



OpenScape Business V3

How to Configure SIP Trunk for Orange BE S&F

About this document

This configuration guide describes an example of how to set up the SIP trunk for Orange BE S&F as an ITSP connection to the OpenScape Business.

Note: The basis for this document is the current OpenScape Business V3R2.1. 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	V2R3.1 - update: V3R2.1
<i>Orange BE S&F</i>	Features & Capabilities
Account (DID/Client)	<i>DID</i>
Multisite	<i>yes - dedicated trunk</i>
CLIP / CLIR	<i>yes / yes</i>
CLIP no Screening	<i>yes ¹⁾</i>
COLP	<i>no</i>
Call Forwarding (302)	<i>no</i>
DTMF (RFC2833/4733)	<i>yes</i>
Codecs G711/G729	<i>yes / yes</i>
T.38 Fax	<i>yes</i>
Secure trunk	<i>no</i>

Orange delivers a CPE device to the customer. This CPE device has typical an xDSL uplink to the providers SIP Trunk. The CPE does get an IP Address which is in the same subnet of the customer PBX. ITSP is reached via static route configured in OpenScape Business. The ISP is reached via different router.

¹⁾ In default the Orange profile has CLIP no Screening activated. The user must sign an agreement for CLIP no Screening. As long as the user has not signed the agreement with Orange, forwarded calls will be rejected! If CLIP no Screening agreement is not signed the profile needs to be changed

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Table of History

Date	Version	Changes
02.10.2017	1.0	adapt document for Belgium Orange BE
01.12.2017	1.1	update and rename profile to Orange BE S&F

Configuration Data

Information from Orange BE Shape&Fix :

Name	Example
Call Number:	(2) 7360077.....7360079
SIP Username:	+3227360077
SIP Password:	
Number of voice-channels:	2

Configuration Wizard

Internet Telephony

Go to „Central Telephony – Internet Telephony“

The screenshot displays the OpenScape Business Assistant configuration interface. At the top, the UNIFY logo is on the left, and 'OpenScape Business Assistant' is on the right. Below the logo, it says 'Harmonize your enterprise'. The top navigation bar includes 'System in network', 'Synchronization status: [green circle]', 'administrator@system', and 'Logoff'. The main navigation menu has 'Home', 'Setup', 'Expert mode', 'Data Backup', 'License Management', 'Service Center', and 'Networking'. The left sidebar shows a 'Setup' menu with 'Wizards' expanded, listing 'Basic Installation', 'Network / Internet', 'Telephones / Subscribers', 'Central Telephony' (highlighted in green), 'User Telephony', 'Security', and 'UC Smart'. The main content area is titled 'Central Telephony' and contains several configuration options, each with an 'Edit' button:

- 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 (highlighted with a red box)
- 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.

Setup - Wizards - Central Telephony - Internet Telephony

Overview

Note: changes done in expert mode must be reviewed/repeated after running through the wizard.
Note: At least the configuration of the 'Country code' is needed for features such as 'Internet telephony' and 'MeetMe conference'.

