

OpenScape Business

How to Configure SIP Trunk for
Foliateam - France

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Table of History

Date	Version	Changes
18.10.2019	1.0	First version LM/DB
29.10.2019	1.1	Validated version
10.09.2024	1.2	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.

Information

ISTP profile FOLIATEAM is natively integrated in the V2R7.1 version.

SIP infrastructures are provided according to the number of channels requested by the customer.

The minimal OSBiz software version supported is osbiz_v2R7.1.

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

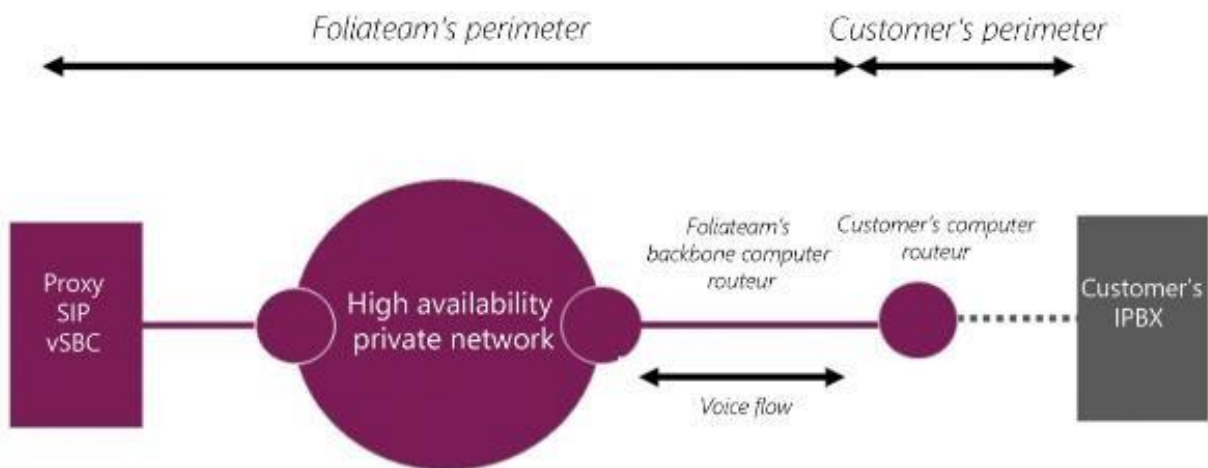
This document describes the configuration of the Openscape Business for the French market on our SIP proxy infrastructure.

Trunk Configuration Data provided by Foliatteam

The configuration data required to configure the SIP trunk will be provided by the Foliatteam services.

The values for registration are provided by Foliatteam.

Our services production is described in the diagram below, the access link (SDSL or FTTO) is MPLS VPN type:

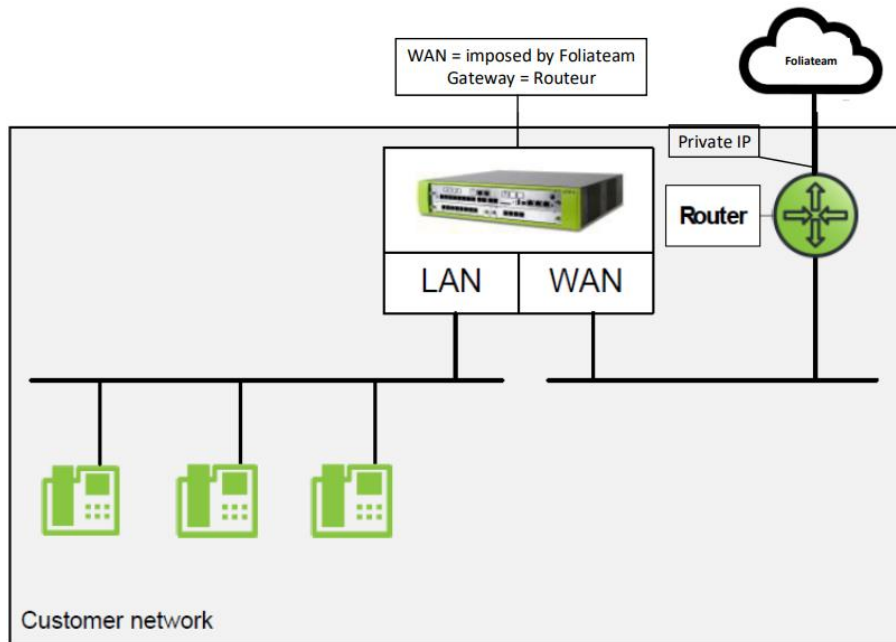


Use LAN or WAN interface

The VOIP network is imposed by the proxy provider, the OSBiz allows 2 configurations (LAN or WAN interface):

