

OpenScape Business V3

configure SIP Trunk for Virtual-Call

- Austria
- Brazil
- Germany
- Spain
- Switzerland
- United Kingdom

OpenScape Business V3 Mainboard Family
OpenScape Business S

About this document

This configuration guide describes an example of how to set up the SIP trunk **Virtual-Call** as an ITSP connection to the OpenScape Business.

Note: The basis for this document is the current OpenScape Business V3R4. 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.

System	OpenScape Business
Released with Version	V3R4
Virtual-Call	Features & Capabilities
Account (DID/Client)	DID
Multisite	yes - dedicated trunk (multiple registration)
CLIP / CLIR	yes
CLIP no Screening	no
COLP	no
Call Forwarding (302)	yes
DTMF (RFC2833/4733)	yes
Codecs G.722/G.711/G.729	no / yes / no
T.38 Fax	yes
Secure trunk	no

Remarks:

The SIP trunk **Virtual-Call** is released for:

- OpenScape Business V3 Mainboard Family
- OpenScape Business S

OpenScape Business requires call routing via the media unit bundles (RTP proxy) to be activated by **Virtual-Call**.

IP Address Table

No	IP	Type	
1	132.145.244.68	Signaling	SIP Cluster
2			
3	132.145.235.152	MuBundles	Media Unit Bundles
4	132.145.232.74		
5			
6			
7	Media Unit bundles are used in RTP traffic exchange, initiating calls, etc.		
8			

Option for Backup Routing of incoming calls in case of internet failure

CLIP no Screening requires to deactivate the Backup Routing option "Overriding Identity" by the **Virtual-Call** support.

Otherwise, the CLIP number is replaced with the main number.

The ability to send or receive T.38 faxes depends on the characteristics of the remote station and is only available for IP system connections with activated T.38 codec.

Table of Contents

Information.....	5
Trunk Configuration Data provided by Virtual-Call.....	5
Configuration Wizard	6
Internet Telephony.....	6
Define bandwidth (# Trunks).....	11
Special phone numbers.....	12
DID configuration	14
Additional Configuration	15
License.....	15

Table of History

Date	Version	Changes
03.12.2024	1.0	release Virtual-Call mit OpenScape Business V3R4

Information

The **Virtual-Call** SIP-Trunk will be released for the first time with OpenScape Business V3R4.

Trunk Configuration Data provided by Virtual-Call

The configuration data needed to setup the SIP trunk is available in the **Virtual-Call** customer portal <https://my.virtual-call.net>.

