

# OpenScape Business V2



**Business  
Services**

## How to Configure SIP Trunk for ITSP Orange Business Services

---

## Table of Contents

Information.....	4
Trunk Configuration Data provided by Orange Business Services .....	4
Configuration Wizard .....	5
Internet Telephony.....	5
Define bandwidth (# Trunks).....	11
DID configuration .....	13
Additional Configuration .....	13
Port management.....	13
Codec Parameters .....	14
SIP Parameters .....	15
License .....	15
LCR changes.....	15
Route configuration (optional).....	17
Usage of Orange Network Access device .....	19

## Table of History

Date	Version	Changes
20.02.2018	0.1	First version
22.02.2018	0.2	Internal editorial changes
03.03.2018	1.0	Update with final comments from ORANGE

## Information

The “Orange Business Services SIP Trunking” profile delivered with the OpenScape Business system is used for 2 SIP trunking offers:

- Business Talk IP (BTIP), for French market
- Business Talk (BT) for international market

The present document describes the configuration of Business Talk IP (BTIP) with OpenScape Business for the French market. The configuration steps are similar if Business Talk (BT) for international market is used but the configuration for country specific settings may be different if Business Talk (BT) is used in other countries.

The minimal OSBiz software version is osbiz\_v2\_R4.1.0

Certification valid for all OpenScape Business systems X3/X5/X8/S.

## Trunk Configuration Data provided by Orange Business Services

The configuration data (IP addresses etc.) needed to setup the SIP trunk can be found on the Orange Business Services document you will receive by Orange.

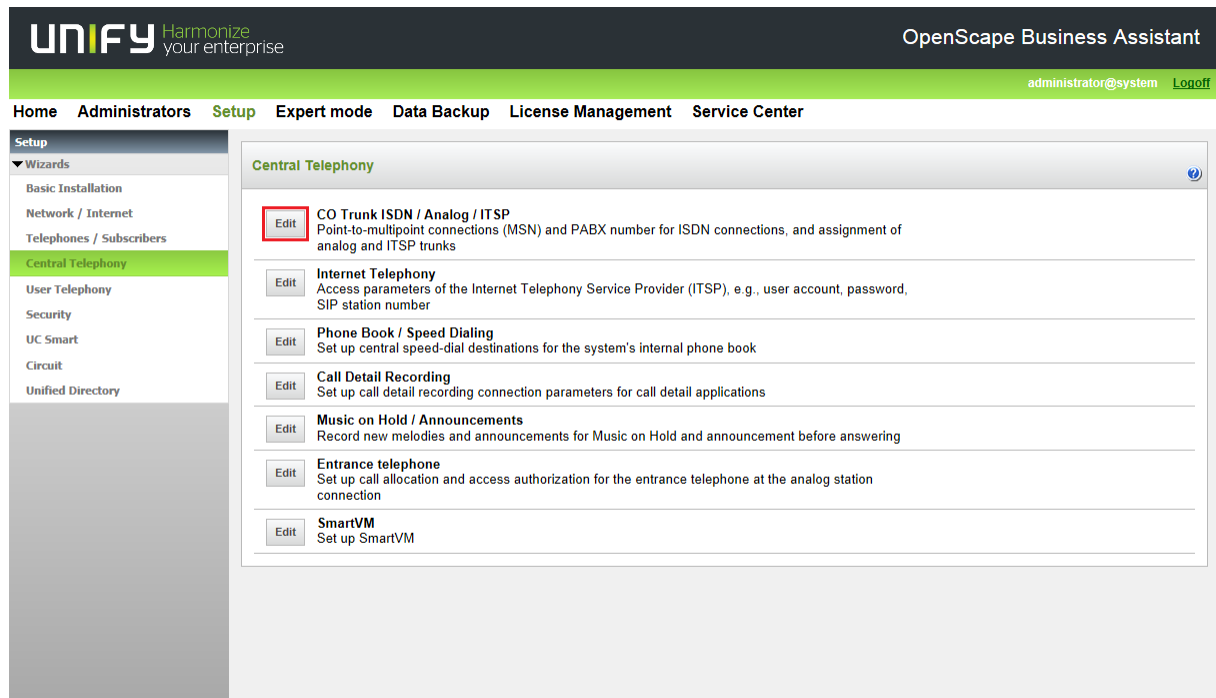
As an example:

Items	Example
Orange Nominal SBC IP	10.25.200.73 UDP 5060
Orange Backup SBC IP	10.25.200.83 UDP 5060
Codecs	G711a, G711u, G729a, 20ms
Fax	T.38
DTMF Transmission	RFC 2833
Recommended Number format	E.164 (ex: + 33 2 96 08 21 83)

