



2N[®]

VoiceBlue Lite



2N[®] VoiceBlue Lite & Alcatel OXO

connected via SIP trunk

Quick guide

Version 1.00

www.2n.cz

2N® VoiceBlue Lite has these parameters:

- IP address 192.168.92.200
- Incoming port: 5060
- Firmware version: 2.07.35i39

Alcatel OXO parameters:

- IP address 192.168.92.246
- Incoming port: 5060
- version 7.7.1

SIP TRUNK INTERCONNECTION

- 1) For the setting of the trunk between the VoiceBlue Lite and your PBX you need to configure SIP proxy (GSM→IP) for GSM incoming calls. The setting is in the VoIP menu. SIP proxy (IP→GSM) is designed for secure communication just with traffic from your PBX. 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.

The image shows a screenshot of a SIP configuration interface. It features several input fields for IP addresses and ports, each with a 'Use default port' checkbox. Two callout bubbles provide additional context: one points to the 'SIP proxy (IP->GSM)' IP field, stating 'The IP address to which the traffic is send', and another points to the port field for the same proxy, stating 'The IP address and port which will accept traffic from'.

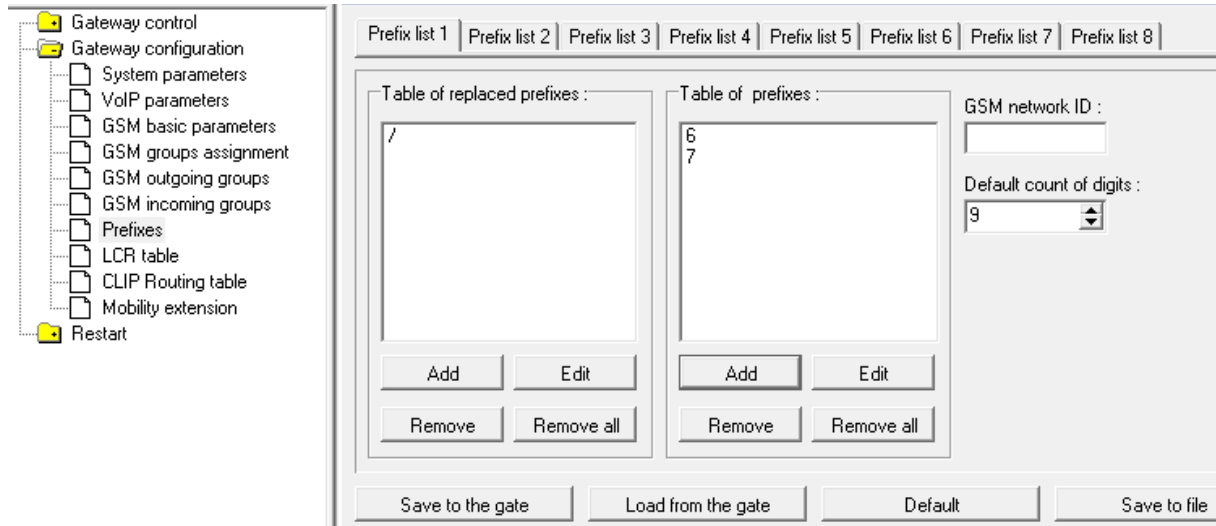
Field	Value	Use default port	Port
SIP proxy (IP->GSM) :	192.168.92.246	<input checked="" type="checkbox"/>	5060
SIP proxy (GSM-> IP)	192.168.92.246	<input checked="" type="checkbox"/>	5060
SIP registrar :	0.0.0.0	<input checked="" type="checkbox"/>	5060
NAT firewall :	0.0.0.0		
STUN server :	0.0.0.0	<input checked="" type="checkbox"/>	3478
Next STUN server request : (60 - 6553s)	600 [s]		

Tones generated to VoIP :

Dial tone to VoIP : Transfer from GSI

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 card belongs to which GSM outgoing group.