Configuration Wizard

Internet Telephony

Go to Central Telephony – “Internet Telephony“

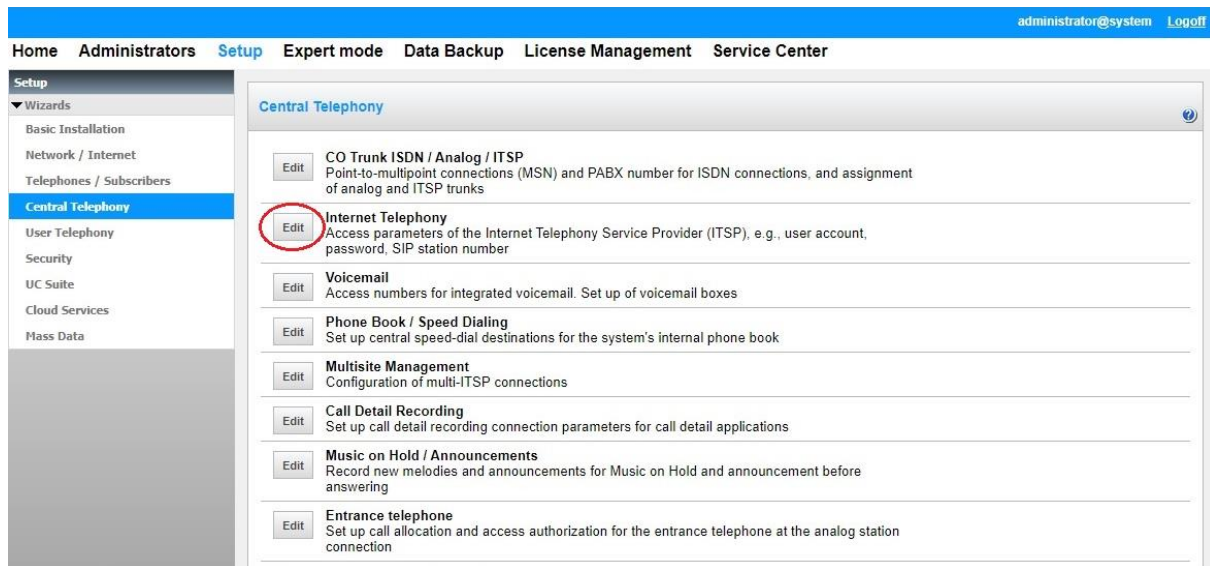


Figure 1

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

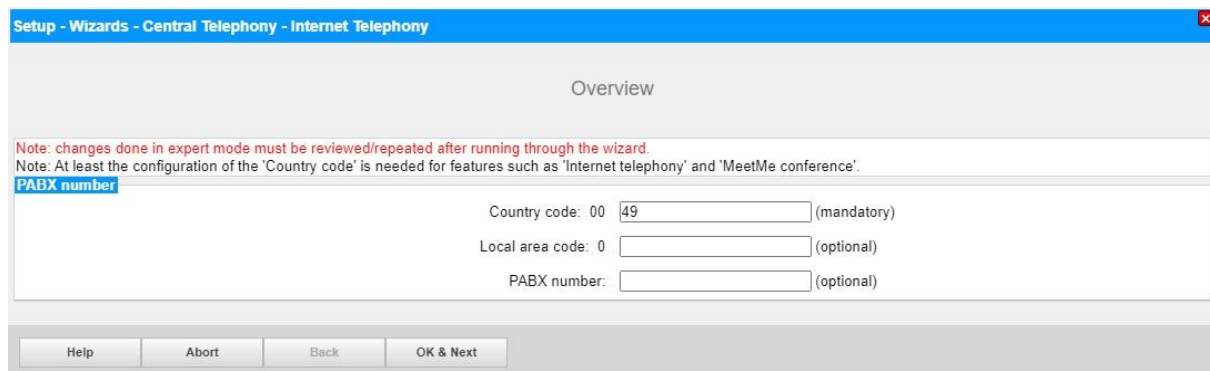


Figure 2

Click [OK & Next].

Provider configuration and activation for Internet Telephony

- No call via Internet -> uncheck
- Use County specific view: **Germany** and select **Virtual-Call**

