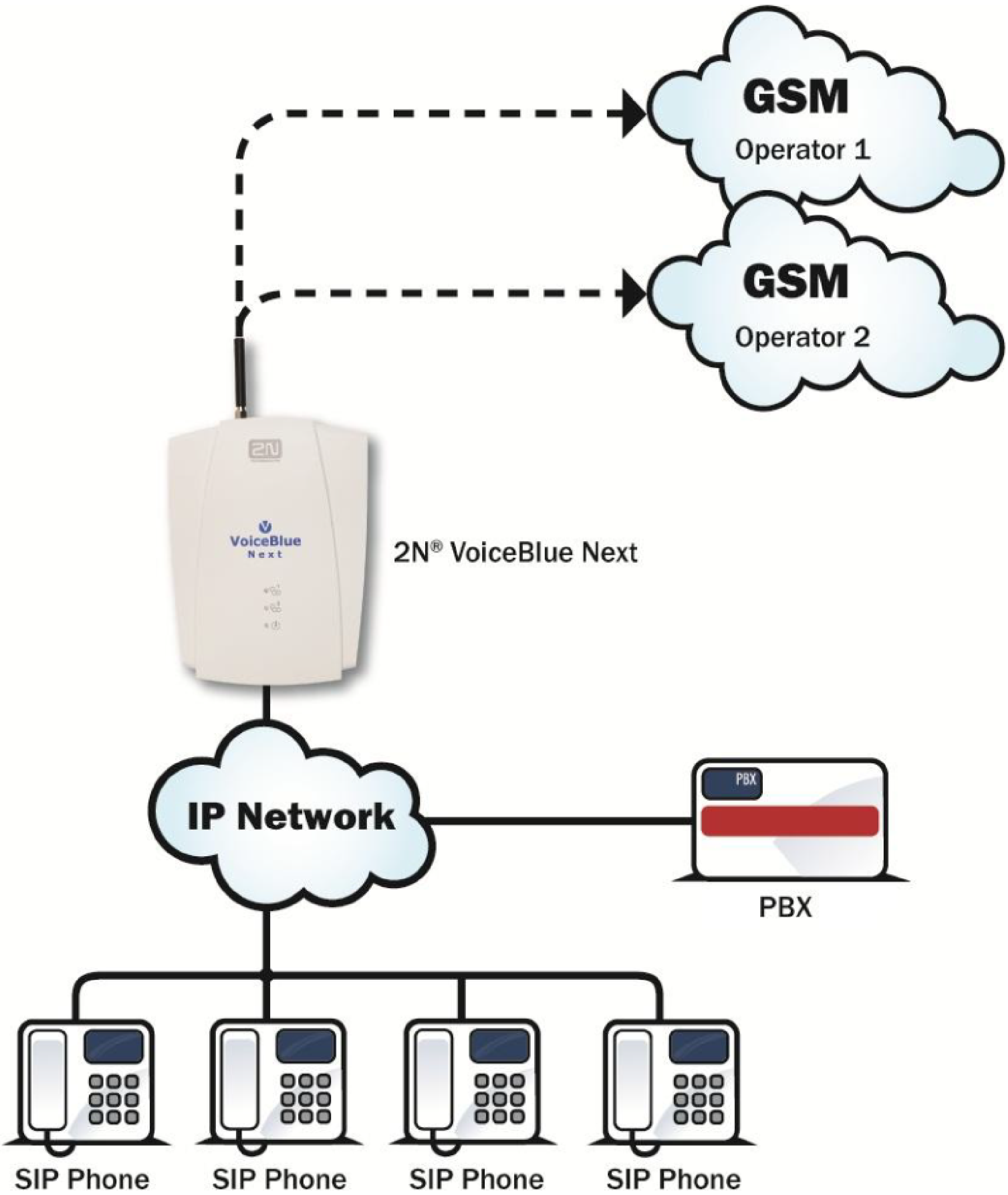
Elastix PBX - How to interconnect with Elastix PBX?

