



OpenScape Business V2

How To Configure SIP Trunk for your ITSP

KPN VoiPConnect

Table of Contents

Configuration Data	3
Configuration Wizard	4
Internet Telephony configuration	6
Define bandwidth (# Trunks).....	9
Special phone numbers.....	9
Multisite configuration (*)	11
Additional manual Configuration	13
LCR changes.....	13

Table of History

Date	Version	Changes
2016-05-02	1.0	First version
2016-10-26	2.0	Changed to latest setting
2017-06-22	2.1	Changes for V2R3
2024-09-06	2.2	editorial changes

Note: The basis for this document is the current OpenScape Business at the time of certification. Since OpenScape Business is constantly developed, input masks and interfaces as well as requirements may change in the future. The settings and entries described here then apply accordingly.

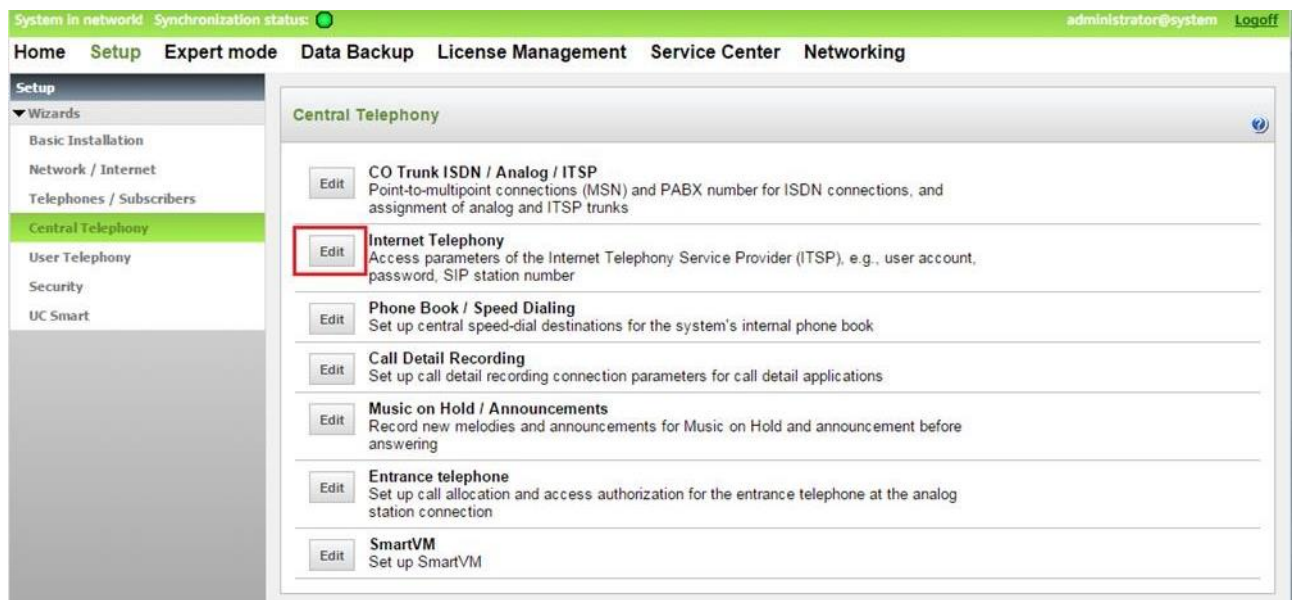
Configuration Data

Information from ITSP KPN Telecom NL provided:

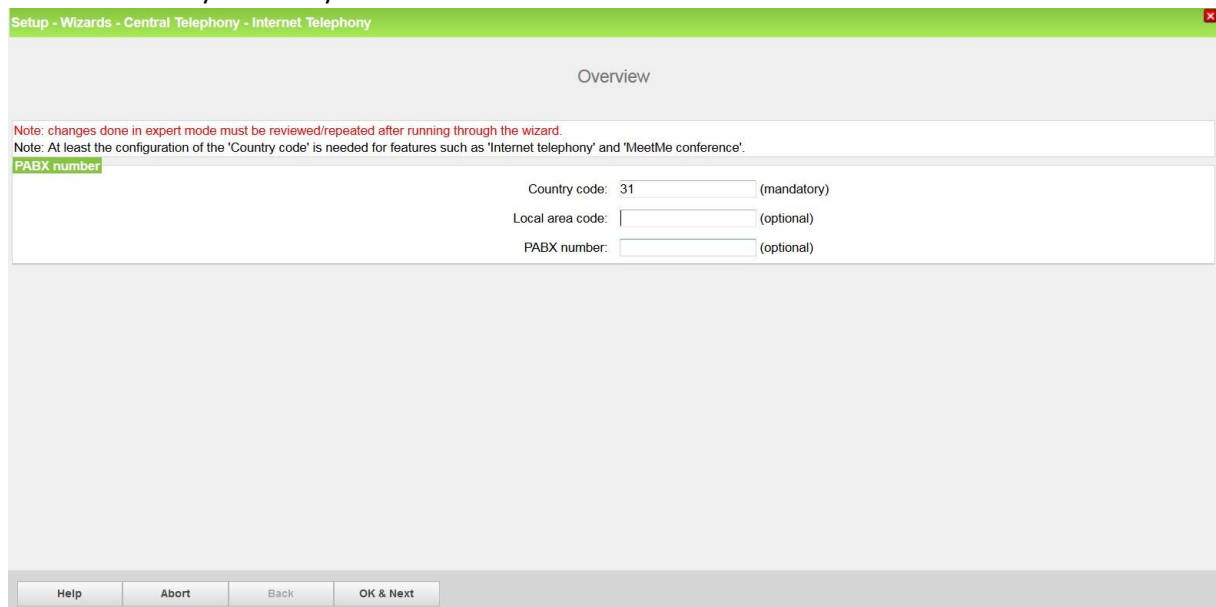
Name of Customer Related Data	Example	Used in Field of OSBiz-WBM	Needs to be configured
Call Number:	(0311) 40463x (DDI-10)		
Number of DIDs	10		
Number of DID digits	9		
SIP Domain	kpn.nl	SIP Domain Name:	
SBC_IP:	10.122.216.84 UDP 5060	SIP Provider Proxy	x
Account (gebruikersnaam):	31311404630	Internet Telephony Station	x

Configuration Wizard Internet Telephony

Go to „Central Telephony – Internet Telephony“



The overview page appears for entering the location data. The most flexible type of configuration is to enter the Country code only.

