2N®

VoiceBlue Next

2N® VoiceBlue Next & 3CX PBX

connected via SIP trunk

Quick guide

Version 1.00 www.2n.cz

2N® VoiceBlue Next has these parameters:

- IP address 192.168.50.51
- Incoming port: 5060
- Firmware version: 01.00.03rc3

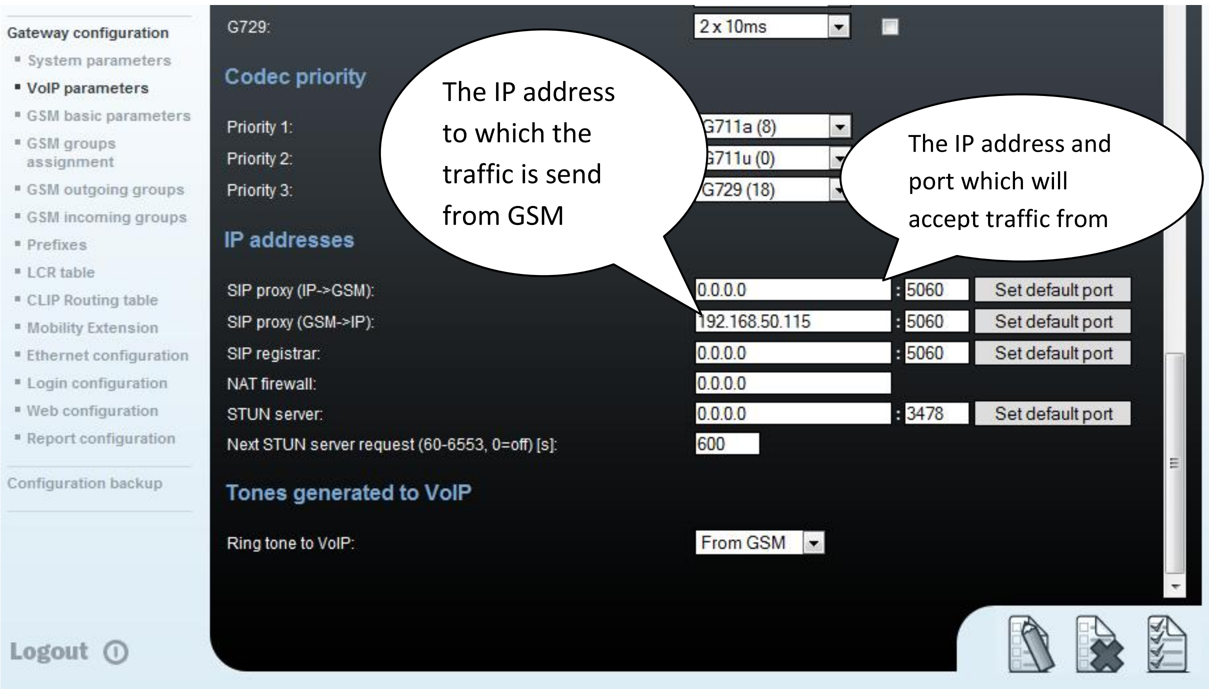
3CX PBX parameters:

- IP address 192.168.50.115
- Incoming port: 5060
- Software version: 9.0

SIP TRUNK INTERCONNECTION

1) For the setting of the trunk between the VoiceBlue Next and your PBX you need to configure SIP proxy (GSM→IP) for GSM incoming calls. SIP proxy (IP→GSM) is designed for secure communication just with traffic from your CCM. You can specify the IP address and port which will accept SIP packets from.