PABX number

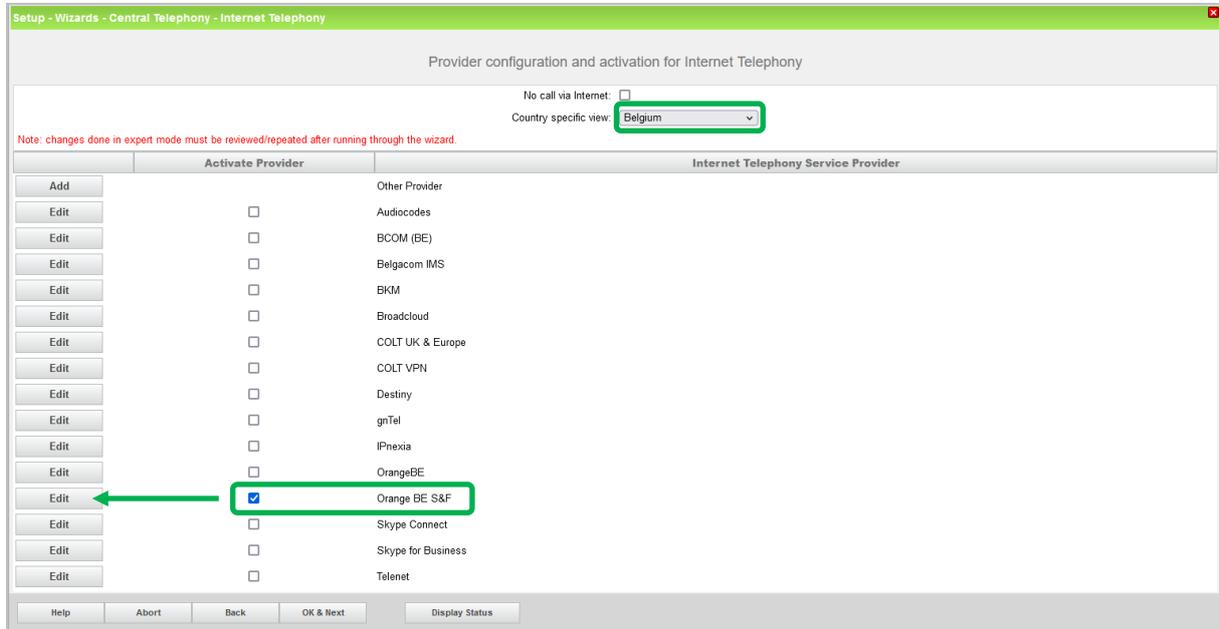
Country code: 00 32 (mandatory)
Local area code: 0 (optional)
PABX number: (optional)

Help Abort Back OK & Next

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 : Belgium and select Orange BE S&F



Activate Provider and click on [Edit].

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

Setup - Wizards - Central Telephony - Internet Telephony

Internet Telephony Service Provider

Provider Name: Orange BE S&F
Enable Provider:
Secure Trunk:
Domain Name: sip.edpnet.be
Transport protocol: udp

Provider Registrar

Use Registrar:
IP Address / Host name: sip.edpnet.be
Port: 5060
Reregistration Interval at Provider (sec): 600

Provider Proxy

IP Address / Host name: sip.edpnet.be
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