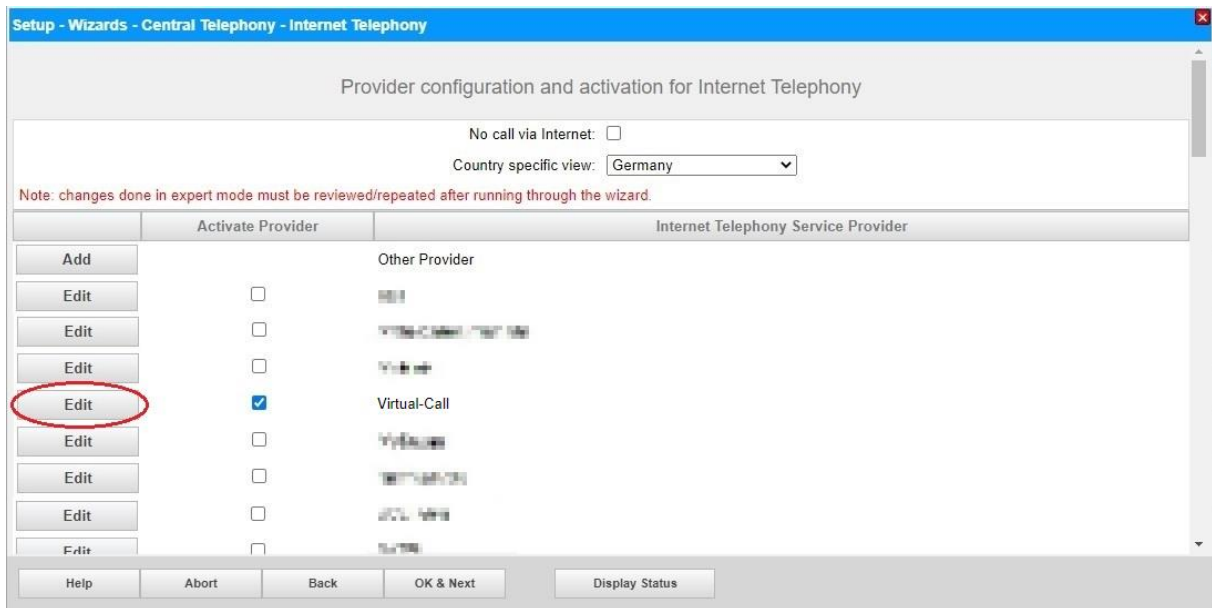


Figure 3

Activate Provider and click on [Edit].

On the next page **Domain Name**, **Provider Registrar** and **Provider Proxy** are preconfigured and need not to be changed (no input needed).

Setup - Wizards - Central Telephony - Internet Telephony

Internet Telephony Service Provider

Provider Name: Virtual-Call
Enable Provider:
Secure Trunk:
Domain Name: trunk.virtual-call.net

Provider Registrar

Use Registrar:
IP Address / Host name: trunk.virtual-call.net
Port: 5060
Reregistration Interval at Provider (sec): 600

Provider Proxy

IP Address / Host name: trunk.virtual-call.net
Port: 5060

Provider Outbound Proxy

Use Outbound Proxy:
IP Address / Host name: 0.0.0.0
Port: 0

Provider Feature

Route optimize active:

Help Abort Back OK & Next Delete Data

Figure 4

On this page the behavior of the features call forwarding can be controlled:

- "Rerouting active" deactivated (default) -> a call forwarding establishes a second connection and control of the call remains in the OpenScape Business.
- "Rerouting active" activated -> Rerouting takes place in the Central Office during a call forwarding (SIP 302) and control of the call remains with the Central Office.

Click [OK & Next].

In the next dialog the specific customer SIP user data will be configured.

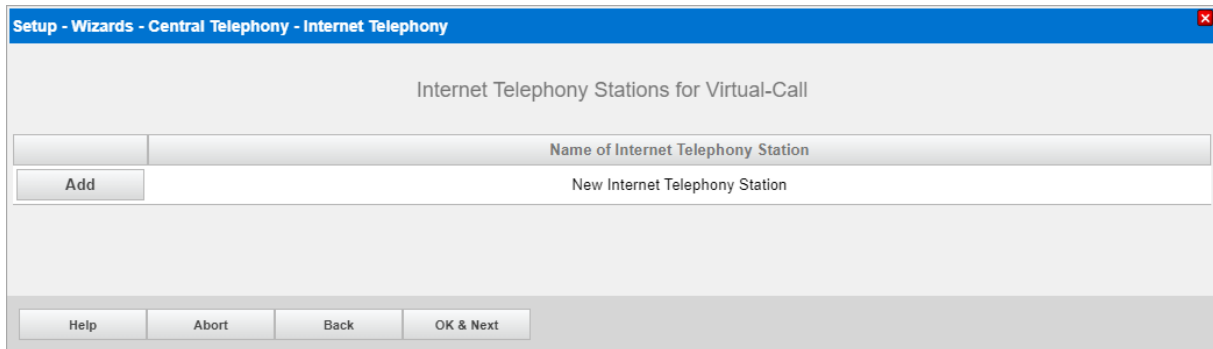


Figure 5

Click on [Add].