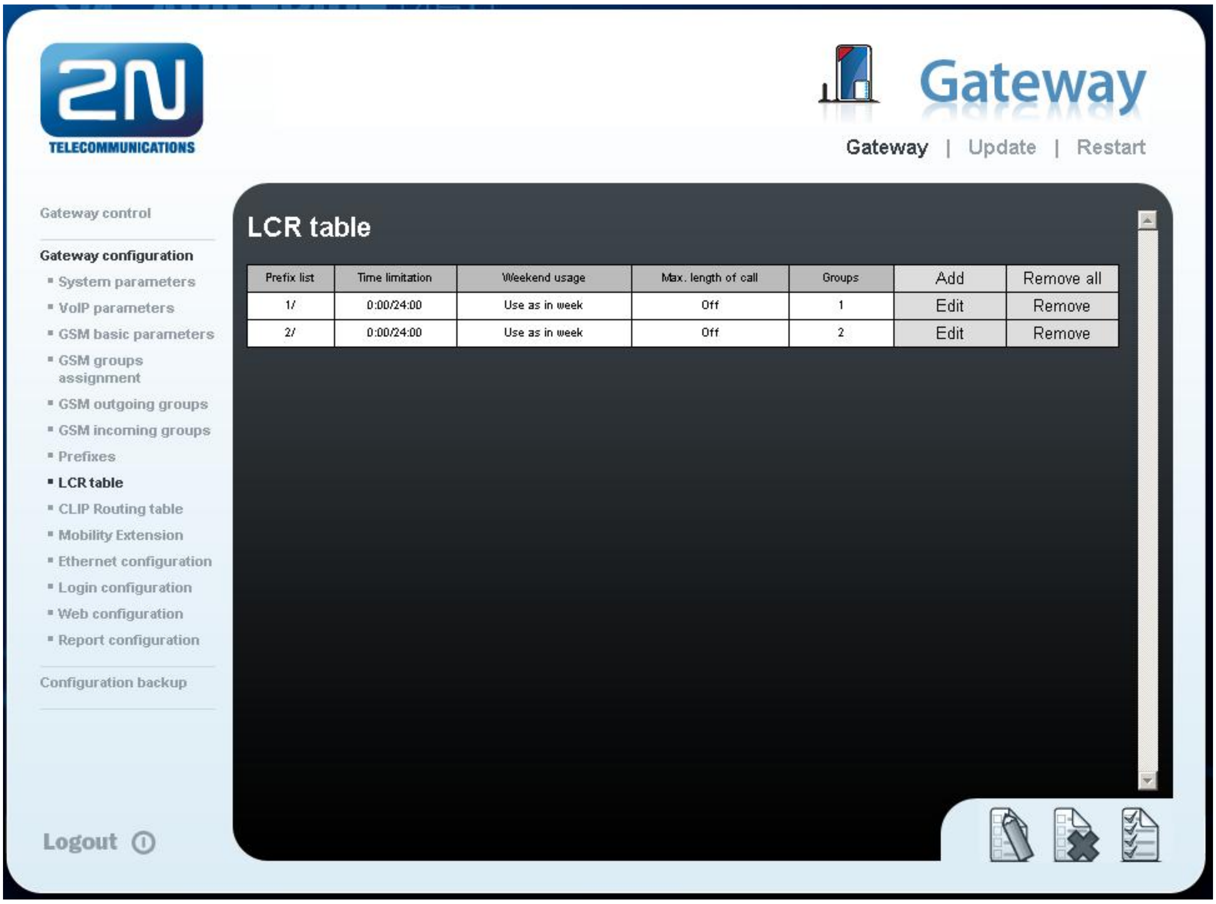
   In case you leave there 0.0.0.0 it will be open for all traffic.

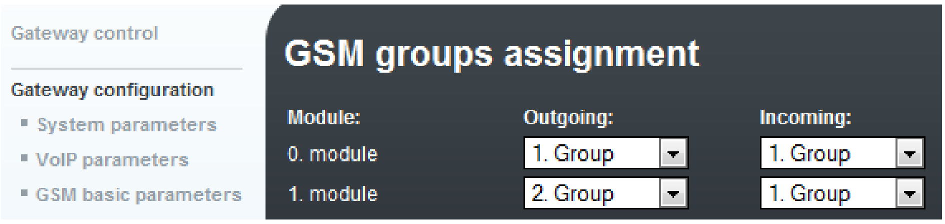


2) Configuration of the LCR (Least Cost Routing)

The GSM operator has e.g. in our country prefix 6 and 7 with a nine digit the length number. The setting is below.