- 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

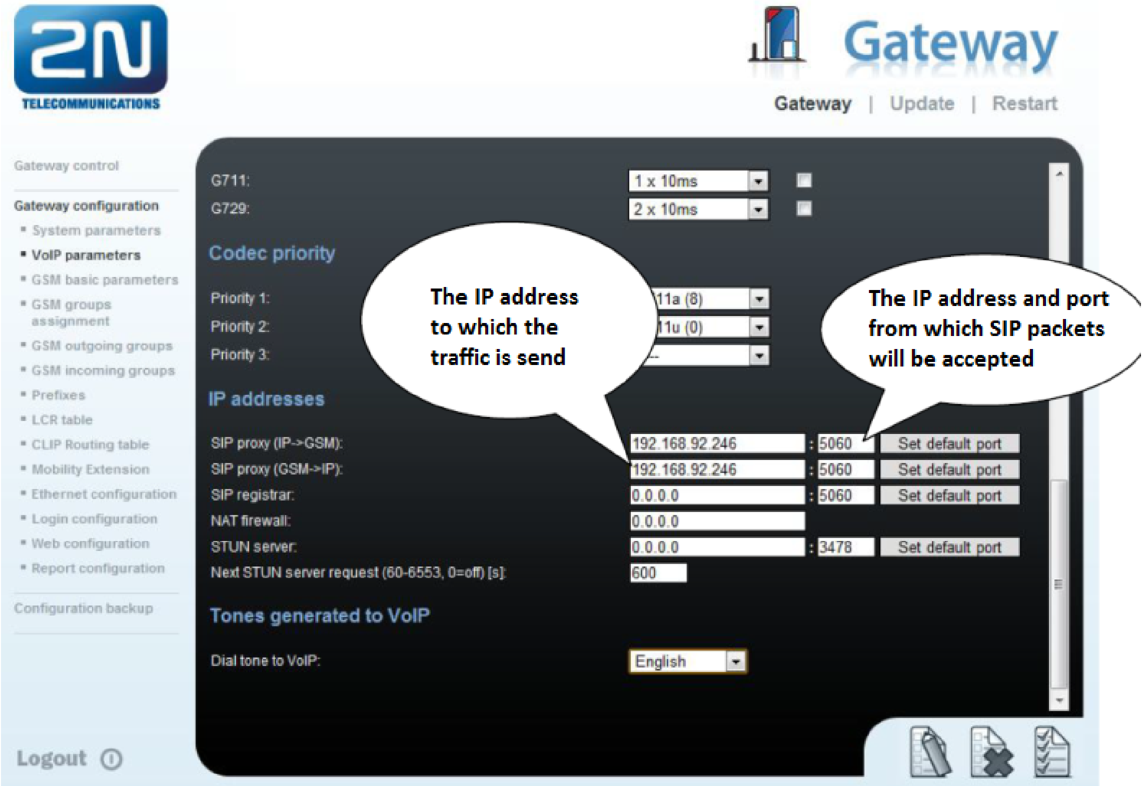
- If we have an IP network in which an Elastix PBX, several SIP phones and 2N® VoiceBlue Next are connected, the configuration would be as shown in the figure below. Furthermore, suppose that the network is addressed as shown in the figure and GSM numbers are all numbers starting with 6, 7 and containing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



2N® VoiceBlue Next settings

1. SIP trunk interconnection

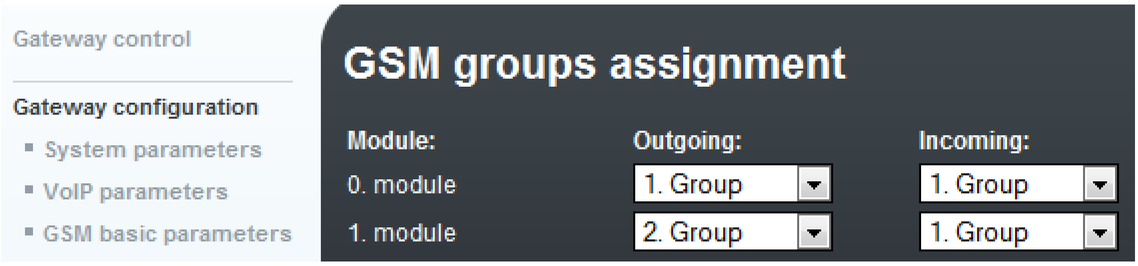
   For the setting of the trunk between the 2N® VoiceBlue Next and your Elastix PBX, you need to configure “SIP proxy (GSM→IP)” for GSM incoming calls. “SIP proxy (IP→GSM)” is designed only for secure communication with the traffic from your Elastix PBX. You can specify the IP address and port where the 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.