LCR table			
Prefix List	Valid from/to	Outgoing destination	Call duration limit
1/	0:00/24:00	1	0
2/	00:00/24:00	2	0

Add

Edit

Remove

Remove all

Load from the gate

Save to the gate

Save to file

Default

The screenshot shows a software application window with the following components:

- Menu Bar:** File, Gateway, Gateway control, Settings, Help
- Toolbar:** Contains icons for file operations, navigation, and language selection (including flags for Czech, UK, Spain, and AT).
- Topics Sidebar:**
 - Alphabetical glossary
 - Gateway control
 - Gateway configuration
 - System parameters
 - VoIP parameters
 - GSM basic parameters
 - GSM groups assignment
 - GSM outgoing groups
 - GSM incoming groups
 - Prefixes
 - LCR table
 - CLIP Routing table
 - Mobility extension
 - Restart

- Main Content Area:**

Groups assignment :

Module :	Outgoing :	Incoming :
0. module	1. Group	1. Group
1. module	1. Group	1. Group
2. module	2. Group	1. Group
3. module	2. Group	1. Group

Buttons: Save to the gate, Load from the gate, Default, Save to file

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). In case you don't have a Ring back tone, set up Delay for ALERTING to option 4.

GSM outgoing groups

1 GSM group | 2 GSM group | 3 GSM group | 4 GSM group

Roaming enabled for network code: Delay for CONNECT [s]: 0

CLIR: Default Delay for ALERTING [s]: (0 = off) 5

Max. number of called minutes: (0 = off) 0 Day of deleting stats in group: 1

SMS messages number: (0 = off) 0 Minimal ring duration to send "SMS at no answer" [s]: (0 = off) 0

Day of deleting stats: (0 = off) 1 Text of "SMS at no answer":

Minimal length of call after connect [s]: 1 Text of SMS for all calls (number = %N):

Precision of counting length of call: 1 CLIP to GSM separator: (empty = off)

CLIP to GSM modification:

Use CLIP to GSM from INVITE field: Contact

For proper functionality "Clip to GSM separator" has to be set

Save to the gate Load from the gate Default Save to file

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.

File Gateway Gateway control Settings Help

Topics | Alphabetical glossary

- Gateway control
- Gateway configuration
 - System parameters
 - VoIP parameters
 - GSM basic parameters
 - GSM groups assignment
 - GSM outgoing groups
 - GSM incoming groups
 - Prefixes
 - LCR table
 - CLIP Routing table
 - Mobility extension
- Restart

Groups assignment:

Module:	Outgoing:	Incoming:
0. module	1. Group	1. Group
1. module	1. Group	1. Group
2. module	2. Group	1. Group
3. module	2. Group	1. Group

Save to the gate Load from the gate Default Save to file

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.

GSM incoming groups

1 GSM group | 2 GSM group | 3 GSM group | 4 GSM group

Mode : List of called numbers :
(Call number by %A, %G95..8 or none or answer and wait for DTMF)

Min. digits in DTMF :

Max. digits in DTMF :

Timeout for entering DTMF digit [s] :

Day of deleting GSM inc. group stastics : (0 = off)

Prefix before DISA preselection :

CLIP :

CLIP to VoIP separator: (empty = off)

CLIP to VoIP modification : **For proper functionality "Clip to VoIP separator" has to be set**

Time to keep CLIP in table [hours] : Off

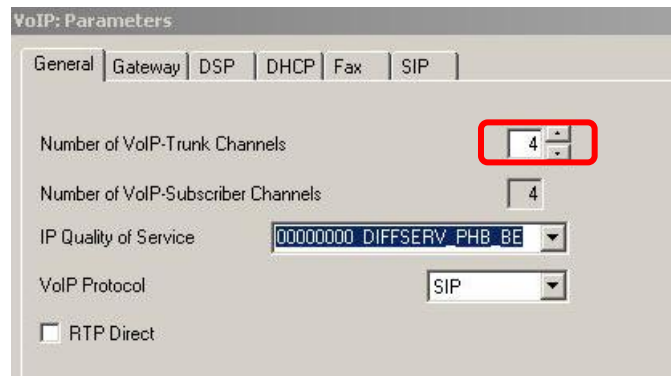
Add record only for unconnected call

Delete record for connected answer

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 101 to your PBX (if you set up SIP proxy (GSM->IP) in VoIP parameters).

