2N®

OfficeRoute

2N® OfficeRoute & Siemens HiPath (series 3000)

connected via SIP trunk

Quick guide

Version 1.00

www.2n.cz

2N® OfficeRoute has these parameters:

- IP address 192.168.1.120
- Incoming port: 5060

Siemens HiPath 3000 parameters:

- IP address 192.168.1.50
- Incoming port: 5060

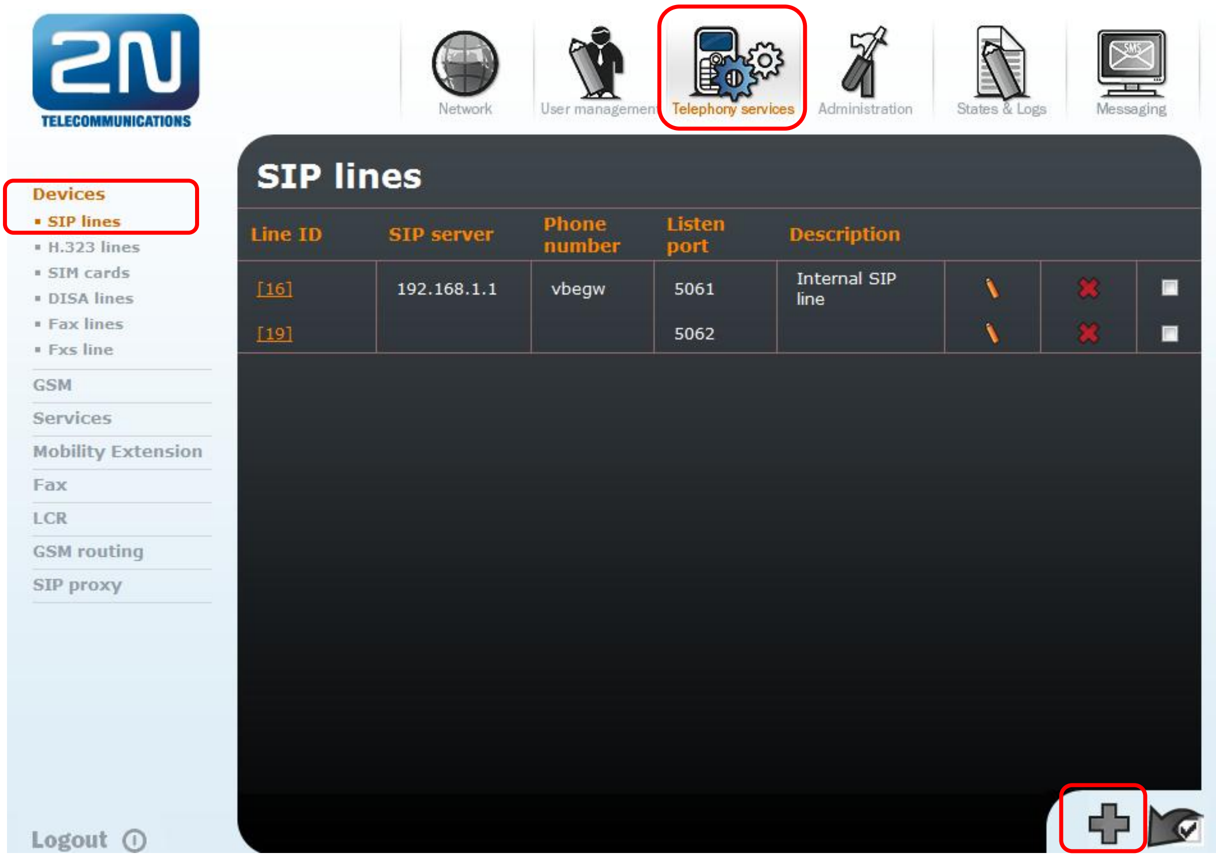
Settings of 2N® OfficeRoute

1) Switching SIP proxy off

Siemens HiPaths 3000 series can not change the destination port for SIP trunk. Default settings for destination port is 5060. 2N® OfficeRoute has port 5060 used by internal SIP proxy. That is why the SIP proxy has to be switched off for this case.

