

Elastix Server(Free) with MV-374

Voip GSM Gateway

This is the configuration setting up Elastix with PORTech gateways

1. IP Setting

Elastix Server IP Address : 192.168.0.6 Incoming port : 5060

Firmware : 2.4.0

MV-374 GSM Gateway

IP address : 192.168.0.100 Dialpeer port : 5060 Mobile_1 sip port :5064 Mobile_2 sip port :5066 Mobile_3 sip port :5068 Mobile_4 sip port :5070

Firmware : V10.206

SJ-phone

Register the Soft phone to Elastix Server Extension: 6000

2. Application example

Outbound:

The example is to register SJ-phone to Elastix Server Extension: 6000. After registration, please enter any destination number and dial out via Elastix server to MV-374.

Then please select any free GSM channel from MV-374 Dial Peer to dial out.

Inbound

User use cell phone or land line to dial out any GSM number of MV-374. MV-374 route the call via Elastix server Extension 6000 (SJ-phone) and Extension 6000 (SJ-phone) will ring and show the cell phone number or caller ID of land line

3. Elastix Server setup

Step1. Add an Extension

E.g. We create 5 Extension on Elastix server: "6000" "8001" "8002" "8003" "8004", Please follow below diagram as Extension 8001

The main setting is showed in red circle; other settings are not necessary

🖉 elastix° 🚬					
	系统	Agenda	Email	Fax	РВХ
BX Configuration Operator Panel	Voi	cemail 🛛	Monitoring	Batch Configurations	Conference
PBX Configuration					
Extensions Feature Codes	Add a	n Extensi	on		
General Settings	Please se	elect your Devic	e below then cl	ick Submit	
Outbound Routes	Davica				
Trunks	Device				
Inbound Call Control	[٦	
Inbound Routes	Device	Generic SIP D	evice 💌		
Zap Channel DIDs	L				
Announcements	Submit				
Blacklist	(
CallerID Lookup Sources					
Day/Night Control					
Follow Me					
IVR					
Queue Priorities					
Queues					
Ring Groups					

PBX Configuration	<				
Jasic					
Extensions	Add SIP Extension				
Feature Codes					
General Settings					
Outbound Routes	Add Extension				
Trunks	Aud Extension				
nbound Call Control		Concession			
Inbound Routes	User Extension	8001			
Zap Channel DIDs	Display Name	8001			
Announcements	CID Num Alias				
Blacklist					
CallerID Lookup Sources	SIP Alias				
Day/Night Control					
Follow Me	Extension Options				
IVR					
Queue Priorities	Outbound CID				
Queues	Ring Time	Default 👻			
Ring Groups	Call Waiting	Disable V			
Time Conditions	Coll Concerning	Dischla			
Time Groups	Call Screening				
nternal Options & Configuration	Pinless Dialing	Disable 🞽			
Conferences	Emergency CID				
Languages					
Misc Applications	Assigned DID/CID				
Misc Destinations					
Music on Hold					
PIN Sets	DID Description				
Paging and Intercom	Add Inbound DID				
Parking Lot	Add Inbound CID				
System Recordings					
VoiceMail Blasting	Device Options				
Remote Access					
Callback	- This device uses sin t	echnology			
DISA		Proped			
Option	secret	P18001			
Unembedded freePBX	dtmfmode	rfc2833			

The following Extension setting ("8002" "8003" "8004" and "6000") is same as above setup.

