

# **OpenScape Business V3**

# configure SIP Trunk for Virtual-Call

- Austria
- Brazil
- Germany
- Spain
- Switzerland
- United Kingdom

OpenScape Business V3 Mainboard Family OpenScape Business S

# About this document

This configuration guide describes an example of how to set up the SIP trunk *Virtual-Call* as an ITSP connection to the OpenScape Business.

**Note**: The basis for this document is the current OpenScape Business V3R4. 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	V3R4
Virtual-Call	Features & Capabilities
Account (DID/Client)	DID
Multisite	yes - dedicated trunk (multiple registration)
CLIP / CLIR	yes
CLIP no Screening	no
COLP	no
Call Forwarding (302)	yes
DTMF (RFC2833/4733)	yes
Codecs G.722/G.711/G.729	no / yes / no
T.38 Fax	yes
Secure trunk	no

## **Remarks:**

The SIP trunk Virtual-Call is released for:

- OpenScape Business V3 Mainboard Familiy
- OpenScape Business S

OpenScape Business requires call routing via the media unit bundles (RTP proxy) to be activated by *Virtual-Call*.

#### IP Address Table

Via I	IP		Туре	
1	132.145.244.68	Signaling	SIP Cluster	
2				
3	132.145.235.152	MuRundler	Media Unit Rundler	
4	132.145.232.74	Mubullules	Media Onic Bundles	
s				
6				
7	Media Unit bundles a	re used in RTP traf	fic exchange, initiating calls, etc.	
8				

Option for Backup Routing of incoming calls in case of internet failure

CLIP no Screening requires to deactivate the Backup Routing option "Overriding Identity" by the *Virtual-Call* support.

Otherwise, the CLIP number is replaced with the main number.

The ability to send or receive T.38 faxes depends on the characteristics of the remote station and is only available for IP system connections with activated T.38 codec.

# **Table of Contents**

Information	. 5
Trunk Configuration Data provided by Virtual-Call	. 5
Configuration Wizard	. 6
Internet Telephony	. 6
Define bandwidth (# Trunks)	11
Special phone numbers	12
DID configuration	14
Additional Configuration	15
License	15

# **Table of History**

Date	Version	Changes
03.12.2024	1.0	release Virtual-Call mit OpenScape Business V3R4

# Information

The *Virtual-Call* SIP-Trunk will be released for the first time with OpenScape Business V3R4.

# **Trunk Configuration Data provided by Virtual-Call**

The configuration data needed to setup the SIP trunk is available in the *Virtual-Call* customer portal <u>https://my.virtual-call.net</u>.

# **Configuration Wizard**

# **Internet Telephony**

Go to Central Telephony – "Internet Telephony"

								administrator@system	Logon
Home	Administrators	Setup Expe	ert mode	Data Backup	License Management	nt	Service Center		
Setup									
<b>→</b> Wizard	ls	Central 1	Telephony						0
Basic I	Installation								•
Netwo	rk / Internet		CO Trunk IS	DN / Analog / IT:	SP				
Teleph	ones / Subscribers	Edit	Point-to-multi of analog and	point connection ITSP trunks	is (MSN) and PABX number fo	ior ISI	DN connections, and assignment		
Centra	l Telephony		Internet Tele	phony					
User To	elephony	Edit	Access parar	neters of the Inte	ernet Telephony Service Provid	ider (I	ITSP), e.g., user account,		
Securit	ty		password, SI	P station number	r.				
UC Sui	te	Edit	Voicemail Access numb	ers for integrated	d voicemail. Set up of voicema	nail bo	oxes		
Cloud 9	Services		Phone Book	/ Speed Dialing	•				
Mass D	Data	Edit	Set up centra	I speed-dial dest	tinations for the system's inter	rnal p	bhone book		
		Edit	Multisite Ma	nagement					
		Edit	Configuration	of multi-ITSP co	onnections				
		Edit	Call Detail R	ecording					
		Lait	Set up call de	etail recording col	innection parameters for call d	detail	applications		
		Edit	Music on Ho	dd / Announcem	nents				
			answering	nelodies and anr	nouncements for Music on Hol	old an	nd announcement before		
		Edit	Entrance tel	ephone					
		Edit	Set up call all connection	location and acce	ess authorization for the entra	ance t	telephone at the analog station		

#### Figure 1

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	
Over	rview
Note: changes done in expert mode must be reviewed/repeated after running through the w Note: At least the configuration of the 'Country code' is needed for features such as 'Interne PABN cumber	vizard. at telephony' and 'MeetMe conference'.
Country code: 00	49 (mandatory)
Local area code: 0	(optional)
PABX number:	(optional)
Help Abort Back OK & Next	

Figure 2

Click [OK & Next].