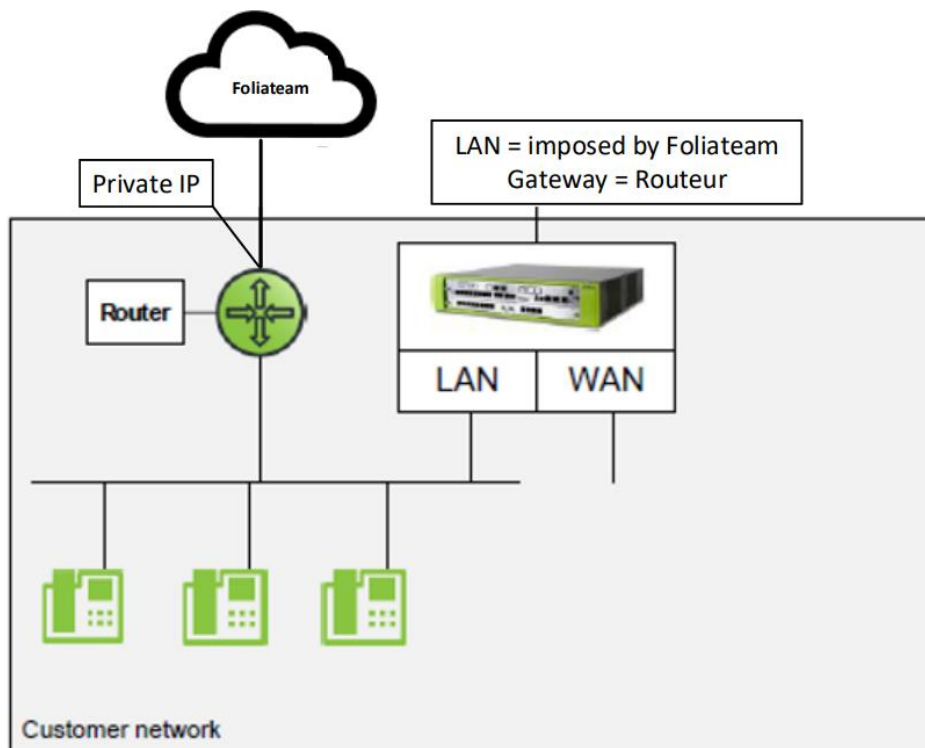
No possibility to change Network IP address:

- Use the WAN interface for the SIP TRUNK, the LAN interface for VOIP (HFA extension, VOIP applications).



Possibility to change Network IP address:

- Use the LAN interface for the SIP TRUNK and VOIP (HFA extension, VOIP applications).