Step2. Add a trunk

PBX Configuration	
Basic	Add a Tours
Extensions	Add a Trunk
Feature Codes General Settings	O Add SIP Trunk
Outbound Routes	O Add DAHDI Trunk
Trunks	O Add Zap Trunk (DAHDI compatibility r
Inbound Routes	3 Add IAX2 Trunk
Zap Channel DIDs Announcements	O Add ENUM Trunk
Blacklist	Add DUNDi Trunk
CallerID Lookup Sources	
Day/Night Control	Add Custom Trunk
Follow Me	
IVR	
Queue Priorities	
Queues	
Ring Groups	
Time Conditions	
Time Groups	
Internal Options & Configuration	

PBX Configuration		
Basic		
Extensions	Edit SIP Trunk	
Feature Codes	<u>_</u>	
General Settings	🗢 Delete Trunk diapee	ir i
Outbound Routes	In use by 1 route	
Trunks		
Inbound Call Control	General Settings	
Inbound Routes		
Zap Channel DIDs	Trunk Name:	diapeer
Announcements	Outbound Caller ID	123456
Blacklist		
CallerID Lookup Sources	CID Options:	Allow Any CID
Day/Night Control	Maximum Channels:	$4 \longrightarrow MV3/4=4, MV3/8=8 \dots$
Follow Me	Disable Trunk:	Disable
IVR	Monitor Trunk Failures	Enable
Queue Priorities		
Queues	Dialed Number Manij	pulation Rules
Ring Groups		
Time Conditions	(propond) L profiu	
Time Groups	(prepend) + prenx	
Internal Options & Configuration	+ Add More Dial Pattern	n Fields Clear all Fields
Conferences	Dial Rules Wizards:	(pick one)
Languages	Outhound Dial Prefix:	
Misc Applications	Subsuita Biarrienx.	
Misc Destinations	Outgoing Settings	
Music on Hold		
PIN Sets	Ta vale Maran	(e.e.)
Paging and Intercom	тгипк магне.	dialpeer
Parking Lot	PEER Details:	
System Recordings	host=192.168.0.100-	MV ip and dialpeer port
VoiceMail Blasting	type=peer	
Remote Access		
Callback		
DISA		

MV-374 is 4 ports GSM channels, and it require to be 4 GSM trunk (GSM 1, GSM 2, GSM3, GSM4)

PBX Configuration 🔪			
Basic			
Extensions	Edit SIP Trunk		
Feature Codes			
General Settings	Uelete Trunk GSM1		
Outbound Routes	WARNING: This trunk is	s not used by any routes!	
Trunks	Company Contribution		
Inbound Call Control	General Settings		
Inbound Routes			
Zap Channel DIDs	Trunk Name:	GSM1	
Announcements	Outbound Caller ID:	0981086653	
Blacklist	CID Ontione:		
CallerID Lookup Sources	CID Options.	Allow Any CID	
Day/Night Control	Maximum Channels:	1	
Follow Me	Disable Trunk:	🗖 Disable	
IVR	Monitor Trunk Failures:	Enable	
Queue Priorities			
Queues	Dialed Number Manip	oulation Rules	
Ring Groups			
Time Conditions	(propond)) + profiv	I match pattorn	
Time Groups	(prepend) + prenx		
Internal Options & Configuration	+ Add More Dial Pattern	Fields Clear all Fields	
Conferences	Dial Rules Wizards:	(pick one)	~
Languages	Outhound Dial Prefix:		
Misc Applications	Subbound blur relix.		

Trunk Name: PEER Details:	GSM1	
host=192.168.0.100 port=5064 type=peer	— MV ip mobile 1 sip port	
Incoming Settings		10
Incoming Settings USER Context: USER Details:	8001	
ncoming Settings JSER Context: JSER Details: type=friend secret=PT8001 username=8001 qualify=yes nat=yes canreinvite=no context=from-nstr	8001 MV_mobile 1 sip sett	ting

The following trunk setting (GSM2, GSM3 and GSM4) is same as above setup.

