



SIP ITSP BKM

Version : 18/03/2020

How to Configure SIP Trunk for ITSP BKM

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Table of History

Date	Version	Changes
2013-01-01	1.0	First version
2017-01-01	1.1	Rebranding BKM
2020-01-01	1.2	New settings
2020-03-17	1.3	Review and rework

Configuration Data

Information from ITSP BKM provided:

Name	Example
Call Number:	(2) 358 30 20(2) 258 30 29
SIP Username: Account ID	329909022520
SIP Password:	e.g. : rnfwfqamzf4cpdx
Number of voice-channels:	2

BKM offers two types of trunks:

1. access via public network:
for this type of trunk the profile could be used without changes
2. access via private link:
for this type of access a new profile should be created based on predefined BKM profile

Configuration Wizard

Internet Telephony

Go to „Central Telephony – Internet Telephony“

The screenshot shows the OpenScope Business Assistant interface. The top navigation bar includes 'Home', 'Setup', 'Expert mode', 'Data Backup', 'License Management', 'Service Center', and 'Networking'. The left sidebar shows a tree view under 'Setup' with 'Central Telephony' selected. The main content area displays the 'Central Telephony' configuration options, with 'Internet Telephony' highlighted by a red box. The options listed are:

- CO Trunk ISDN / Analog / ITSP**: Point-to-multipoint connections (MSN) and PABX number for ISDN connections, and assignment of analog and ITSP trunks.
- Internet Telephony**: Access parameters of the Internet Telephony Service Provider (ITSP), e.g., user account, password, SIP station number.
- Phone Book / Speed Dialing**: Set up central speed-dial destinations for the system's internal phone book.
- Call Detail Recording**: Set up call detail recording connection parameters for call detail applications.
- Music on Hold / Announcements**: Record new melodies and announcements for Music on Hold and announcement before answering.
- Entrance telephone**: Set up call allocation and access authorization for the entrance telephone at the analog station connection.
- SmartVM**: Set up SmartVM.

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

The screenshot shows the 'Overview' configuration page for Internet Telephony. The page title is 'Setup - Wizards - Central Telephony - Internet Telephony'. Below the title, there is a note: 'Note: changes done in expert mode must be reviewed/repeated after running through the wizard.' and another note: 'Note: At least the configuration of the 'Country code' is needed for features such as 'Internet telephony' and 'MeetMe conference'.' The main configuration area has a 'PABX number' label on the left. The input fields are:

- Country code: 00 32 (mandatory)
- Local area code: 0 (optional)
- PABX number: (optional)

At the bottom of the page, there are buttons for 'Help', 'Abort', 'Back', and 'OK & Next'.

In this case, remaining digits are filled in DID field.

Click [OK & Next]