Provider configuration and activation for Internet Telephony

- No call via Internet -> uncheck
- Use County specific view: *Germany* and select *Virtual-Call*

Setup	- Wizards -	Central Telephony - Internet	Telephony	×
		P	rovider configuration and activation for Internet Telephony	Î
Note:	changes dor	ne in expert mode must be reviev	No call via Internet: □ Country specific view: Germany ✓ ved/repeated after running through the wizard.	
		Activate Provider	Internet Telephony Service Provider	
	Add		Other Provider	
	Edit		HE F	
	Edit		With Calendric 10 Million	
	Edit		Yith the	
C	Edit		Virtual-Call	
	Edit		Yydam	
	Edit		WITHOUT .	
	Edit		201. MMB	
	Fdit	Π	5/78	*
	Help	Abort Back	OK & Next Display Status	

#### Figure 3

Activate Provider and click on [Edit].

On the next page **Domain Name**, **Provider Registrar** and **Provider Proxy** are preconfigured and need not to be changed (no input needed).

Setup - Wizards - Central Telephony - Internet Telephony	
Internet Telephony	/ Service Provider
Provider Name:	Virtual-Call
Enable Provider:	
Secure Trunk:	
Domain Name:	trunk.virtual-call.net
Provider Registrar Use Registrar:	•
IP Address / Host name:	trunk.virtual-call.net
Port:	5060
Reregistration Interval at Provider (sec)	600
Provider Proxy IP Address / Host name: Port:	trunk.virtual-call.net
Provider Outbound Proxy Use Outbound Proxy:	0
IP Address / Host name:	0.0.0.0
Port:	0
Provider Feature Route optimize active:	
Help Abort Back OK & Next	Delete Data

Figure 4

On this page the behavior of the features call forwarding can be controlled:

- "Rerouting active" deactivated (default) -> a call forwarding establishes a second connection and control of the call remains in the OpenScape Business.
- "Rerouting active" activated -> Rerouting takes place in the Central Office during a call forwarding (SIP 302) and control of the call remains with the Central Office.

Click [OK & Next].

|--|

Setup - Wizards	etup - Wizards - Central Telephony - Internet Telephony				
	Internet Telephony Stations for Virtual-Call				
	Name of Internet Telephony Station				
Add	New Internet Telephony Station				
Help	Abort Back OK & Next				

### Figure 5

Click on [Add].

Data provided by the *Virtual-Call* via the customer portal.

Internet telephony station:	Username is inserted here
Authorization name:	Username is inserted here
Password:	Password provided by Virtual-Call
Default number:	Main number of connection. The default number is used as outgoing number when no DDI number is assigned to a station. Usually, the <b>Lead Number</b> is entered here.

Setup - Wizards -	Central Telephor	ny - Internet Tel	ephony	
			Internet Telephony S	tation for Virtual-Call
			Internet telephony station: Authorization name:	trunk trunk
			Password: Confirm Password:	·····
Call number assig	nment		Use public number (DID)	~
			ITSP-multiple route: Default Number:	+49 930
Default Number ITSP as primary C Enter one of the c the respective call All call numbers so	O access all numbers supplie upplied by your net	ed by your networ work provider are	k provider here. This will be use to be entered within the trunk a	d in outgoing calls as the calling party number in case no other number is available for nd telephones configuration (DID field) primary CO access.
	,			
Help	Abort	Back	OK & Next	Delete Data

## Figure 6

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

Setup - Wizards	Central Telephon	y - Internet Tele	ephony		×			
			Internet Tele	ephony Stations for Virtual-Call				
				Name of Internet Telephony Station				
Edit	dit							
Help	Abort	Back	OK & Next					

### Figure 7

## Click [OK & Next]

Setup - Wizards - Central Telephony - Inter	Setup - Wizards - Central Telephony - Internet Telephony								
Call Number Assignment for Virtual-Call									
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 pleas	e verify that the relevant user DIDs are set	in stations.(Telephones / S	ubscribers configuration)						
Help Abort Ba	ack OK & Next								
Figure 9									

#### Figure 8

# Click [OK & Next] (no input needed)

Setup - Wizards ·	Central Telephony - Internet	t Telephony			E
		Provider configuration and act	tivation for Inter	net Telephony	
		No call via Internet:			
		Country specific view:	Germany	~	
Note: changes do	ne in expert mode must be revie	wed/repeated after running through the	wizard.		
	Activate Provider		Internet Tel	ephony Service Provider	
Add		Other Provider			
Edit		101			
Edit		with claims much be			
Edit		You and			
Edit		Virtual-Call			
Edit		YV5num			
Edit		101710-001			
Edit	C				
Fdit	n	5/78			-
Help	Abort Back	OK & Next D	isplay Status		

# Figure 9 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 of the Virtual-Call Customer Portal.

Setup - Wizards - Central Telephony - Internet Teleph	hony			×				
	Settings for Inte	rnet Telephony						
Simultaneous Internet Calls Available Lines for ITSP: 170 Please enter in field "Unstream up to (Khit/see)" the Unstr	eam of your Internet connecti	on communicated by your Provi	der. You have typed in					
Upstream up to (Kbps) = 2048 In the 'Change Feature -> Internet Telephony' Assistant. This upstream allows you to conduct up to 16 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	The number of simultaneous Internet Calls also depends on the licensing.							
Upstream up to (Kbps): 2048								
Number of	Simultaneous Internet Calls:	4	Distribute Lines					
Line assignment								
Internet Telephony Service Provider	Configur	ed Lines	Assigne	d Lines				
Virtual-Call	C	4		]				
Help Abort Back	OK & Next							
Figure 10								

