

This document applies to OpenVox GSM Gateway WGW1002, VS-GW1202-4/8G and VS-GW1600 series. There are two RJ45 Network ports, ETH1 and ETH2. If you choose ETH1, you can access Board 1 only, and access other boards with the same IP address, different port numbers. This will help to avoid IP conflict. If you choose ETH2, you can access different Boards with different IP addresses. But there is only one RJ45 Network port on WGW1002.

VoxStack provides 2 working modes: Stand-alone and Cluster.

Stack Num	IP	Username	Password
1	172.16.99.1	admin	admin
2	172.16.99.2	admin	admin
3	172.16.99.3	admin	admin
4	172.16.99.4	admin	admin
5	172.16.99.5	admin	admin

 \Rightarrow Stand-alone: A single IP address manages one GSM modules (4 ports).

 \Rightarrow Cluster: A single IP address manages up to 5 GSM modules (up to 20 ports).

Default IP: 172.16.99.1 User Name: admin Password: admin







Step 1. Set Network Parameters in Web

If your system topology like the figure described, please enter the gateway default IP address in your browser to login web, and click "NETWORK—>LAN Settings" to set network parameters such as IP.

LAN IPv4		
Interface:	eth0	
Туре:	Factory -	
MAC:	00:02:E7:F5:00:03	
IPv4 Settings		
Address:	172.16.99.5	
Netmask:	255.255.0.0	
Default Gateway:	172.16.0.1	

Save your changes. Please type in your DNS server in "DNS Server Address".



Step 2. Create a SIP Endpoint in Web

Please select "SIP—>SIP Endpoints—>Add New SIP Endpoint" to set SIP trunk. The following figure shows detail information about how to set it.

Add a New SIP Endpoint

	Main Endpoint Settings	
	Name:	voxstack2012
	Username:	voxstack2012
	Password:	2012
	Registration:	This gateway registers with the endpoint \bullet
	Hostname or IP Address:	172.16.8.119
	Transport:	UDP -
	NAT Traversal:	Yes 🔻

About other parameters in SIP, please set by your requirements for there is no need to set them in simple calls.





Step 3. Set Routing Rules in Web

Click "ROUTING—> Call Routing Rules—> New Call Routing Rule" to set outbound and inbound routing rules like the following:

Call Routing Rule	
Routing Name:	inbound
Call Comes in From:	gsm-1(13428690093_555) -
Send Call Through:	voxstack2012 -

Save the inbound call routing rules, please set the outbound rules as introduced. In order to make all calls successfully, please enable and set failover function in advanced routing rule like that:

Call Routing Rule	
Routing Name:	outbound
Call Comes in From:	voxstack2012 -
Send Call Through:	gsm-1(13428690093_555) -

V Advance Routing Rule

Please save all your changes to make effect.



vi /usr/local/freeswitch/conf/directory/default/voxstack.xml



```
<include>
<user id="voxstack2012">
<params>
<param name="password" value="2012"/>
<param name="vm-password" value="9999"/><!--if vm-password is omitted pass-</pre>
word param is used-->
</params>
<variables>
<!--all variables here will be set on all inbound calls that originate from
this user -->
<variable name="user context" value="public"/>
<variable name="effective caller id name" value="voxstack"/>
<variable name="effective caller id number" value="2012"/>
<!-- Don't write a CDR if this is false valid values are: true, false,
a leg and b leg -->
<variable name="process cdr" value="true"/>
</variables>
</user>
</include>
```



Step 5. Dialing Rules in FreeSWITCH[®]

Outbound rules realize dialing "9+destination number" to the remote party, and 9 can be replaced by any other digital. Edit the outband dialplan in /usr/local/freeswitch/conf/dialplan/ default.xml

```
<extension name="voxstack2012_gateway">
     <condition field="destination_number" expression="^9(\d+)$">
     <action application="answer"/>
     <action application="set" data="ringback=${us-ring}"/>
     <action application="bridge" data="sofia/internal/$1@172.16.99.5"/>
     </condition>
</extension>
```

Inbound rules realize all incoming calls transfer to SIP extension 3001. Edit the outband dialplan in /usr/local/freeswitch/conf/dialplan/public/00_inbound_did.xml.





Front Panel



LED Indicator Color		Status		
③Network Status LED	Green and Flash	Network Connected		
	Green and Flash	Module Initiating		
	Red and Flash	No SIM Card		
④ Signal Status LED	Red and No-flash	Worst Signal Quality		
	Yellow and No-flash	Medium Signal Quality		
	Green and No-flash	Best Signal Quality		
	Flash (0.25s)	Communicating		
⁽⁵⁾ Call Status LED	Blind	Normal		
⑦Running Status LED	Green and Flash(0.5s)	Work Normally		
[®] Power Indicator	Always Green	Supply Power		
During reset, all LED indicators flash.				