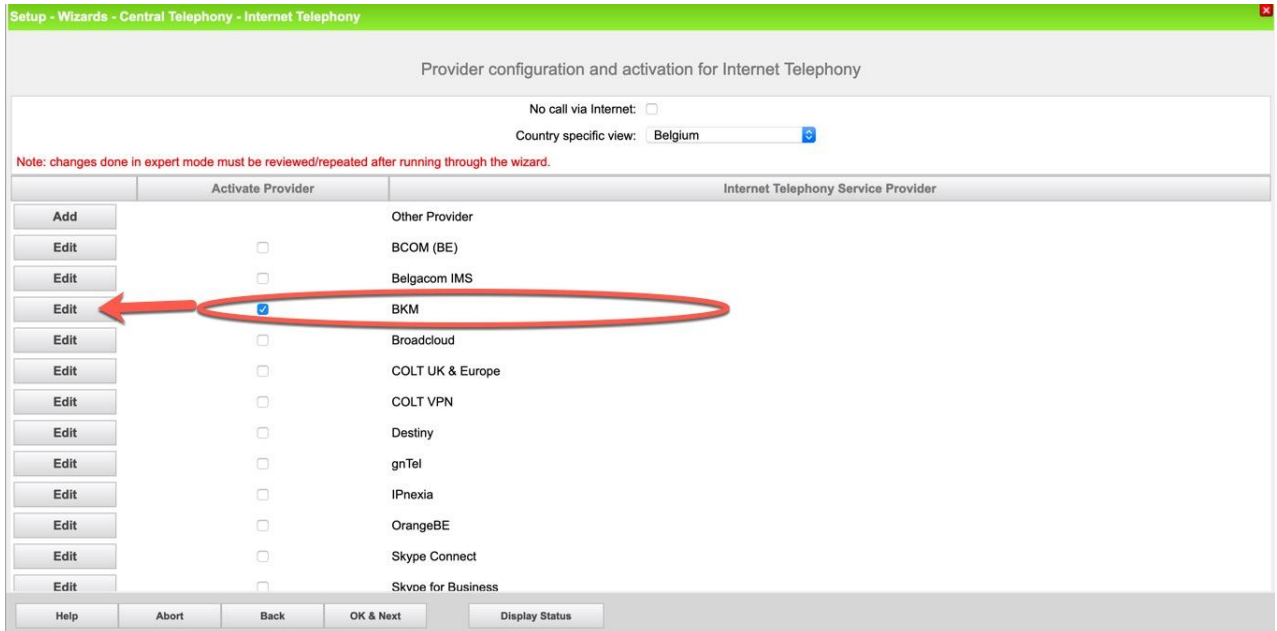
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Provider configuration and activation for Internet Telephony -> No call via Internet -> uncheck
Use County specific view: Belgium

access via public network: select BKM and continue with the steps below

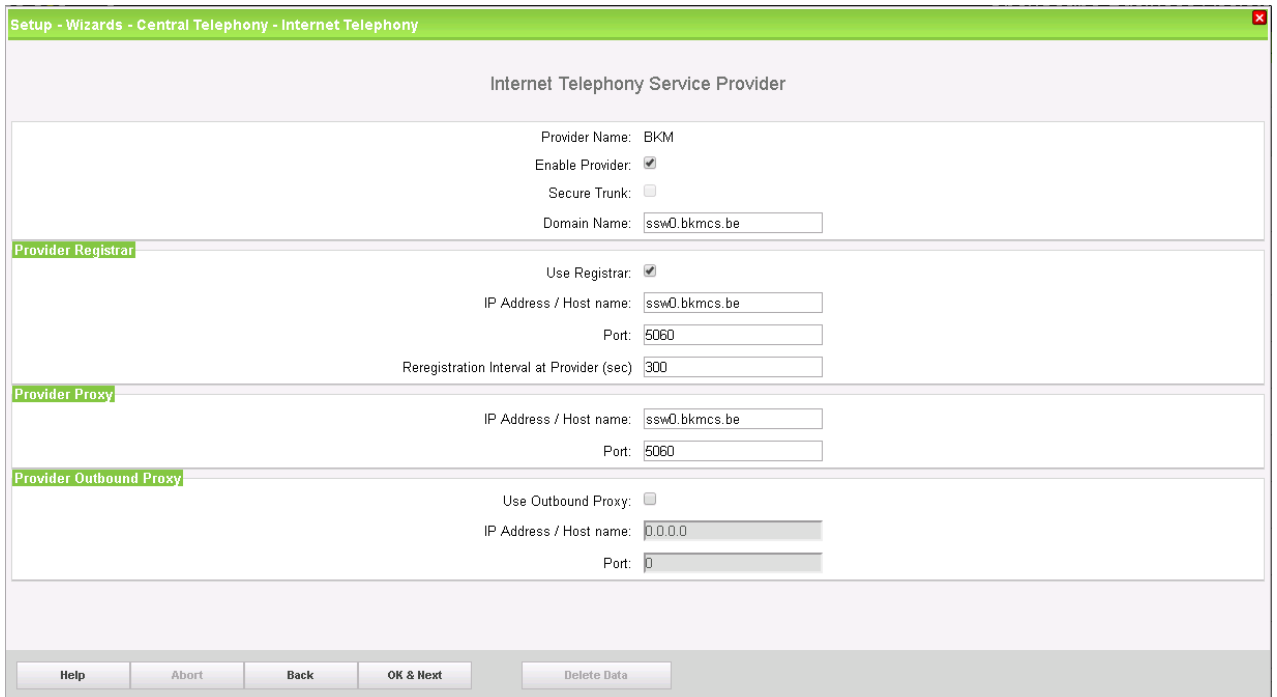
access via private link: Other Provider, click on [Add] and follow the instructions on the next page

Access via public network



Activate Provider and click on [Edit].