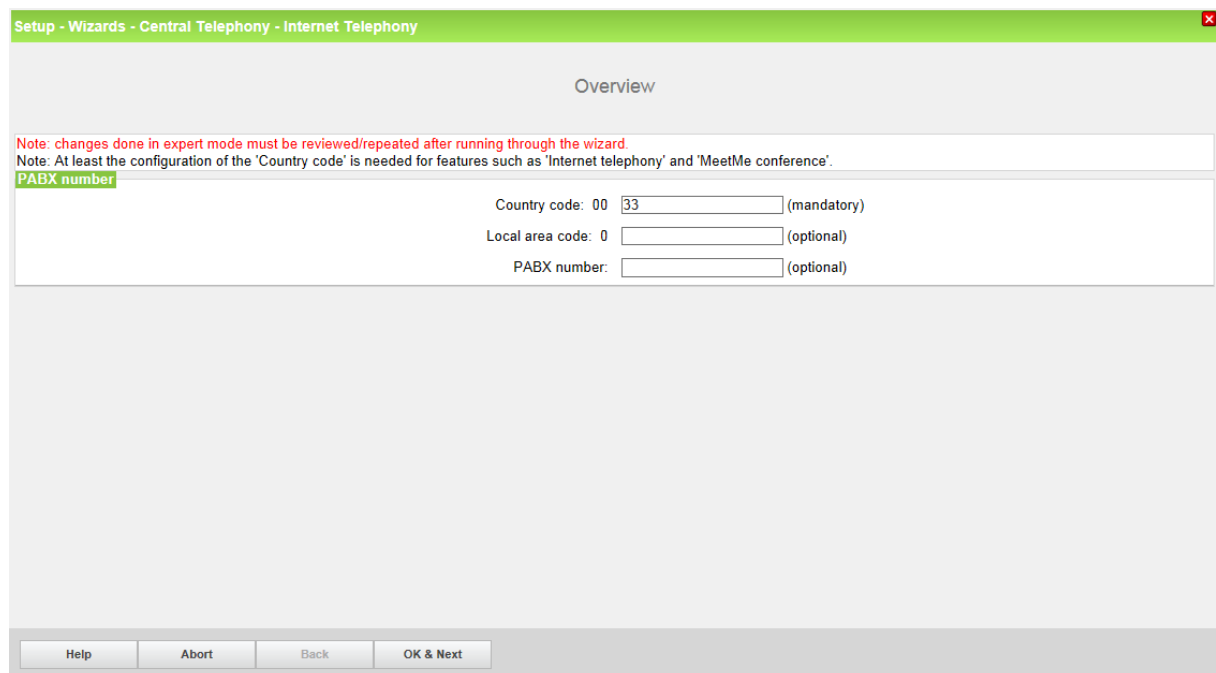
# Configuration Wizard

## 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 (suggestion for French market). If at a later stage extra DID numbers are added, which have a different local area, then the impact is minimal, since the local area code is part of the DID number of the user.



Click [OK & Next].

Provider configuration and activation for Internet Telephony -> No call via Internet -> uncheck  
Use Country specific view: France and select "Orange Business Services SIP trunking".

Setup - Wizards - Central Telephony - Internet Telephony

Provider configuration and activation for Internet Telephony

No call via Internet: ☐

Country specific view: France

Note: changes done in expert mode must be reviewed/repeated after running through the wizard.

	Activate Provider	Internet Telephony Service Provider
Add		Other Provider
Edit	<input type="checkbox"/>	Acropolis
Edit	<input type="checkbox"/>	Bouygues
Edit	<input type="checkbox"/>	Broadcloud
Edit	<input type="checkbox"/>	COLT UK & Europe
Edit	<input type="checkbox"/>	COLT VPN
Edit	<input type="checkbox"/>	Comptel
Edit	<input type="checkbox"/>	Hexatel
Edit	<input type="checkbox"/>	MyStream
Edit	<input type="checkbox"/>	OpenIP
Edit	<input checked="" type="checkbox"/>	Orange Business Services SIP trunking

Help Abort Back OK & Next Display Status

Activate Provider and click on [Edit].

On the next page, the IP address of the **Orange Nominal SBC** must be entered in the **Domain Name** field and in the **Provider Proxy** field (different for each customer and in our example, they would be 10.25.200.73 for both fields).

Setup - Wizards - Central Telephony - Internet Telephony

Internet Telephony Service Provider

Provider Name: Orange Business Services SIP trunking

Enable Provider: ☒

Secure Trunk: ☐

Domain Name: please enter here

Provider Registrar

Use Registrar: ☐

IP Address / Host name:

Port: 5060

Reregistration Interval at Provider (sec) 600

Provider Proxy

IP Address / Host name: please enter here

Port: 5060

Provider Outbound Proxy

Use Outbound Proxy: ☐

IP Address / Host name: 0.0.0.0

Port: 0

Help Abort Back OK & Next Delete Data

Click [OK & Next].