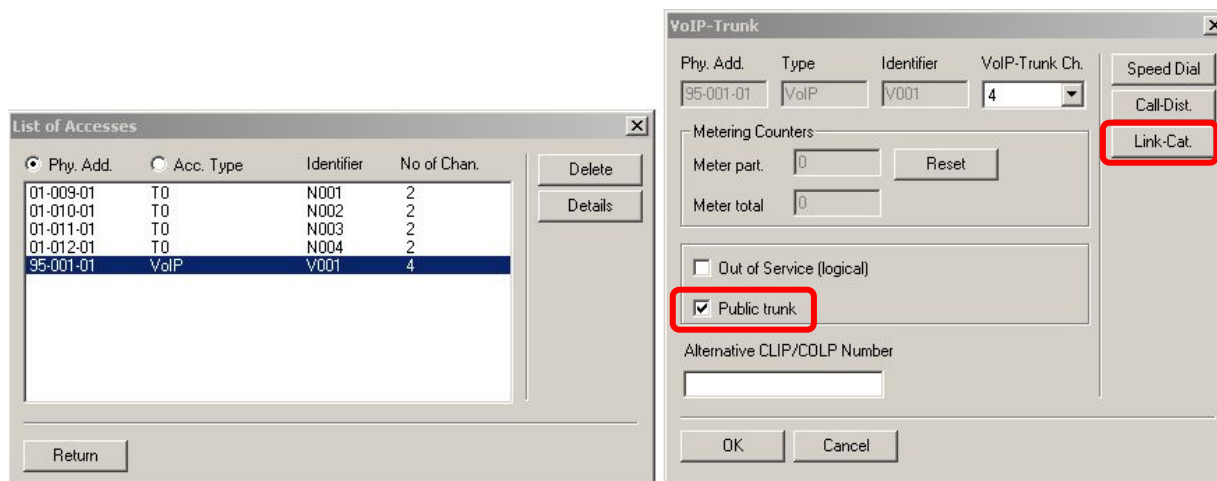
Alcatel OXO configuration

Setup a count of VoIP-Trunk channels for VoIP trunk to OfficeRoute



The 'VoIP: Parameters' window shows the 'General' tab. The 'Number of VoIP-Trunk Channels' is set to 4, highlighted with a red box. Other settings include 'Number of VoIP-Subscriber Channels' set to 4, 'IP Quality of Service' set to '00000000 DIFFSERV_PHB_BE', and 'VoIP Protocol' set to 'SIP'. The 'RTP Direct' checkbox is unchecked.

Choose Trunk group and check Public trunk checkbox. Change Link Category settings

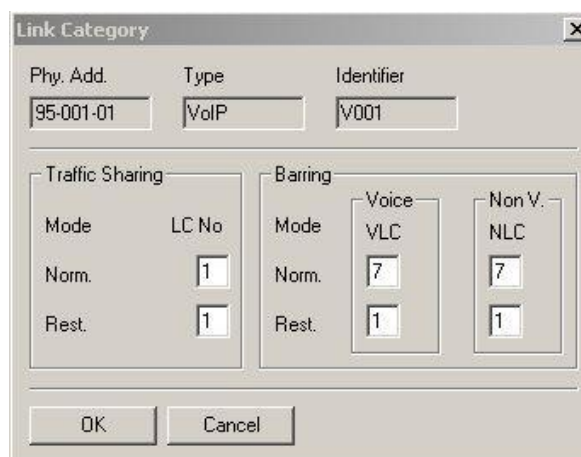


The 'List of Accesses' window shows a table with the following data:

Phy. Add.	Acc. Type	Identifier	No of Chan.
01-009-01	TO	N001	2
01-010-01	TO	N002	2
01-011-01	TO	N003	2
01-012-01	TO	N004	2
95-001-01	VoIP	V001	4

The 'VoIP-Trunk' window shows the configuration for the selected trunk. The 'Public trunk' checkbox is checked, highlighted with a red box. The 'Link-Cat.' button is also highlighted with a red box.