The following settings are shown. They should not be changed.



Click [OK & Next] and continue with the Internet Telephony configuration

Access via private link

Select the predefined BKM profile as Base Template

- provide a name (max. 10 characters)
- enable Provider
- set Provider Registrar and Provider Proxy IP Address to 10.0.1.100
- Deactivate STUN

Setup - Wizards - Central Telephony - Internet Telephony

Internet Telephony Service Provider

Base Template: BKM - predefined

Provider Name: BKM-Priv

Enable Provider:

Secure Trunk:

Domain Name: ssw0.bkmcs.be

Transport protocol: udp

Provider Registrar

Use Registrar:

IP Address / Host name: 10.0.1.100

Port: 5060

Reregistration Interval at Provider (sec): 300

Provider Proxy

IP Address / Host name: 10.0.1.100

Port: 5060

Provider Outbound Proxy

Use Outbound Proxy:

IP Address / Host name: 0.0.0.0

Port: 0

Provider Inbound Proxy

Use Inbound Proxy:

IP Address / Host name: 0.0.0.0

Port: 0

Provider STUN

Use STUN:

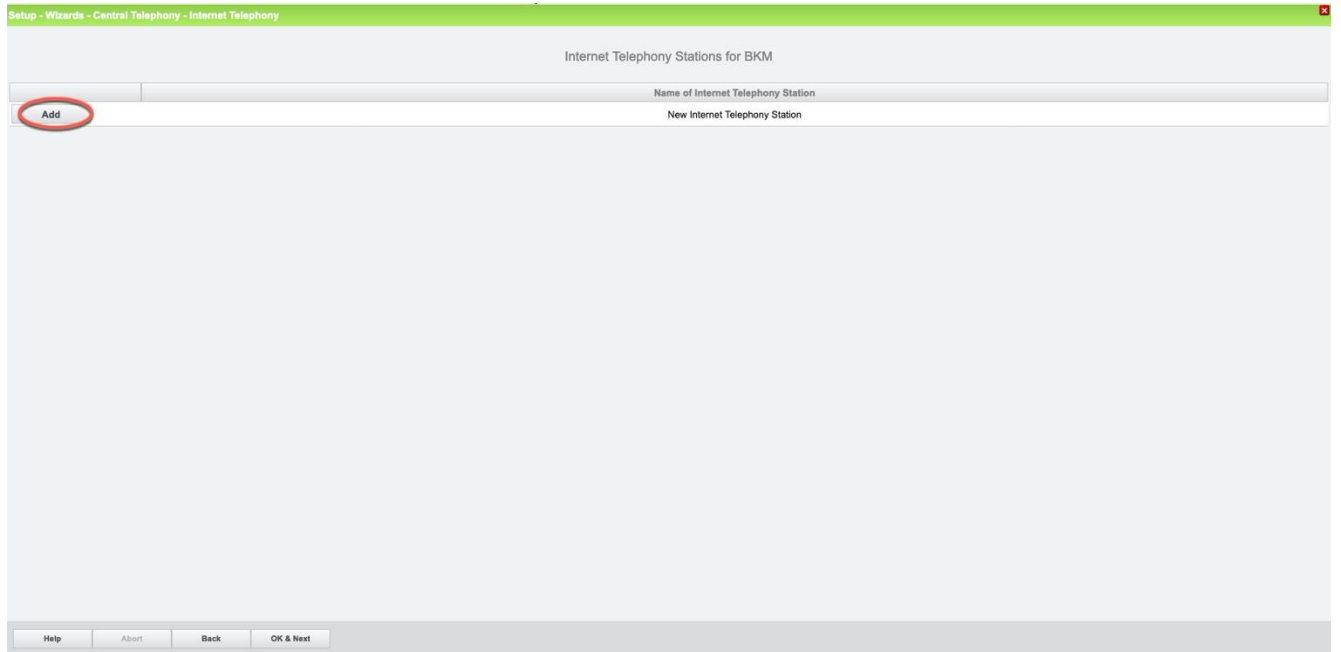
IP Address / Host name: stun.cloudbkm.com