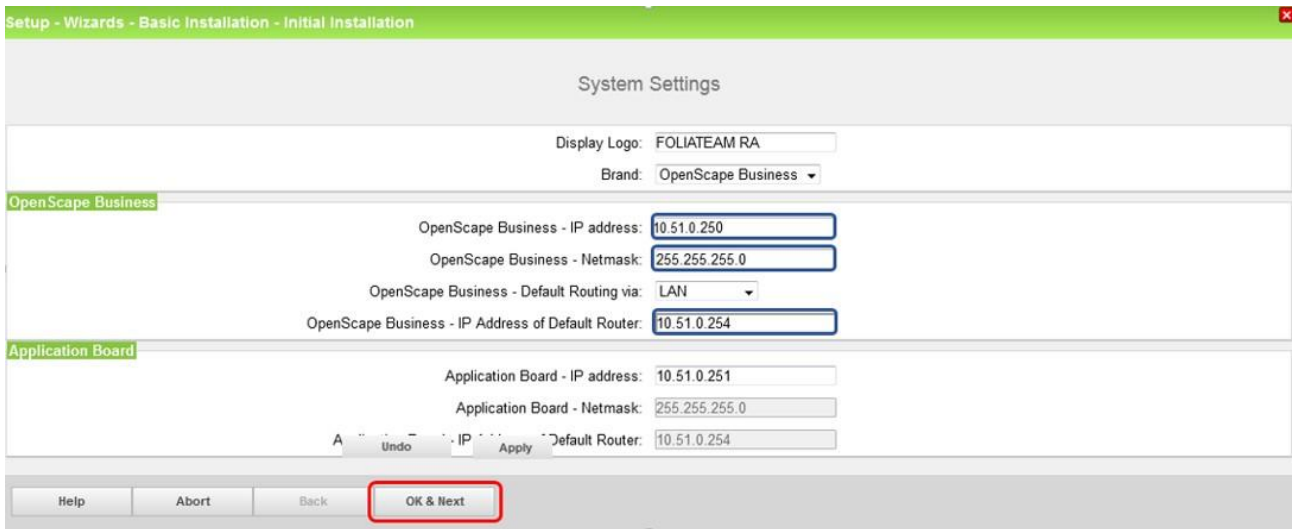
Network configuration

LAN Network interface configuration

Network setting:

Setup/Basic_Installation/Initial_Installation

Modify the IP setting of the IPBX according to the network addressing imposed by the Proxy configuration (IP address / GW address), example:



Click [OK & Next]. Until the end of the wizard, **system reboot**

WAN Network interface configuration

LAN network configuration can't be changed.

You must activate the WAN interface for the SIP trunk (LAN connection type TCP / IP) and assign the IP address imposed by the Proxy (IP Address/Mask):

Expert_mode/Telephony_Server/Network_Interfaces

Expert mode - Telephony Server

Network Interfaces

- Mainboard
 - Host Name
 - LAN 1 (WAN)
 - LAN 2
 - LAN 3 (Admin)
 - FTP-Server
 - DHCP
- Application Board
 - Host Name
 - LAN 1
 - LAN 2

Mainboard LAN 1 (WAN)

Show LAN 1 Mode Edit LAN 1 Interface Edit ACD

Internet Service Provider Selection: LAN Connection Type TCP/IP

Internet access via an external Router:

Automatic Address Configuration (via DHCP):

IP Address: 10.51.0.100

Subnet Mask: 255.255.255.0

MAC Address: 00:1a:e8:c2:0d:b1

Ethernet Link Mode: Auto

Max. Data Packet Size (bytes): 1500

Network Address Translation:

Undo Apply Help

PABX default gateway is LAN interface (ex 192.168.1.254), so it is necessary to add 2 static route table to join the proxy + the PPTP connection (remote VPN for IPBX administration):