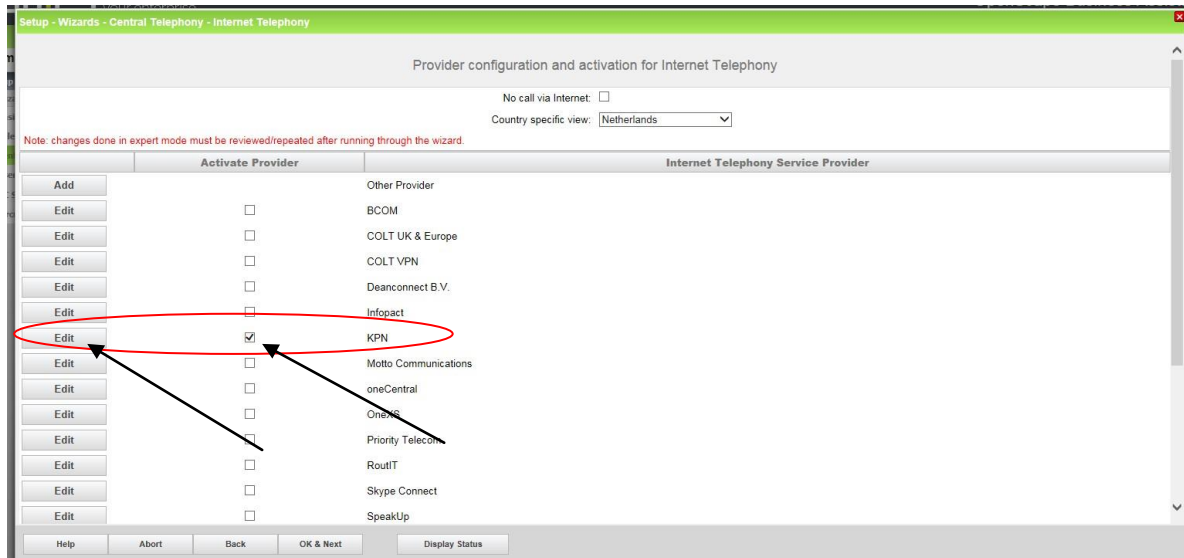


As outgoing number only the port assigned phone numbers are used.
In this case, remaining digits are filled in DID field.
Click [OK & Next]

Provider configuration and activation for Internet Telephony

No call via Internet -> uncheck

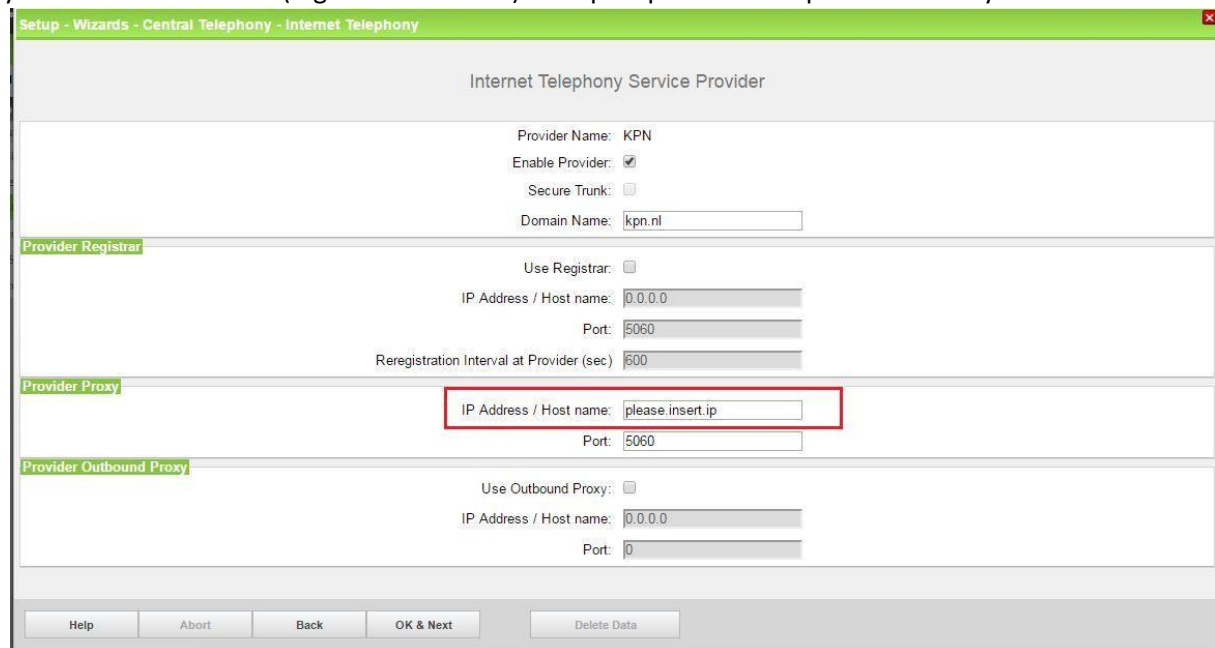
Use County specific view: Netherlands and select KPN.



Activate Provider and click on [Edit].

