

Gsm Gateway Connect with Asterisk

The picture below shows you how to enable the ssh login settings.

VoxStack
WIRELESS GATEWAY

SYSTEM | GSM | SIP | ROUTING | SMS

Status | Time | Login Settings | General | Cluster

SYSTEM DETAILS

Free Commun

Web Login Settings

User Name:

Password:

Confirm Password:

Port:

SSH Login Settings

Enable: ON

User Name:

Password:

Port:

Step1: Enter the gsm gateway via ssh.

Basic options for your PuTTY session

Specify the destination you want to connect to

Host Name (or IP address) Port

Connection type:

Raw Telnet Rlogin SSH Serial

Load, save or delete a stored session

Saved Sessions

Default Settings

Load

Save

Delete

Close window on exit:

Always Never Only on clean exit

About

Edit the /etc/asterisk/modules.conf, change the ";load => chan_iax2.so" to "load => chan_iax2.so" at the end of the file.

Step 2: config the IAX trunk settings as below:

1. none mode (no secret or the gateway will not send a call out seccessfully.)

step 1: config the iax trunk.

Edit the /etc/asterisk/iax.conf file of gsm gateway, and add a trunk as below. After this, you need to reload the file in the asterisk.

```
[1001]
host=***Asterisk Server IP***
type=friend
context=from-iax
```

Create a IAX trunk for the Asterisk server like below.

```
[1001]
host=***GSM gateway IP***
type=friend
context=from-iax
```

step 2 : config a sip extension for testing in both gateway and your Asterisk server

GSM Gateway

```
[1112]
username=1112
secret=1112
host=dynamic
type=friend
context=from-internal
```

Asterisk Server

```
[16200]
username=16200
secret=16200
type=friend
host=dynamic
context=from-internal
```

step 3 : config the dialplan \

The dial pattern about IAX2 must be Dial(IAX2/sip username@server IP, or the call will drop.

Config the dialplan of your gsm gateway

```
[from-internal]
exten => _X.,1,Dial(IAX2/1001@you PBX IP/${EXTEN})
exten => X.,n,Hangup()
[from-iax]
exten => X.,1,Dial(SIP/${EXTEN})
exten => X.,n,Hangup()
```

config the dialplan of your asterisk server

```
[from-internal]
exten => X.,1,Dial(IAX2/1001@gsm gateway IP/${EXTEN})
exten => _X.,2,hangup()
```

```
[from-iax]
exten => _X.,1,Dial(SIP/${EXTEN})
exten => _X.,n,Hangup()
```

step 4 : make calls to test

2. register mode (this gateway register to asterisk server)

step 1: config the iax trunk

Edit the /etc/asterisk/iax.conf file of gsm gateway, and add a trunk as below. After this, you need to reload the file in the asterisk.

```
[general]
register => 1001@***Asterisk Server IP***
[1001]
host=***Asterisk Server IP***
type=friend
context=from-iax
```

Create an IAX trunk in the Asterisk server like below

```
[1001]
host=dynamic
type=friend
context=from-iax
```

step 2 : config the sip extension for testing

step 3 : config the dialplan

Config the dialplan of your gsm gateway

```
[from-internal]
exten => _X.,1,Dial(IAX2/1001@Asterisk Server IP/${EXTEN})
exten => _X.,n,Hangup()
[from-iax]
exten => _X.,1,Dial(SIP/${EXTEN})
exten => X.,n,Hangup()
```

config the dialplan of your Asterisk Server

```
[from-internal]
exten => _X.,1,Dial(IAX2/1001@gsm gateway IP/${EXTEN})
exten => X.,2,hangup()
[from-iax]
exten => X.,1,Dial(SIP/${EXTEN})
exten => _X.,n,Hangup()
```

step 4 : make calls to test

Notice: if you just using IAX2 to make calls from iax2 trunk to gsm ports, then you can add the custom dialplan in the extensions_custom.conf file.

If you want to make calls incoming from gsm ports to iax2 trunk, follow the steps below:

step 1: login the gateway via ssh.

To do this, you need go to SYSTEM ----> Login Settings and config ssh as following figure.

warning: the user name must be super.

SSH Login Settings	
Enable:	<input checked="" type="checkbox"/> ON
User Name:	<input type="text" value="super"/>
Password:	<input type="text" value="admin"/>
Port:	12345

step 2: edit the file /etc/asterisk/extensions_custom.conf and create your own dialplan.

step 3: execute following command:

```
vi /etc/asterisk/gw/custom.sh
```

and add two lines:

```
echo > /etc/asterisk/extensions_routing.conf // this will clean up the file
extensions_routing.conf
asterisk -rx "core reload"
```

step 4: run the command: /my_tools/sync2flash

step 5: reboot the gateway