2) *Creating a new SIP trunk*

At menu **Telephony services → Devices → SIP lines** add a new line



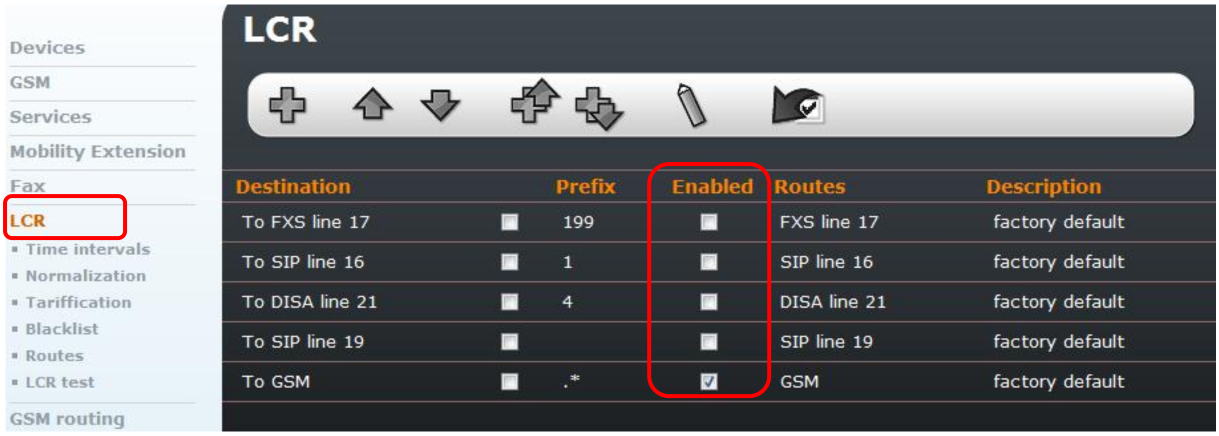
For a new SIP line:

- Fill SIP server address as IP address of Siemens PBX, listen port 5060.
- Highlight or change a priority of codecs which should be used for this trunk.
- Uncheck Register with proxy checkbox.
- Write some description of this trunk.

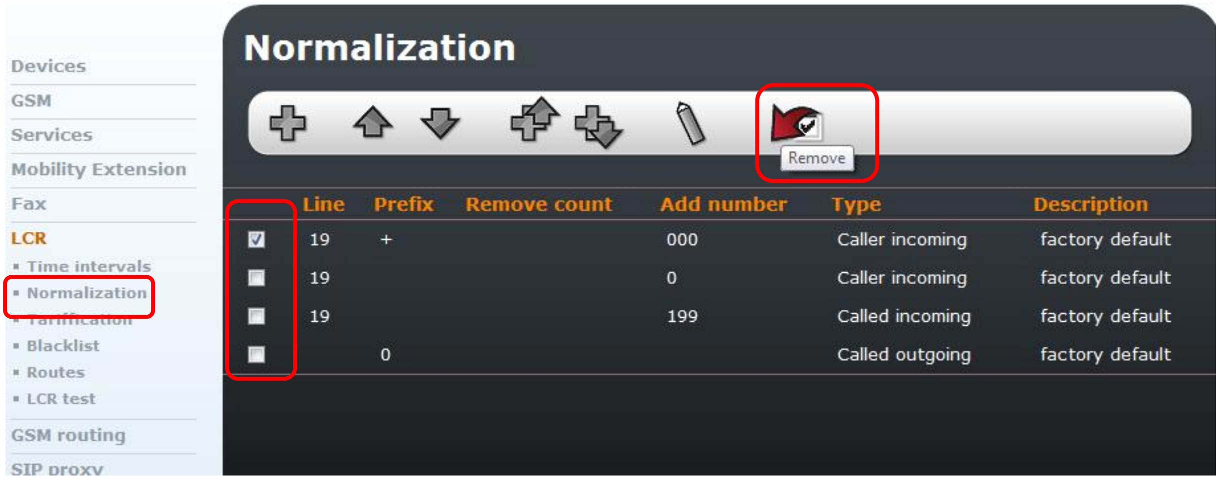

Add SIP line
SIP server address:
192.168.1.50
SIP domain:
SIP name:
Display name:
Listen port:
5060
If exists SIP proxy registration, listen port cannot be 5060
User name:
Password:
Codecs:
G.711 A Law 64000 bps
G.711 u Law 64000 bps
G.729 8000 bps
Shift up
Shift down
Add Phone context to REGISTER requset:
Register expires (seconds):
300
Register with proxy:
Enable CLIP:
Allow only one call:
Get callee from:
Request URI
Use Diversion header:
Enable NAT:
NAT port begin:
0
NAT port range:
0
NAT IP address:
No route code:
0
SIP TOS/DiffServ Value:
0x0
RTP TOS/DiffServ Value:
0x0
Description:
Siemens 3000 trunk