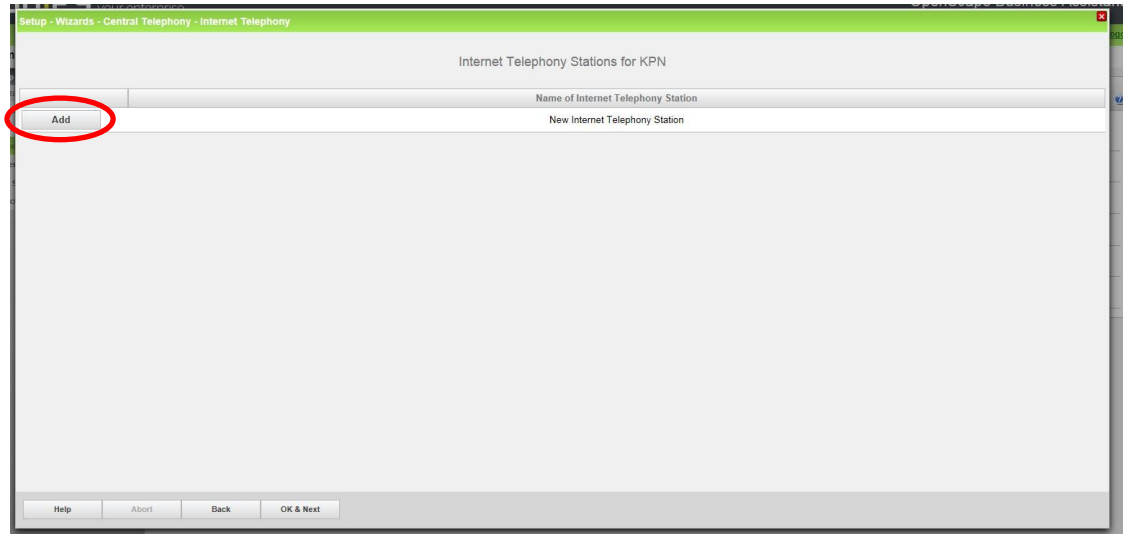
Click "OK & Next"

On the next page the preconfigured data are shown. On this page you MUST enter the SBC_IP address you received from KPN (e.g. 10.122.216.84) Transport protocol and port are already defined.



Internet Telephony configuration

In this dialog the specific customer SIP Userdata will be configured.



Click on [Add].

Data provided by ITSP KPN as described in page 3 taken from the relevant table are filled in here.

Internet telephony station: SIP Username is inserted here (gebruikersnaam)

Authorization name: SIP Username is inserted here (gebruikersnaam), although it's not necessary

Password: Password is not required (wachtwoord)

Internet Telephony Station for KPN

Internet telephony station: 31311404630

Authorization name: 31311404630

Password:

Confirm Password:

Call number assignment

Use public number (DID)

Use internal number (Callno) / Single entries

Use internal number (Callno) / Range entry

If using 'configurable clip' you have to change the configuration to 'Use public number (DID)' here!
Changing trunk parameters in case of internal subscriber no. is not allowed!

Default Number: +31311404630

MEX Number:

Default Number
ITSP as primary CO access
Enter one of the call numbers supplied by your network provider here. This will be used in outgoing calls as the calling party number in case no other number is available for the respective call.
All call numbers supplied by your network provider are to be entered within the trunk and telephones configuration (DID field) primary CO access.

MEX Number
To use the feature Mobile Extension (MEX) you have to enter a MEX number here. An entered MEX number will only be stored if the ITSP is marked as 'active'.
For use of MEX it is also necessary to configure a DISA number.

Help Abort Back OK & Next Delete Data

Hint: Default number should be in the same format as the rest of the DID numbers which are sent from Osbiz in outgoing calls in SIP From header. This number is used when there is no DID configured at the station which initiates the outgoing call and there is no Intercept with configured DID defined.

Click [OK & Next].