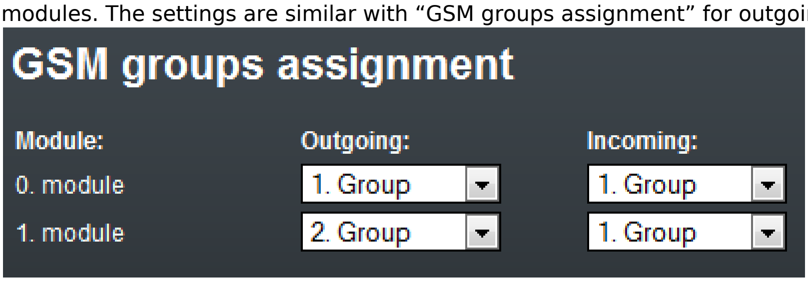
   You need to create specific guidelines connecting prefixes with the GSM group. In the “GSM group” you will specify settings for SIM cards assigned to this specific group. In the “GSM group assignment” you can assign the module for the appropriate GSM outgoing group.



3. Configuration of GSM outgoing groups

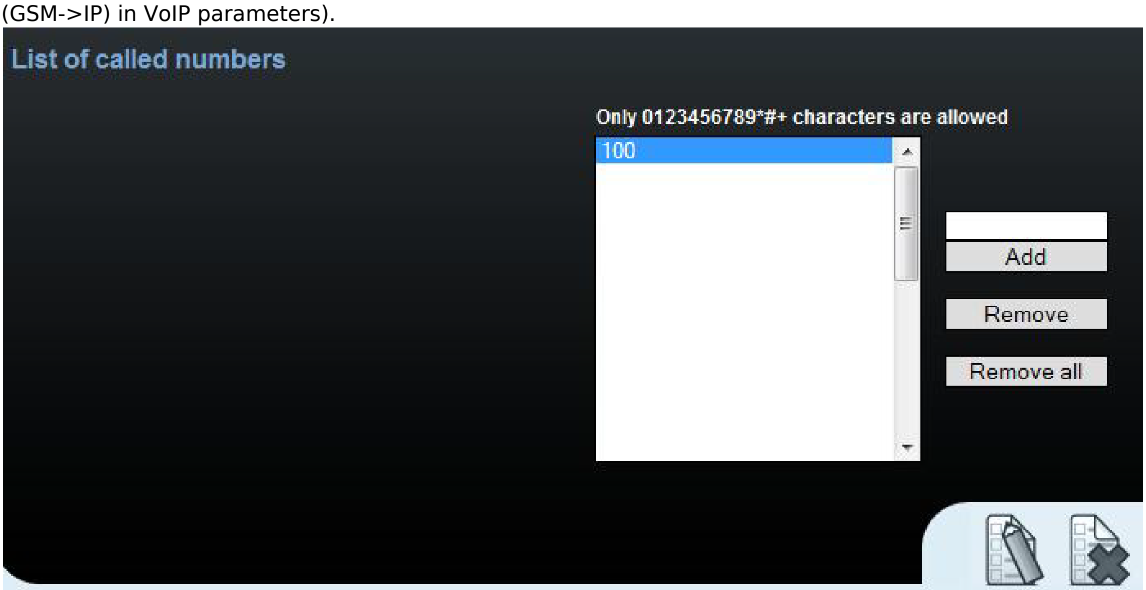
   You are able to have different setting for each GSM group (CLIR, free minutes, virtual ring tone, roaming and others).

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.



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.