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

Setup - Wizards - Central Telephony - Internet Telephony

Internet Telephony Stations for Orange Business Services SIP trunking

	Name of Internet Telephony Station
Add	New Internet Telephony Station

Help Abort Back OK & Next

Click on [Add].

The following fields need to be configured:

**Internet telephony station:** A **Unique name** is assigned here (e.g: a-SBC)

**Default number:** Main number of connection in international format. The default number is used as outgoing number when no DDI number is assigned to a station. (e.g: +33296082180). Usually the **Lead Number** is entered here.

Setup - Wizards - Central Telephony - Internet Telephony

Internet Telephony Station for Orange Business Services SIP trunking

Internet telephony station:

Authorization name:

Password:

Confirm Password:

**Call number assignment**

Use public number (DID)

ITSP-multiple route: ☐

Default 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.

Help Abort Back OK & Next Delete Data

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

The screenshot shows a window titled "Setup - Wizards - Central Telephony - Internet Telephony". The main heading is "Internet Telephony Stations for Orange Business Services SIP trunking". Below this is a table with one row containing the text "a-SBC". To the left of the table is an "Edit" button. At the bottom of the window are four buttons: "Help", "Abort", "Back", and "OK & Next".

Name of Internet Telephony Station	
Edit	a-SBC

Click [OK & Next]

The screenshot shows a window titled "Setup - Wizards - Central Telephony - Internet Telephony". The main heading is "Call Number Assignment for Orange Business Services SIP trunking". Below this is a table with four columns: "Name of Internet Telephony Station", "Internet Telephony Phone Number", "Direct inward dialing", and "Use as PABX number for outgoing calls". Below the table is a red text message: "In order to complete the configuration please verify that the relevant user DIDs are set in stations.(Telephones / Subscribers configuration)". At the bottom of the window are four buttons: "Help", "Abort", "Back", and "OK & Next".

Name of Internet Telephony Station	Internet Telephony Phone Number	Direct inward dialing	Use as PABX number for outgoing calls
------------------------------------	---------------------------------	-----------------------	---------------------------------------

In order to complete the configuration please verify that the relevant user DIDs are set in stations.(Telephones / Subscribers configuration)

Click [OK & Next] (no input needed)

Now you enter again the page "Provider configuration and activation for Internet Telephony"



If an **Orange Backup SBC IP** is available, a second trunk needs to be configured for supporting failover trunk functionality.

Setup - Wizards - Central Telephony - Internet Telephony

Provider configuration and activation for Internet Telephony

No call via Internet: ☐

Country specific view: France

Note: changes done in expert mode must be reviewed/repeated after running through the wizard.

	Activate Provider	Internet Telephony Service Provider
<b>Add</b>		Other Provider
Edit	<input type="checkbox"/>	Acropolis
Edit	<input type="checkbox"/>	Bouygues
Edit	<input type="checkbox"/>	Broadcloud
Edit	<input type="checkbox"/>	COLT UK & Europe
Edit	<input type="checkbox"/>	COLT VPN
Edit	<input type="checkbox"/>	Cometel
Edit	<input type="checkbox"/>	Hexatel
Edit	<input type="checkbox"/>	MyStream
Edit	<input type="checkbox"/>	OpenIP
Edit	<input checked="" type="checkbox"/>	Orange Business Services SIP trunking

Help Abort Back OK & Next Display Status

Click on [Add].

On the next page, select “Orange Business Services SIP trunking” as Base Template, provide a name (up to 10 characters) and enter the IP address of the **Orange Backup SBC** in the **Domain Name** field and in the **Provider Proxy** field (in our example 10.25.200.83).

Setup - Wizards - Central Telephony - Internet Telephony

Internet Telephony Service Provider

Base Template: Orange Business Services SIP trunking - predefined

Provider Name: Orange-BAK

Enable Provider: ☒

Secure Trunk: ☐

Domain Name: please.enter.domain

Transport protocol: udp

**Provider Registrar**

Use Registrar: ☐

IP Address / Host name:

Port: 5060

Reregistration Interval at Provider (sec) 600

**Provider Proxy**

IP Address / Host name: please.enter.here

Port: 5060

**Provider Outbound Proxy**

Use Outbound Proxy: ☐

IP Address / Host name: 0.0.0.0

Help Abort Back OK & Next Delete Data

Click [OK & Next].

On the next page click on [Add] and enter the data for the Backup SBC SIP user.

The following fields need to be configured:

**Internet telephony station:** A **Unique name** is assigned here (e.g: b-SBC)

**Default number:** Please note that a number different from the one of the Nominal SBC User must be used (e.g: +33296082190).