3) *Configuration of the LCR (Least Cost Routing)*

At **Telephony services → LCR** disable all rules which are not routed into GSM



Remove all rules from Telephony services – LCR – Normalization



4) *Incoming calls*

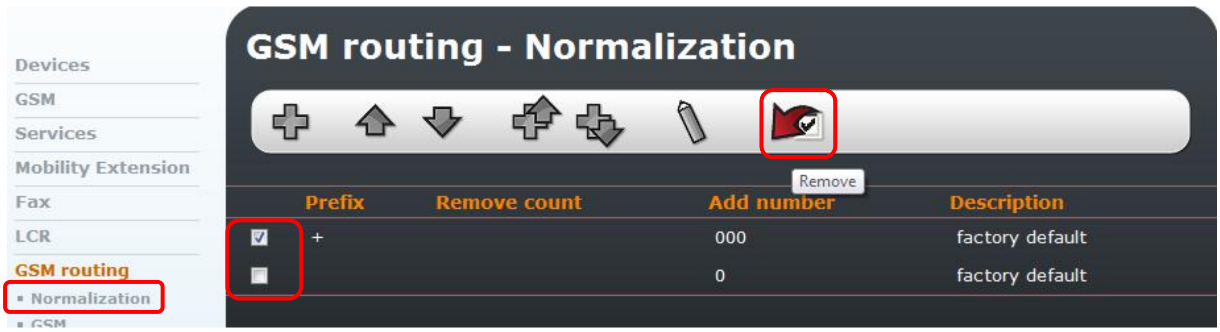
Incoming calls can be routed to some DDI in Siemens. For our case it is number 100 which will be dialled into our SIP trunk for all incoming calls. Create a new Operator rule in **Telephony services → GSM routing → Operator**

Operator number is a number which will be dialled into choosed VoIP line for incoming call.

Assign the Operator service with GSM modules which should use this incoming rule. You can do it at **Telephony services → GSM routing → GSM**