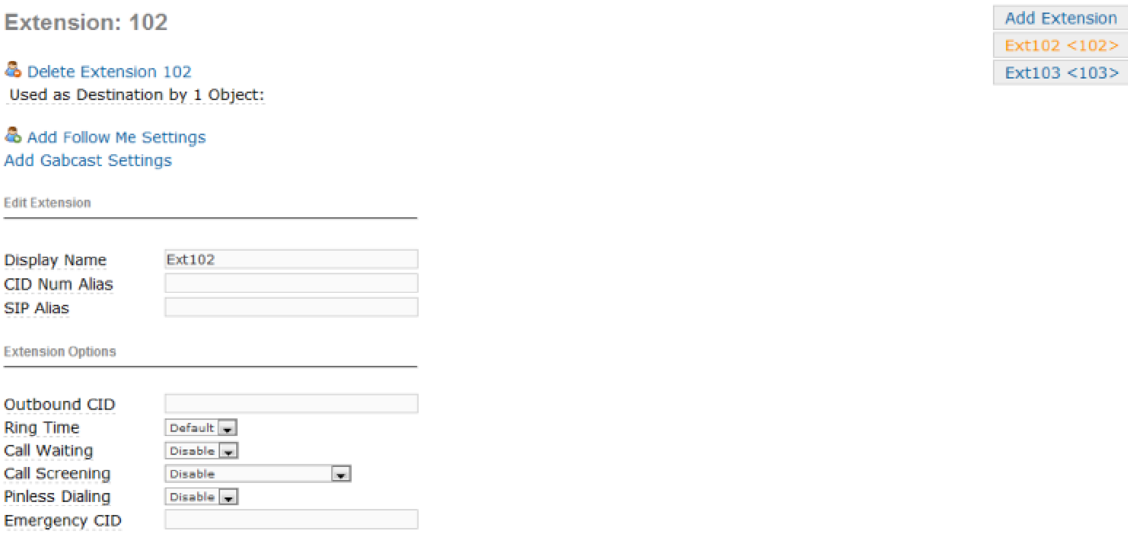
You can define the list of numbers called. The number will be automatically dialed after the DTMF dialing has timed out. This happens when the customer does not press button within the specific time. At this point the number will be routed to the extension 100 to your Elastix PBX (if you set up SIP proxy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