Step3. Outbound Routes

Jasic				
Extensions	Edit Route			
Feature Codes				
General Settings	\varTheta Delete Route GSM	1		
Outbound Routes				
Trunks	Route Settings			
bound Call Control				
Inbound Routes	Route Name	GSM		
Zap Channel DIDs		0011]
Announcements	Route CID:		Over	ride Extension
Blacklist	Route Password:			
CallerID Lookup Sources	Route Type:	Emergency I	ntra-Company	
Day/Night Control	Music On Hold?	default 🔽		
Follow Me	Time Group:	Dermanent P	oute V	
IVR	nine oroup.	Fernianent K		
Queue Priorities	Route Position	No Change		
Queues				
Ring Groups	Additional Settings			
Time Conditions				
Time Groups	PIN Set	None 💌		
ternal Options & Configuration				
Conferences	Dial Patterns that will	l use this Route		out can any
Languages			desti	nation number
Misc Applications	(prepend) + prefix	((x.)	/ CallerId	18
Misc Destinations	(prepared) profit	I fasatala nattana	(Callertd	
Music on Hold	(prepend) + preix	I [match pattern	Calleriu	1.00
PIN Sets	+ Add More Dial Patte	ern Fields		
Paging and Intercom	Dial patterns wizard	s: (pick one)	~	
Parking Lot				
System Recordings	Trunk Sequence for M	latched Routes		
VoiceMail Blasting				
emote Access	0 dianeer 🔍 🖀	dialpeer trunk		
Callback				

Step4. Inbound Routes

- a. DID Number : 100
- b. Set destination to Extension 6000

Outbound Koutes	🥙 Edit Extension 600	0 (6000)	
Inbound Routes	Edit Incoming Route		21
Zap Channel DIDs Announcements	Description:		
Blacklist	DID Number:	100	
CallerID Lookup Sources Day/Night Control Follow Me	Caller ID Number: CID Priority Route:		
IVR	Options		
Queue Priorities Queues Ring Groups Time Conditions	Alert Info: CID name prefix:		7
Internal Ontions & Configuration	Music On Hold:	Default 🞽	
Conferences Languages	Signal RINGING: Pause Before Answer:		
Misc Applications	Privacy		
Misc Destinations	2		5 1
Music on Hold	Privacy Manager:	No	
PIN Sets			
Paging and Intercom	Language		
System Recordings VoiceMail Blasting	Language:		-)
Collback	CID Lookup Source		
DISA			5
Option	Source	None V	
Unembedded freePBX			
	Fax Detect		21
	Detect Faxes:	⊙ _{N0} O _{Yes}	
	Set Destination		
	Extensions	<6000> 6000 🗸	

4. MV-374 GSM Gateway Setup

Dial Peer					
Route	Page: 1 😽				
Mobile To Lan Settings	1				
Mobile To Lan Speed Dial	ltem	CID	UR	IL .	Select
Lan To Mobile Settings	0	*	100		
Mobile	1		I	nbound Routes	
Network	2		L	ID Number	
SIP Settings	3				
STUN Setting	4				
Jpdate	5				
System Authority	6				
Save Change	7				
Rehoot	0				
10001	9				

Step1. Mobile to Lan Settings

Step2. Lan to Mobile Route

lal Peer				
oute	Page: 1 V			
lobilo To Len Settings				
obile To Lan Speed Dial	item L	IRL	Call Num	Select
n To Mobile Settings	0	×	(#)	
bile	1			
twork	2			
Settings	3			
JN Setting	4			
date	5			
stem Authority	6			
ve Change	7			
haot	8			
10000	9			

Dial Peer	Mobile 1, 2 V			
Route				
Mobile				
Status	VoIP Tx Gain:	9 (0~12)	VoIP Rx Gain:	11 (0~15)
Settings	LAN Dialtone Vol	9 (0~12)		
Fwd Settings				"") <u></u>
SMS Agent	Mobile 1 • ON	• OFF		
SIM Setting	Routing Range	C ~ 49 (0~49)		
Operator Setting	CODEC Tx Gain:	6 (0~7)	CODEC Rx Gain:	6 (0~7)
Cell Info	SIP From:	Tel/Tel (Not Std)	Answer delay	0 (0~15)
USSD				0 (0-13)
letwork	CLID Presentation	O OFF O ON	Restert dial fails	1 (0~15)
SIP Settings	Mobile PIN Code:	On 🗌 Code:	Confirmed.	
STUN Setting	Dial Prefix		LAN Answer Mode	Answered ~
Jpdate	Init AT Cmd			
System Authority				
Save Change	Mobile 2 ON	OFF OFF		
Reboot	Routing Range	0 ~ 49 (0~49)		
	CODEC Tx Gain:	6 (0~7)	CODEC Rx Gain:	6 (0~7)
	SIP From:	Tel/Tel (Not Std)	Answer delay	0 (0~15)
	CLID Presentation	O OFF OCN	Restart dial fails	1 (0~15)
	Mobile PIN Code:	On 🗌 Code	Confirmed:	
	Dial Prefix		LAN Answer Mode	Answered V
	Init AT Cmd			

