

SIP Trunk Configuration for nexVortex

Document version: 1.0 Modification date: June 25, 2013

Prerequisites

The nexVortex customer service provides the following communication parameters:

Parameter	Example	Explanation		
SIP server host name	reg.nexvortex.com	The SIP server which the PBX should		
		use for registration.		
		The customer will need to get this		
		information from nexVortex.		
Outbound Proxy	px3.nexvortex.com	The Outbound proxy server which the		
server host name		PBX should use for outbound calls.		
		The customer will need to get this		
		information from nexVortex.		
SIP-ID	8234560430	SIP user name that is used for		
		registration and authentication on the		
		SIP server. This is usually one of		
		assigned DID numbers.		
SIP-Password	123456	Case sensitive password		
DID numbers	6203101438-6203101447	The public telephone numbers		
		allocated for the PBX by the provider.		

Configuration Process

STEP 1. Create a SIP trunk

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



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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	Leave empty.				
Dial Rules	nexVortex requires the national called numbers to be of 11 digits. A leading '1' is required. For example 18669672661.International numbers must be sent with 011 prefix. For example, 01133 for calling a number in France.				
Trunk name	We suggest you define it as nexVortex, although any name may be used.				
PEER Details	Define Trunk Name as nexVortex-out				
	<pre>type=friend dtmfmode=auto host=reg.nexvortex.com username=8234560430 secret=123456 nat=yes outboundproxy=px3.nexvortex.com</pre>				
USER Details	Define Trunk Name as nexVortex-in				
	<pre>type=peer dtmfmode=auto host=px3.nexvortex.com username=8234560430 secret=123456 nat=yes context=from-trunk insecure=invite.port</pre>				

Xorcom USA 145 S. Jefferson Ave., Suite G Cookeville, TN 38501 USA Tel: 1-866-967-2661 info.usa@xorcom.com



Xorcom Ltd. Misgav Industrial Park, POB 60 D.N. Misgav 20174, Israel Tel: +972-4-9951999 <u>info@xorcom.com</u> RegistrationDefine the parameters that will be used by Asterisk for SIP registration
on the nexVortex SIP server. The registration string should be defined in
the following format:

peer?user:secret@host/extensionIn our example the registration string would be:

nexVortex_out?
8234560430:123456@reg.nexvortex.com/8234560430

Finally, click the Submit button.

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/nexVortex' trunk in the 'Trunk Sequence'.

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.

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STEP 5. Define the IP-PBX external IP address

The IP-PBX is behind a NAT router and should have a public static IP address assigned. Whether Asterisk is talking to someone "inside" or "outside" of the NATted network. This is configured by assigning the "localnet" parameter with a list of network addresses that are considered "inside" of the NATted network. Therefore, the following parameters should be defined in /etc/astersik/sip_general_custom.conf:

externip = <public IP address>

Multiple entries are allowed, e.g. a reasonable set is the following:					
localnet=192.168.0.0/255.255.0.0	; RFC1918 addresses				
localnet=10.0.0.0/255.0.0.0	; Also RFC1918				
localnet=172.16.0.0/12	; Another RFC1918 with CIDR notation				
localnet=169.254.0.0/255.255.0.0	; Zero conf local network				

That is for the sip trunk to send his sip messages back to the public IP address assigned to the IP-PBX.

STEP 6. 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 dnsmgr Username Refresh State Reg.Time reg.nexvortex.com:5060 N 8234560430 225 Registered Mon, 17 Jun 2013 14:10:50

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:



RCOM	System Agenda Fax	РВХ	IM	Reports	Extras	<u> </u>
ration Operator Panel	Voicemail Monitoring	Batch Configurations	Conference	Tools	Flash Operator Panel	VolP Provider
	Asterisk-Cli					☑ 네 ★ ?
e Editor	Command sip show registry Execute Host reg.nexvortex.com:5060		dnsmgr Usernam N	e Refres	sh State 25 Registered	Reg.Time Mon, 17 Jun 2013 14:14:35
History i uration	sip.skype.com:5060 2 SIP registrations.			10	95 Registered	Mon, 17 Jun 2013 14:15:08

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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