Expert_mode/Telephony_Server/Routing

Expert mode - Telephony Server

Routing

- IP Routing
- Mainboard
 - Static Routes
- Application Board
 - NAT
 - PSTN

Static Routes

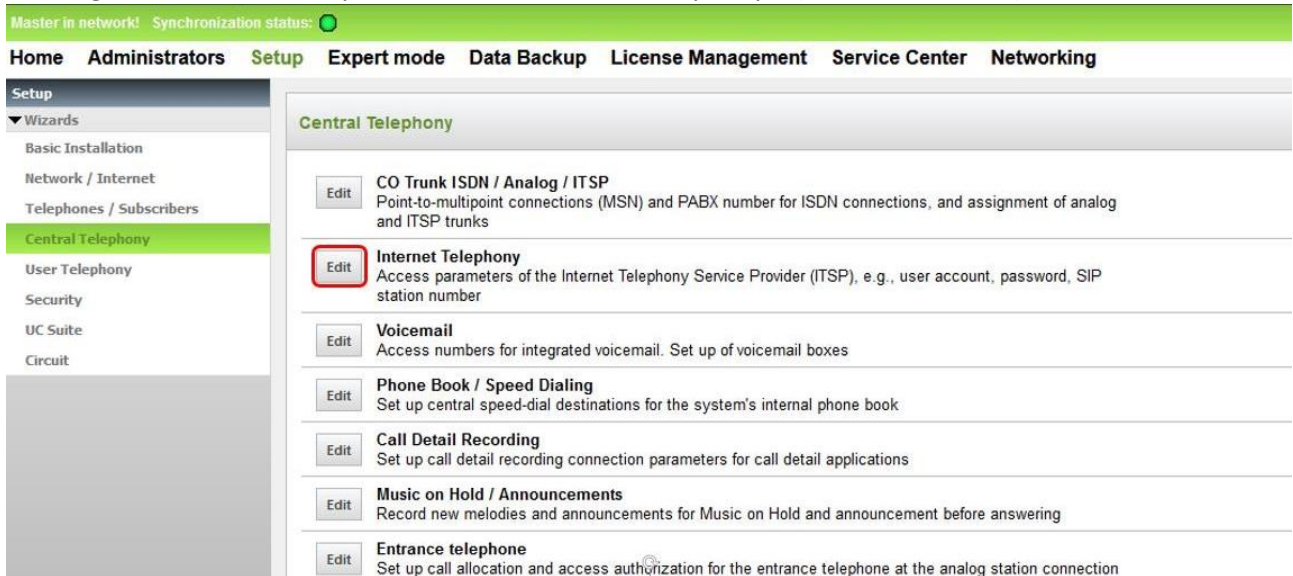
Display Static Route Table Add Static Route

Route Index	Route Name	Destination Network/Host	Subnet Mask	Route Gateway
1	FOLIATEAM ITSP	100.64.0.0	255.255.255.0	10.51.0.254
2	VPN_PTPP	172.31.255.0	255.255.255.0	10.51.0.254

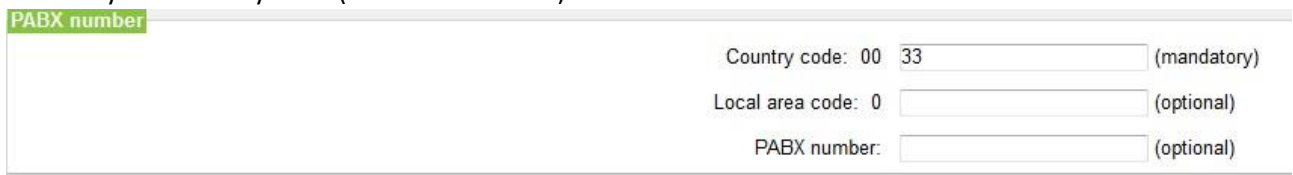
ITSP account configuration

Configuration/Telephony_central/Telephony_internet

To configure the SIP account you must use « internet Telephony » (screenshot below).