Data provided by the **Virtual-Call** via the customer portal.

Internet telephony station: Username is inserted here

Authorization name: Username is inserted here

Password: Password provided by **Virtual-Call**

Default number: Main number of connection. The default number is used as outgoing number when no DDI number is assigned to a station. Usually, the **Lead Number** is entered here.

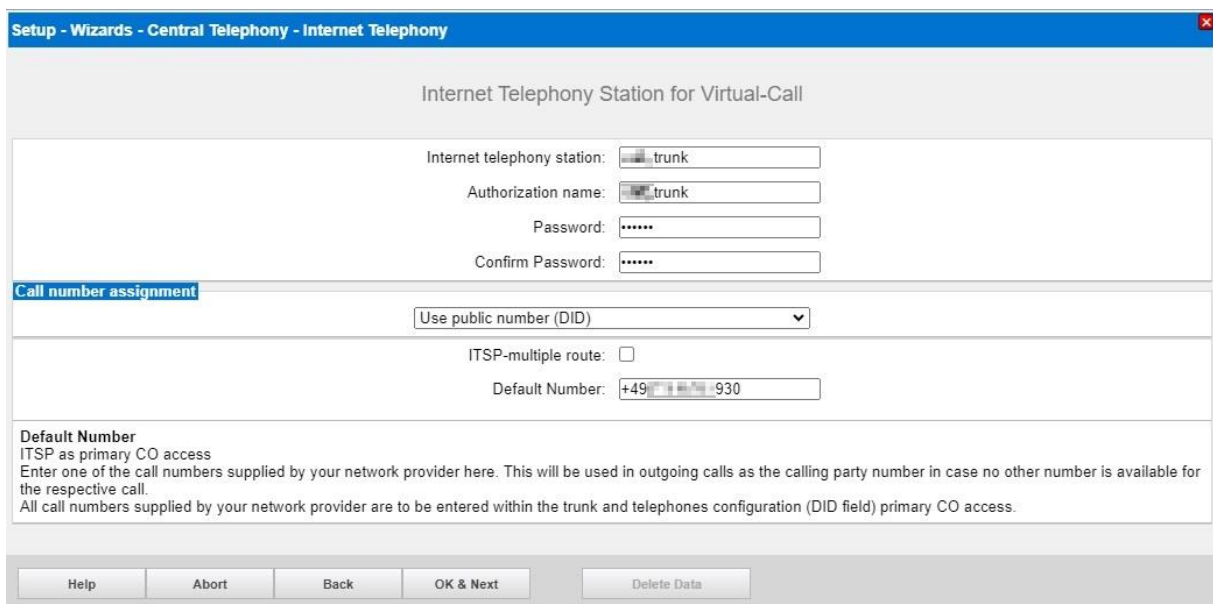


Figure 6

Enter the relevant data and click [OK & Next].

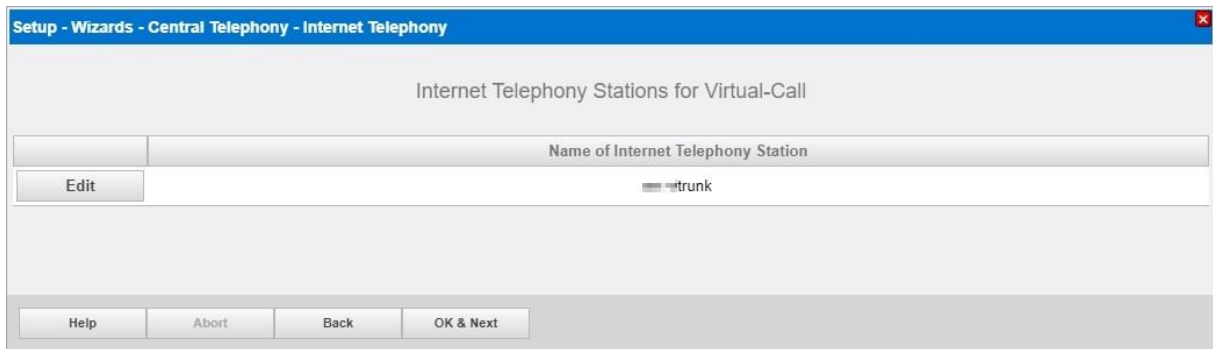


Figure 7

Click [OK & Next]

