

SIP Trunk Configuration for Broadvox

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Prerequisites

The Broadvox customer service provides the following communication parameters:

Parameter	Example	Explanation
BTN & Username:	4801234560	Typically, this is one of the DID numbers provided.
Password	123456	
DNS A records of SIP	New York City, NY:	These are the SIP servers on which the
servers	nyc01-01.fs.broadvox.net	PBX must register.
	Dallas, TX:	
	dfw01-01.fs.broadvox.net	
	Los Angeles, CA:	
	lax01-01.fs.broadvox.net	
DID numbers	4801234560-4801234582	These are the public telephony
		numbers allocated for the PBX by the
		provider.
Simultaneous calls	10	This is the maximum number of the
		simultaneous calls that can be made
		through three SIP trunks.

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Configuration Process

STEP 1. Create Three SIP Trunks

It is necessary to create three SIP trunks. One for each Broadvox server. Each trunk may be created as it is described here.

Navigate to the Trunk menu entry in the PBX Settings and click the 'Add SIP Trunk' link. Define the trunk parameters as follows:

Outbound Caller ID	One of the received DID numbers can be placed here. In cases where the "Outbound CID" parameter is not defined, this DID number will be used as the Caller ID for the outbound calls from the PBX extensions. This parameter is optional.
Maximum channels	Indicate the number of simultaneous calls here.
Dial Rules	Broadvox requires the called numbers to be presented in the 10 digits format for North American calls and 011+international number for international calls. If the PBX users are used to dial 7 digits for local calls then it is possible to complete the number up to 10 digits here. For example: 702+XXXXXX
Trunk name	We suggest you define it as broadvox-ny, broadvox-la or broadvox-tx, depending on the server address you will define in the host parameter (see below).

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PEER Details define it as follows: host=dfw01-01.fs.broadvox.net context=from-trunk type=friend insecure=port,invite canreinvite=no qualify=no username=4801234560 secret=123456

You should define the Broadvox server address located at the nearest to you place.

Replace 4801234560 and 123456 with the user name and password that you received from Broadvox. If you agreed with Broadvox a static IP address of your PBX then it is possible to omit the username and secret parameters.

If you would like to define a particular voice codec list then you should add the following two lines:

disallow=all

allow=g729,ulaw,alaw

where, the ${\tt allow}$ parameter must contain the codec names prioritized in the desired order.

USER Details Leave this field empty.

RegistrationDefine the parameters that will be used by Asterisk for SIP registration
on the Broadvox SIP server. The registration string must be defined in
the following format:

user:secret@domain/user

In our example the registration string would be:

4801234560:123456@dfw01-01.fs.broadvox.net/4801234560

Finally, click the Submit button.

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STEP 2. Define Outbound Route

Navigate to the Outbound Routes menu entry in the PBX Settings and click 'Add Route'.

Define suitable Dial Patterns and select the 'SIP/broadvox-nn' trunks in the desired order in the 'Trunk Sequence'. There are no special recommendation which trunk should have the highest priority but you can range the trunks according their geographical nearness to your place.

STEP 3. Define DID and CID

For the PBX extensions with DID numbers assigned, define the Direct DID and Outbound CID fields in the corresponding extension setting fields. If the Outbound CID field is empty, the number defined in the "Outbound Caller ID" supplied in the trunk configuration will be used as the caller ID for the outbound calls from this extension.

STEP 4. Apply Changes

Click the "Apply Configuration Changes" pink bar.

STEP 5. Verify Registration

Check that the PBX has been registered on the SIP server.

Connect to the Asterisk server via SSH and then connect to the Asterisk console by running the 'asterisk -r' command. Check the output of the 'sip show registry' command as follows:

MyPBX*CLI> sip show registry								
Host	Username	Refresh	State	Reg.	Reg.Time Thu, 10 Dec 2009 16:04:55			
dfw01-01.fs.broadvox.net:5060	4801234560	23	Registered	Thu,	10	Dec	2009	16:04:55
nyc01-01.fs.broadvox.net:5060	4801234560	23	Registered	Thu,	10	Dec	2009	16:04:55
lax01-01.fs.broadvox.net:5060	4803390496	23	Registered	Thu,	10	Dec	2009	16:04:52

Alternatively, it is possible to execute the command by using the "Asterisk CLI" option in the Elastix Web interface. Select the PBX tab, click Tools in the upper menu and then click "Asterisk-CLI" in the left side menu:

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If the value for State is something other than 'Registered' then check that the trunk parameters are defined correctly and your NAT/Firewall router doesn't block/distort the SIP messages. *Troubleshooting of SIP/NAT problems is not within the scope of this document.*

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