How to configure the LCR table of PRI gateway in "five" steps

Situation...

Let's say we have SIM cards of two GSM operators (16 pcs. for each one):

The first one, we will call it N_5 , it has following prefixes (602, 606, 607, 723, 724) and it requires you to dial the number from your mobile phone with the international prefix (+420). All numbers have a nine digit length with the prefix but without the international prefix The second one, we may call it NobiCell, has the following prefixes (901, 902, 907, 909) and requires you to dial the number from your mobile phone with the prefix (0). All numbers have a nine digit length with the prefix (1) and requires have a nine digit length with the prefix (1).

1st step We have to assign modules to two **GSM outgoing groups** (for each operator one).

The first step we have to do is place the SIM cards into the SIM holders. We will start with modules 0-15 using the N_5 operator SIMs. Modules 16-31 will follow the same procedure but using the NobiCell SIMs.



2nd step Configuration of outgoing groups.

We have to select the option **SIM1** for the **Mode of switching SIM card** (the SIM inserted in the SIM holder 1 will be used all the time). In the parameter **CLIR** select option **Factory**.

The settings written above will configure both GSM outgoing groups. For switching between groups you can use the tabs.



 3^{rd} step We have to create two network lists, the first one for N₅ and the second one for NobiCell.

N₅ network list:

We configure the normalization of Called party number in the **Table of replaced prefixes** (the number in front of the slash mark is replaced by number behind the slash mark, if there is not any number in front of the slash mark it is equaled to "everything").

We also have to fill in the **Table of prefixes** with all prefixes of the N_5 operator. Because all numbers are 9 digits length, it is not necessary to specify for each prefix, we can use the parameter **Default number of digits** and fill there the value **9**.



NobiCell network list:

We configure the normalization of Called party number in the **Table** of replaced prefixes (the number in front of the slash mark is replaced by number behind the slash mark, if there is not any number in front of the slash mark it is equaled to "everything").

We also have to fill in the **Table of prefixes** with all prefixes of the N_5 operator. Because all numbers are 9 digits length, it is not necessary to specify for each prefix, we can use the parameter **Default number of digits** and fill there the value **9**.



 4^{th} step We have to configure lines in the LCR table where we bind together **Outgoing GSM groups** with **Network lists**. Click on **ADD** button to add the first line and configure it the following way for the N₅:

Enter LCR parameter	rs		
Network list	Network list 1	GSM Groups	•
Time restriction of use -		None	-
From: 00:00	To: 24:00	None	
Enable on weekends		None	
C Use the above set	t time	None	<u> </u>
Max. length of call [min]	: 0 - (0=no limit)	None	
	· · ·	None	-
0.K. Ca	ancel		

Click on **ADD** button again to add the second line and configure it the following way for the NobiCell:

Enter LCR parameters			
Network list	Network list 2	GSM Groups	•
Time restriction of use -		None	-
From: 00:00	To: 24:00	None	-
 ✓ Enable on weekends ✓ Use whole weekend ✓ Use the above set time Max. length of call [min]: 0 		None	-
		None	-
		None	-
	<u>.</u>	None	-
0.K. Ca	incel		

Now you can see two LCR lines in the LCR table:

📮 StarGate program					
File Gateway Gateway control Setting	g Help				
	🖌 📲 🖿 🎇 🚺 😢				
Topics Alphabetical glossary					
System					LCR
VoIP interface	Networ Time limitation	Weekends	GSM Gr	Limit	
GSM	1 00:00 - 24:00	Whole weekends	1	No limit	
- C LCB	2 00:00 - 24:00	Whole weekends	2	No limit	
Autorouting/Auto callback					

5th step We have to connect the phone handset to the AUX card and make a test call. The menu for test calls we can find under Gateway control:

📕 StarGate p	rogram		
File Gateway	Gateway control Setting Help		
Topics Alphat	Diagnostics Info about actual calls Connection state Buffer state Tracing GSM monitor info Export statistics to file Delete statistics from gate Delete statistics of GSM modules Online commands		imitat 24:00 24:00 24:00
	Data from gateway Data into gateway Reset Factory reset	F3 F2	
	Record AUX		
	Date and time Change user name and password Set keylock		
	Save call data Save call data and delete		
	Test calls		
	Voice message		
	Terminal		

In the window select the option "To GSM (according to the called prefix). To the space **called number** the write number you want to dial (use the form of the called party number in which StarGate receives it from the PBX).

Click on the Dial button.

The call will be established to mobile phone number written in the line **called number**.

🖡 Test calls	
Test call from AUX test interface Rotating B-channels Via B-channel numb Via GSM module number O Connect 2 GSM modules O Called number: Joint Limit: (O=off) Dial	Connect following incoming call First incoming call from ISD Incoming call from B-cannel nurr From GSM module number First incoming call from GSM Connect connect
☐ Capture in file File n	ame: C:\Program Files\2N Telekomunika
Stop tracing Clear	Leave