Create here a new rule for each GSM module and choose the service

Remove all normalization rules in GSM routing menu



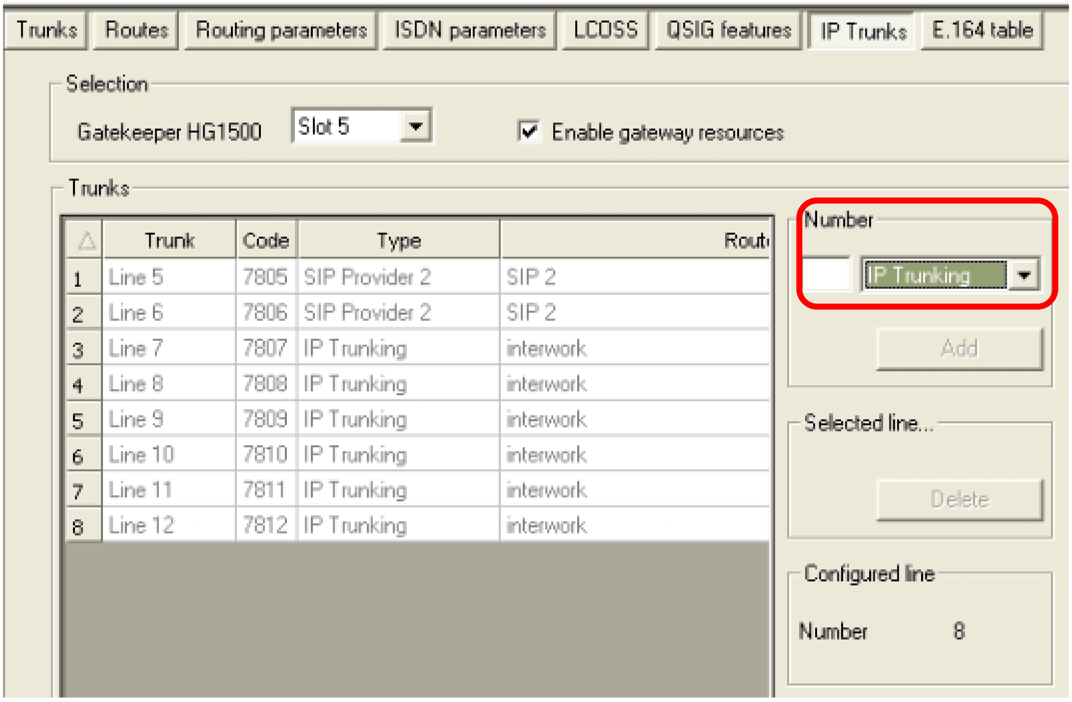
SIEMENS HiPath 3000 version 8.0

1) Create a new IP trunk

Add a new trunk – **Trunks → IP Trunks**

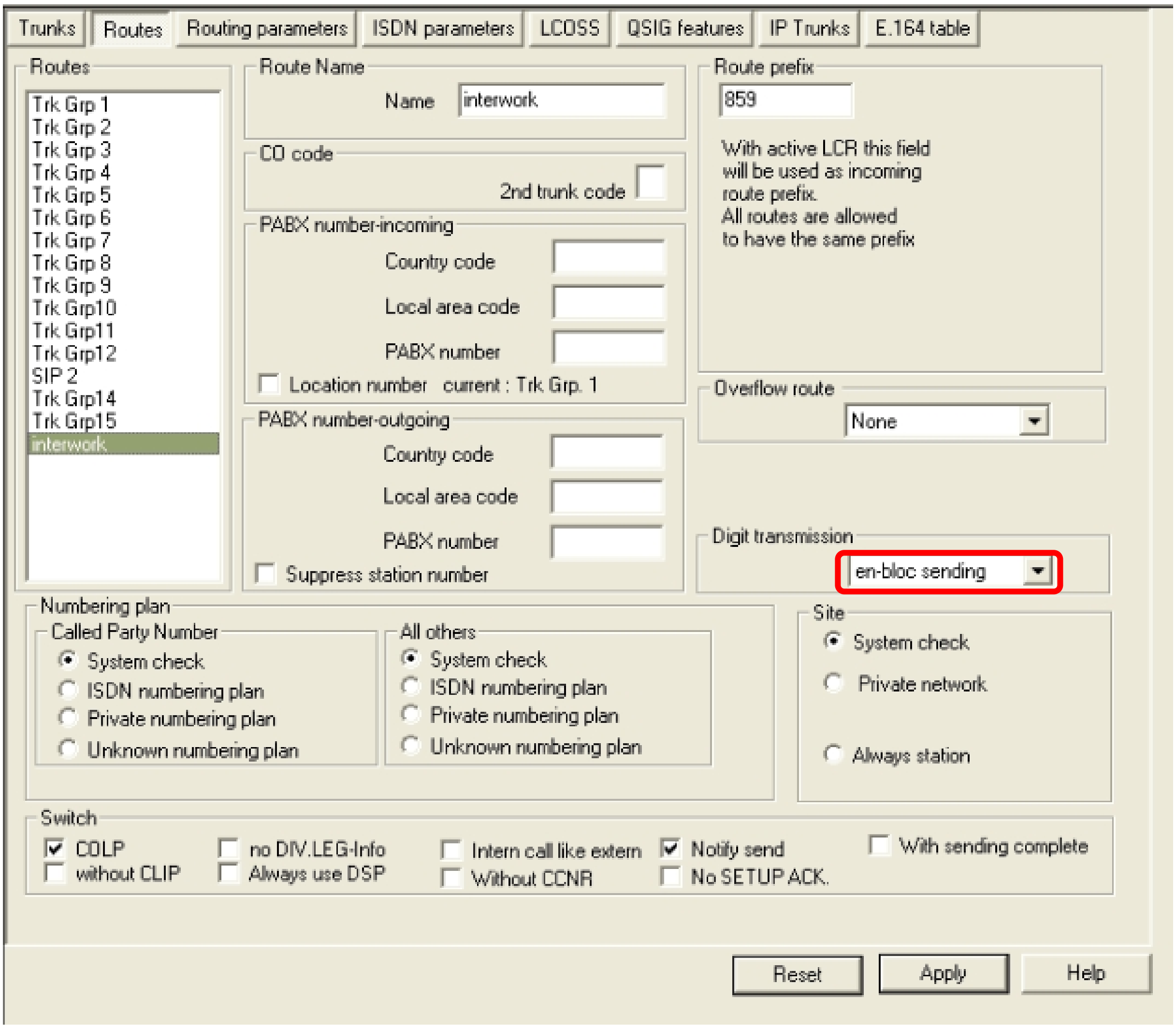
Number trunks = number VoIP channels

You need to assign IP trunk to ***Trunk group 16*** (always for IP trunk). This trunk is called interwork in the picture below.



