

Innovaphone PBX (IP302) - How to interconnect with Innovaphone PBX (IP302)?

- 2N[®] VoiceBlue Next has these parameters:
 - IP address 192.168.22.42
 - Incoming port: 5060
- Innovaphone PBX parameters:
 - IP address 192.168.22.227
 - Incoming port: 5060

2N[®] VoiceBlue Next settings

1. SIP trunk interconnection

For the settings of the trunk between the 2N[®] 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 PBX. You can specify the IP address and from which SIP packets will be accepted. In case you leave there 0.0.0.0 it will be open for all traffic.



The screenshot shows the 'Gateway configuration' page for a 2N Gateway. The 'IP addresses' section is highlighted, showing the following settings:

Setting	IP Address	Port	Action
SIP proxy (IP→GSM):	192.168.92.246	5060	Set default port
SIP proxy (GSM→IP):	192.168.92.246	5060	Set default port
SIP registrar:	0.0.0.0	5060	Set default port
STUN server:	0.0.0.0	3478	Set default port

Two callouts provide additional context:

- A callout pointing to the 'SIP proxy (IP→GSM)' row states: "The IP address to which the traffic is send".
- A callout pointing to the 'SIP proxy (GSM→IP)' row states: "The IP address and port from which SIP packets will be accepted".

2. Configuration of the LCR (Least Cost Routing)

The GSM operator has e.g. in our country prefix 7 and 8 with a 9-digit number. The setting is below.

Gateway | Update | Restart

Prefixes

GSM prefix lists

Prefixlist 1 | Prefixlist 2 | Prefixlist 3 | Prefixlist 4 | Prefixlist 5 | Prefixlist 6 | Prefixlist 7 | Prefixlist 8

Basic settings

GSM network ID:

Default count of digits:

Table of replaced prefixes

Only 0123456789*#+ characters are allowed

Prefix:

Replace with:

Add

Remove

Remove all

Table of accepted prefixes

Only 0123456789*#+ characters are allowed

Prefix:

[Digits count]:

Add

Remove

Remove all

Logout

You need to create LCR rule for defined prefixes. The GSM group defines a way for the outgoing call routing. An appropriate SIM card is selected based on the GSM groups assignment.

Gateway | Update | Restart

LCR table

Prefix list	Time limitation	Weekend usage	Mbx. length of call	Groups	Add	Remove all
1/	0:00/24:00	Use as in week	Off	2	Edit	Remove
2/	0:00/24:00	Use as in week	Off	1	Edit	Remove

Logout

Gateway control

Gateway configuration


- System parameters
- VoIP parameters
- GSM basic parameters


GSM groups assignment

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

3. 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)





Gateway

Gateway | Update | Restart

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
- Ethernet configuration
- Login configuration
- Web configuration
- Report configuration

Configuration backup

Logout ⓘ

GSM outgoing groups

1. GSM group
2. GSM group

General settings

Delay for CONNECT [s]:	Off ▼
Minimal ring duration to send "SMS at no answer" [s]:	Off ▼
Delay for ALERTING [s]:	4 ▼
Minute parameter:	Count of minutes ▼
Day of deleting statistics in group (every month):	1 ▼
Generate virtual ring tone:	<input checked="" type="checkbox"/>
Call length counting:	Seconds ▼

Disconnect call

SIM limit exceeded:	<input type="checkbox"/>
Time limit exceeded:	<input type="checkbox"/>
No ALERTING before CONNECT:	<input type="checkbox"/>

Send CLIP from VoIP to GSM/UMTS

Attention! Must be supported by your GSM / UMTS operator. In other case outgoing calls to GSM / UMTS can be rejected!