Setup - Wizards - Central Telephony - Internet Telephony

Internet Telephony Stations for Orange-BAK

Internet telephony station: b-SBC

Authorization name:

Password:

Confirm Password:

Call number assignment

Use public number (DID)

ITSP-multiple route: ☐

Default Number: +33296082190

**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] on this and the following pages and you will reach again the page “Provider configuration and activation for Internet Telephony”:

Setup - Wizards - Central Telephony - Internet Telephony

Provider configuration and activation for Internet Telephony

No call via Internet: ☐

Country specific view: France

Note: changes done in expert mode must be reviewed/repeated after running through the wizard.

	Activate Provider	Internet Telephony Service Provider
Add		Other Provider
Edit	<input type="checkbox"/>	Acropolis
Edit	<input type="checkbox"/>	Bouygues
Edit	<input type="checkbox"/>	Broadcloud
Edit	<input type="checkbox"/>	COLT UK & Europe
Edit	<input type="checkbox"/>	COLT VPN
Edit	<input type="checkbox"/>	Comptel
Edit	<input type="checkbox"/>	Hexatel
Edit	<input type="checkbox"/>	MyStream
Edit	<input type="checkbox"/>	OpenIP
Edit	<input checked="" type="checkbox"/>	Orange Business Services SIP trunking
Edit	<input checked="" type="checkbox"/>	Orange-BAK

Help Abort Back OK & Next Display Status

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 on the Orange Business Services provider side.

Fill in the available bandwidth, and distribute the amount of SIP channels. The bandwidth does not need to be exact, it can also have a higher value.

Both Trunks “nominal” and “backup” must get the same amount of lines.

Setup - Wizards - Central Telephony - Internet Telephony

Settings for Internet Telephony

**Simultaneous Internet Calls**

Available Lines for ITSP: 246

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) = 20000**

In the 'Change Feature --> Internet Telephony' Assistant. This upstream allows you to conduct up to 60 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): 20000

Number of Simultaneous Internet Calls: 16 Distribute Lines

**Line assignment**

Internet Telephony Service Provider	Configured Lines	Assigned Lines
Orange Business Services SIP trunking	0	16
Orange-BAK	0	16

Help Abort Back OK & Next

Click [OK & Next]

Fill in the special numbers.

Setup - Wizards - Central Telephony - Internet Telephony

Special phone numbers

Note:

Emergency calls should always be built up with ISDN or Analog Trunk for safety reasons.

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	0C15	Orange Business Services SIP trunking
2	0C17	Orange Business Services SIP trunking
3	0C18	Orange Business Services SIP trunking
4	0C112	Orange Business Services SIP trunking
5	0C115	Orange Business Services SIP trunking
6	0C119	Orange Business Services SIP trunking
7		Orange Business Services SIP trunking
8		Orange Business Services SIP trunking
9		Orange Business Services SIP trunking
10		Orange Business Services SIP trunking
11		Orange Business Services SIP trunking
12		Orange Business Services SIP trunking
13		Orange Business Services SIP trunking

Help Abort Back OK & Next

On next page status of ITSP is displayed.

Setup - Wizards - Central Telephony - Internet Telephony

Status for the Internet Telephony Service Provider (ITSP)

	Provider		User	
<input type="checkbox"/> Restart	Orange-BAK	Enabled	a-SBC	registered <input type="button" value="Diagnose"/>
<input type="checkbox"/> Restart	Orange Business Services SIP trunking	Enabled	b-SBC	registered <input type="button" value="Diagnose"/>

Help Abort Back Next

Click [Next]

“Exchange Line Seizure”:

Nominal SBC should be used with access code 0. If the local area code was not entered in first step PBX number (see “Internet Telephony” configuration), then there will be a field to enter the local area code (without prefix digits)

Setup - Wizards - Central Telephony - Internet Telephony

Exchange Line Seizure

Exchange Line Seizure

Trunk Access Code 0

Dial over Provider

Area Code

Please enter the local area code.

Local area code: 0

Help Abort Back OK & Next

Click [OK & Next]

Overview with all configured “Outside line Seizure” is displayed.



Protocol Name	Port Number	Port Type
CSP	8800	single
HFA	4060	single
HFA_EXT	4062	single
HFA_TLS	4061	single
HFA_TLS_EXT	4063	single
MEB_SIP	15060	single
RTP_MIN	29100	min. (ext. RTP-port range 30274-30529)
SIP	5070	single
SIP_EXT	5060	single
SIP_TLS_SUB	5062	single
SIP_TLS_SUB_EXT	5071	single
SIPS	5061	single
VSL_MULTISITE	8778	single

The internal SIP port should be set to a different port (e.g. 5070). Having internal and external port with the same value is possible but may lead to significant security risks.

After the port(s) is changed OSBiz **MUST** be restarted.

## Codec Parameters

To comply with the requirements of the Orange Business Services SIP trunk the following codec parameters **MUST** be changed:

- RFC 2833 payload type **MUST** be 101.
- RFC 2198 support **MUST** be disabled.
- G.729AB is **NOT** supported by ORANGE and **SHOULD** be disabled.