Help Abort Back OK & Next Delete Data

Click [OK & Next] and continue with the Internet Telephony configuration

Internet Telephony configuration

In this dialog the specific customer SIP User data will be configured.



Click on [Add].

Data provided by ITSP BKM is inserted here.

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- Internet telephony station: account ID of BKM is inserted here (e.g. 329909022520)
Authorization name: account ID of BKM is inserted here (e.g. 329909022520)
Password: Password provided by ITSP BKM. (Password)
Call number assignment: select "Use public number (DID)". This is the easiest and preferred way to define the phone numbers in the system. Phone numbers are treated as a normal DID number in the system as if it was normal ISDN.
- ITSP multiple route: Must be used in case more than one account of the same provider (in this case BKM) must be configured on the same system. When this flag is activated you will be able to define extra accounts.
- Default number: Main number of connections. The default number is used as outgoing number when no DDI number is assigned to a station. (format: Implicitly international e.g. 3223583020)

Setup - Wizards - Central Telephony - Internet Telephony

Internet Telephony Station for BKM

Internet telephony station: 329909022520
Authorization name: 329909022520
Password:
Confirm Password:

Call number assignment

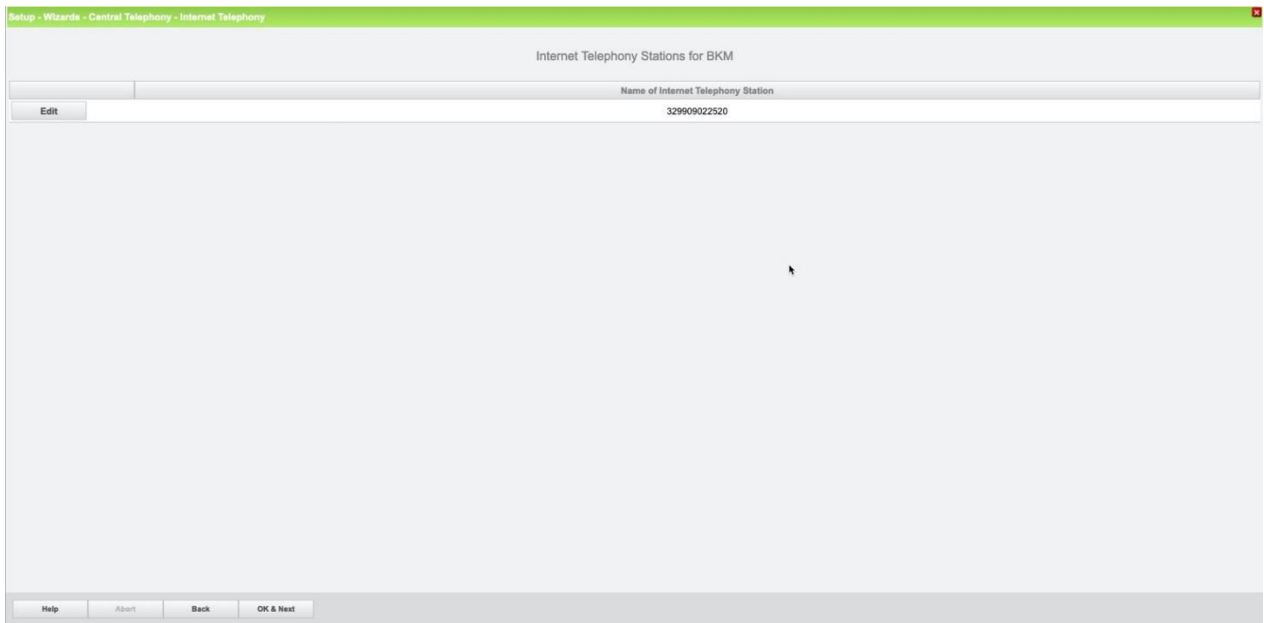
Use public number (DID)