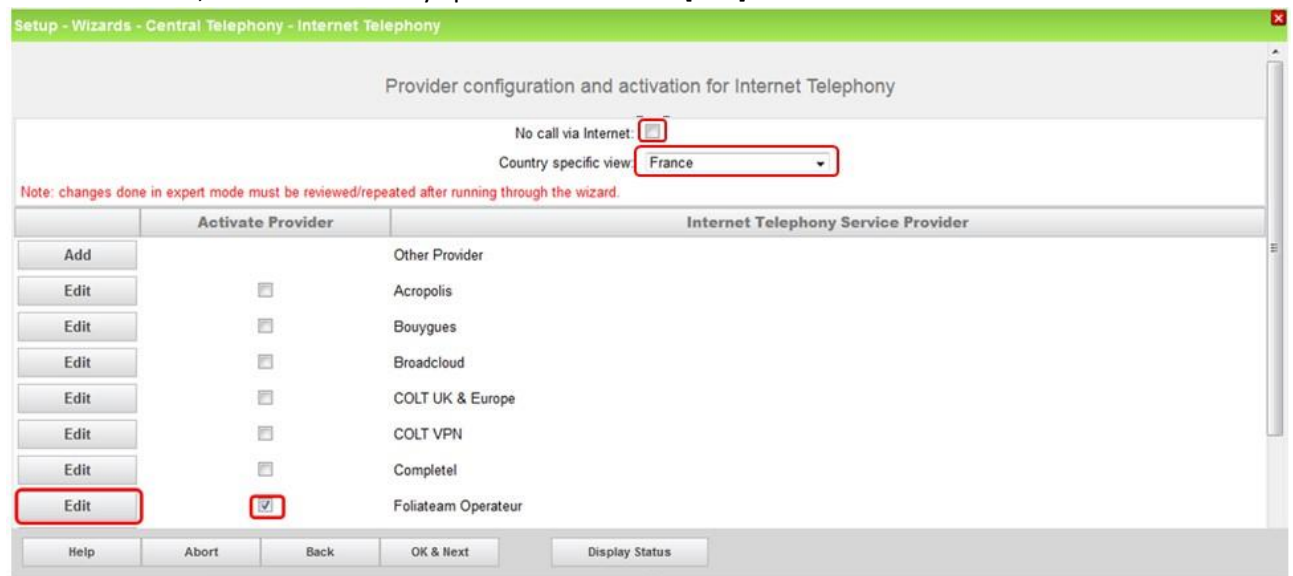


Enter only the Country code (screenshot below).



Click [OK & Next].

Activate Provider, Use France County specific and click on [Edit]:



On the next page you have to check the following information:

Internet Telephony Service Provider

Provider Name: Foliateam Operateur
Enable Provider:
Secure Trunk:
Domain Name: 100.64.0.1

Provider Registrar

Use Registrar:
IP Address / Host name: 100.64.0.1
Port: 5060
Reregistration Interval at Provider (sec): 120

Provider Proxy

IP Address / Host name: 100.64.0.1
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 on [Add].

Internet Telephony Stations for Foliateam Operateur

	Name of Internet Telephony Station
Add	New Internet Telephony Station

Abonné téléphonique Internet pour Foliateam Operateur

Abonné téléphonique DSL: des_tsip3
Nom d'autorisation: des_tsip3
Mot de passe: ●●●●
Répéter le mot de passe: ●●●●

Route multiple ITSP:
Valeur par défaut: 450679600

Valeur par défaut
ITSP comme accès réseau primaire
Entrez ici l'un des numéros d'appel fournis par votre opérateur de réseau. Il sera utilisé dans les appels sortant comme numéro d'appelant dans le cas où aucun autre numéro n'est disponible pour l'appel correspondant. Tous les numéros d'appel fournis par votre opérateur de réseau doivent être entrés dans la configuration de la ligne et des téléphones (champ SDA) de l'accès réseau primaire.

Aide Annuler Retour **OK & Suite** Effacer les données

Internet telephony station:

Username is inserted here (e.g: des_tsip3)

Authorization name:

Username is inserted here (the values username/password for registration are provided by Foliateam)

Password:

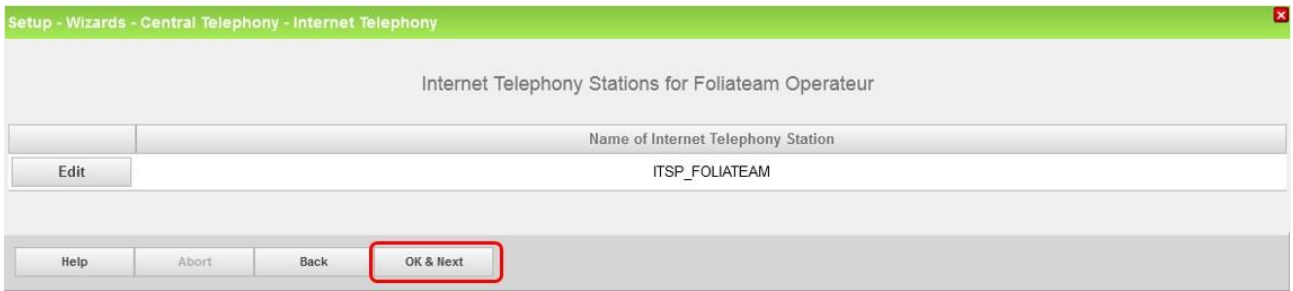
Password provided by Foliateam

Default number:

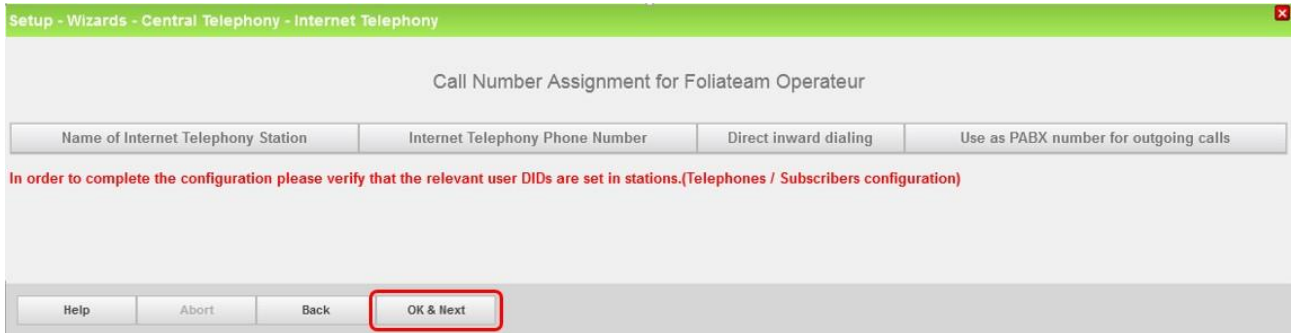
Main number of connection. The default number is used as outgoing number when no DDI number is assigned to a station. (e.g: 450679600).

Usually the **Lead Number** is entered here.

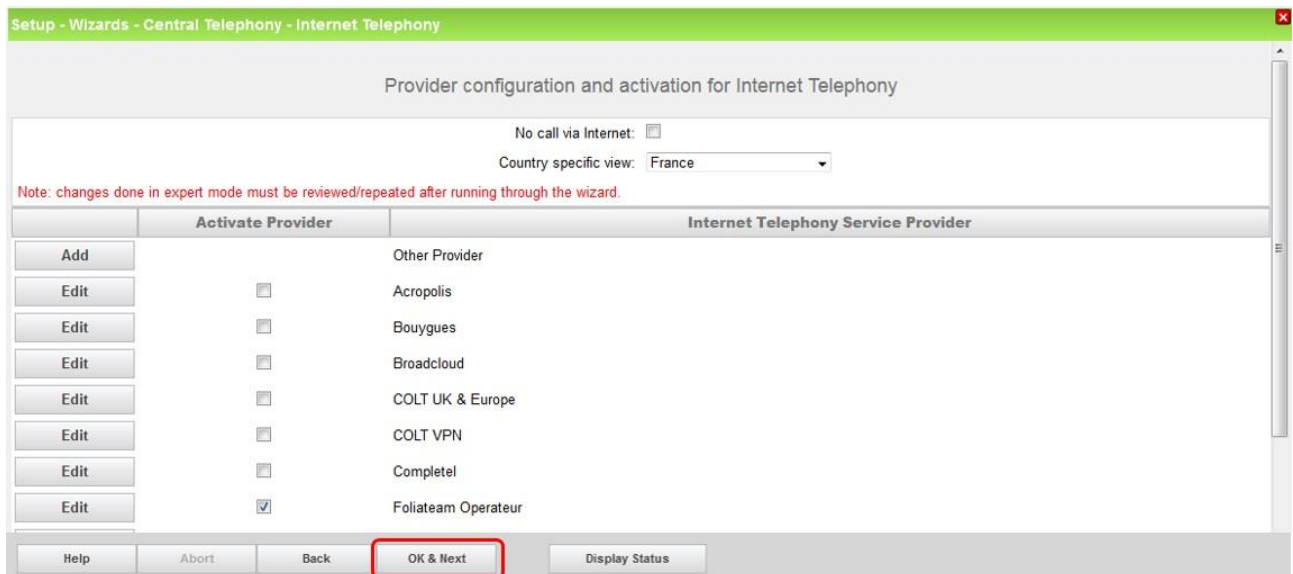
Click [OK & Next]



Click [OK & Next]



Click [OK & Next]



Click [OK & Next].