Codec	Priority	Voice Activity Detection	Frame Size
G.711 A-law	Priority 1	VAD: <input type="checkbox"/>	20 msec
G.711 µ-law	Priority 2	VAD: <input type="checkbox"/>	20 msec
G.729A	Priority 3	VAD: <input type="checkbox"/>	20 msec
G.729AB	not used	VAD: <input checked="" type="checkbox"/>	20 msec

**Enhanced DSP Channels**

Use G.711 only: ☐

**T.38 Fax**

T.38 Fax: ☒

Use FillBitRemoval: ☒

Max. UDP Datagram Size for T.38 Fax (bytes): 1472

Error Correction Used for T.38 Fax (UDP): t38UDPRedundancy

**Misc.**

ClearChannel: ☐ Frame Size: 20 msec

**RFC2833**

Transmission of Fax/Modem Tones according to RFC2833: ☒

Transmission of DTMF Tones according to RFC2833: ☒

Payload Type for RFC2833: 101

Redundant Transmission of RFC2833 Tones according to RFC2198: ☐

## SIP Parameters

To comply with the requirements of the Orange Business Services SIP trunk the following SIP parameter **SHOULD** be changed:

- Transaction Timeout **SHOULD** be modified from 32s (default value) to 5s.

The screenshot shows the 'Expert mode - Telephony Server' configuration window. The left sidebar lists various configuration categories, with 'SIP Parameters' selected. The main panel displays the 'SIP Parameters' configuration page. The 'Transaction Timeout (msec)' field is highlighted with a red box and set to 5000. Other fields include 'SIP Transport Protocol' (SIP via TCP: Yes, SIP via UDP: checked, SIP via TLS: Yes), 'SIP Registrar' (Period of registration (sec): 120), 'RFC 3261 Timer Values' (Transaction Timeout (msec): 5000), 'SIP Session Timer' (RFC 4028 support: checked, Session Expires (sec): 7101, Minimal SE (sec): 90), 'DNS Records' (Blocking time for unreachable destination(sec): 60), and 'Provider Calls' (Maximum possible Provider Calls: 16). Buttons for 'Apply', 'Undo', and 'Help' are at the bottom.

## License

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

The screenshot shows the 'OpenScape Business Assistant' 'License Management' window. The left sidebar lists various configuration categories, with 'License Management' selected. The main panel displays the 'CO Trunks' configuration page. The 'SIP trunks' section shows the 'License demand for number of simultaneous Internet calls in this node' set to 16. The 'PRI (S2M/T1)' section shows a table with columns: Type Slot, Port, Feature, Demands, and used licenses. Buttons for 'Abort' and 'OK & Next' are at the bottom.

## LCR changes

For the SIP trunk failover functionality to work, additional configuration is required in LCR (LCR Overflow).

Expert mode - Telephony Server

LCR

LCR Flags

Classes Of Service

Dial Plan

Routing table

Dial rule

Multisite

Dial Plan

Change Dial Plan

Display Dial Plan

Dial Plan	Name	Dialed digits	Routing Table	Acc. code	Classes of service	Emergency
16	Services	855CZ	4		<input checked="" type="checkbox"/>	<input type="checkbox"/>
17	National	855C0-Z	28		<input checked="" type="checkbox"/>	<input type="checkbox"/>
18	Local	855C1Z	5		<input checked="" type="checkbox"/>	<input type="checkbox"/>
19	Local	855CNZ	5		<input checked="" type="checkbox"/>	<input type="checkbox"/>
20	International	855C00-Z	38		<input checked="" type="checkbox"/>	<input type="checkbox"/>
21	Orange Business	0CZ	4		<input checked="" type="checkbox"/>	<input type="checkbox"/>
22	Orange Business	0C0-Z	28		<input checked="" type="checkbox"/>	<input type="checkbox"/>
23	Orange Business	0C1Z	5		<input checked="" type="checkbox"/>	<input type="checkbox"/>
24	Orange Business	0CNZ	5		<input checked="" type="checkbox"/>	<input type="checkbox"/>
25	Orange Business	0C00-Z	38		<input checked="" type="checkbox"/>	<input type="checkbox"/>
26	Orange-BAK	856CZ	6		<input checked="" type="checkbox"/>	<input type="checkbox"/>
27	Orange-BAK	856C0-Z	29		<input checked="" type="checkbox"/>	<input type="checkbox"/>
28	Orange-BAK	856C1Z	7		<input checked="" type="checkbox"/>	<input type="checkbox"/>
29	Orange-BAK	856CNZ	7		<input checked="" type="checkbox"/>	<input type="checkbox"/>
30	Orange-BAK	856C00-Z	39		<input checked="" type="checkbox"/>	<input type="checkbox"/>
31	Appl-Suite	-296082186	12		<input checked="" type="checkbox"/>	<input type="checkbox"/>
32	Standard	88CZ	1		<input checked="" type="checkbox"/>	<input type="checkbox"/>
33	IP-Network	-Z	13		<input checked="" type="checkbox"/>	<input type="checkbox"/>
34	C.O.Internat	0C00-33-7	14		<input checked="" type="checkbox"/>	<input type="checkbox"/>

Page 1 of 10

Items per page 10 25 50 100

Apply Undo Help

Open each routing table (e.g. 4,5,28 and 38) of the primary SIP trunk (i.e. Orange Business Services SIP trunking) and configure the backup trunk as the second entry with the same dialing rules (i.e. Orange-BAK).