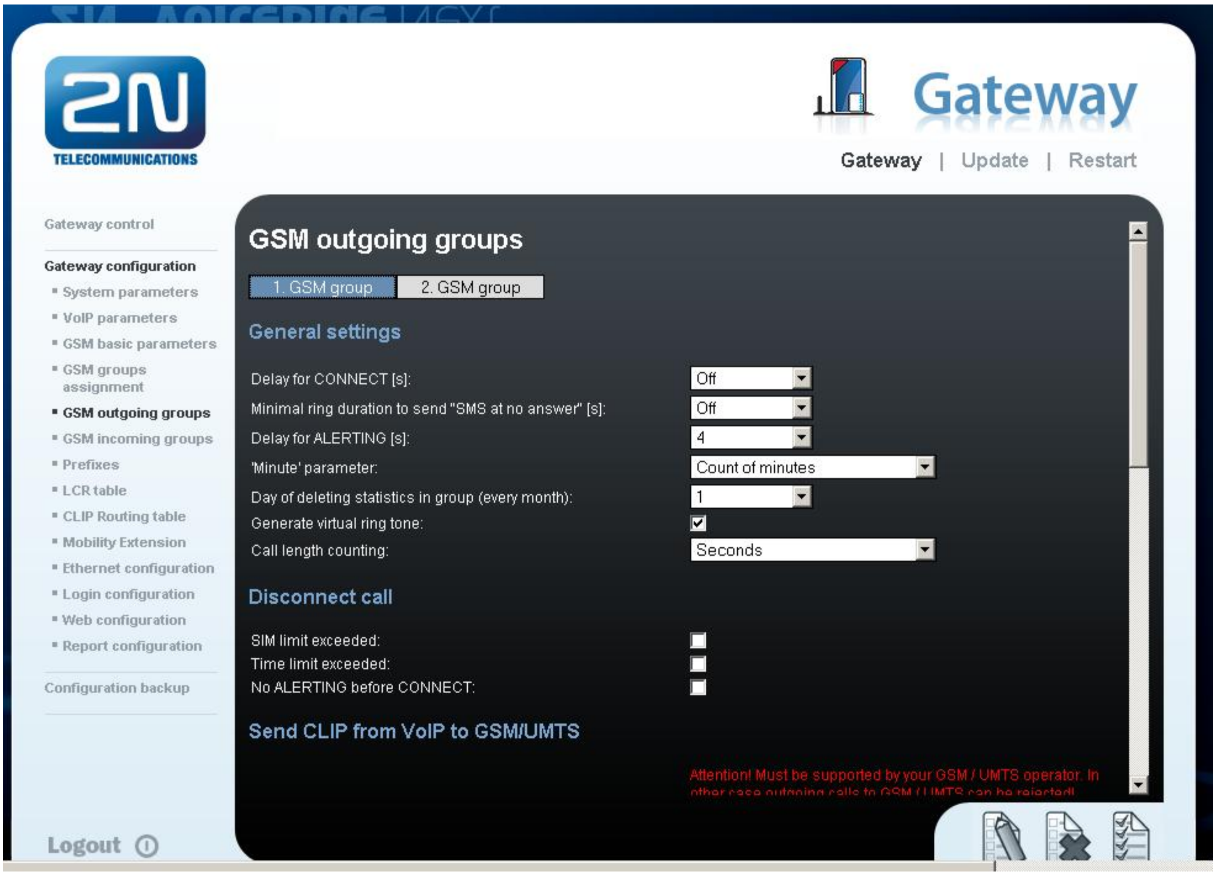
3) You need to create LCR rule for defined prefixes. The GSM group says thru with outgoing group the call will follow and in the GSM group assignment you can define, which SIM cards below to which GSM outgoing group.





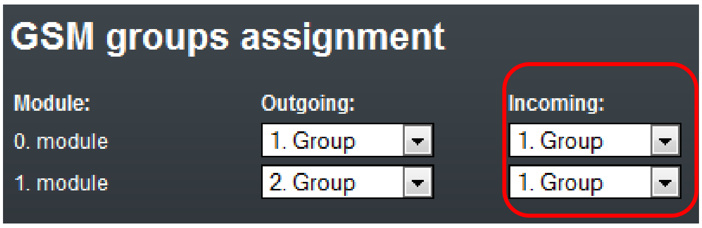
4) Configuration of GSM outgoing groups:

You are able to set up different setting for each GSM group (CLIR, free minutes, Virtual ring tone, roaming and others)