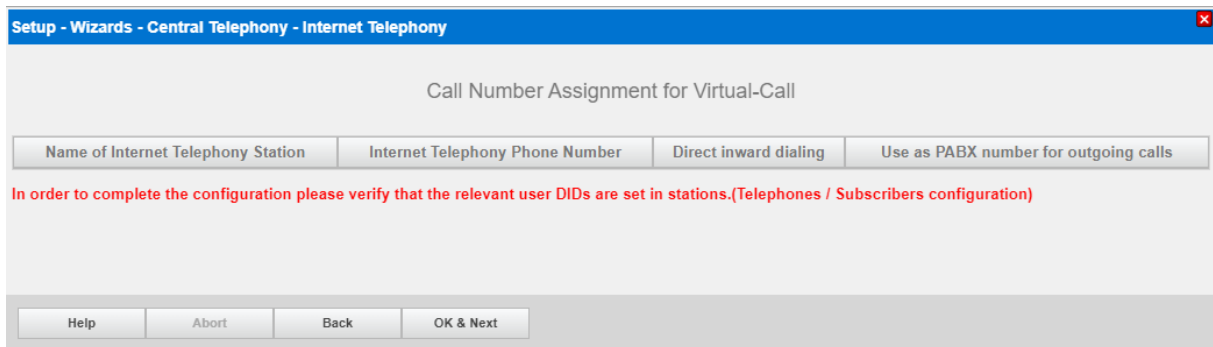


Figure 8

Click [OK & Next] (no input needed)

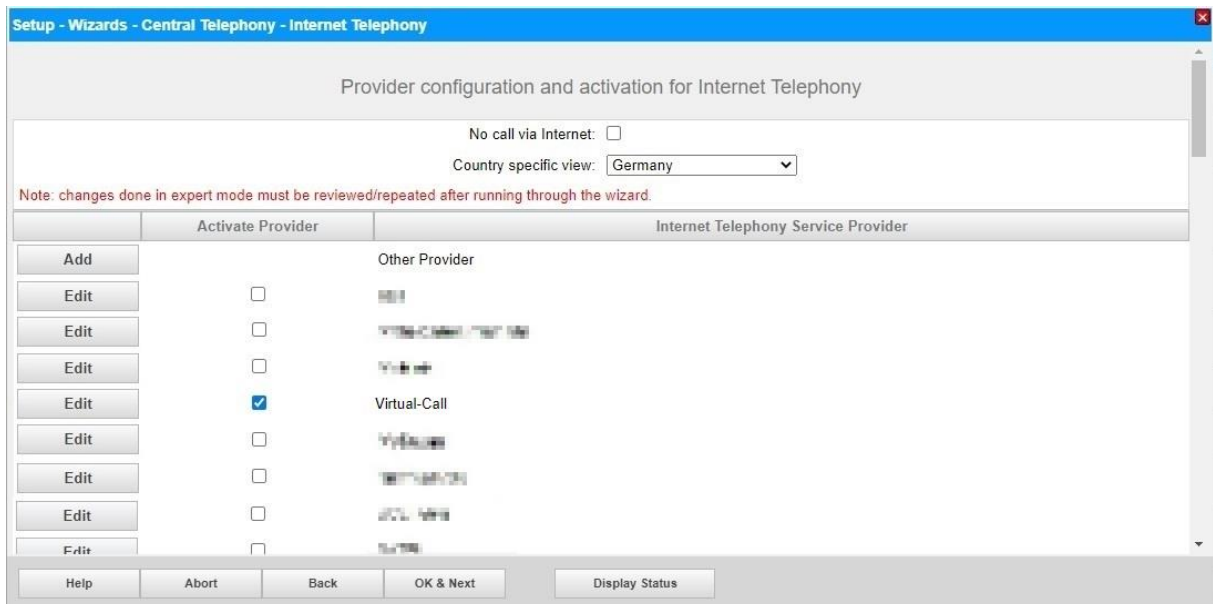


Figure 9

Click [OK & Next]