ITSP-multiple route:
Default Number: 3223583020

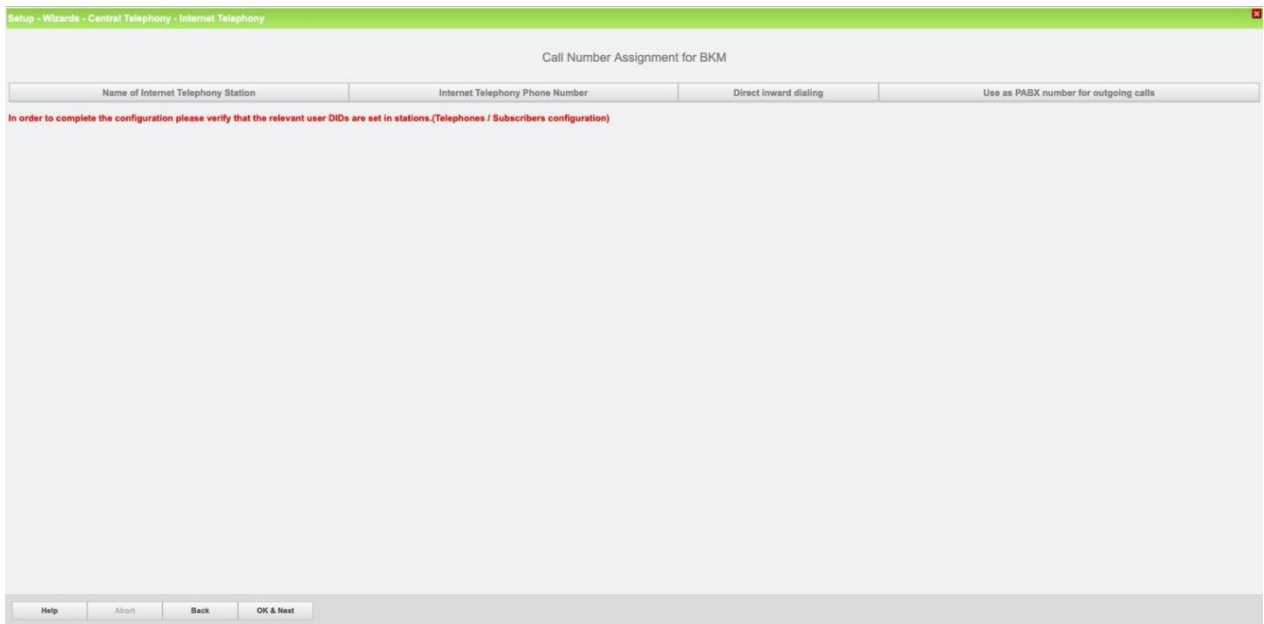
Default Number
ITSP as primary CO access
Enter one of the call numbers supplied by your network provider here. This will be used in outgoing calls as the calling party number in case no other number is available for the respective call.
All call numbers supplied by your network provider are to be entered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

Help Abort Back OK & Next Delete Data

Click [OK & Next].