Define bandwidth (# Trunks)

Enter the bandwidth and the number of channels planned, then "distribute lines": (PS: it takes about 128 kbit/s per line)

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) = 1024**

In the 'Change Feature --> Internet Telephony' Assistant. This upstream allows you to conduct up to 8 Internet phone calls simultaneously. If the call quality deteriorates due to the network load, need to reduce this number of simultaneous calls.

The number of simultaneous Internet Calls also depends on the licensing.

Upstream up to (Kbps): 1024

Number of Simultaneous Internet Calls: 5

Line assignment

Internet Telephony Service Provider	Configured Lines	Assigned Lines
Foliateam Operateur	5	5

Help Abort Back **OK & Next**

Click [OK & Next]

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	Foliateam Operateur
2	0C17	Foliateam Operateur
3	0C18	Foliateam Operateur
4	0C112	Foliateam Operateur
5	0C115	Foliateam Operateur
6	0C119	Foliateam Operateur
7		Foliateam Operateur
8		Foliateam Operateur

Help Abort Back **OK & Next**

Check ITSP status

Setup - Wizards - Central Telephony - Internet Telephony

Status for the Internet Telephony Service Provider (ITSP)

	Provider	Enabled	User	
<input checked="" type="checkbox"/> Restart	Foliateam Operateur	Enabled	ITSP_FOLIATEAM registered	Diagnose

Help Abort Back **OK & Next**

Click [OK & Next]

Select Foliateam Operator Provider, Enter local code (ex: Southeast "4"),

Setup - Wizards - Central Telephony - Internet Telephony

Exchange Line Seizure

Exchange Line Seizure

Trunk Access Code 0

Dial over Provider Foliateam Operateur

Area Code

Please enter the local area code.

Local area code: 0 4

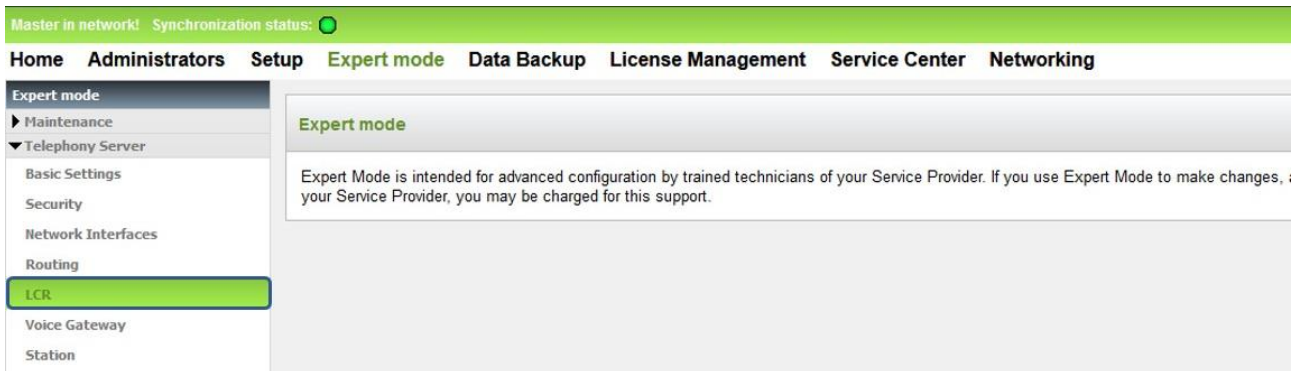
Help Abort Back OK & Next

Click [OK & Next].