Define bandwidth (# Trunks)

The amount of simultaneous Internet (**Assigned Lines**) calls must be aligned with the **Maximum Active Calls** assigned to the Trunk Group of the *Virtual-Call* Customer Portal.

Setup - Wizards - Central Telephony - Internet Telephony

Settings for Internet Telephony

Simultaneous Internet Calls

Available Lines for ITSP: 170

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) = 2048**

In the 'Change Feature --> Internet Telephony' Assistant. This upstream allows you to conduct up to 16 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
Virtual-Call	0	<input type="text" value="4"/>

Help Abort Back OK & Next

Figure 10

Click [OK & Next]

Special phone numbers

In this dialog it is possible to route special phone numbers.

Special phone number	Dialed digits	Dial over Provider
1	0C112	Virtual-Call
2	0C110	Virtual-Call
3	0C0137Z	Virtual-Call
4	0C0138Z	Virtual-Call
5	0C0900Z	Virtual-Call
6	0C118Z	Virtual-Call
7	0C116Z	Virtual-Call
8	0C115	Virtual-Call
9	0C010Z	Virtual-Call
10		Virtual-Call

Figure 11

Click [OK & Next]

On next page status of ITSP is displayed.

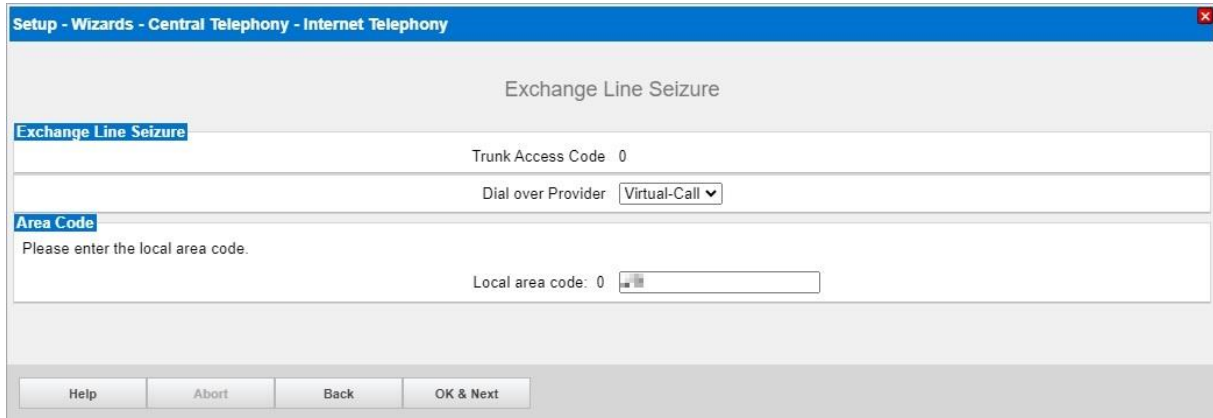
Provider	Status	Trunk	User
Virtual-Call	Enabled	trunk	registered

Figure 12

Click [Next]

„Exchange Line Seizure“

Select which trunk will access code 0. Enter the local area code without prefix digits (needed only when local area code was not entered in first step PBX number)



The screenshot shows a window titled "Setup - Wizards - Central Telephony - Internet Telephony". The main heading is "Exchange Line Seizure". Below this, there are three input sections:

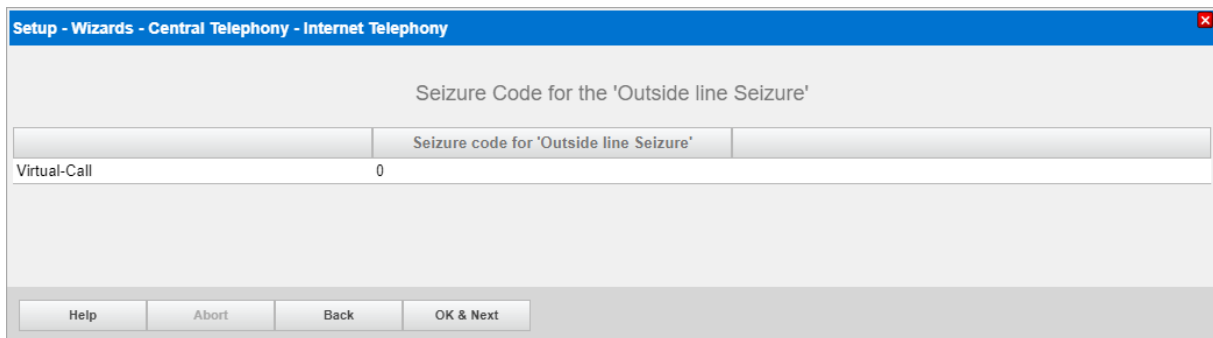
- Exchange Line Seizure:** A text field containing "Trunk Access Code 0".
- Dial over Provider:** A dropdown menu with "Virtual-Call" selected.
- Area Code:** A text field with the label "Please enter the local area code." and "Local area code: 0" followed by a small icon.

At the bottom, there are four buttons: "Help", "Abort", "Back", and "OK & Next".

Figure 13

Click [OK & Next]

Overview with all configured „Outside line Seizure“ are displayed.



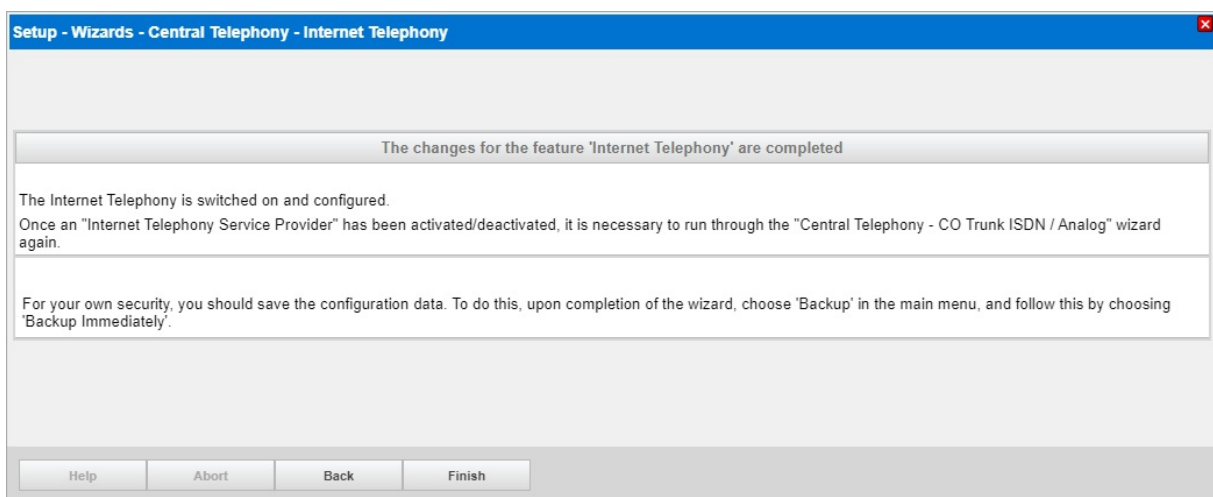
The screenshot shows a window titled "Setup - Wizards - Central Telephony - Internet Telephony". The main heading is "Seizure Code for the 'Outside line Seizure'". Below this is a table with two columns: "Seizure code for 'Outside line Seizure'".