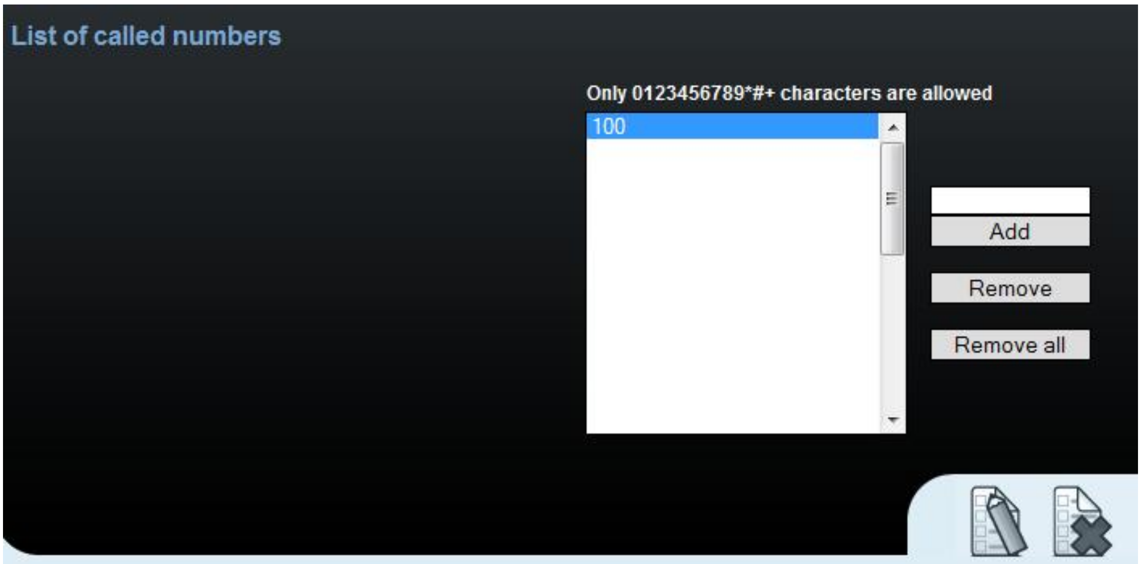
5) Incoming calls

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.



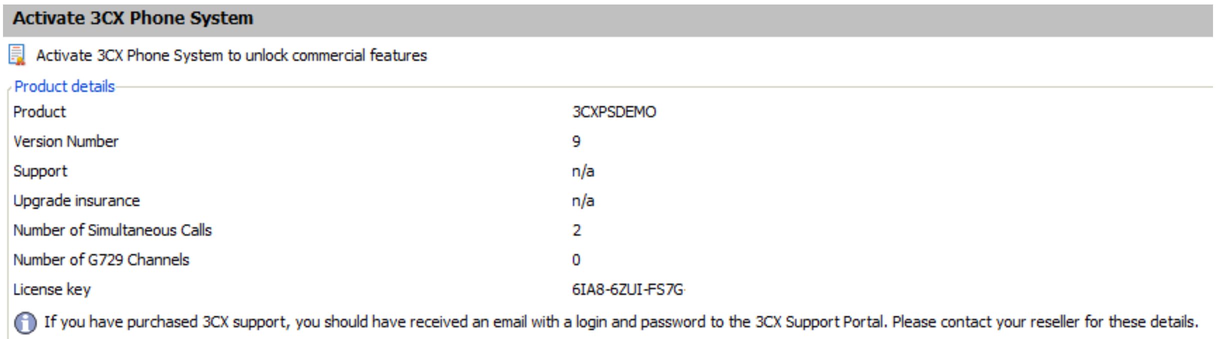
In GSM incoming groups you can define the behavior for each GSM incoming group. Choose the mode to Reject, Ignore, Accept incoming calls or Callback.

You can define the list of called numbers which will be automatically dialed after DTMF dialing timeout if the customer don´t press any button till the specified time. From the configuration, you can see 10 seconds for DTMF dialing and after that the call will be routed to the extension 100 to your 3CX PBX (if you set up SIP proxy (GSM->IP) in VoIP parameters).



3CX PBX SETTING

You can download the 3CX PBX for free. Then you can activate a free version by registering the product and using a demo license key (**Settings → Activate License**) and the 3CX system will be changed to Commercial Edition (3CXPSDEMO) where all features are available. Demo license is not limited by time.