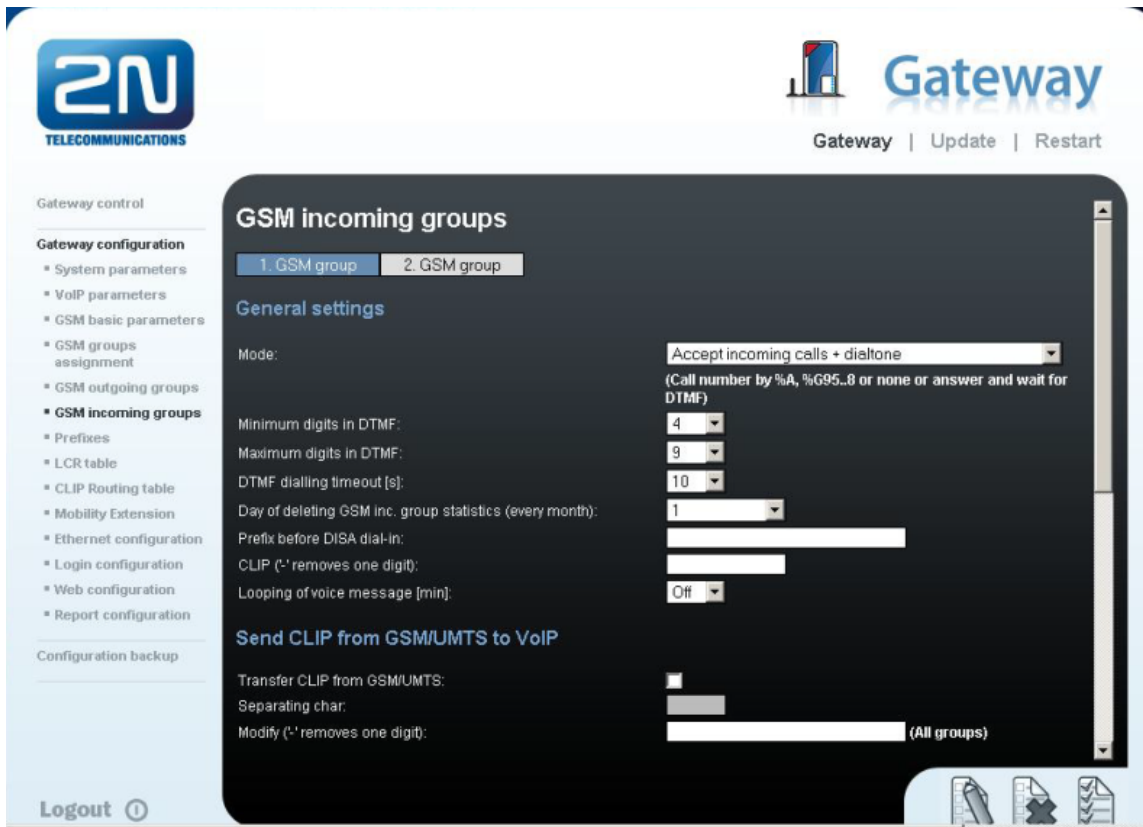
4. Incoming calls

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

GSM groups assignment

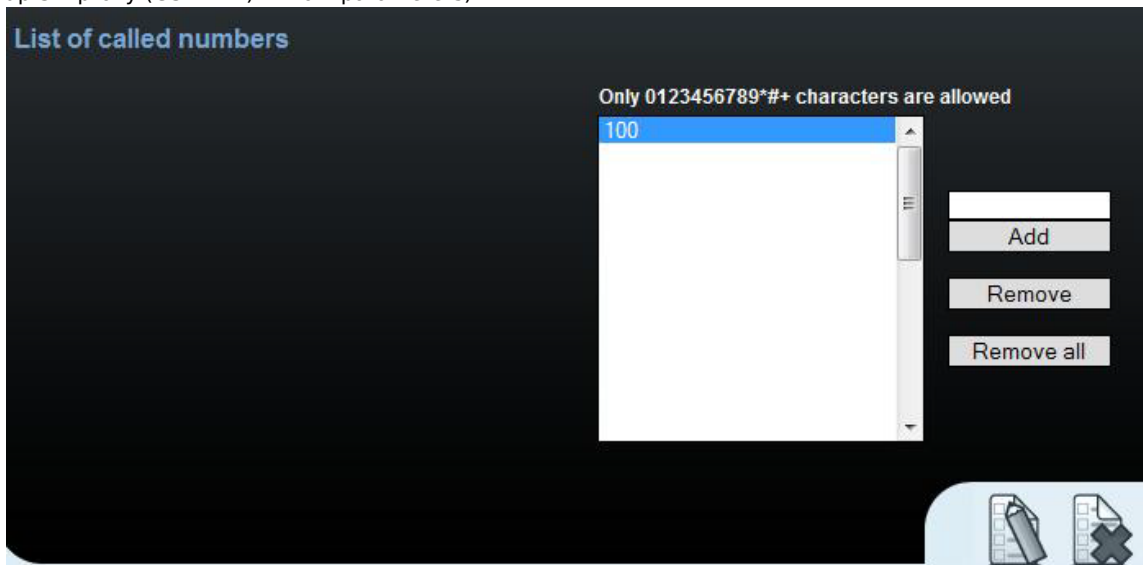
Module:	Outgoing:	Incoming:
0. module	1. Group ▼	1. Group ▼
1. module	2. Group ▼	1. Group ▼