At Link Category menu setup all necessary parametres



The 'Link Category' window shows the configuration for the selected trunk. The 'Phy. Add.' is '95-001-01', 'Type' is 'VoIP', and 'Identifier' is 'V001'. The 'Traffic Sharing' section has 'Mode' set to 'Norm.' and 'LC No' set to 1. The 'Barring' section has 'Mode' set to 'Norm.' and 'VLC' set to 7, and 'Non V.' set to 1.

Assign Trunk Groups

List of Trunk Groups

Index
 No.
 Type
 Name

Index	No.	Type	Name
1		Cyclic	
2	500	Cyclic	
3	501	Cyclic	
4	502	Cyclic	
5	503	Cyclic	
6	504	Cyclic	
7	505	Cyclic	
8	506	Cyclic	
9	507	Cyclic	
10	508	Cyclic	
11	509	Cyclic	
12	510	Cyclic	

Return

Trunk Groups : Details

Index	No.	Type	Name
1		Cyclic	

Phy. Add.	Acc. Type	Identifier	No of Chan.
95-001-01	VolP	V001	4

OK Cancel

Setup Numbering plans table. As Base settings choose ARS

Numbering Plans

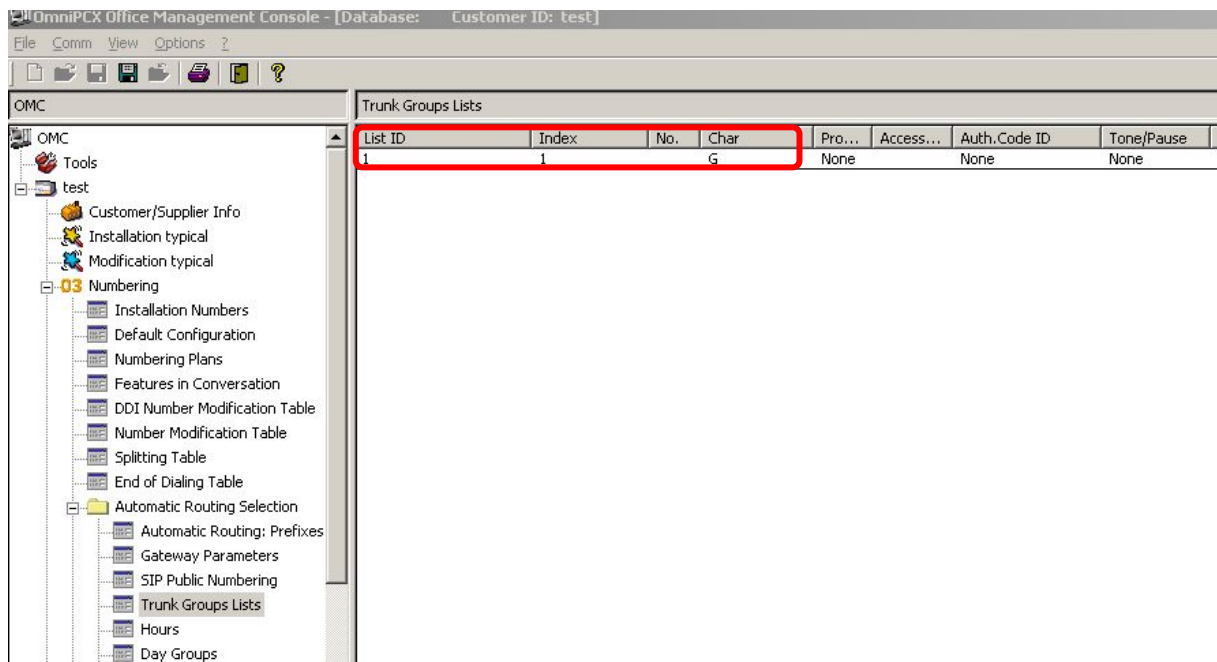
Internal Numbering Plan
 Public Numbering Plan
 Restricted Public Numbering Plan
 Private Numbering Plan