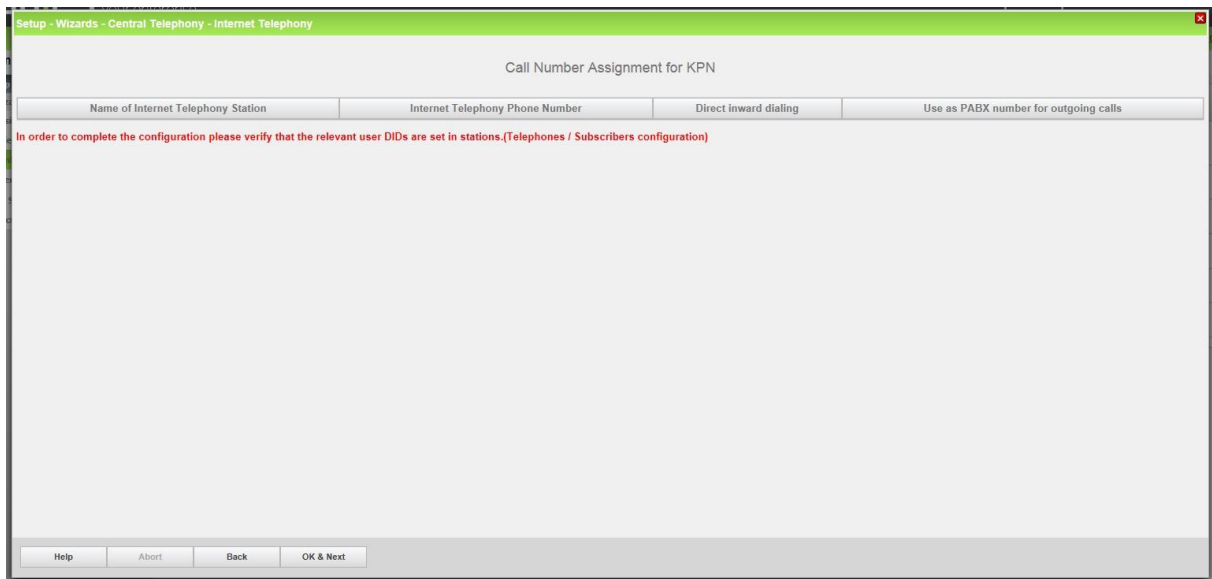
Internet Telephony Stations for KPN

Name of Internet Telephony Station
31311404630

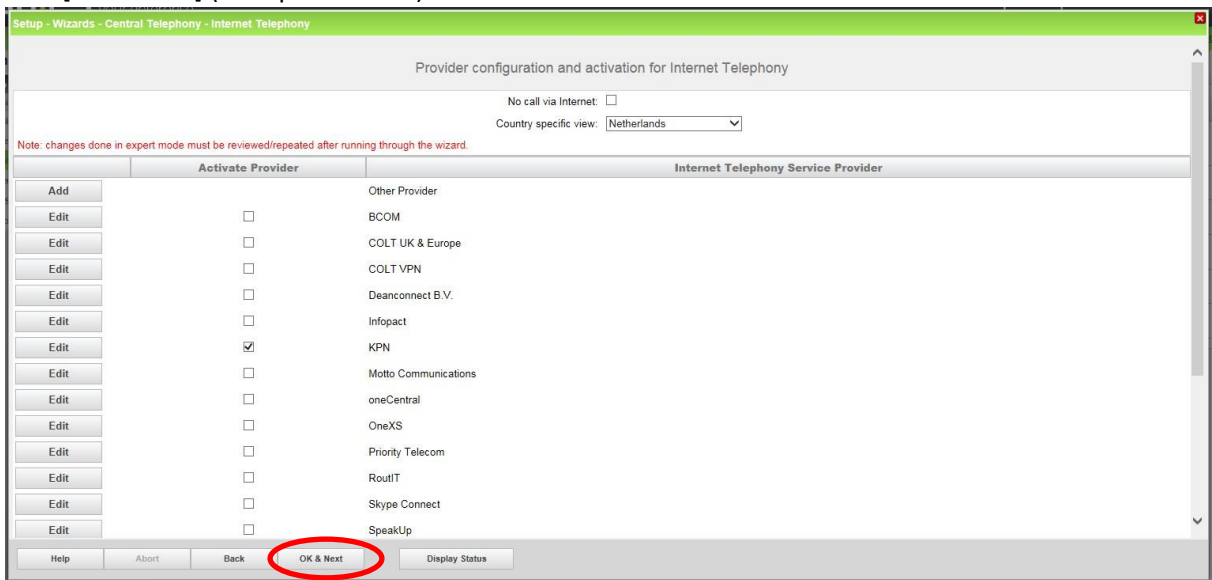
Edit

Help Abort Back OK & Next

Click [OK & Next].



Click [OK & Next] (no input needed)



Click [OK & Next]

Define bandwidth (# Trunks)

In the next part the number of simultaneous calls via the SIP trunk will be defined. The calculation of the number of trunks is done by the wizard automatically depending on the bandwidth. For each 128K, one trunk is created.

Settings for Internet Telephony

Simultaneous Internet Calls
Available Lines for ITSP: 190
Please enter in field 'Upstream up to (Kbit/sec)' the Upstream of your Internet connection communicated by your Provider. You have typed in
Upstream up to (Kbps) = 1280
in the 'Change Feature -> Internet Telephony' Assistant. This upstream allows you to conduct up to 10 Internet phone calls simultaneously. If the call quality deteriorates due to the network load, you will need to reduce this number of simultaneous calls.
The number of simultaneous Internet Calls also depends on the licensing.

Upstream up to (Kbps):
Number of Simultaneous Internet Calls:

Line assignment

Internet Telephony Service Provider	Configured Lines	Assigned Lines
KPN	10	<input type="text" value="10"/>

Help Abort Back OK & Next

Click [OK & Next]

Special phone numbers