The setting of Trunk group 16 you can find in the picture below.

Important is to use en-block setting for sending of dialed number.



2) LCR SETTING IN PBX

Enter the menu **”Least cost routing” → ”Dial plan”**

Example setting of Dialed digits:

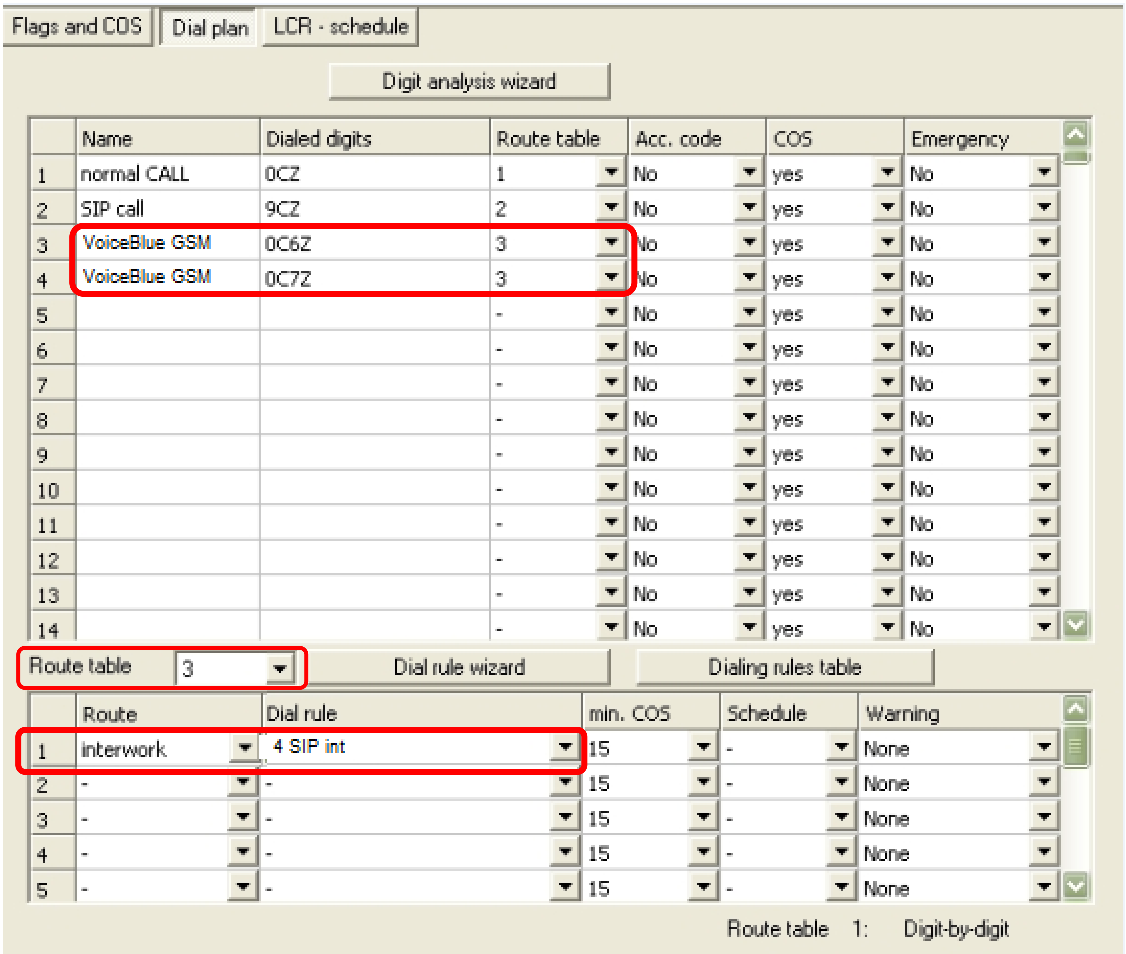
0C6Z means: 0... prefix for outgoing calls from PBX

C... user get dial tone (morse A)

