OpenScape Business V2



How to Configure SIP Trunk for ITSP Foliateam



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



Information

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

SIP infrastructures are provides according to the number of channels requested by the customer:

ІРВХ			Type of Trunk SIP		
BUILDERS	MODELES	VER.	PREMIUM 1-30 CHANNELS	PLATINIUM +30 CHANNELS	>100 CHANNELS
UNIFY	OpenScape Business	V2	Proxy	VSBC	Tailor-made offer Dedicated vSBC

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 Foliateam

The configuration data required to configure the SIP trunk will be provided by the Foliateam services. . The values for registration are provided by Foliateam.

Our services production are 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:

Setup - Wizards - Basic Installation - Initial Installation	2
System	Settings
Display Logo:	FOLIATEAM RA
Brand:	OpenScape Business 👻
OpenScape Business	
OpenScape Business - IP address:	10.51.0.250
OpenScape Business - Netmask:	255.255.255.0
OpenScape Business - Default Routing via:	LAN 🗸
OpenScape Business - IP Address of Default Router:	10.51.0.254
Application Board	
Application Board - IP address:	10.51.0.251
Application Board - Netmask:	255.255.255.0
A Undo IP Apply Default Router:	10.51.0.254
Help Abort Back OK & Next	

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

Network Interfaces	Mainboard LAN 1 (WAN)		
Host Name	Show LAN 1 Mode Edit L/	AN 1 Interface	Edit ACD
LAN 1 (WAN)	Internet Service Provider Selection:	AN Connection Type TCP/IP -	
LAN 2 LAN 3 (Admin) FTP-Server	Internet access via an external Router:	1	
DHCP	Automatic Address Configuration (via DHCP):	9	
▼Application Board	IP Address: 10	0.51.0.100	
Host Name LAN 1	Subnet Mask: 2	55.255.255.0	
LAN 2	MAC Address : 00	0:1a:e8:c2:0d:b1	
	Ethernet Link Mode: A	Auto 👻	
	Max. Data Packet Size (bytes): 1	500	
	Network Address Translation:	1	
	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

	Static Routes					
TP Routing		Display Static Route Table			Route	
▼Mainboard						
Static Routes	Route Index	Route Name	Destination Network/Host	Subnet Mask	Route Gateway	
Default Router	1	FOLIATEAM ITSP	100.64.0.0	255.255.255.0	10.51.0.254	
DNS Server	2	VPN PTPP	172.31.255.0	255.255.255.0	10.51.0.254	
Application Board		-				
NAT						
PSTN						



ITSP account configuration

Configuration/Telephony_central/Telephony_internet

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

UNIFY		OpenScape				
Master in network! Synchronizat	ion status: 🔘					
Home Administrators	Setup Expert mode Data Backup License Management Service Center Networking					
Setup						
▼ Wizards	Central Telephony					
Basic Installation						
Network / Internet	CO Trunk ISDN / Analog / ITSP					
Telephones / Subscribers	Point-to-multipoint connections (MSN) and PABX number for ISDN connections, and assignment of analog					
Central Telephony						
User Telephony	Edit Internet Telephony Access parameters of the Internet Telephony Service Provider (ITSP), e.g., user account, password, SIP	Edit Internet Telephony Access parameters of the Internet Telephony Senice Provider (ITSP) e.g. user account password SIP				
Security	station number					
UC Suite	Edit Voicemail					
Circuit	Access numbers for integrated voicemail. Set up of voicemail boxes					
	Edit Phone Book / Speed Dialing Set up central speed-dial destinations for the system's internal phone book					
	Edit Call Detail Recording Set up call detail recording connection parameters for call detail applications					
	Edit Music on Hold / Announcements Record new melodies and announcements for Music on Hold and announcement before answering					
	Edit Edit Edit Set up call allocation and access authorization for the entrance telephone at the analog station connection					

Enter only the Country code (screenshot below).

PADA number		
Country code: 00	33	(mandatory)
Local area code: 0		(optional)
PABX number:		(optional)

Click [OK & Next].

