

Elastix PBX - How to interconnect with Elastix PBX?

- 2N[®] VoiceBlue Next has these parameters:
 IP address 192.168.50.45

 - Incoming port: 5060
 - Firmware: 01.00.04
- Elastix PBX:
 - IP address 192.168.50.115
 Incoming port: 5060

 - Firmware Elastix: 2.0.0
 - Firmware Asterisk: 1.6.2.13

Scenario

• If we have an IP network in which an Elastix PBX, several SIP phones and 2N[®] VoiceBlue Next are connected, the configuration would be as shown in the figure below. Furthermore, suppose that the network is addressed as shown in the figure and GSM numbers are all numbers starting with 6, 7 and containing 9 digits.





2N[®] VoiceBlue Next settings

1. SIP trunk interconnection

For the setting of the trunk between the $2N^{\circledast}$ VoiceBlue Next and your Elastix PBX, you need to configure "SIP proxy (GSM \rightarrow IP)" for GSM incoming calls. "SIP proxy (IP \rightarrow GSM)" is designed only for secure communication with the traffic from your Elastix PBX. You can specify the IP address and port where the IP packets will be accepted.





2. Configuration of the LCR (Least Cost Routing)

You have to specify prefixes for the operators in the country you are currently located. An example of this would be that in Czech Republic prefixes 6 and 7 have 9-digit numbers. The setting is displayed below.

You need to create specific guidelines connecting prefixes with the GSM group. In the "GSM group" you will specify settings for SIM cards assigned to this specific group. In the "GSM group assignment" you can assign the module for the appropriate GSM outgoing group.



						Ja	LEvva
TELECOMMUNICATIONS					Gatev	way Up	date Rest
Gateway control	LCR ta	ble					
Gateway configuration							
 System parameters 	Prefix list	Time limitation	Weekend usage	Max. length of call	Groups	Add	Remove all
 VoIP parameters 	1/	0:00/24:00	Use as in week	Off	0	Edit	Remove
 GSM basic parameters 	2/	0:00/24:00	Use as in week	011	2	Edit	Remove
 GSM groups assignment 							
 GSM outgoing groups 							
 GSM incoming groups 							
* Prefixes							
 LCR table 							
 CLIP Routing table 							
 Mobility Extension 							
Ethernet configuration							
Web configuration							
Report configuration							
Configuration backup							
Logout ()							
ToBour O							
		_					
ateway control							
ateway control		GSM	aroups	assign	ment		
ateway control	ion	GSM	groups	assigni	ment		
ateway control	ion	GSM	groups		ment	inc	omina:
ateway control ateway configurati System paramete	ion ers	GSM Module:	groups	assigni Outgoing:	nent	Inc	coming:
ateway control ateway configurati System parameters	ion ers	GSM Module: 0. modul	groups •_	Outgoing:	ment	Inc	coming: Group

3. Configuration of GSM outgoing groups

You are able to have different setting for each GSM group (CLIR, free minutes, virtual ring tone, roaming and others).



ZN TELECOMMUNICATIONS		Gatev	Gateway
Gateway control	GSM outgoing groups		
Gateway configuration			
System parameters	1. GSM group 2. GSM group		
VoIP parameters	Constant and the set		
GSM basic parameters	General settings		
 GSM groups assignment 	Delay for CONNECT [s]:	Off	
 GSM outgoing groups 	Minimal ring duration to send "SMS at no answer" [s]:	Off 🗾	
GSM incoming groups	Delay for ALERTING [s]:	4	
Prefixes	'Minute' parameter:	Count of minutes	×
= LCR table	Day of deleting statistics in group (every month):	1 🚽	
CLIP Routing table	Generate virtual ring tone:	Z	
Mobility Extension	Call length counting:	Seconds	
Ethernet configuration	oun tengin teening.		
Login configuration	Disconnect call		
Web configuration		-	
Report configuration	SIM limit exceeded:		
Configuration backup	No ALERTING before CONNECT:	-	
	Send CLIP from VoIP to GSM/UMTS	Attention/ Must be supported t	wyour/GSM/UMTS operator in
Logout ()			

4. Incoming calls

For incoming calls you can define 2 groups with the different behavior and assign them to the GSM modules. The settings are similar with "GSM groups assignment" for outgoing calls.

GSM groups assignment							
Module:	Outgoing:		Incoming:				
0. module	1. Group	-	1. Group				
1. module	2. Group	•	1. Group	•			

In GSM incoming groups you can specify the traits for each GSM incoming group. Choose the mode to Reject, Ignore, Accept incoming calls or Callback.





You can define the list of numbers called. The number will be automatically dialed after the DTMF dialing has timed out. This happens when the customer does not press button within the specific time. At this point the number will be routed to the extension 100 to your Elastix PBX (if you set up SIP proxy (GSM->IP) in VoIP parameters).



Elastix PBX settings

1. Create an extension

In the "PBX Configuration" and "Extensions" you create an extension as in the print screens below.