In this dialog it is possible to route special phone numbers. When special phone numbers are not supported over the ITSP route it is possible to change this here.

Special phone numbers

Note:
Please make sure that all special call numbers are supported by the selected provider without fail.

Special phone number	Dialed digits	Dial over Provider
1	<input type="text" value="00112"/>	<input type="text" value="KPN"/>
2	<input type="text"/>	<input type="text" value="KPN"/>
3	<input type="text"/>	<input type="text" value="KPN"/>
4	<input type="text"/>	<input type="text" value="KPN"/>
5	<input type="text"/>	<input type="text" value="KPN"/>
6	<input type="text"/>	<input type="text" value="KPN"/>
7	<input type="text"/>	<input type="text" value="KPN"/>
8	<input type="text"/>	<input type="text" value="KPN"/>
9	<input type="text"/>	<input type="text" value="KPN"/>
10	<input type="text"/>	<input type="text" value="KPN"/>
11	<input type="text"/>	<input type="text" value="KPN"/>
12	<input type="text"/>	<input type="text" value="KPN"/>
13	<input type="text"/>	<input type="text" value="KPN"/>
14	<input type="text"/>	<input type="text" value="KPN"/>
15	<input type="text"/>	<input type="text" value="KPN"/>

Help Abort Back OK & Next

Click [OK & Next]

On next page status of ITSP is displayed.

Hint: Please consider for ITSP connection with no Registration, provider status will be shown always green.