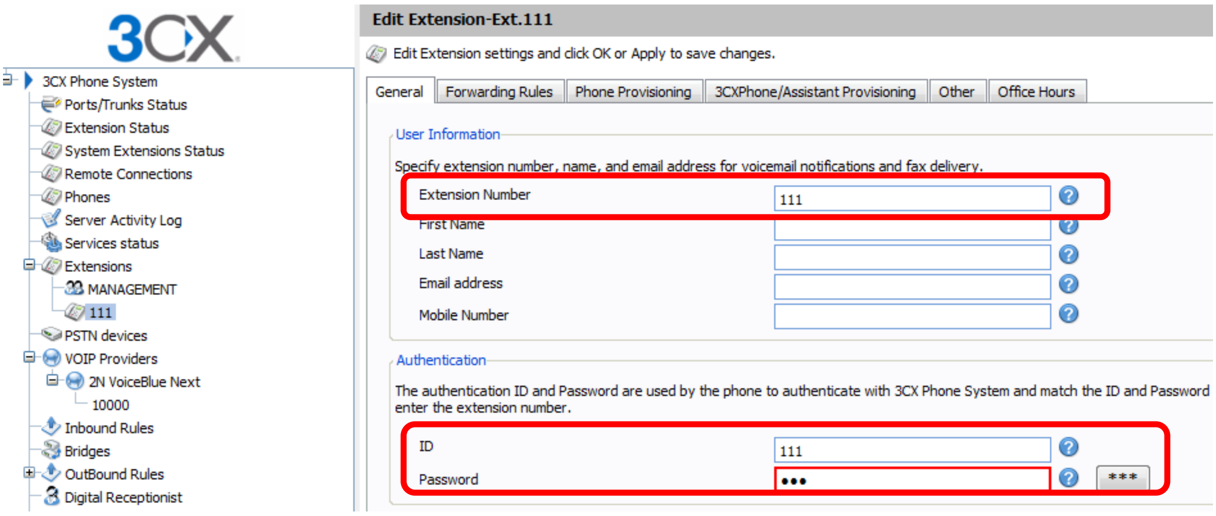
Differences between Free version and Commercial Edition you can check in this document on the page 11:

http://www.3cx.com/phone-system/3CXPhoneSystem_brochure.pdf

In the Commercial Edition you can use only 2 concurrent SIP calls, use codec G.729, use a SIP trunk, etc...