Extension: 102

& Delete Extension 102 Used as Destination by 1 Object:

& Add Follow Me Settings Add Gabcast Settings

Edit Extension

Display Name CID Num Alias SIP Alias

Extension Options

Outbound CID	
Ring Time	Default 👻
Call Waiting	Disable 💌
Call Screening	Disable
Pinless Dialing	Disable 💌
Emergency CID	

Ext102

This device uses sip technology.

secret	102
dtmfmode	rfc2833
canreinvite	no
context	from-internal
host	dynamic
type	friend
nat	yes
port	5060
qualify	yes
callgroup	
pickupgroup	
disallow	
allow	
dial	SIP/102
accountcode	
mailbox	102@device
deny	0.0.0/0.0.0.0
permit	0.0.0/0.0.0.0

You have to define type as "friend" and listening port, e.g. 5060 as in the example.

2. Set up the route

Add a new route in the section "Outbound Routes". In the example the route is called VoiceBlue. If you set up Dial Patterns "0|." it means that you have to make an outbound call via prefix 0.

Add Extension Ext102 <102> Ext103 <103>



Delete Route Voice	Blue
Route Name:	VoiceBlue Rename
Route CID:	Override Extension CID
Route Password:	
PIN Set:	None 💌
Emergency Dialing:	
Intra Company Route:	
Music On Hold?	default 💌
Dial Patterns	
	01.
Diel authorite missionales	Clean & Remove duplicates
Diai patterns wizards:	(pick one)
Trunk Sequence	@
0	SIP/VoiceBlue Next 💌 🎹
	•
	Add

Submit Changes

3. Set up the trunk

Fill up the "Trunk description", "Outbound Caller ID" for the outbound identification.

You can limit maximum VoIP channels via dedicated trunk in the menu. Also if you want to send SIP OPTION packets command regularly to check whether the device is still online, turn on the parameter "qualify" as yes.



General Settings

Trunk Description:	VoiceBlue Next		
Outbound Caller ID:	110		
CID Options:	Allow Any CID		
Maximum Channels:	2		
Disable Trunk:	Disable		
Monitor Trunk Failures:		Enable	
Outgoing Dial Rules			
Dial Rules:			
	Clean & Remove duplica	ates	
Dial Rules Wizards:	(pick one)		-
Outbound Dial Prefix:			
Outgoing Settings			
Trunk Name:	VoiceBlue Next		
PEER Details:			
host=192.168.50.45 type=peer qualify=yes			

4. Incoming calls

You can route Incoming calls to the IVR. You find the setting in the section ",IVR".



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2 ^{elas}		System	Agenda	Email	Fax	РВХ	IM Reports	Extras	Addons		
X nfiguration	Operator	Voicemail	Monitoring	Endpoint Configurator		Conference	Batch of Extensions	Tools	Flash Operator Panel	VoIP Provider	My Extension
n		-									
embedded fr	eePBX	Edit Misc /	Applicatio	on							Add Misc Applica
c		Misc Application	s are for addir	ng feature code	s that you	u can dial from	internal phones that	go to variou	s destinations availal	ble in FreePBX.	IVR
tensions		This is in contra	st to the Misc	Destinations	modulé, v	which is for cre	ating destinations that	iť can be use	ed by other FreePBX	modules to dial i	nternal numbers or
ature Codes		teature codes.									
eneral Setting	S	Edit Misc Applicat	ion								
Itbound Rout	tes										
unks und Call Capital		Description:	IV	R							
bound Route	e	Feature Code:	75	75							
an Channel Di	Ds	Feature Statu	S: En	abled 🐱							
ip channel of	s.										
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av/Night Cont	rol	Dhonohook	Disastan								
llow Me		 Phonebook Terminate (birectory. Phil	onebook Director	y iwi						
R		Extensions:	<102> Ext102								
Jeue Priorities	;	Voicemail:	<102> Ext102 (busy) 💌							
Jeues		IVR: Unnam	ed 🖵								
ng Groups		a deside all services	Delete								
me Condition	5	Submit Chang	es Delete								
Save Del Used as De	ete Digital stination	Receptionist Unr by 1 Object:	named								
Channe New		language d									
Appounder	opt L	innameu									
Timeout	enic	tone 💌									
Imeout		.0									
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oop Before	e t-dest [
Timeout Me	ssage	None 👻									
.oop Before	i-dest [
nvalid Mess	age	None 👻									
Repeat Loo	ps:	2									
Increase Op	otions	Save Decrea	ase Options	1							
		Phonebook D	irectory: Ph	onebook Direc	ctory 💌						
Return to	IVR 🗐	Terminate Ca	III: Hangup								
		Extensions: I.	<102> Ext102								
	#	Voicemail:	102> Ext102 ((hury)							
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In the "General Settings", you can allow an anonymous incoming calls as in the picture below.

Security Settings

Allow Anonymous Inbound SIP Calls?: yes 🗸

More product information: 2N[®] VoiceBlue Next (Official Website 2N)