

**AppNote** 

# VoxStack GSM Gateway Connect with iCallDrid Manual



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# The Topology



This manual is based on the topology, to guide you how to configure between iCallDroid and GSM Gateway.

# Create a Trunk Connect Gateway with iCallDroid

#### **Create Trunk in iCallDroid**

Step 1: Login your iCallDroid.

Asterisk <sup>™</sup> Cor	nfiguration Engine
Username:	admin
Password:	•••••
	Login

Please input your username and password, then click the login. You will access the iCallDroid world.

Step 2: Create a Trunk for the GSM Gateway: Please click the Trunk button, follows:

Please click on a panel to manage related features	*	Trunks Ø		
		Status	Trunk	Туј
	Rejec	ted	8888	sip
			openvox	Analog
	*	Extension	IS	_
🔡 Configure Wan Port		ll Analog	Features IAX	SIP
## DDNS		Exte	ension	
## Configure Hardware	60	100		6000
28 Trunks	60	101		6001
nn Outerine Celline Dules	60	102		6002
E Outgoing Calling Rules	60 🔵	103		6003
🔡 Dial Plans	60	104		6004
## Users	60	105		6005

Step 3: Choose the VOIP Trunk, follows:

Analog Trunks	VOIP Trunks	
Trunk	Analog Ports	
openvox	2	Edit X Delete

**Notice**: Because the iCallDroid connect the gateway via SIP protocol, so Please choice the "VOIPTrunk".

Step 4: Add a new SIP Trunk, for example:

Analog Trunks	VOIP Trunks	
+ New SIP/IAX Trunk		
		No SIP/IAX Trunks defined

Please click the New SIP/IAX Trunk.

Step 5: Configure the Trunk, like flows:

Create New SIP/IAX trun	k
Type:	SIP 💌
Context Naming 🛈:	Based on Username 💌
Provider Name 🛈:	8888
Hostname 🛈:	172.16.8.42
Username 🛈:	8888
Password :	8888
	○ Cancel ✓ Save

Type: Choose the Protocol Type, please choose the SIP

Hostname: The gateway IP address

**Notice**: Don't forget to save it (Click the Save button, and then click the Apply Changes)

When you finished the Trunk configuration, you will see it on Trunk menu.

8888	SIP	172.16.8.42	8888	Edit 🗶 Delete

Now, we have finished the Trunk configuration in iCallDroid. Nest, let us configure a trunk in GSM Gateway connect it with iCallDroid.

#### **Create Trunk in GSM Gateway**

Step 1: login your GSM Gateway

Step 2: Access the SIP menu, flows:

VoxStack	SYSTEM   GSM	SIP ROUTING	NETWORK   ADVAN	
	SIP Endpoints	Advanced SIP Settings	)	

Step 3: Click the Add New SIP Endpoint

Add New SIP Endpoint

Step 4: Configure the Trunk in GSM Gateway, flows:

V Main Endpoint Settings	
Name:	Trunk2lcall
User Name:	3888 Anonymous
Password:	8888 Same with iCallDroid
Registration:	None
Hostname or IP Address:	172.16.8.50 iCallDroid IP address
Transport:	
NAT Traversal:	Yes

Step 5: Save it and apply.

So far, we have created a Trunk connected the GSM Gateway with iCallDroid. Now Let us continue.

## Create an Outgoing Call Rules in iCallDroid

Step 1: Click the Outgoing Calling Rules, and then click the New Calling Rule, follows:



Step 2: Configure the Outgoing Call Rules in iCallDroid, follows:

New CallingRule
Calling Rule Name 🛈 : Test_out_rule
Pattern 🛈 : 🛛 X.
Caller ID() :
- 🗌 Send to Local Destination 🛈
Destination :
- Send this call through trunk:
Use Trunk 🛈 8888 💌
Strip 🛈 digits from front
and Prepend these digits ① before dialing
using this filter: 🕕
Use FailOver Trunk ① :
fail over Trunk 🛈 💽
Strip 🛈 📃 digits from front
and Prepend these digits ① before dialing
using this filter: 🛈
Cancel Save

Set a name for the outgoing rule and choice the Trunk to send the Call. **Notice**: Don't forget to save it and apply.

## Create a Dialplan in iCallDroid

Step 1: Please choose the "Dial Plans" menu, and click the "New DialPlan" button.