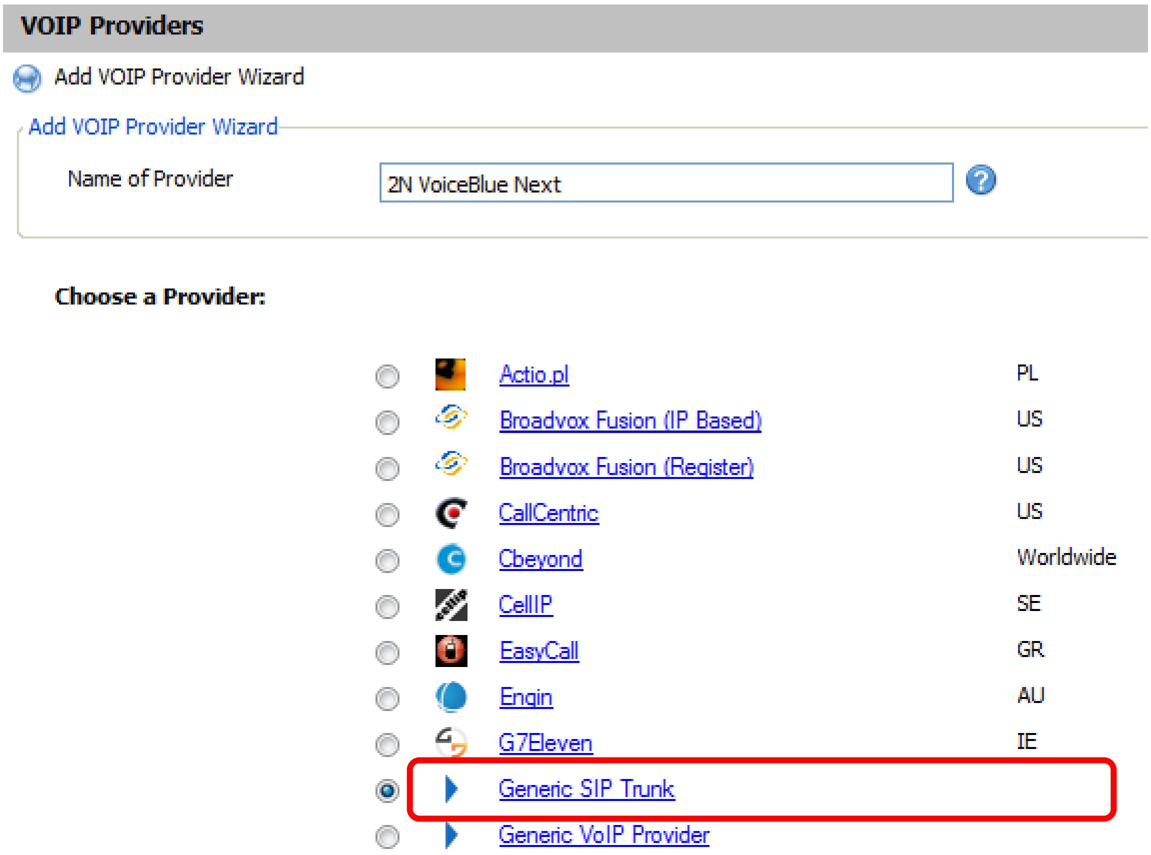
1) Create an Extension

Use the button Add Extension and fill up Extension Number and ID and Password.

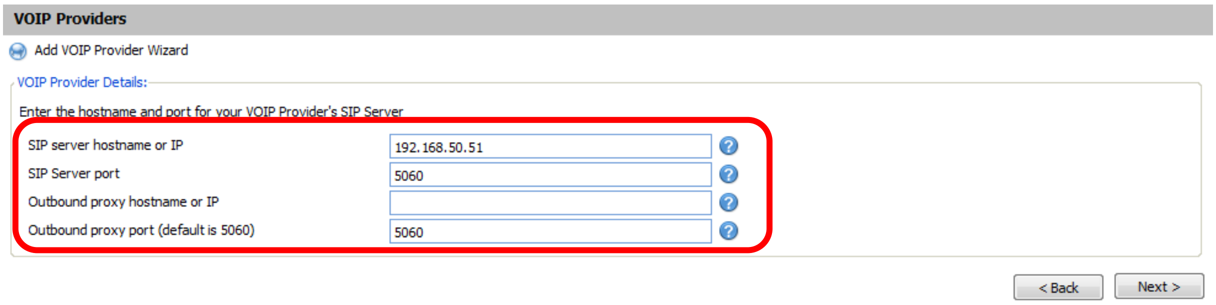


2) Create a new SIP trunk

Add → VOIP Provider in the menu of the 3CX PBX. Use the name of provider and choose **Generic SIP Trunk.** Then use the button **NEXT**.

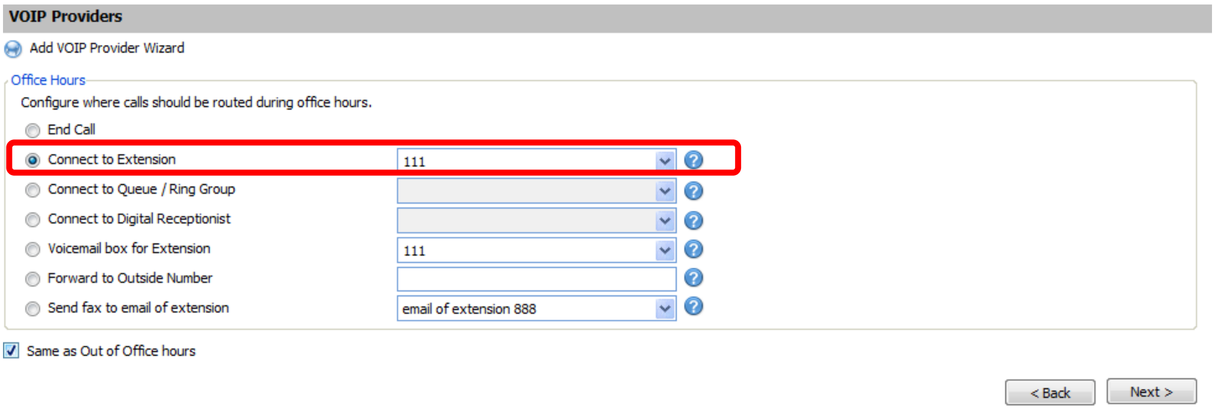


Fill up the IP address and the listening port of the 2N® VoiceBlue Next.



