

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:

- 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"

UNIFY Harmonize your enter	e prise	OpenScape Business Assistant		
System in networld Synchronization sta	tus: O	administrator@system Logoff		
Home Setup Expert mode	Data Backup License Management Service Center Networking			
Setup				
▼ Wizards	tion ternet Subscribers CO Trunk ISDN / Analog / ITSP Point-to-multipoint connections (MSN) and PABX number for ISDN connections, and period analog and ITSP Point-to-multipoint connections (MSN) and ITSP			
Basic Installation Network / Internet Telephones / Subscribers				
Central Telephony	Internet Telenhony			
User Telephony Security	hony Edit Access parameters of the Internet Telephony Service Provider (ITSP), e.g., user account, password, SIP station number			
UC Smart	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 Record new melodies and announcements for Music on Hold and announcement be answering	fore		
	Edit Entrance telephone Set up call allocation and access authorization for the entrance telephone at the ana station connection	log		
	Edit 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	0 32 (mandatory)			
Local area code: 0	0 (optional)			
PABX number:	r. (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

**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

Setup - Wizards - Central Telephony - Internet Telephony					
Provider configuration and activation for Internet Telephony					
No call via Internet:					
Country specific view: Belgium					
Note: changes dor	e in expert mode must be reviewed/repeated	I after running through the wizard.			
	Activate Provider	Internet Telephony Service Provider			
Add		Other Provider			
Edit		BCOM (BE)			
Edit		Belgacom IMS			
Edit		ВКМ			
Edit		Broadcloud			
Edit		COLT UK & Europe			
Edit	0	COLT VPN			
Edit		Destiny			
Edit		gnTel			
Edit		IPnexia			
Edit		OrangeBE			
Edit		Skype Connect			
Edit	Π	Skvoe for Business			
Help	Abort Back OK	& Next Display Status			

Activate Provider and click on [Edit]. The following settings are shown. They should not be changed.

Setup - Wizards - Central Telephony - Internet Telephony 🛛 🛛 🗙			
Internet Telephony	y Service Provider		
Provider Name:	BKM		
Enable Provider:			
Secure Trunk:			
Domain Name:	ssw0.bkmcs.be		
Provider Registrar Use Registrar	Ø		
IP Address / Host name:	ssw0.bkmcs.be		
Port:	5060		
Reregistration Interval at Provider (sec)	300		
Provider Proxy IP Address / Host name: Port:	ssw0 bkmcs.be		
Provider Outbound Proxy Use Outbound Proxy:			
IP Address / Host name:	0.0.0		
Port:	D		
Help Abort Back OK & Next Delete Data			

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 Privider
- set Provider Registrar and Provider Proxy IP Address to 10.0.1.100
- Deactivate STUN

etup - Wizards - Central Telephony - Internet Telephony	
Internet Telephony	y Service Provider
Base Template:	BKM - predefined
Provider Name:	BKM-Priv
Enable Provider:	
Secure Trunk:	
Domain Name:	ssw0.bkmcs.be
Transport protocol:	udp 🔻
ovider Registrar	
Use Registrar:	
IP Address / Host name:	10,0.1.100
Port:	5060
Reregistration Interval at Provider (sec)	300
ovider Proxy IP Address / Host name:	10.0 1 100
Port	5060
ovider Outbound Proxy	
Use Outbound Proxy:	
IP Address / Host name:	0.0.0.0
Port:	D
ovider Inbound Proxy	
Use Inbound Proxy:	
IP Address / Host name:	0.0.0
Port:	0
Use STUN	
IP Address / Host name:	stun.cloudbkm.com
Heln Abort Back OK & Nev	Delete Bata

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.

Internet telephony station: Authorization name:	account ID of BKM is inserted here (e.g. 329909022520) 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			
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 D	elete Data			

Click [OK & Next].

Setup - Wizards - Central Telephony - Internet Telephony				
Internet Telephony Stations for BKM				
	Name of Internet Telephony Station			
Edit	32990902520			
	•			
Help Abo	n Back OK & Next			

Click [OK & Next].

Satup - Witzarda - Central Telephony - Internet Telephony					
Call Number Assignment for BKM					
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 DID	are set in stations.(Telephones / Subscribers configuration)				
Help Abort Back 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.

Setup - Wizards - Central Telephony - Internet Telephony					
	Settings for Inte	net Telephony	(		
Simultaneous Internet Calls					
Available Lines for ITSP: 246					
Please enter in field 'Upstream up to (Kbit/sec)' the Upstream of your Internet connection communicate Upstream up to (Kbps) = 1024	Please enter in field Upstream on to (Kistivsc) the Upstream of your Internet connection communicated by your Provider. You have typed in Upstream of to (Kingha) = 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, you will need to re	duce this number of simulta	ineous calls.
The number of simultaneous Internet Calls also depends on the licensing.					
	Upstream up to (Kbps):	1024			
	Number of Simultaneous Internet Calls:	2	Distribute Lines		
Line assignment			4		
Internet Telephony Service Provider	Configure	d Lines			Assigned Lines
ВКМ	2		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.

Setup - Wizards - Central Telephony - Internet Telephony		0
	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 'ser
1	0C112	✓ BKM
2		ВКМ
3		ВКМ
4		ВКМ
5		ВКМ
6		ВКМ
7		ВКМ
8		ВКМ
9		ВКМ
10		ВКМ
11		ВКМ
12		ВКМ
13		ВКМ
14		ВКМ
15		BKM
Help Abort Back OK & Next		

Setup - Wizard	s - Central Telephony	- Internet Telep	thony						6
			•	Statu	tatus for the Internet Telephony Service Provider (ITSP)				
			Provider				User		
Re	start	BKM			Enabled	329909030108	registered		Diagnose
			/						
Help	Abort	Back	Next						

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.

Satup - Wizards - Central Talaphony - Internet Talaphony
Surbana Line Sciewa
EAchairge Laire Saizhie
Trunk Access Code 0
Dial over Provider BKM 👩
Aves Code Please enter the local area code: Local area code: Local area code: 2
Halp Abort Back OK & Next