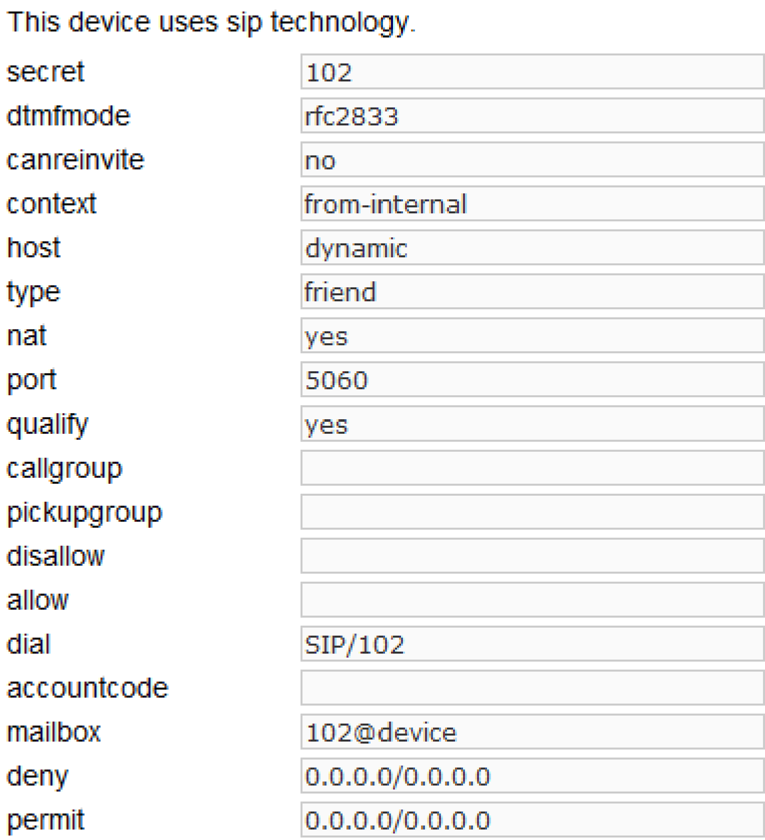
Edit Extension

Display Name	Ext102
CID Num Alias	
SIP Alias	

Extension Options

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

Add Extension
Ext102 <102>
Ext103 <103>

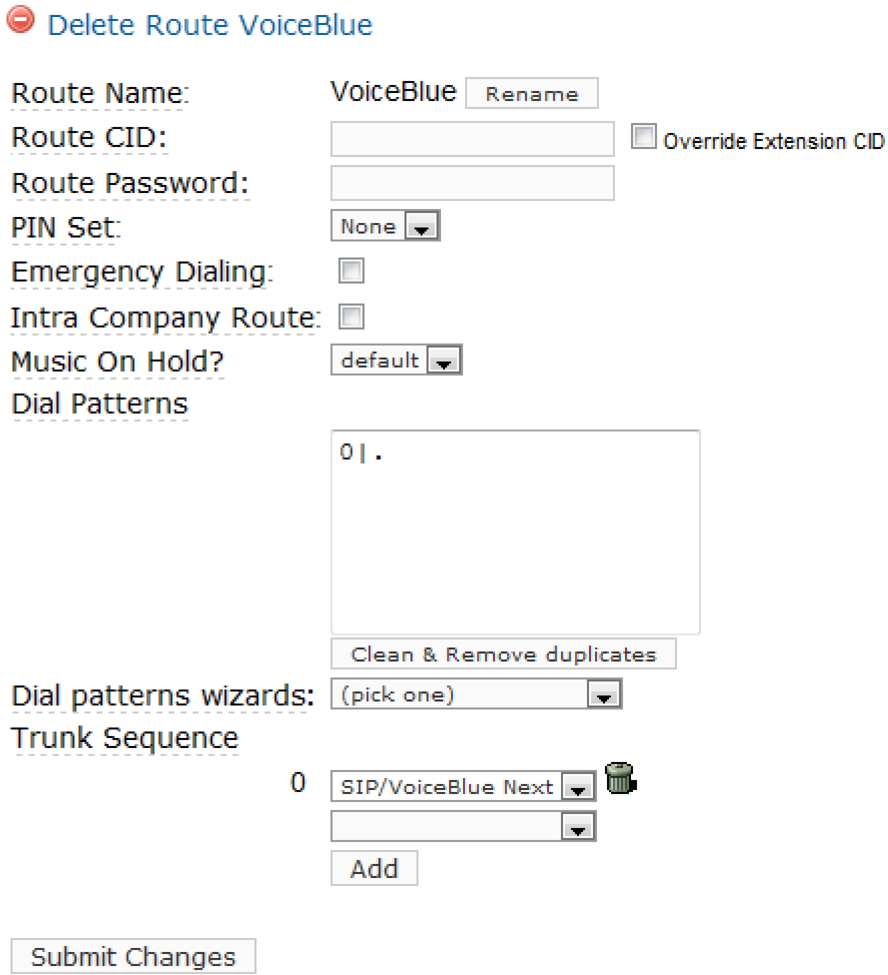


This device uses sip technology.

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	0.0.0.0/0.0.0.0
permit	0.0.0.0/0.0.0.0

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

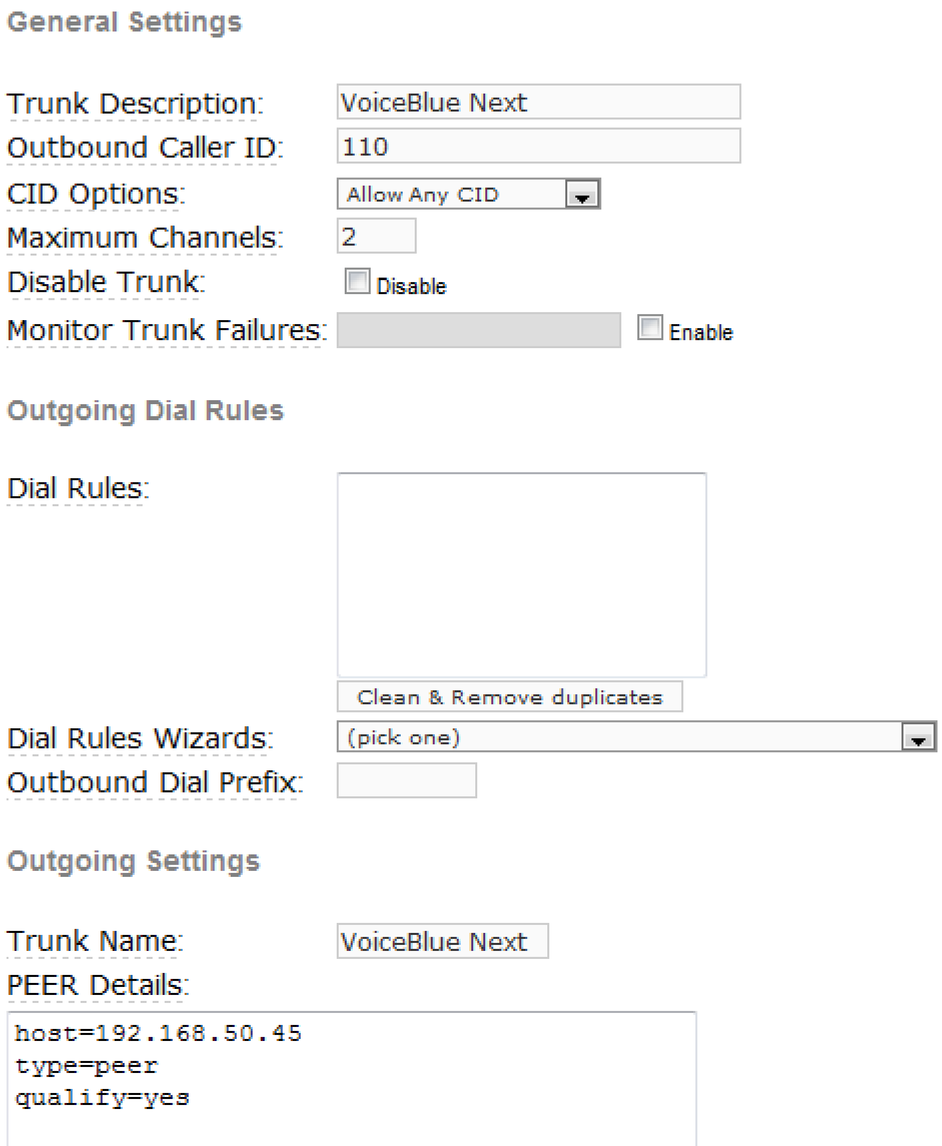
2. Set up the route
Add a new route in the section “Outbound Routes”. In the example the route is called VoiceBlue. If you set up Dial Patterns “0|.“ it means that you have to make an outbound call via prefix 0.