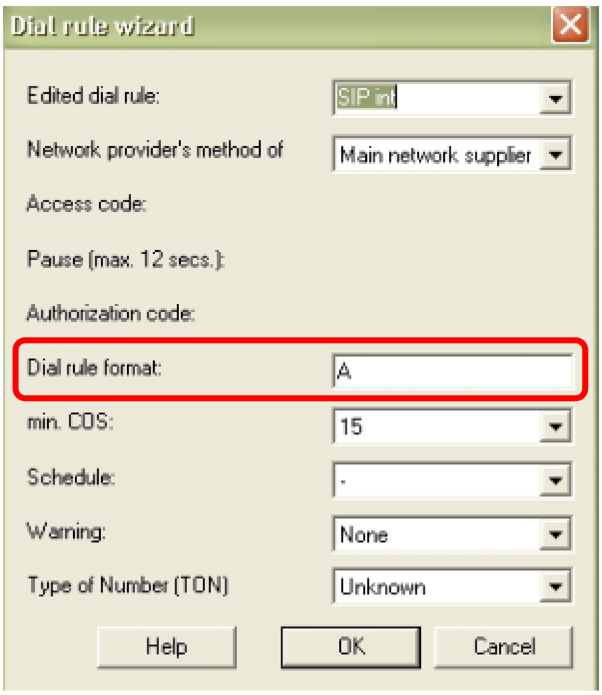
6... prefix to GSM network

Z... unlimited number of digits

Now the prefix you have to send to Route table (in our example Route table 3)



Choose your Route table and press “Dial rule wizard”. Now you are able to set up Dial rule format A. It means repeat all digits after C (0 will be stripped from called number).



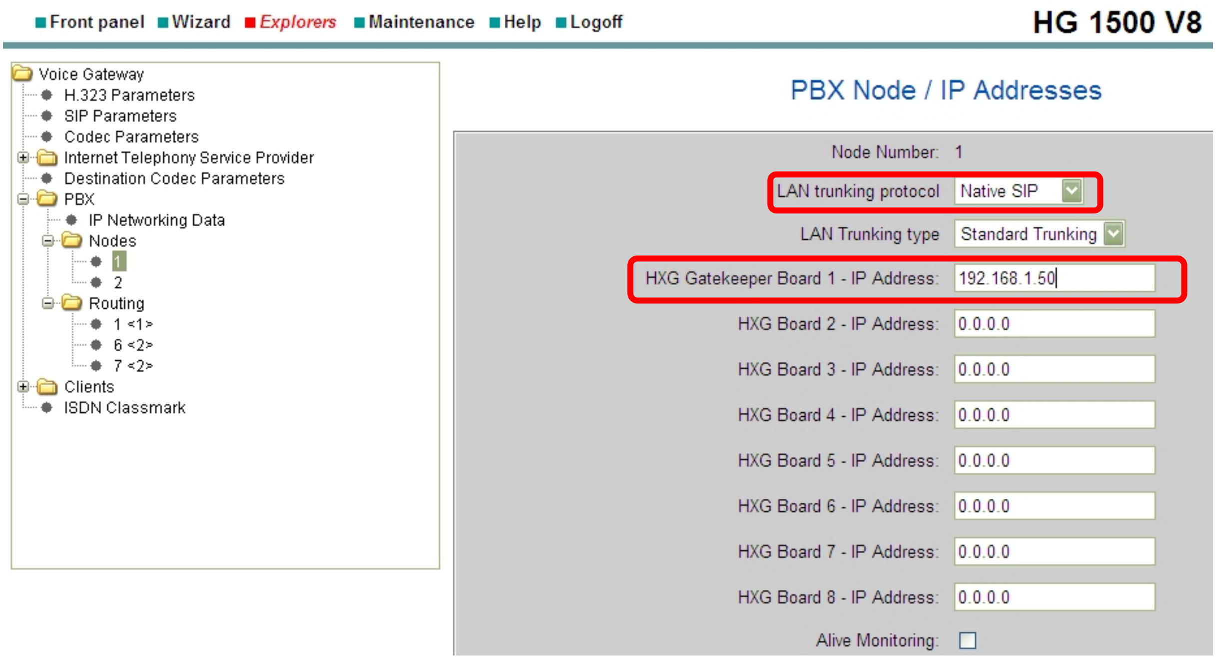
3) Setting of VoIP card - via web interface (HG 1500 V.8.0)

Firstly, you need to have licenses for VoIP channels (2 channels should be open as a standard)