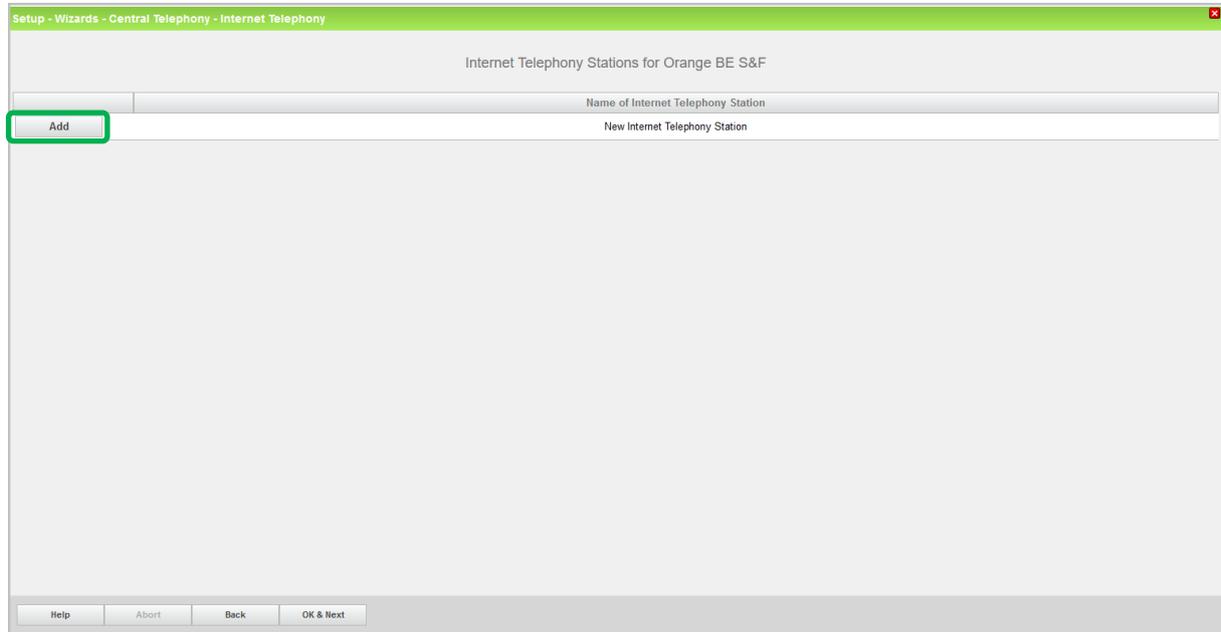
Provider STUN

Use STUN:

Help Abort Back OK & Next Delete Data

Internet Telephony configuration

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



Click on [Add].

Data provided by ITSP Orange BE S&F is inserted here.

Internet telephony station: "Username" is inserted here

Authorization name: "Username" is inserted here

Password: Leave empty

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.

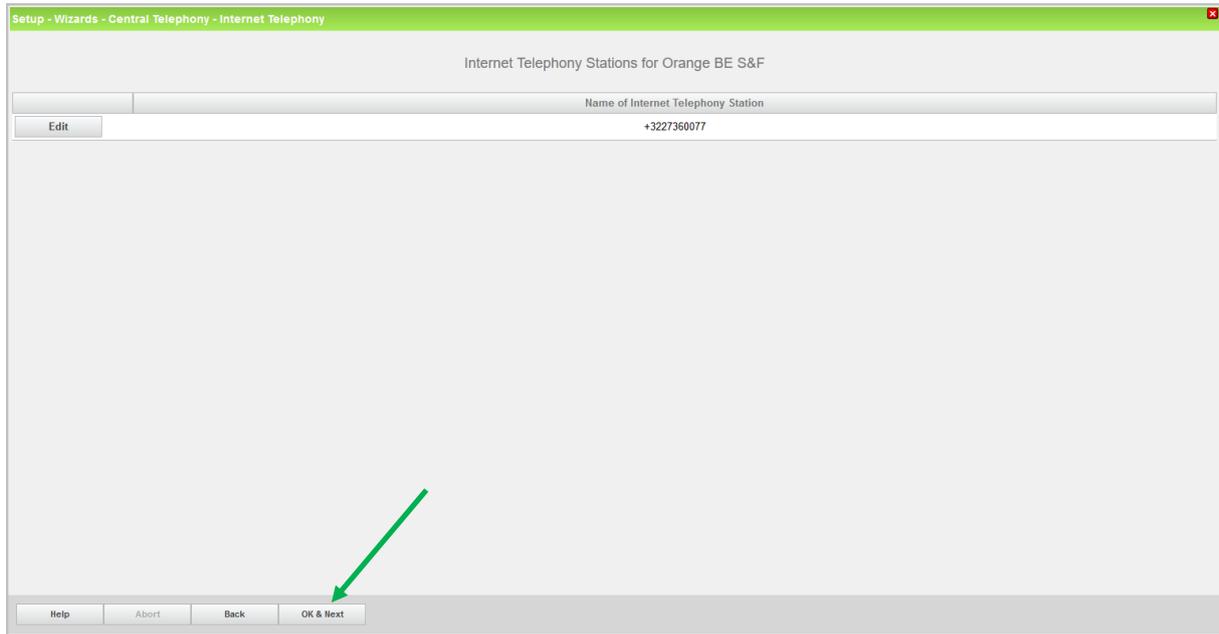
ITSP multiple route: Must be used in case more than one account of the same provider has to be configured on the same system. When this flag is activated, you will be able to define extra accounts.