	Provider	Status	User
<input type="checkbox"/>	BCOM	Disabled	
<input type="checkbox"/>	Circuit UTC (Cloud)	Disabled	
<input type="checkbox"/>	COLT UK & Europe	Disabled	
<input type="checkbox"/>	COLT VPN	Disabled	
<input type="checkbox"/>	Deanconnect B.V.	Disabled	
<input type="checkbox"/>	Infopact	Disabled	
<input checked="" type="checkbox"/>	<input type="button" value="Restart"/> KPN	Enabled	31311404630 registered
<input type="checkbox"/>	Motto Communications	Disabled	
<input type="checkbox"/>	oneCentral	Disabled	
<input type="checkbox"/>	OneXS	Disabled	
<input type="checkbox"/>	Priority Telecom	Disabled	
<input type="checkbox"/>	RoutIT	Disabled	
<input type="checkbox"/>	Skype Connect	Disabled	
<input type="checkbox"/>	SpeakUp	Disabled	
<input type="checkbox"/>	Tele2 NL-ASD	Disabled	
<input type="checkbox"/>	Tele2 NL-RT	Disabled	
<input type="checkbox"/>	T-Mobile (NL)	Disabled	
<input type="checkbox"/>	Verizon	Disabled	
<input type="checkbox"/>	Vodafone Anlagenanschluss R3	Disabled	
<input type="checkbox"/>	Vodafone NL	Disabled	
<input type="checkbox"/>	Voiceworks	Disabled	

Click [Next]

After this status page two more dialogs with „Exchange Line Seizure“ and an overview with all configured „Outside line Seizure“ are displayed.

Multisite configuration (*)

Multi-site refers to the integration of currently up to 8 different local area codes in a single system via the same ITSP. (For example, numbers from Rotterdam 010 xxx, Amsterdam 020, etc.). All up to 8 area codes must be within one country.

Additional configuration notes: (*) : Due to technical limitations in test environment these settings are not tested during certification.

DID configuration

In general the DID has to be configured in long format. E.g. OS60, 857920260 for a user regionfree, OS40 367920003 for user in Almere.

The country code 31 has to be configured as described before.

Callno	First Name	Last Name	Name	DID	Type	Fax Callno	Fax DID	Class of service	Call pickup
201	-	-	OS60	857920260	System Client	301	857920269	Internationaal	-
202	-	-	OS40	367920003	System Client	-	-	Internationaal	-
203	-	-	Giga N300 SL400	857920262	SIP Client	-	-	Internationaal	-
204	-	-	DCK Phone softw	857920263	SIP Client	-	-	Internationaal	-
-	-	-	-	-	No Port	-	-	Internationaal	-
-	-	-	-	-	No Port	-	-	Internationaal	-
-	-	-	-	-	No Port	-	-	Internationaal	-
-	-	-	-	-	No Port	-	-	Internationaal	-
-	-	-	-	-	No Port	-	-	Internationaal	-

Additional manual Configuration

LCR changes

Important "Dial rule" for local calls

The screenshot shows the 'Expert mode - Telephony Server' interface. On the left is a navigation menu with 'Dial rule' selected. The main area is titled 'Dial Rule' and contains a table with the following data:

	Rule Name	Dial rule format	Network access	Type
1	CO	A	Main network supplier	Unknown
2	SIP	A	Main network supplier	Unknown
3	SIP local	HE2A	Main network supplier	Unknown
4	MEB	E1A	Corporate Network	PABX number
5	IP-Network	A	Corporate Network	Unknown
6	Multi-Location	BA	Corporate Network	Unknown
7	Gateway call	E1A	Corporate Network	Unknown
8	COInternat	D0E3A	Main network supplier	Unknown
9			Unknown	Unknown
10			Unknown	Unknown
11			Unknown	Unknown
12			Unknown	Unknown
13			Unknown	Unknown
14			Unknown	Unknown
15			Unknown	Unknown
16			Unknown	Unknown
17			Unknown	Unknown
18			Unknown	Unknown
19			Unknown	Unknown
20			Unknown	Unknown
21			Unknown	Unknown
22			Unknown	Unknown

At the bottom of the table, there is a pagination bar showing 'Page 1 of 11', navigation icons, and 'Items per page 10 25 50 100'. Below the table are 'Apply', 'Undo', and 'Help' buttons.