Click [OK & Next]

# Special phone numbers

up - Wizards - Central Telephony - Inf	ernet Telephony	
	Special phone numbers	
/te:		
ase make sure that all special call numbe	ers are supported by the selected provider without fail.	
Special phone number	Dialed digits	Dial over Provider
1	0C112	Virtual-Call 🗸
2	0C110	Virtual-Call 🗸
3	0C0137Z	Virtual-Call 🗸
4	0C0138Z	Virtual-Call 🗸
5	0C0900Z	Virtual-Call 🗸
6	0C118Z	Virtual-Call 🗸
7	0C116Z	Virtual-Call 🗸
8	0C115	Virtual-Call 🗸
9	0C010Z	Virtual-Call 🗸
10		Virtual-Call 🗸
Hala Abast	Reals OK 8 Next	

In this dialog it is possible to route special phone numbers.

### Figure 11

Click [OK & Next]

## On next page status of ITSP is displayed.

		Otorto it	n the internet rei	lepnony Service Pi	rovider (ITSP)	
		Provide	r		User	
Resta	rt	Virtual-Call	Enabled	= Itrunk	registered	Diagnos

Figure 12 Click [Next]

## "Exchange Line Seizure"

Select which trunk will access code 0. Enter the local area code without prefix digits (needed only when local area code was not entered in first step PBX number)

Setup - Wizards -	Central Telephor	ny - Internet Tele	ephony	
			Exchange L	ine Seizure
Exchange Line Se			Trunk Access Code	0
			Dial over Provider	Virtual-Call 🗸
Area Code Please enter the lo	ocal area code.		Local area code: 0	- Ta
Help	Abort	Back	OK & Next	

## Figure 13

Click [OK & Next]

## Overview with all configured "Outside line Seizure" are displayed.

etup - Wizards - Central Telephony - Internet Telephony X								
	Seizure Code for the 'Outside line Seizure'							
	Seizure code for 'Outside line Seizure'							
Virtual-Call	0							
Help Abort Back	K OK & NEXT							

## Figure 14

## Click [OK & Next] and

Setup - Wizards - Central Telephony - Internet Telephony X
The changes for the feature 'Internet Telephony' are completed
The Internet Telephony is switched on and configured
Once an "Internet Telephony Service Provider" has been activated/deactivated, it is necessary to run through the "Central Telephony - CO Trunk ISDN / Analog" wizard again.
For your own security, you should save the configuration data. To do this, upon completion of the wizard, choose 'Backup' in the main menu, and follow this by choosing 'Backup Immediately'.
Help Abort Back Finish

#### Figure 15

on the next page [Finish].

# **DID configuration**

In the DID Section, the DID will need to be entered (remaning part without country code, and if configured without local area code, PABX number).

tation	<b>IP Clients</b>	IP Clients								
VP0 Stations		-	Ed	lit Subscriber			Device Info			
▼IP Clients	Ca	llno	DID	First Name	Last Name	Display	Type		Clip/Lin	Active
System Clients	Search:									
SIP Clients								~		
RAS User										_
Deskshare User	140	$\rightarrow$	934	140	HFA	HFA, 140	System Client	▼ -		-
Analog Stations	-		-	-	]-	]-	No Port	✓ -	8	-
ISDN Stations	-		-	-	1-	]-	No Port	× -	2	-
DECT Stations	160	$\rightarrow$	936	160	HFA	HFA, 160	System Client	× -		-
▶ EVM	170	->	937	170	HEA	HEA 170	System Client	v .		=
Virtual Stations					1.		No Port			=
UC Applications			-				No Port			=
Profiles/Templates	<u> </u>		-				No Port	!=		
DDI Extensions	4						1006			
Mobility User										
SfB User										
Trusted External liser										

Figure 16

# **Additional Configuration**

# License

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

							administrator(@ofision	209011		
Home	Administrators	Setup	Expert mode	Data Backup	License Managemen	t Service Center				
License M	anagement									
License in	formation	C	O Trunks					()		
Addition	al Products									
OpenSc	ape Personal Edition	The	access to central of	ffice via PRI(S2m/T	1) trunks or via Internet telep	hony is licensed by CO trunk lice	censes			
▼Local Us	ser licenses	SIP	trunks	Available licenses in	01 SIF allu FKI(S2II/11) tiul	IKS. 240		_		
Overvie	w		Th	e configured number	er of simultaneous Internet c	alls				
IP User				for each Internet	Telephony Service Provider	is: 4				
TDM Us	er		License	number of simultan	eous Internet calls in this no	de: 4				
Mobility User			License demand for number of simultaneous Internet calls in this node: 4							
Desksha	are User	PR	(S2M/T1)							
CO Trunk	5		Type Slot	Port	Feature	Demands	used licenses			
System Li	censes						1			
▼License	Profiles									
Create I	Profiles									
Assign I	Profiles									
Registrati	on		Abort	Apply						
Activate L	icense Online									

Figure 17