Expert mode - Telephony Server

LCR

LCR Flags

Classes Of Service

Dial Plan

Routing table

1 - Table

2 - Table

3 - Table

4 - Table

5 - Table

6 - Table

7 - Table

8 - Table

9 - Table

10 - Table

11 - Table

12 - Table

13 - Table

14 - Table

15 - Table

16 - Table

17 - Table

18 - Table

19 - Table

20 - Table

21 - Table

22 - Table

23 - Table

24 - Table

25 - Table

26 - Table

Routing Table

Change Routing Table

en-bloc sending

Routing Table: 4

Index	Dedicated Route	Route	Dial Rule	min. COS	Warning	Dedicated Gateway	GW Node ID
1	<input type="checkbox"/>	Orange Bus	Add_cc_to_Can	15	None	No	
2	<input type="checkbox"/>	Orange-BAK	Add_cc_to_Can	15	Display	No	
3	<input type="checkbox"/>	None	None	15	None	No	
4	<input type="checkbox"/>	None	None	15	None	No	
5	<input type="checkbox"/>	None	None	15	None	No	
6	<input type="checkbox"/>	None	None	15	None	No	
7	<input type="checkbox"/>	None	None	15	None	No	
8	<input type="checkbox"/>	None	None	15	None	No	
9	<input type="checkbox"/>	None	None	15	None	No	
10	<input type="checkbox"/>	None	None	15	None	No	
11	<input type="checkbox"/>	None	None	15	None	No	
12	<input type="checkbox"/>	None	None	15	None	No	
13	<input type="checkbox"/>	None	None	15	None	No	
14	<input type="checkbox"/>	None	None	15	None	No	
15	<input type="checkbox"/>	None	None	15	None	No	
16	<input type="checkbox"/>	None	None	15	None	No	

Apply Undo Help

Repeat for all routing tables (e.g. 4,5,28 and 38). The “Display” value above is optional and serves to notify the user on the phone that the call goes through the backup interface.



Dial rules:

Rule Name	Dial rule format	Network access	Type
1 CO	A	Main network supplie	Unknown
2 SIP	A	Main network supplie	Unknown
3 SIP local	HE2A	Main network supplie	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	D0E4A	Main network supplie	Unknown
9 Add_cc_to_Canoni	D33E2A	Main network supplie	Country code
10 National_to_Cano	D33E3A	Main network supplie	Country code
11 Internat_to_Can	E3A	Main network supplie	Country code
12 SIP local_Canoni	HE2A	Main network supplie	Country code
13 Emergency-Custom	A	Main network supplie	Unknown
14		Unknown	Unknown
15		Unknown	Unknown
16		Unknown	Unknown
17		Unknown	Unknown
18		Unknown	Unknown
19		Unknown	Unknown

## Route configuration (optional)

The route configuration will be created automatically. It should look like below.

Best practice is to enter the default Access Code in the field “Seizure code”, enter the Country code for the PABX number-incoming and select Location number.

Route Name: Orange Bus

Seizure code: 0

CO code (2nd trunk code):

**Gateway Location**

Country code: 33

Local area code:

PABX number:

**PABX number-incoming**

Country code: 33

Local area code:

PABX number:

Location number: ☒

**PABX number-outgoing**

Country code:

Local area code:

PABX number:

Suppress station number: ☐

**Overflow route**

Overflow route: None

Note: Trk Grp. is automatically chosen by the OSBiz ITSP wizard.

Likewise, for the failover route.