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



The screenshot shows the 'Gateway' configuration page for 'GSM incoming groups'. The interface includes a sidebar with navigation options like 'Gateway control', 'Gateway configuration', and 'Configuration backup'. The main content area is titled 'GSM incoming groups' and has two tabs: '1. GSM group' (selected) and '2. GSM group'. Under 'General settings', the 'Mode' is set to 'Accept incoming calls + dialtone'. Other settings include 'Minimum digits in DTMF' (4), 'Maximum digits in DTMF' (9), 'DTMF dialling timeout [s]' (10), and 'Day of deleting GSM inc. group statistics (every month)' (1). There are also fields for 'Prefix before DISA dial-in', 'CLIP (-' removes one digit)', and 'Looping of voice message [min]' (Off). A section titled 'Send CLIP from GSM/UMTS to VoIP' contains checkboxes for 'Transfer CLIP from GSM/UMTS', 'Separating char.', and 'Modify (-' removes one digit)'. At the bottom right, there are icons for editing and deleting.

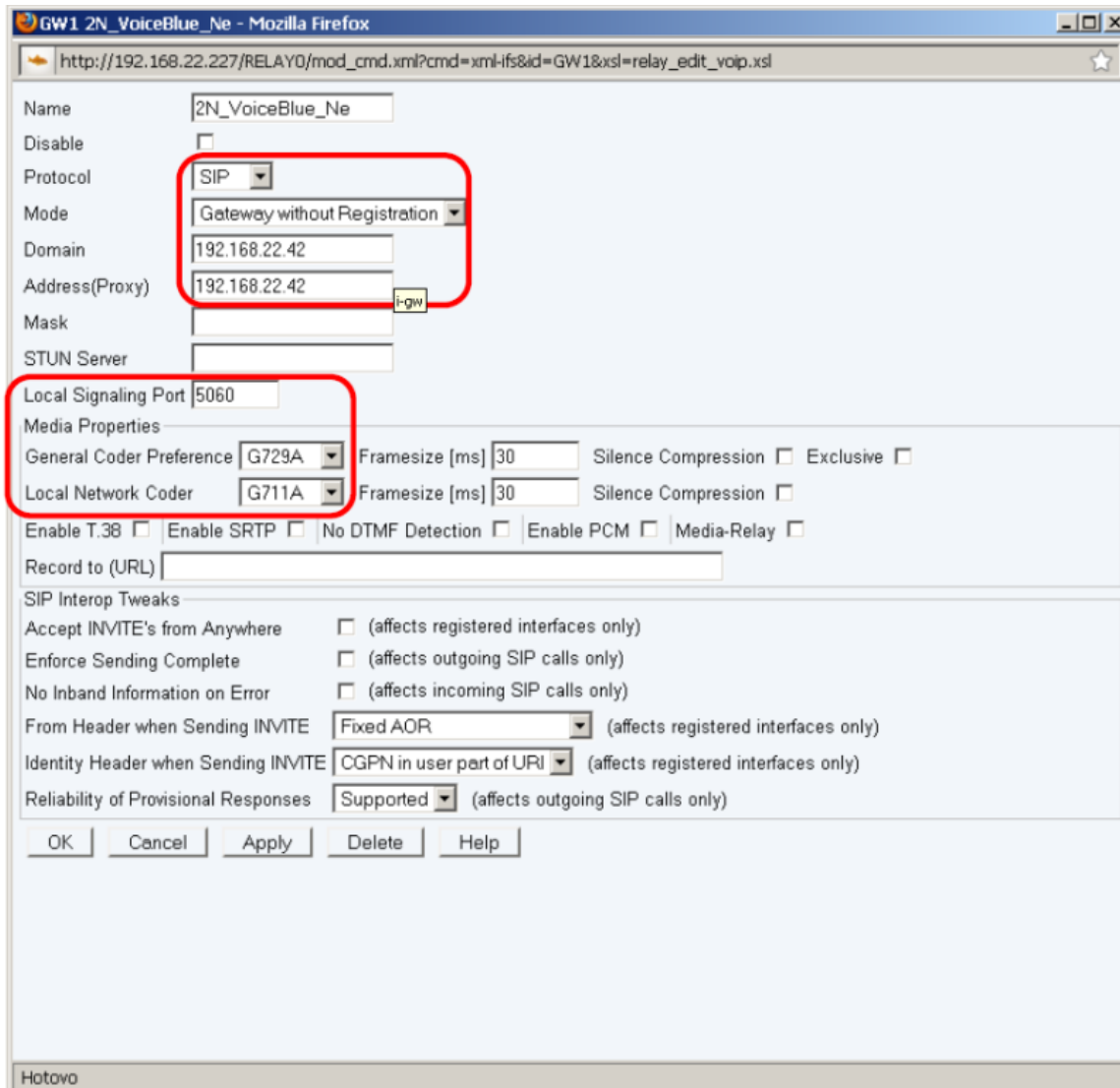
You can define the list of called numbers which will be automatically dialed after DTMF dialing timeout if the customer does not press any button within the specified time. From the configuration you can see 10 seconds for DTMF dialing and after that the call will be routed to the extension 100 to your PBX (if you set up SIP proxy (GSM->IP) in VoIP parameters).