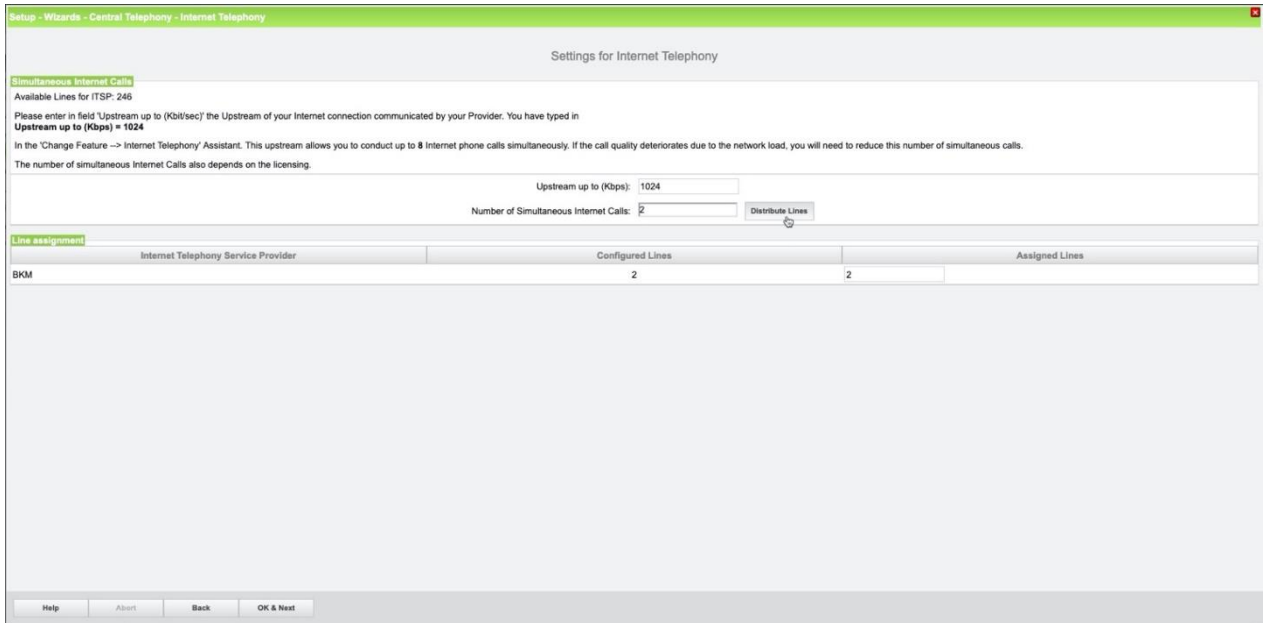
Click [OK & Next].



Click [OK & Next]. (no input needed)

Define bandwidth (# Trunks)

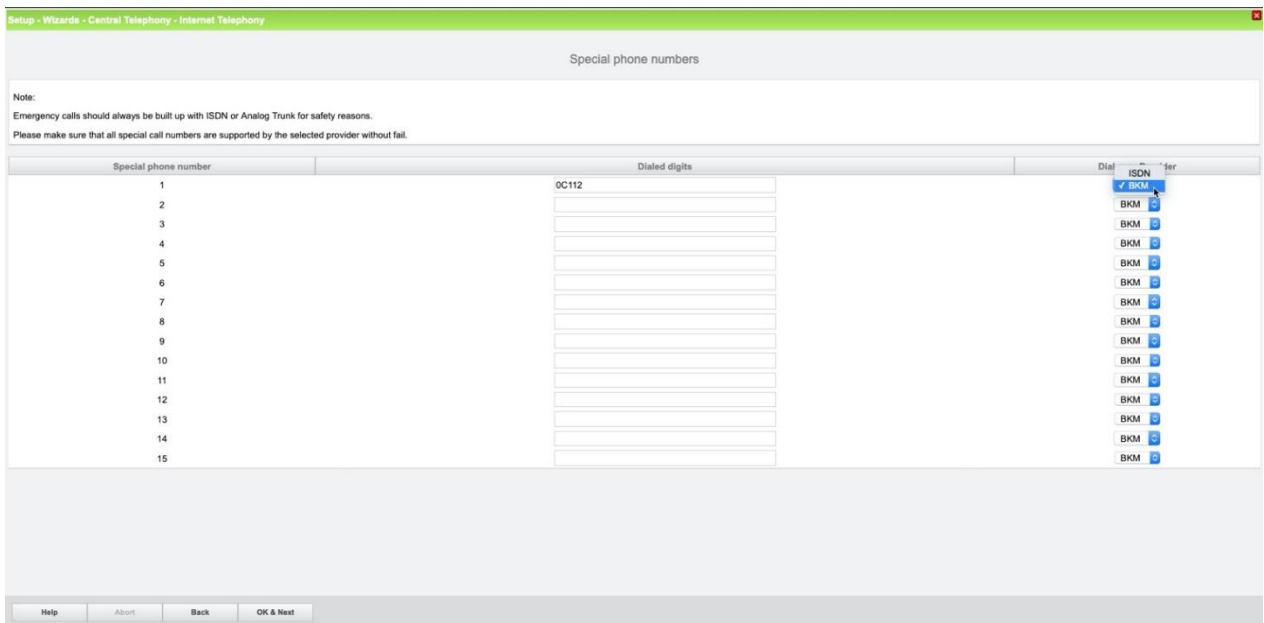
In the next part the number of simultaneous calls via the SIP trunk will be defined. The calculation of the number of trunks is done by the wizard automatically depending on the bandwidth. For each 128K, one trunk is created. The number can also be defined manually.