	Seizure code for 'Outside line Seizure'
Virtual-Call	0

At the bottom, there are four buttons: "Help", "Abort", "Back", and "OK & Next".

Figure 14

Click [OK & Next] and



The screenshot shows a window titled "Setup - Wizards - Central Telephony - Internet Telephony". The main heading is "The changes for the feature 'Internet Telephony' are completed". Below this is a text box with the following content:

The Internet Telephony is switched on and configured.
Once an "Internet Telephony Service Provider" has been activated/deactivated, it is necessary to run through the "Central Telephony - CO Trunk ISDN / Analog" wizard again.

For your own security, you should save the configuration data. To do this, upon completion of the wizard, choose 'Backup' in the main menu, and follow this by choosing 'Backup Immediately'.

At the bottom, there are four buttons: "Help", "Abort", "Back", and "Finish".

Figure 15

on the next page [Finish].

DID configuration

In the DID Section, the DID will need to be entered (remaning part without country code, and if configured without local area code, PABX number).

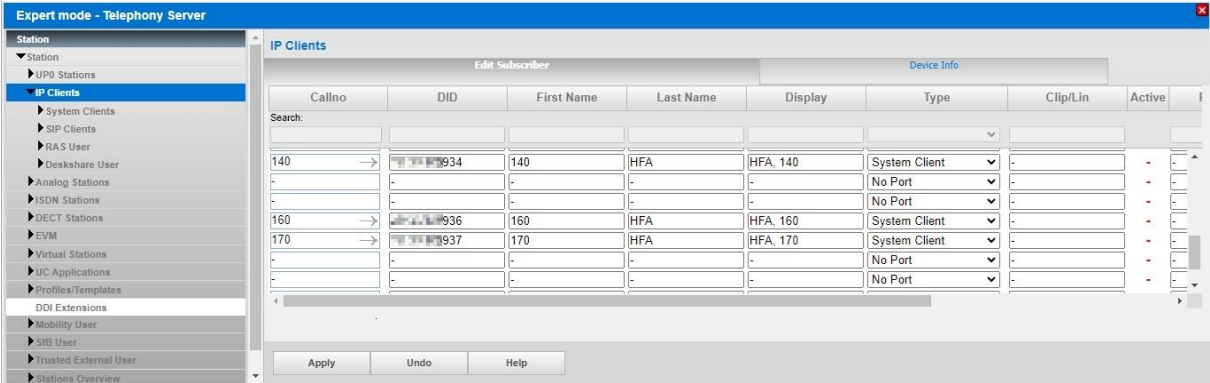


Figure 16

Additional Configuration

License

Add the “S2M/SIP Trunk” license to the SIP-Trunk

The screenshot shows the 'License Management' section of the OpenScope web interface. The top navigation bar includes 'Home', 'Administrators', 'Setup', 'Expert mode', 'Data Backup', 'License Management', and 'Service Center'. The user is logged in as 'administrator@system'. The left sidebar contains a tree view with 'License Management' expanded, showing 'License information', 'Additional Products', 'Local User licenses', 'CO Trunks', 'System Licenses', 'License Profiles', and 'Registration'. The main content area is titled 'CO Trunks' and contains the following information:

- CO Trunks**: The access to central office via PRI(S2m/T1) trunks or via Internet telephony is licensed by CO trunk licenses. Available licenses for SIP and PRI(S2m/T1) trunks: 246.
- SIP trunks**: The configured number of simultaneous Internet calls for each Internet Telephony Service Provider is: 4. License number of simultaneous Internet calls in this node: 4. License demand for number of simultaneous Internet calls in this node: 4.
- PRI (S2M/T1)**: A table with columns: Type Slot, Port, Feature, Demands, used licenses.

At the bottom of the main content area, there are 'Abort' and 'Apply' buttons.

Figure 17