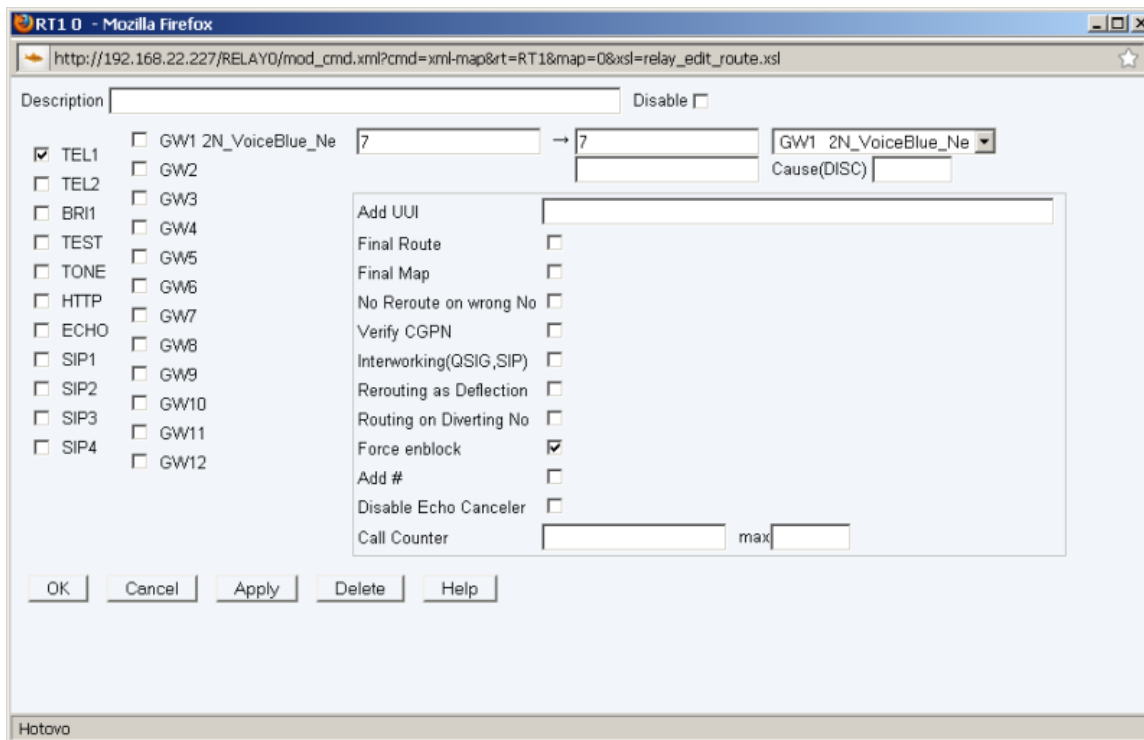
The screenshot shows the 'List of called numbers' configuration page. It features a text input field containing '100'. Above the field, a warning message states: 'Only 0123456789*#+ characters are allowed'. To the right of the list, there are three buttons: 'Add', 'Remove', and 'Remove all'. At the bottom right, there are icons for editing and deleting.