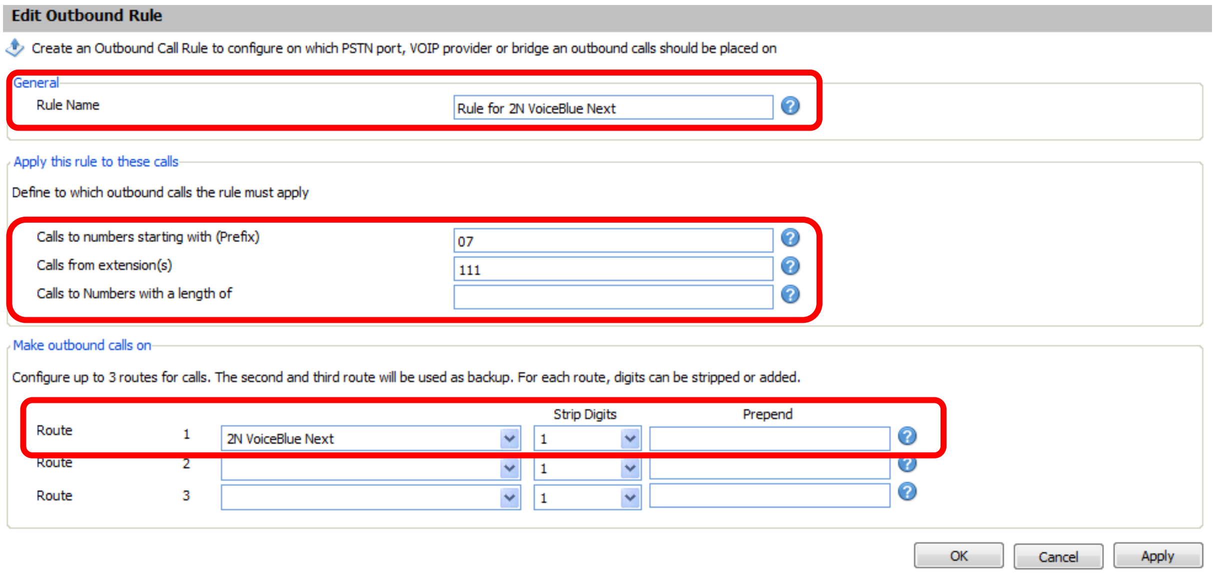
Fill up the External number (this number will be identification of call – FROM and CONTACT field)

Set up the the extension where incoming call will be routed from the 2N® VoiceBlue Next.