Expert mode - Telephony Server

Trunks/Routing

Trunks

Route

ISDN

Trk Grp. 2

Trk Grp. 3

Trk Grp. 4

Trk Grp. 5

Trk Grp. 6

Trk Grp. 7

UC Suite

Trk Grp. 9

Trk Grp. 10

Trk Grp. 11

Orange-BAK

Orange Bus

Trk Grp. 14

Trk Grp. 15

Networking

QSIG-Feature

MSN assign

ISDN Parameters

Route

Change Route

Change Routing Parameters

Special Parameter change

Route Name: Orange-BAK

Seizure code: 856

CO code (2nd trunk code):

Gateway Location

Country code: 33

Local area code:

PABX number:

PABX number-incoming

Country code: 33

Local area code:

PABX number:

Location number:

PABX number-outgoing

Country code:

Local area code:

PABX number:

Suppress station number:

Overflow route

Overflow route: None

Apply

Undo

Help

The route parameters:

Expert mode - Telephony Server

Trunks/Routing

Trunks

Route

ISDN

Trk Grp. 2

Trk Grp. 3

Trk Grp. 4

Trk Grp. 5

Trk Grp. 6

Trk Grp. 7

UC Suite

Trk Grp. 9

Trk Grp. 10

Trk Grp. 11

Orange-BAK

Orange Bus

Trk Grp. 14

Trk Grp. 15

Networking

QSIG-Feature

MSN assign

ISDN Parameters

Route

Change Route

Change Routing Parameters

Special Parameter change

Routing flags

Digit repetition on:

Analysis of second dial tone / Trunk monitoring:

Intercept per direction:

Over. service 3.1 kHz audio:

Add direction prefix incoming:

Add direction prefix outgoing:

Call No. with international / national prefix:

Ringback tone to CO:

Name in CO:

Segmentation: yes

deactivate UUS per route:

Always use DSP:

Analog trunk seizure: no pause

Trunk call pause: Pause 6 s

Type of seizure: linear

Route type: CO

No. and type. outgoing: Country code

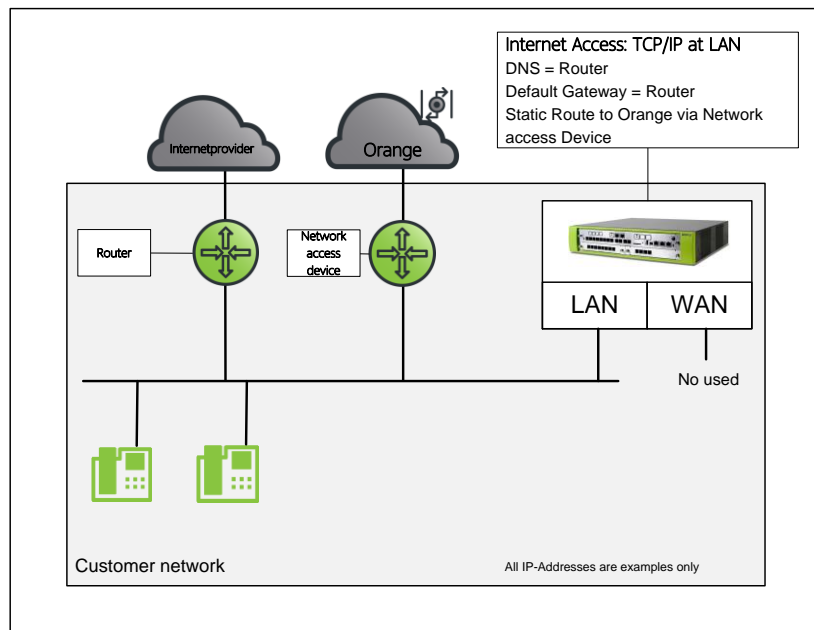
Apply

Undo

Help

These settings are shown as reference. The OSBiz ITSP wizard will set all these parameters to the correct values, no manual intervention is needed here.

## Usage of Orange Network Access device



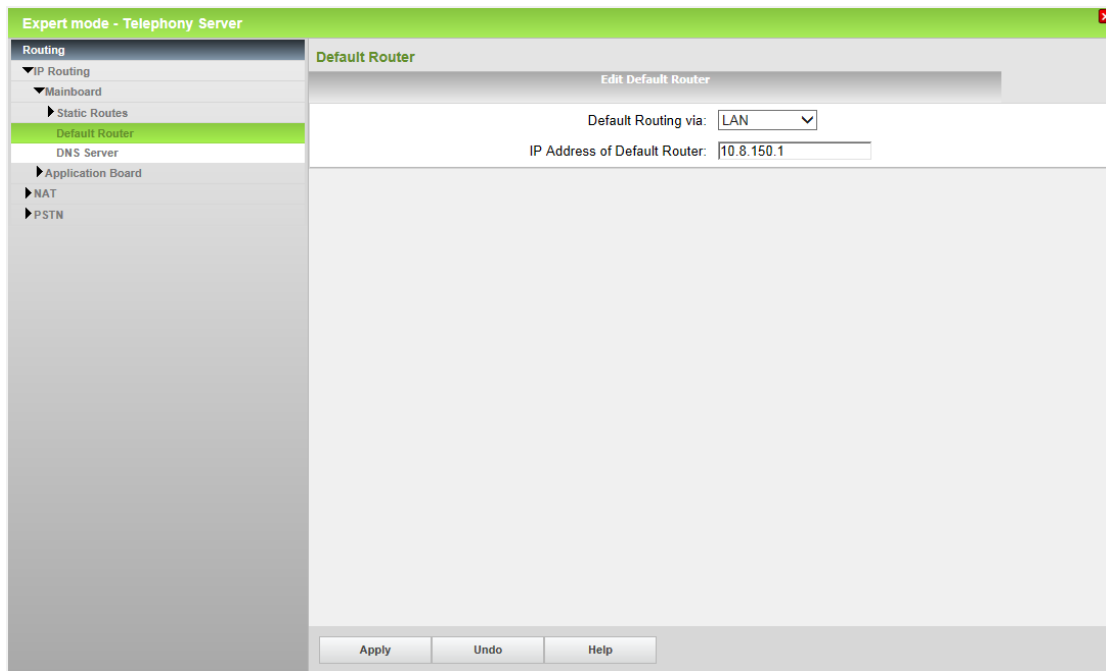
The OSBiz is connected via the LAN, to a Network Access device delivered to the customer as standard by Orange Business Services. This device will be added in the same subnet as the OSBiz subnet. The IP address of the device can be adapted by Orange, so that the Network Access device can be added in an existing voice VLAN of the OSBiz.