Click [OK & Next]

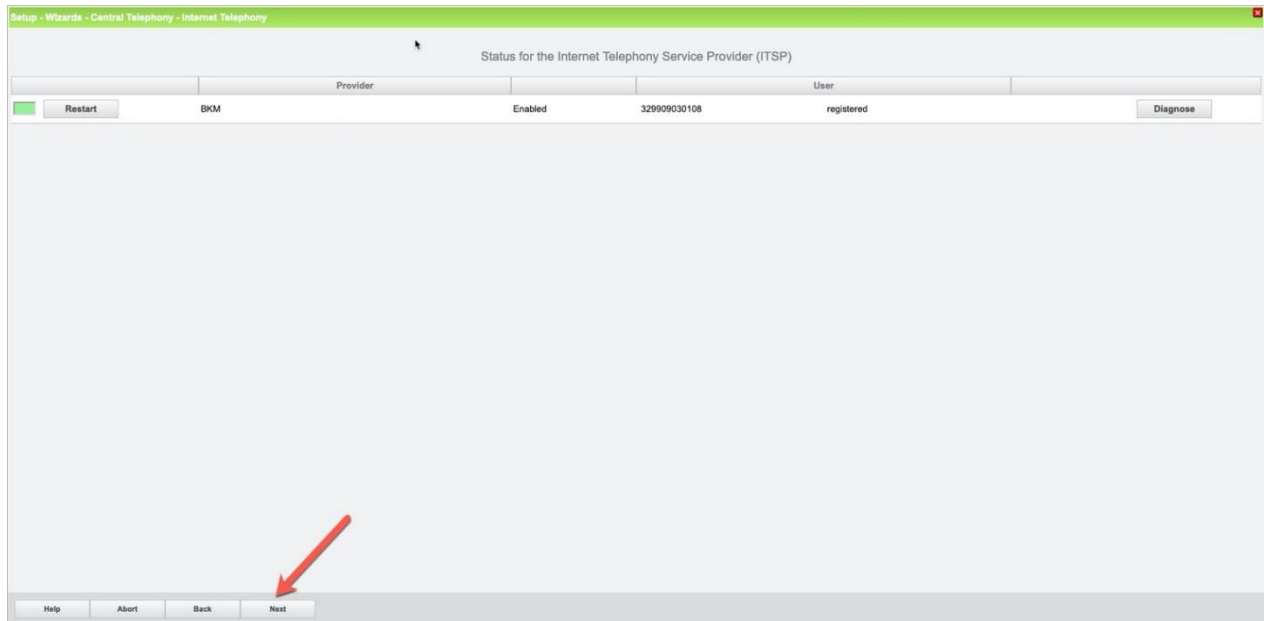
Special phone numbers

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.



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Click OK & Next and the ITSP status will be displayed



In case status LED is orange there is something wrong in the configuration.

After this status page the dialog with „Exchange Line Seizure“ is displayed. Here you need to configure your own local area code. This is needed to make external calls without the area code. The LCR will be adapted accordingly.