Default number: Main number of connection. The default number is used as outgoing number when no DDI number is assigned to a station. (Number must be in Implicitly International format).

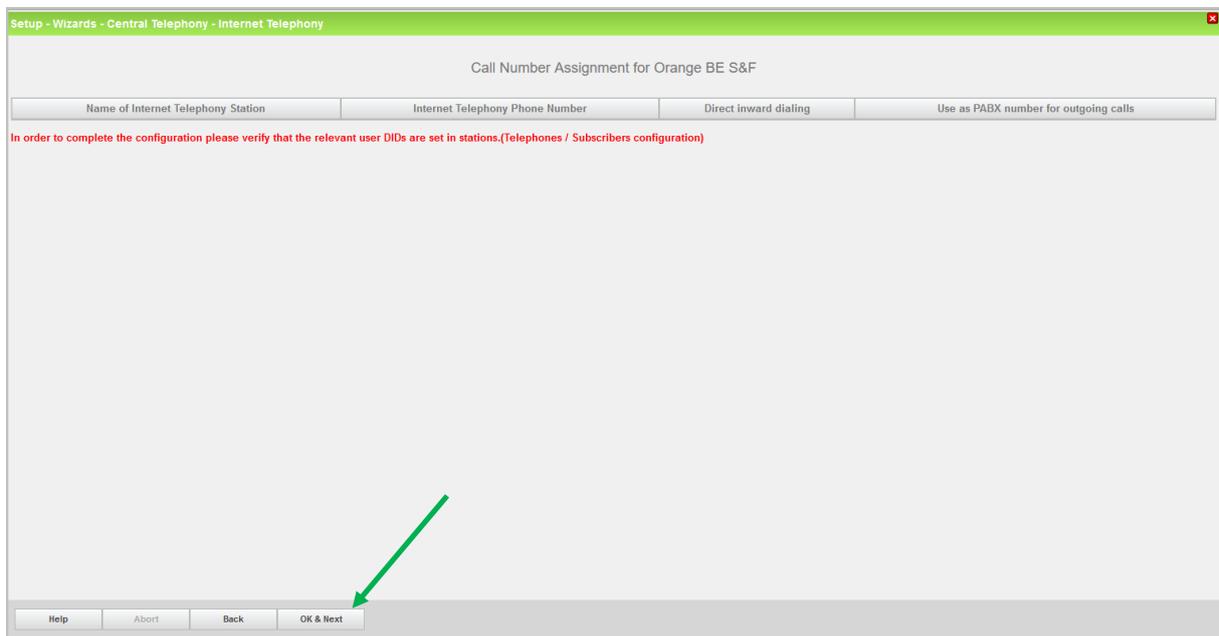
The screenshot shows a configuration window titled "Internet Telephony Station for Orange BE S&F". It contains several input fields: "Internet telephony station:" with the value "+3227360077", "Authorization name:" with the value "+3227360077", "Password:" (empty), and "Confirm Password:" (empty). Below these is a section for "Call number assignment" with a dropdown menu currently set to "Use public number (DID)". The "ITSP-multiple route:" checkbox is unchecked, and the "Default Number:" field contains "3227360077". A green box highlights the dropdown menu, and a green arrow points from it to a separate image of the expanded menu options.

- Use public number (DID)
- Use internal number (Callno) / Single entries
- Use internal number (Callno) / Range entry