Inside this subnet, there is a default gateway. The SIP and RTP traffic to the Orange Business Services provider however needs to be routed via the Network Access device, all other traffic from OSBiz needs to be routed to the standard default gateway inside the subnet.

To be able to route the SIP/RTP traffic for Orange via the Network Access device, you do need to add a static route in the OSBiz. The static route is added for the Orange Business Services target IP address, with as gateway the IP address of the Network Access device.

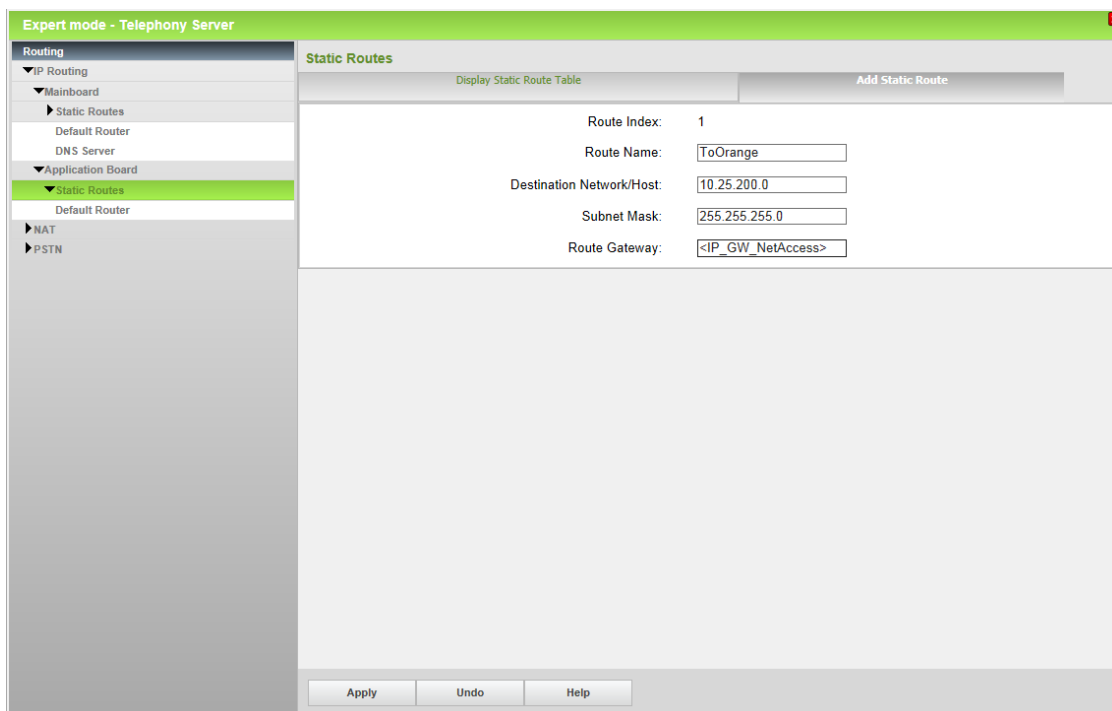
To do so, go to the Expert Mode -> Routing

The default gateway needs to be configured with the address of the internet router.



Traffic to the Orange SBCs e.g. 10.25.200.73 (nominal), 10.25.200.83 (backup) needs to be routed via the Network Access device.

To be on the safe side a route to a Class C subnet should be added -> 10.25.200.0 with mask 255.255.255.0.



For an OSBiz S system the static routing configuration takes place in Linux O/S with using YAST or CLI.

Please, note that the network topology provided in the current paragraph is a generic one for the most common Orange customer environments. There are more networking options available to fit the specific Orange customer needs. More information is provided at Orange FR website.