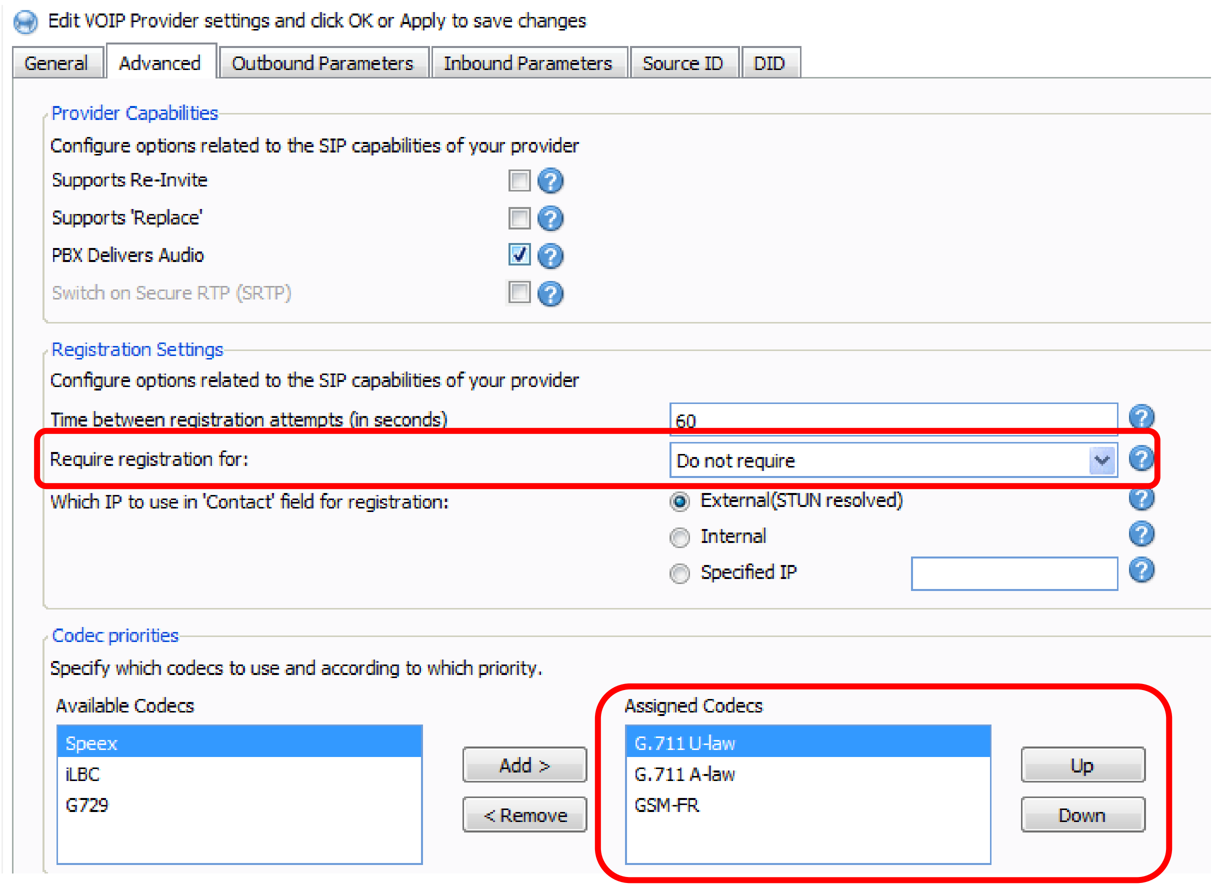


Set up Outgoing rules :

1) Prefix called from the extension
2) Set up the range of extension which can use this trunk (e.g. 111-120)
3) SIP trunk and Strip Digits (0 will be striped in this case)



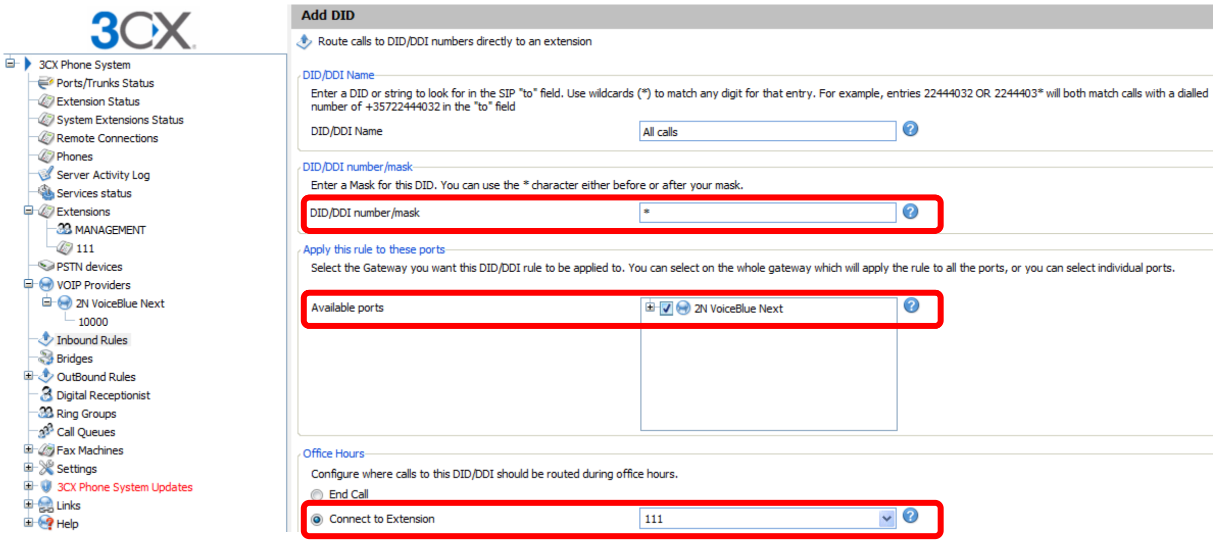
Set up codecs and turn off registration of the SIP trunk. This setting is in **VOIP Providers → Advanced**



3) Create inbound rules

- specify numbers or range numbers what could be dialed from 2N® VoiceBlue Next. You can use “*” for all numbers.
- specify the SIP trunk from which the number will come

- specify the extension, ring group or voicemail where the call will be connected



4) Make a call

You can register your SIP phone or download the 3CXPhone from 3CX webpage for free:

http://www.3cx.com/VOIP/voip-phone.html

Register your SIP phone to the 3CX PBX and make an outgoing call with specified prefix to GSM via 2N® VoiceBlue Next.

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