3. Set up the trunk

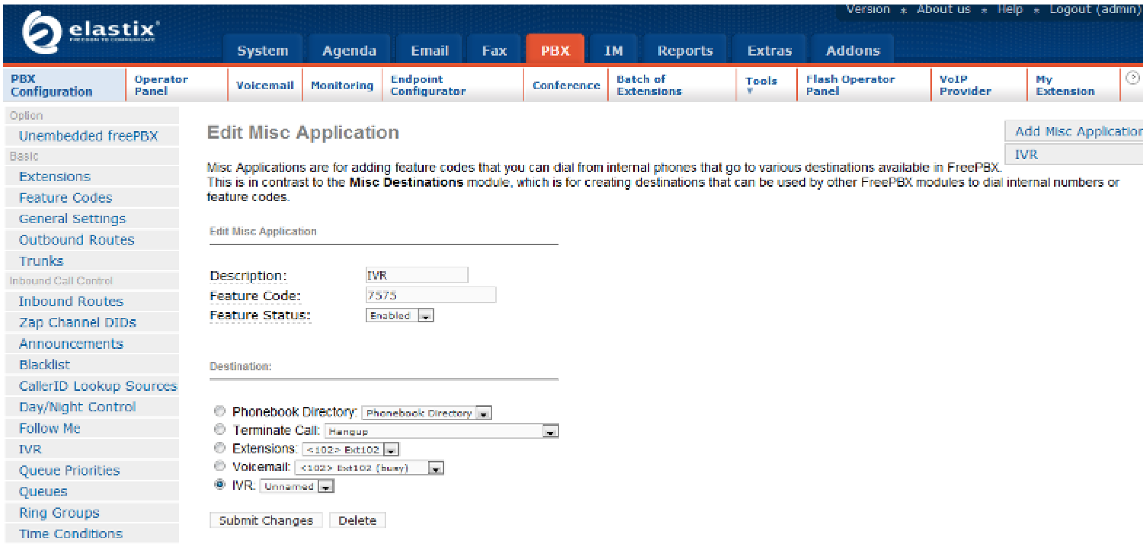
   Fill up the „Trunk description“, „Outbound Caller ID“ for the outbound identification.

   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.

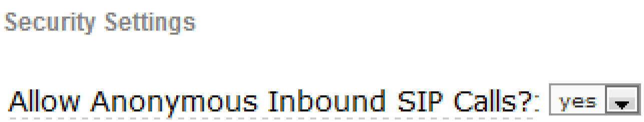


4. Incoming calls

   You can route Incoming calls to the IVR. You find the setting in the section „IVR“.



In the „General Settings“, you can allow an anonymous incoming calls as in the picture below.



More product information:

2N® VoiceBlue Next (Official Website 2N)