Enter the menu: **Explorers → Voice Gateway → PBX → Nodes**

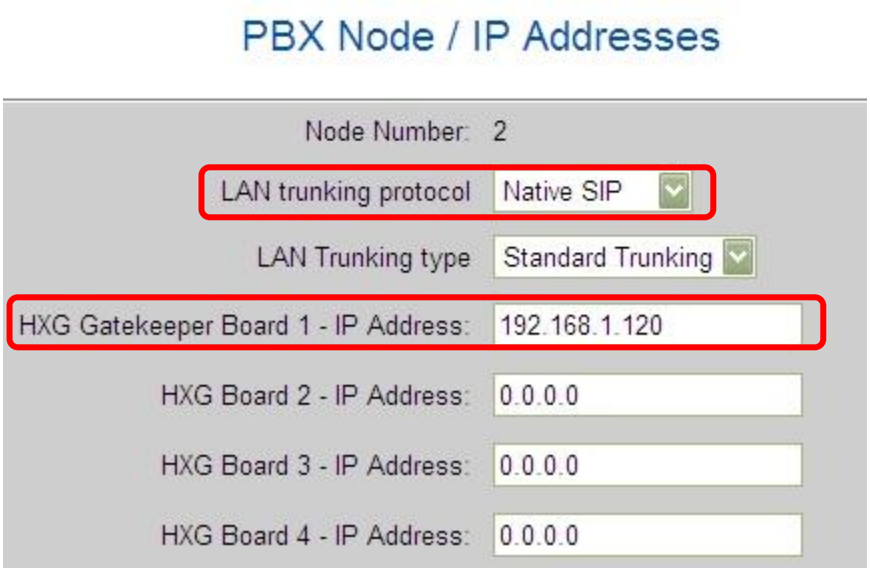
Node 1 needs to be configured for incoming traffic from 2N® OfficeRoute gateway. This setting is for routing to your own system.

LAN trunking protocol needs to be “Native SIP” and IP address is the IP of the Siemens HiPath 300.



Node 2 needs to be configured for outgoing traffic to 2N® OfficeRoute gateway.

LAN trunking protocol needs to be “Native SIP” and IP address is the IP of 2N® OfficeRoute gateway (192.168.1.120)



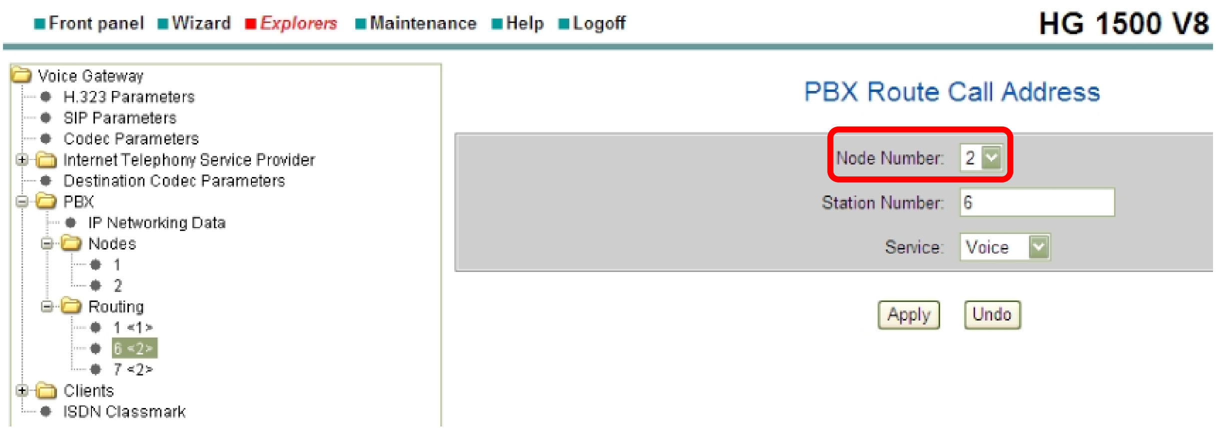
Siemens HiPath can check the connection with gateway by setting of “Alive monitoring”. You are able to set it up in Node setting and you can choose PING or TCP IP monitoring.

Routing

Now, you have to set up routing digits to your predefined Nodes.

Example of setting:

- Number 6 and 7 are routed to the Node 2. There is a gateway 2N® OfficeRoute
- Number 1 is routed to the Node 1. This node is for own Siemens HiPath PBX.