🔡 System Status	DialPlans 🔶
器 Configure Wan Port	+ New DialFlan
## DDNS	
器 Configure Hardware	A Dial Plan is a collection of Outgoing Call Rules. Dial Plans
## Trunks	Another user may be permitted to dial long distance numbers, and
🔡 Outgoing Calling Rules	
:: Dial Plans	
A DialPlan is a set of	Default Dial Plan
'Calling Rules' that can be	DialPlan1 openvox, default, parkedcalls, conferen
assigned to one of more	pa:

#### Step 2: Configure the DialPlan, like flows:

Edit DialPlan		
DialPlan Name:	Test_dialplan Dial Plan name	
Include Outgoing Calling Rules:	□ openvox VIest_out_rule Choice the outgoing rule	
Include Local Contexts:	♥ default ♥ parkedcalls ♥ conferences ♥ ringgroups ♥ voicemenus ♥ queues ♥ voicemailgroups ♥ directory ♥ pagegroups ♥ page_an_extension	1
	Cancel Save	

**Notice**: Please choose the outgoing rules you created, I have create an outgoing rule before. And then save it and apply.

#### Create an Extenstion in iCallDroid.

Step 1: Please access the "user" menu, and then click "add new user", like follows:

🔡 System Status	User E	xtensions on	РВХ Ф			
🔡 Configure Wan Port	<b>+</b> 0	reate New User	Modify Selected Users	🗶 Delete Sele	cted Users	1
## DDNS						1
🎛 Configure Hardware		Extension	Full Name	Port	SIP	14
## Trunks		6000	6000		Yes	
BOutgoing Calling Rules		6001	6001		Yes	
🔠 Dial Plans		6002	6002		Yes	
먦Users		6003	6003		Yes	

Notice: you can use the default Users.

Step 2: Configure the new user, as below:

General :
Extension: 6010 (DallerID Name: 6010 (DialPlan: Test_dialplan )
Internal CallerID: 6010 () CallerID Number: 6010 ()
🗌 🗖 Enable Voicemail for this User 🛈 ———————————————————————————————————
VoiceMail Access PIN code: ① Email Address: ①
Technology
SIP ① LAX ① Analog Station: None 🕑 ① flash ①: rxflash ①:
Codec Preference : First : u-law 💙 Second : GSM 🛛 Third : None 🔽 Fourth : None 🔽 Fifth :
None 💌
- VoIP Settings
MAC Address : 6010
STP/IAY Pageword, 6010
IAX: Max Call Numbers: 🛈
NAT: 🗹 🛈 Can Reinvite: 🗌 🛈 DIMF Mode: RFC2833 💌 🛈 insecure: 💿 🔍 🛈
Other Options
🗌 3-Way Calling (analog) 🛈 🔲 In Directory 🛈 🗌 Call Waiting (analog) 🛈
□ ADA User ① □ Is Agent ① Pickup Group: 1 ♥
S Cancel ☑ Update

**Notice**: Please choose the DialPlan that I have created before, so what I choose is the dialplan "Test\_dialplan".

Step 3: Register a SIP extenstion to iCallDroid. For example:

Properties of Account	t1 🔀
Account Voicemail Topolo	ogy Presence Advanced
User Details	
Display Name	5010
User name	6010
Password	***
Authorization user name	6010
Domain	172.16.8.50
Domain Proxy Register with domain and Send outbound via: domain proxy Address target domain	receive incoming calls
Dialing plan	#1\a\a.T;match=1;prestrip=2;
	<b>确定 取消</b> 应用 (A)

For now, we have finished the config in iCallDroid.

#### Create a Rule in GSM Gateway

Step 1: Click the ROUTING  $\rightarrow$  Call Routing Rules:

VoxStack	SYSTEM   GSM   SIF	P   ROUTING   NETWORK	ADVANCED   LOGS
	Call Routing Rules	Groups	

Step 2: Add a new rules, like below:

OpenVox Communication Co. LTD.

	New Call Routing Rule	Save Orders
--	-----------------------	-------------

Step 3: Configure the rules:

Tcall Routing Rule	
Routing Name:	gsm1out
Call Comes in From:	Trunk2lcall 💌 —> Trunk
Send Call Through:	gsm-1 💌 🔶 SIM card

Please save it and apply.

Now we have finished the configuration, let's make a test.



GSM Information	1	)							V
Port	Signal	BER	Carrier	Registration Status	PDD(s)	ACD(s)	ASR(%)	GSM Status	Remain Time
gsm-1	đ	0	CHINA MOBILE	Registered (Home network)	3	12	100	CALL ACTIVE Called to 10086 00:00:19	No Limit
gsm-2	aÍ	0	CHINA MOBILE	Registered (Home network)	0	0	0	READY	No Limit
gsm-3	aĺ	7	CHINA MOBILE	Registered (Home network)	0	0	0	READY	No Limit

As you see, now we have established a call.

## Tips:

Any questions during configuration, please consult in our forum or look up for answers from the following website:

http://bbs.openvox.cn/ http://wiki.openvox.cn/index.php/%E9%A6%96%E9%A1%B5