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

Setup - Wizards	- Central Telephony - Internet Tele	ephony	×
		Provider configuration and activation for Internet Telephony	Î
		No call via Internet:	
Noto: changes don	a in avaat made must be reviewed/rene	Country specific view: France	
Note: changes don	Activate Provider	Internet Telephony Service Provider	-1
Add		Other Provider	E
Edit		Acropolis	
Edit		Bouygues	
Edit		Broadcloud	
Edit		COLT UK & Europe	
Edit		COLT VPN	
Edit		Completel	
Edit		Foliateam Operateur	
Help	Abort Back	OK & Next Display Status	



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

Setup - Wizards - Central Telephony - Internet Telephony	
Internet Telephon	y Service Provider
Provider Name:	Foliateam Operateur
Enable Provider:	V
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:	þ
Help Abort Back OK & Next Delete Da	ta

Click on [Add].

Setup - Wiza	ds - Central Telephony - Internet Telephony
	Internet Telephony Stations for Foliateam Operateur
	······································
	Name of Internet Telephony Station
Add	New Internet Telephony Station

Configuration - Assistants - Téléphonie centrale - Téléphonie Internet	0		
Abonné téléphonique Interne	et 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]



Setup - Wizards	- Central Telephony - Internet Telephony	×
	Internet Telephony Stations for Foliateam Operateur	
	Name of Internet Telephony Station	
Edit	ITSP_FOLIATEAM	
Help	Abort Back OK & Next	

Click [OK & Next]

etup - Wizards - Central Telephony - Internet Telephony									
Call Number Assignment for Foliateam Operateur									
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 verif	y that the relevant user DIDs are set in stations.(Tr	elephones / Subscribers config	uration)						
Help Abort Back	OK & Next								

Click [OK & Next]

Setup - Wizards ·	- Central Telephony - Internet Tel	ephony		×
		Provider configuration and act	ctivation for Internet Telephony	Â
		No call via Internet:		
		Country specific view:	France -	
Note: changes don	e in expert mode must be reviewed/repe	ated after running through the wizard.		
	Activate Provider		Internet Telephony Service Provider	
Add		Other Provider		Ξ
Edit		Acropolis		
Edit		Bouygues		
Edit		Broadcloud		
Edit		COLT UK & Europe		
Edit		COLT VPN		
Edit		Completel		
Edit		Foliateam Operateur		
Help	Abort Back	OK & Next Display St	Status	

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 yo Upstream up to (Kbps) = 1024	ur Internet connection communicated by your Provider. You have t	yped in		
In the 'Change Feature> Internet Telephony' Assistant. This upstr need to reduce this number of simultaneous calls.	eam allows you to conduct up to 8 Internet phone calls simultaned	ously. If the call quality deteriorates due to the network load,		
The number of simultaneous Internet Calls also depends on the lice	ensing.			
	Upstream up to (Kbps): 1024			
Numbe	er of Simultaneous Internet Calls: 5	Distribute Lines		
Line assignment				
Internet Telephony Service Provider	Configured Lines	Assigned Lines		
Foliateam Operateur	5	5		
Help Abort Back OK & Ne	xt			

Click [OK & Next]

	Special phone numbers	
gency calls should always be built up with ISI	DN or Analog Trunk for safety reasons.	
se 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 👻
2	0C18	Foliateam Operateur 👻
3		
3	0C112	Foliateam Operateur 👻
3 4 5	0C112 0C115	Foliateam Operateur 👻
3 4 5 6	0C112 0C115 0C119	Foliateam Operateur V Foliateam Operateur V Foliateam Operateur V
3 4 5 6 7	0C112 0C115 0C119	Foliateam Operateur Foliateam Operateur Foliateam Operateur Foliateam Operateur

Check ITSP status

etup - Wizards - Central Telephony - Internet Telephony									
Status for the Internet Telephony Service Provider (ITSP)									
Provider		User							
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 Provide	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:

