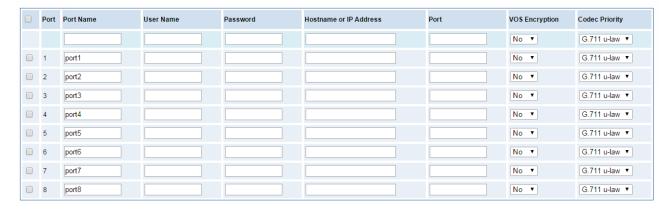


Figure 4-2-1 Batch SIP Endpoint



Advanced SIP Settings

Networking

Table 4-3-1 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	Whether enable the internal SIP calls or not when you select the
Call	registration option "Endpoint registers with this gateway".
Internal SIP Call Prefix	Specify a prefix before routing the internal calls.

NAT Settings



Table 4-3-2 Definition of NAT Settings

Options	Definition
	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.
Local 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.
	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
Subscribe Network	renew all outbound registrations when the monitor detects any sort of
Change Event	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.

Advanced: NAT Settings

Table 4-3-3 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 4-3-4 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	The external hostname (and optional TCP port) of the NAT.
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. 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.

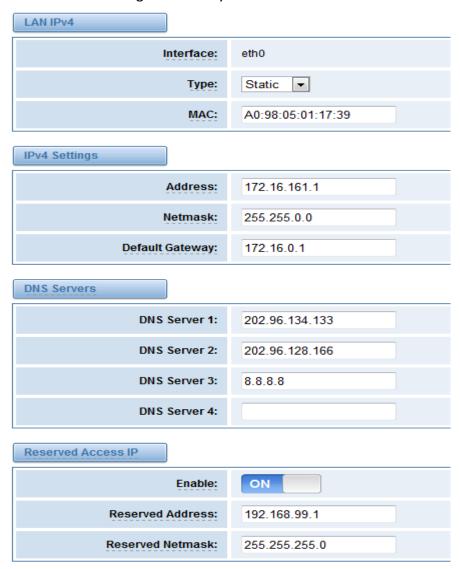


Figure 5-1-1 LAN Settings Interface



Table 5-1-1 Definition of Network Settings

Options	Definition
Interface	The name of network interface.
Туре	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 getaway 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.

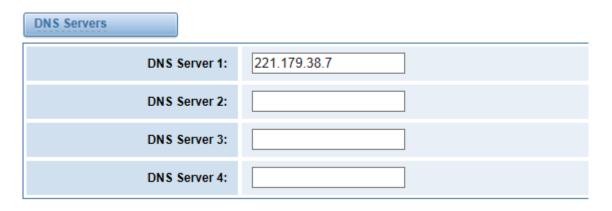


Figure 5-1-2 DNS Interface



Table 5-1-2 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 OpenVPN 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.

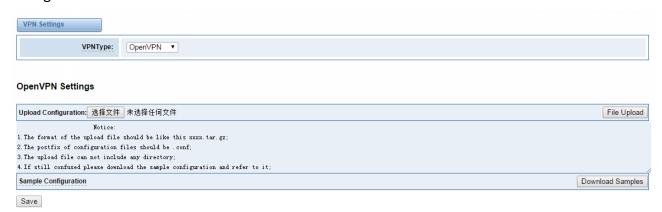


Figure 5-1-3OpenVPN Interface



Figure 5-1-4PPTP VPN Interface



DDNS Settings

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



Figure 5-1-5 DDNS Interface

Table 5-1-3 Definition of DDNS Settings

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



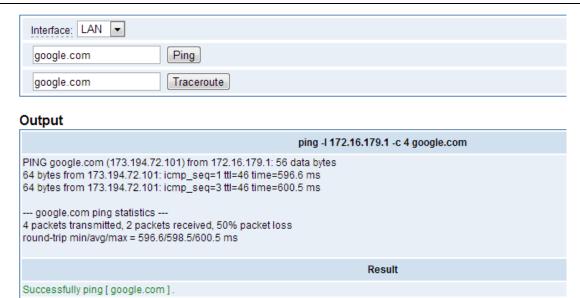


Figure 5-1-6 Network Connectivity Checking

Advanced

Asterisk API

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



Figure 5-2-1 API Interface



Table 5-2-1 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. Separator. 192.168.1.0/255.255.255.0&10.0.0/255.0.0.0
Permit	If you want to permit many hosts or network, use char & as separator. separator. 2.168.1.0/255.255.255.0&10.0.0/255.0.0.0
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 172.16.123.123/255.255.0.0 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.



```
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 5-2-2 Putty Access

Asterisk CLI

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



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 5-2-3 Asterisk Command Interface

 Options
 Definition

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

Table 5-2-2 Definition of Asterisk API

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 5-2-4 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.



Figure 5-3-1 System Logs Control



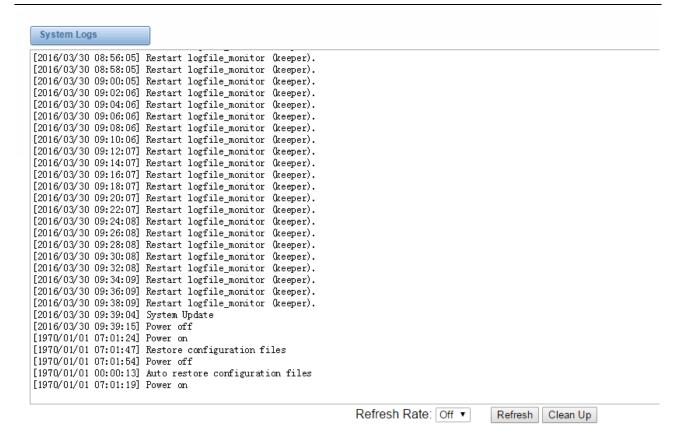


Figure 5-3-2 System Logs Output

Notice: The same to Asterisk Logs and SIP Logs.

Table 5-3-1 Definition of LOG

Options	Definition
System Logs	Whether enable or disable system log.
Auto clean	switch on :
(System Logs)	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:	switch on :
(asterisk logs)	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:	switch on :
(SIP logs)	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.
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