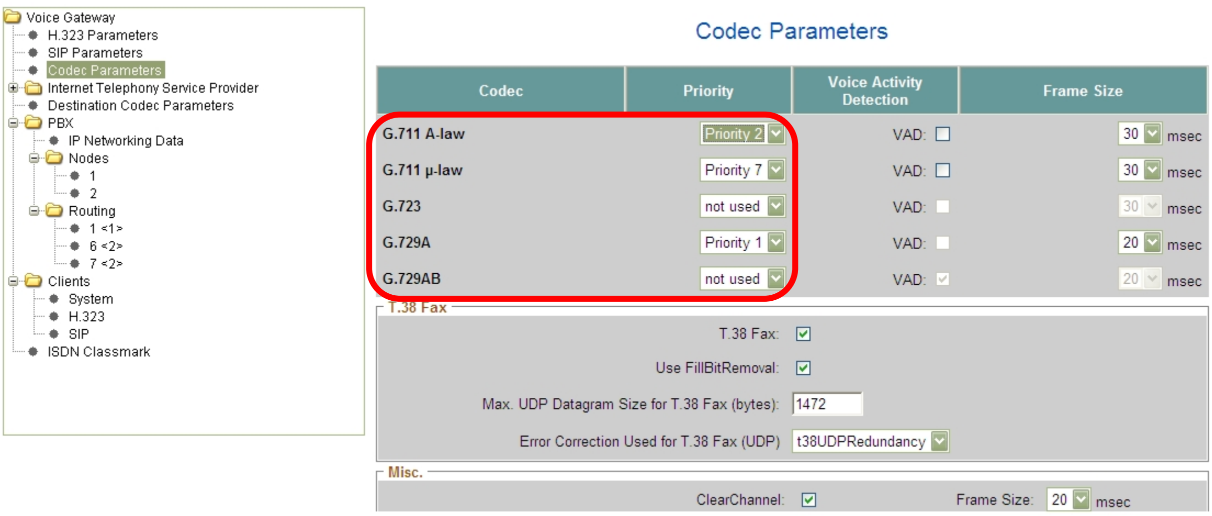


Codec setting

Enter the menu **Voice Gateway → Codec Parameters**

You can set up priorities for codecs.

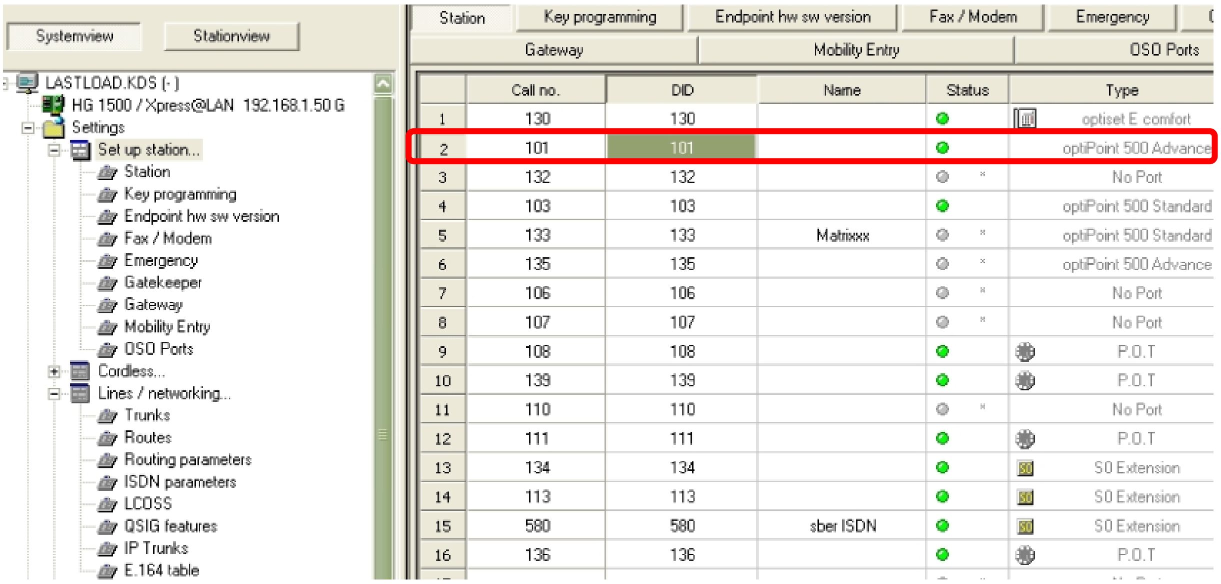
The Siemens HiPath support DTMF via RFC 2833.



Incoming call from 2N® OfficeRoute

In the VoIP card we already set up routing for prefix “1” to own Siemens HiPath PBX.

Now, the number coming from 2N® OfficeRoute is compared with DID number and routed to the particular phone.



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