Innovaphone PBX settings

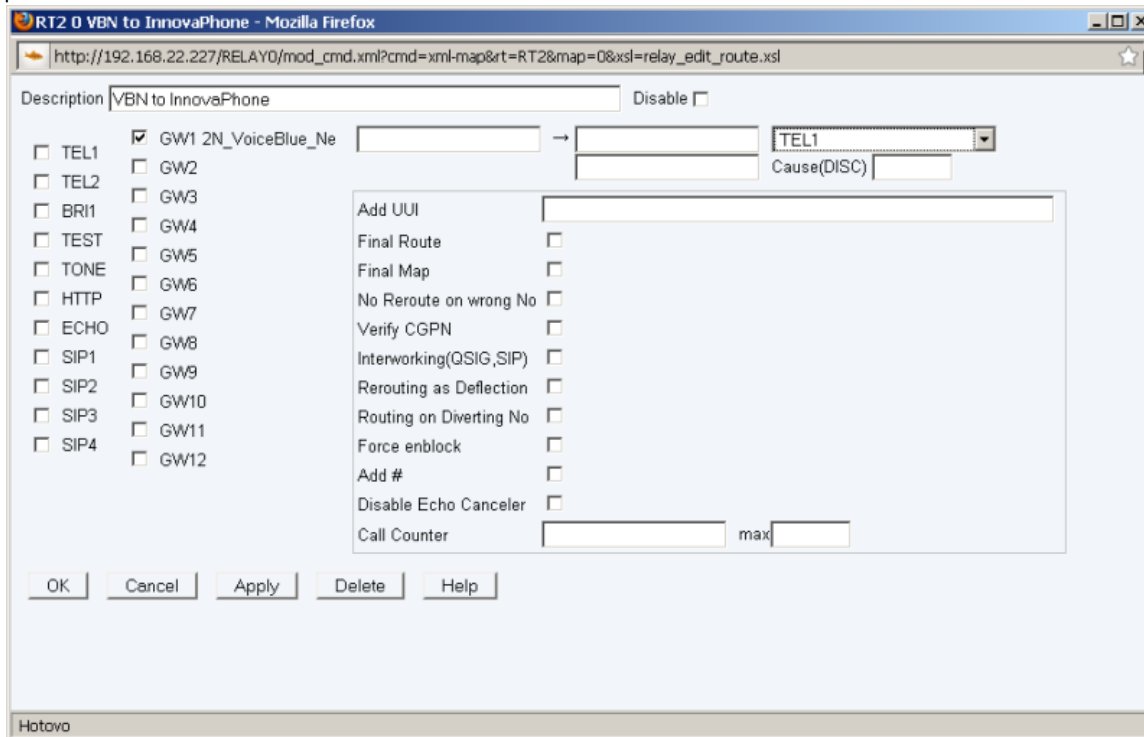
1. You need to set up Domain and Address for the IP address of the 2N[®] VoiceBlue Next. Communication protocol is SIP with the Mode: "Gateway without registration).




2. Then you need to set up prefixes (routing table) which will be routed to the 2N® VoiceBlue Next. In the example there is defined prefix 7 only.



3. In the picture below there is the setting for incoming calls to Innovaphone PBX. The call is directed to the phone 1.



4. In the picture below there is the complete setting for the Innovaphone PBX routing.

 192.168.22.227: innovaphone IP302

Configuration		General Interfaces SIP GK Routes CDR0 CDR1 Calls			
General					
IP					
ETH0					
ETH1					
LDAP					
TEL1					
TEL2					
BRI1					
Administration					
PBX					
Gateway					
Download					
Upload					
Diagnostics					
Reset					

From	To	Counter	CGPN	Maps
TEL1	7 → 7 GW1:2N_VoiceBlue_Ne	b	→	
GW1:2N_VoiceBlue_Ne	→ TEL1		→	VBN to InnovaPhone

More product information:

2N® VoiceBlue Next (Official Website 2N)