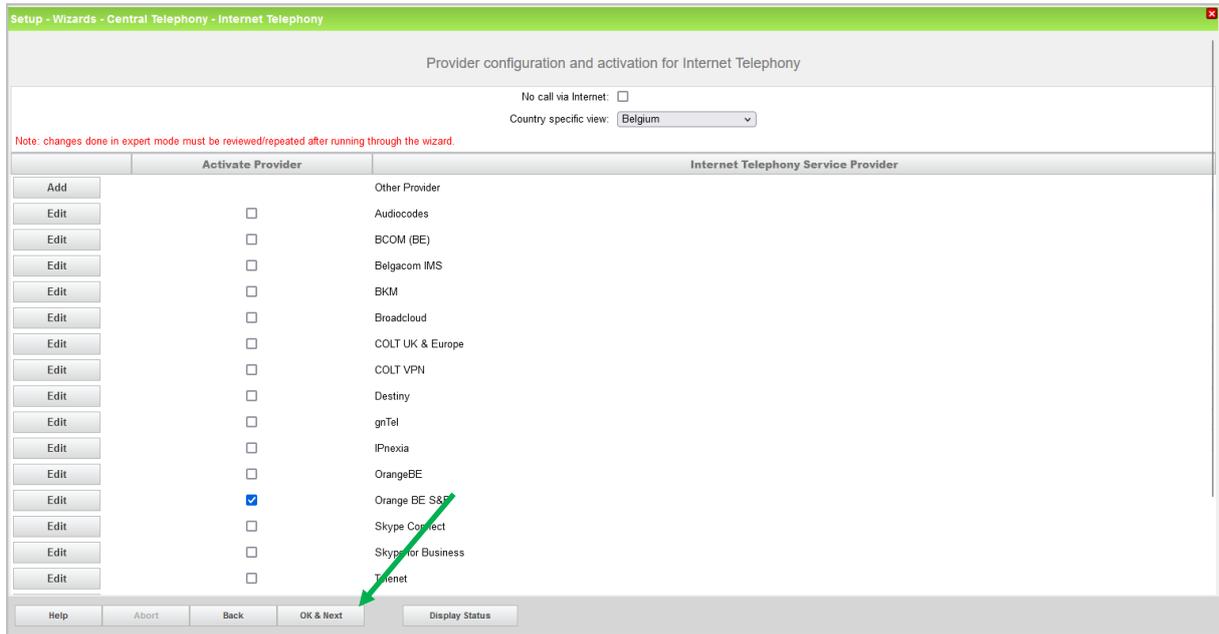
Click [OK & Next].



Click [OK & Next].



Click [OK & Next] (no input needed)



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.

Setup - Wizards - Central Telephony - Internet Telephony

Settings for Internet Telephony

Simultaneous Internet Calls

Available Lines for ITSP: 178

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) = 800

In the 'Change Feature -> Internet Telephony' Assistant. This upstream allows you to conduct up to 6 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): 800

Number of Simultaneous Internet Calls: 6

100 %

Line assignment

Internet Telephony Service Provider	Configured Lines	Assigned Lines
	2	<input type="text" value="2"/>
	2	<input type="text" value="1"/>
	2	<input type="text" value="1"/>
Orange BE S&F	0	<input type="text" value="2"/>

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 number	Dialed digits	Dial over Provider
1	0C112	Orange BE S&F
2	0C100	Orange BE S&F
3	0C101	Orange BE S&F
4	0C102	Orange BE S&F
5	0C105	Orange BE S&F
6	0C1813	Orange BE S&F
7	0C1712	Orange BE S&F
8	0C116	Orange BE S&F
9	0C106	Orange BE S&F
10	0C1XXX	Orange BE S&F
11		Orange BE S&F
12		Orange BE S&F
13		Orange BE S&F
14		Orange BE S&F
15		Orange BE S&F

Click OK & Next and the ITSP status will be displayed

Provider	User	Diagnose
Enabled	registered	Diagnose
Enabled	registered	Diagnose
Enabled	registered	Diagnose
Orange BE S&F	+3227360077	Diagnose
Enabled	registered	Diagnose

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

Setup - Wizards - Central Telephony - Internet Telephony

Exchange Line Seizure

Exchange Line Seizure

Trunk Access Code 0

Dial over Provider Orange BE S&F

Area Code

Please enter the local area code.

Local area code: 0 2

Help Abort Back OK & Next