Step3. On mobile 1, 2, 3, 4, please edit the SIP From to "Tel/Tel(Not Std)

Mobile 3, 4 💌			
VoIP Tx Gain:	9 (0~12)	VoIP Rx Gain:	11 (0~15)
LAN Dialtone Vol:	9 (0~12)		
Routing Range	0 ~ 49 (0~49)		
CODEC Tx Gain:	6 (0~7)	CODEC Rx Gain:	6 (0~7)
SIP From:	Tel/Tel (Not Std)	Answer delay	0 (0~15)
CLID Presentation	O OFF ⊙ ON	Restart dial fails	1 (0~15)
Mobile PIN Code:	On 🗌 Code:	Confirmed:	
Dial Prefix		LAN Answer Mode	Answered 💌
Init AT Cmd			
Mobile 4 🔹 ON	• OFF		
Routing Range	0 ~ 49 (0~49)		
CODEC Tx Gain:	6 (0~7)	CODEC Rx Gain:	6 (0~7)
SIP From:	Tel/Tel (Not Std)	Answer delay	0 (0~15)
CLID Presentation	O OFF ⊙ ON	Restart dial fails	1 (0~15)
Mobile PIN Code:	On 🗌 Code:	Confirmed:	
Dial Prefix		LAN Answer Mode	Answered 💌
Init AT Cmd			

Step 4. SIP Settings

On service domain, please register the Elastix server Extension to "8001" "8002" "8003" "8004"

Dial Peer Route	Mobile 1 V	
Mobile	Realm 1 (Default)	
Network	Active:	⊙ ON O OFF
SIP Settings	Display Name:	GSM1
Service Domain	User Name:	8001
Port Settings	Register Name:	8001 Extension number
Codec Settings	Register Password:	•••••• Extension password
Codec ID Settings	Denvis Denvis	
DTMF Settings	Domain Server.	
RPort Settings	Proxy Server.	192.168.0.6 elastix ip
SIP Responses	Outbound Proxy:	
Other Settings	Status:	Registered
STUN Setting		
Update	Realm 2	
System Authority	Active:	O ON @ OFF
Save Chance	Display Name:	
Rebcol	User Name:	

Mobile 2 🗸	
Realm 1 (Default)	
Active:	ON ○ OFF
Display Name:	GSM2
User Name:	8002
Register Name:	8002
Register Password:	•••••
Domain Server:	
Proxy Server:	192.168.0.6
Outbound Proxy:	
Status:	Registered
Realm 2	
Active:	○ ON ^③ OFF
Display Name:	
User Name:	

Mobile 3 V		
Realm 1 (Default)		
Active:	● ON O OFF	
Display Name:	GSM3	
User Name:	8003	
Register Name:	8003	
Register Password:	•••••	
Domain Server:		
Proxy Server:	192.168.0.6	
Outbound Proxy:		
Status:	Registered	
Poplm 2		
Active:		
Active.		
Display Name:		
User Name:		

Mobile 4 💌		
Realm 1 (Default)		
Active:	● ON O OFF	
Display Name:	GSM4	
User Name:	8004	
Register Name:	8004	
Register Password:	•••••	
Domain Server:		
Proxy Server:	192.168.0.6	
Outbound Proxy:		
Status:	Registered	
Realm 2		
Active:	O ON OFF	
Display Name:		
User Name:		
Register Name:		