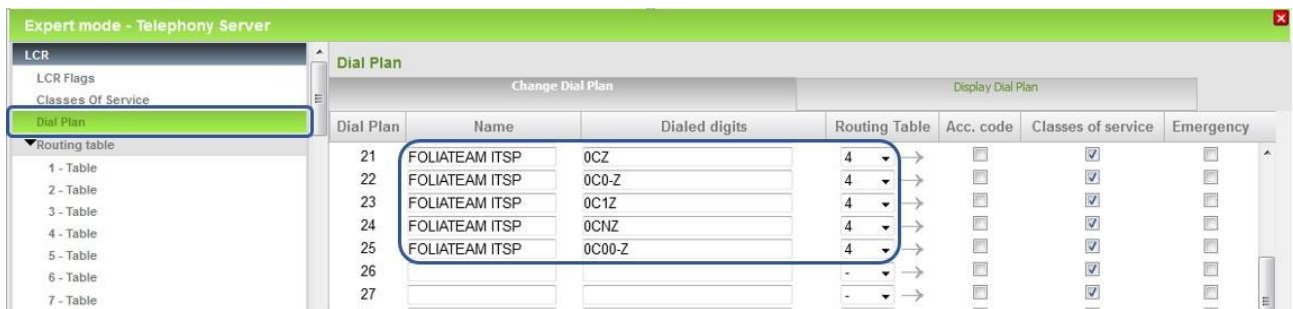
LCR

Once the operation is complete, the wizard has configured the LCR table, so you may check the following information:

Expert_mode/Telephony_Server/LCR



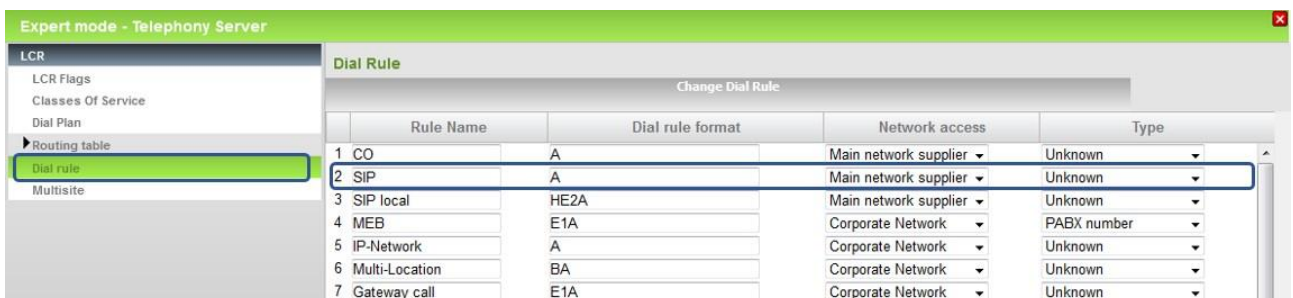
Dial plan:



Routing Table :



Dial rule:



DID configuration

In the DID Section, the full DID will need to be entered without the country code (fr = 9 digits).

Expert mode - Telephony Server						
IP Clients						
Station		Edit Subscriber	Device Info	Secondary Gateway	Fallback Hosting	
Callno	DID	First Name	Last Name	Display	Type	
Search: 130						
130	→ 450679601	Reunion	-	Reunion	System Client	

License

Add the "S2M/SIP Trunk" license to the SIP-Trunk:

Home Administrators Setup Expert mode Data Backup License Management Service Center

License Management

License information

Additional Products

OpenScape Personal Edition

Local User licenses

Overview

IP User

TDM User

Mobility User

Deskshare User

CO Trunks

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: 32

SIP trunks

The configured number of simultaneous Internet calls for each Internet Telephony Service Provider is: 10

License number of simultaneous Internet calls in this node: 10

License demand for number of simultaneous Internet calls in this node: 10

PRI (S2M/T1)	Type Slot	Port	Feature	Demands
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Codec Parameters

Go to Expert Mode ⑦ Telephony Server ⑦ Voice Gateway ⑦ Codec Parameters

To comply with the requirements of the ITSP the following codec parameters **MUST** be changed:

1. Only G.711 is supported by FOLIATEAM ITSP.

T38 fax protocol is not supported, Fax is supported via G.711 only but not recommended (Foliateam recommends the use of its fax-to-mail / mail-to-fax services). For this reason, you **MUST** disable T38 protocol.

Expert mode - Telephony Server

Voice Gateway

SIP Parameters

ITSP Loc-ID Settings

Codec Parameters

Destination Codec Parameters

Internet Telephony Service Provider

Networking

SIPQ-Interconnection

Native SIP Server Trunk

Codec Parameters

Edit Codec Parameters

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 4	VAD: <input type="checkbox"/>	20 msec
G.729AB	Priority 3	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): 138UDPRedundancy

Check ITSP status

Service_Center/Diagnostics/Status

Show status allows you to check if the account is connected,