Expert mode - Telephony Server								×		
LCR	Dial Plan	al Plan								
LCR Flags Classes Of Service	E	Change	e Dial Plan	Display Dial F	Plan					
Dial Plan	Dial Plan	Name	Dialed digits	Routing Table	Acc. code	Classes of service	Emergency			
Routing table	21	FOLIATEAM ITSP	0CZ	$4 \rightarrow$		V				
1 - Table	22	FOLIATEAM ITSP	0C0-7	$4 \rightarrow$		V				
2 - Table	23	FOLIATEAM ITSP	0C1Z	$4 \rightarrow$						
3 - Table	24	FOLIATEAM ITSP	0CNZ	$4 \rightarrow$		V				
4 - Table	25	FOLIATEAM ITSP	0C00-Z	$4 \rightarrow$		V				
5 - Table	26		,							
7 - Table	27			· • →				E		

Routing Table :

Expert mode - Telephony Server													×
LCR		Rout	ing Table										
LCR Flags Classes Of Service	=						Change Routing Tabl	le			-	н.	
Dial Plan ▼Routing table	_						Routing Table	:4		en-blo	c sending		
1 - Table		Index	Dedicated Route	Route			Dial Rule	min. COS	Warı	ning	Dedica Gatew	ted ay	GW Node ID
3 - Table		1		FOLIATEAM	•	SIP	→	15 👻	None	-	No	-	
4 - Table		2		None	•	None	•	15 👻	None	-	No	-	
5 - Table		3		None	•	None	•	15 👻	None	•	No	•	

Dial rule:

Expert mode - Telephony Server										
LCR		Dial Rule								
LCR Flags Classes Of Service			_							
Dial Plan		Rule Name Dial rule format		Network access	Туре					
Routing table	_ 1	CO	A	Main network supplier 👻	Unknown	-				
Dial rule	2	SIP	A	Main network supplier 👻	Unknown	-				
Multisite	3	SIP local	HE2A	Main network supplier 👻	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	•				



DID configuration

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

	IP Clients						
▼ Station	Edit Subscr		Device Info	Secondary	Gateway	Eallback Hosting	
UP0 Stations			Dence and	beechadry	. abduct hosting		
▼IP Clients	Callno	DID	First Name	Last Name	Display	Туре	
System Clients	Search:	1					
SIP Clients	130						-
RAS User	130 →	450679601	Reunion	-	Reunion	System Client	•
Deskshare User							

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	CO Trunks			
▼Additional Products				
OpenScape Personal Edition	The access to central office via PRI(S2m/T1) tr	runks or via Inter	net telephony is licensed by CO t	trunk licenses
▼Local User licenses	Available	e licenses for SI	P and PRI(S2m/T1) trunks: 32	
Overview	SIP trunks			
IP User	The config for e	ured number of s ach Internet Tele	simultaneous Internet calls phony Service Provider is: 10	
TDM User	License number	of simultaneous	Internet calls in this node: 10	
Mobility User	License demand for number	of simultaneous	Internet calls in this node:	0 🗸
Deskshare User	DDI (\$2M/T4)			
CO Trunks	Type Slot	Port	Feature	Demands
e • •				

Codec Parameters

Go to Expert Mode \rightarrow Telephony Server \rightarrow Voice Gateway \rightarrow 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 TSP Loc-ID Settings	Codec Parameters	Edit Codec Parameter	s		
Codec Parameters Destination Codec Parameters Internet Telephony Service Provider Networking SIPQ-Interconnection Native SIP Server Trunk	Codec G.711 A-law G.711 µ-law G.729A G.729AB	Priority Priority 1 V Priority 2 V Priority 4 V Priority 3 V	Voice Activity Detection VAD: [] VAD: [] VAD: [] VAD: [] VAD: []	Frame Size	20 v msec 20 v msec 20 v msec 20 v msec
	Enhanced DSP Channels T.38 Fax Max. UDP Error	Use G.711 only T.38 Fax: Use FillBitRemoval: Datagram Size for T.38 Fax (bytes): Correction Used for T.38 Fax (UDP)	I 1472		



Check ITSP status

Service_Center/Diagnostics/Status

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

Station Status	Dialup Network Status	ITSP Status	VPN Status	Overview of IP Addre	esses BLF Status
	Charter	a far tha Internat Talar	nhony Conviso F		
	Statu	s for the Internet Telep	phony Service F	Provider (ITSP)	
	Statu	s for the Internet Tele; _{Fournisseur}	phony Service F	Provider (ITSP)	5