Function	Start	End	Base	NMT	Priv	Fax
Main Trunk Group	0	0	ARS	Drop	No	
Protect Communication	*84	*84		Drop	No	
Lock/Unlock	*85	*85		Drop	No	
Programming Mode	*87	*87		Drop	No	
Account Code New	*33	*33		Drop	No	
Main Trunk Group	0	0	ARS	Drop	No	
Subscriber	110	139	110	Drop	No	
Subscriber	200	299	200	Drop	No	
Subscriber	300	399	300	Drop	No	
Secondary Trunk Group	500	534	1	Drop	No	
Hunting Group	540	565	540	Drop	No	
ACD Prefix	80	81	0	Drop	No	
Attendant Call	9	9	9	Drop	No	

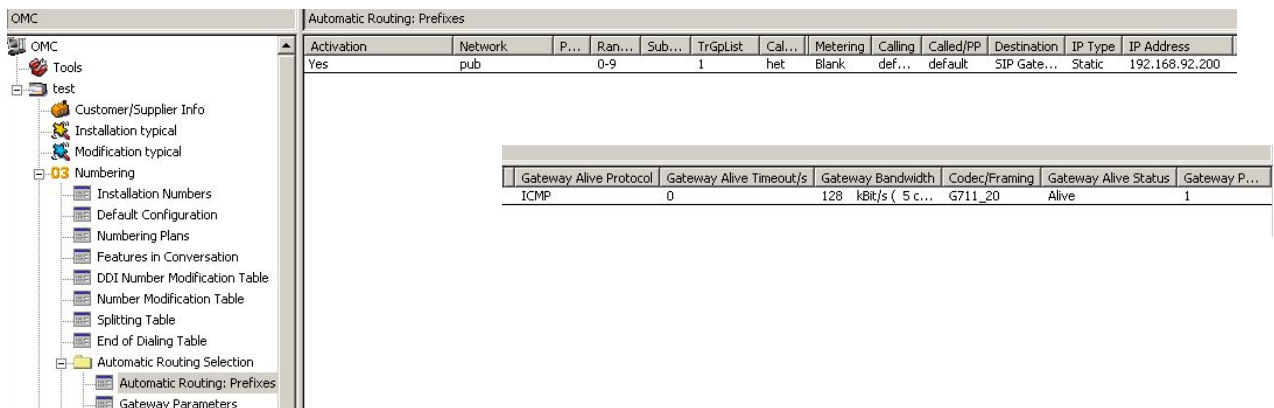
OK Cancel

Check Public numbering plan for incoming calls.

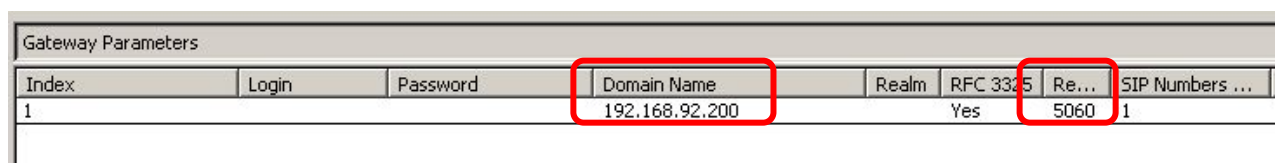
At Trunk Groups List assign List ID with Index at menu **Numbering** → **Automatic Routing Selection** → **Trunk Groups List**



Setup IP address of OfficeRoute, codecs, bandwidth and GW keepalive timeout for VoIP trunk at menu **Numbering** → **Automatic Routing Selection** → **Automatic Routing: Prefixes**



At menu **Numbering** → **Automatic Routing Selection** → **Gateway Parametres** setup listening port 5060. If you want to use OfficeRoute with different listening port (for example 5065), just setup the number of the port here.





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