**OpenScape Business V2** 

How to Configure SIP Trunk for Voyager New Zealand

# **Table of Contents**

Trunk Configuration Data provided by Voyager	4
Configuration Wizard	5
Internet Telephony	5
Define bandwidth (# Trunks)	10
Special phone numbers	
DID configuration	
Additional Configuration	
License	
LCR Tables	
Known limitations and restrictions:	

# **Table of History**

Date	Version	Changes	
28.06.2019	1.0	First version for V2R7	

## Trunk Configuration Data provided by Voyager

Example of info provided

Username:Labsystemtrunk1Password:gjx87nhrc5c4Realm:6786cc.sip.voyager.co.nzAccount Pilot Number:6498765432Test Number:6491234567Number of Channels:10

# **Configuration Wizard**

### **Internet Telephony**

### Go to Central Telephony – "Internet Telephony"

UNFY Harmonia	ze erprise	OpenScape Business Assistant
		administrator@system Logoff
Home Administrators Set	tup Expert mode Data Backup License Management Service Center	
Setup		
▼ Wizards	Central Telephony	0
Basic Installation Network / Internet Telephones / Subscribers Central Telephony	Edit CO Trunk ISDN / Analog / ITSP Point-to-multipoint connections (MSN) and PABX number for ISDN connections, and assignment of analog and ITSP trunks Internet Telephony Fait Access preprinted the Internet Telephony Senice Privider (ITSP), a.g., user account, password, SIP station number	
User Telephony Security	Edit         Voicemail           Access numbers for integrated voicemail. Set up of voicemail boxes	
UC Suite Circuit	Editt Phone Book / Speed Dialing Set up central speed-dial destinations for the system's internal phone book	
	Editt Multisite Management Configuration of multi-ITSP connections	
	Editt Call Detail Recording Set up call detail recording connection parameters for call detail applications	
	Editt Music on Hold / Announcements Record new melodies and announcements for Music on Hold and announcement before answering	
	Edit Entrance telephone Set up call allocation and access authorization for the entrance telephone at the analog station connection	

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			
	Ove	rview	
Note: changes done in expert mode must be reviewed/repeated after running through the Note: At least the configuration of the 'Country code' is needed for features such as 'Inter	wizard. net telephony' and 'M	eetMe conference'.	
PABX number			
	Country code: 00	64	(mandatory)
	Local area code: 0		(optional)
	PABX number:		(optional)

Click [OK & Next].

Provider configuration and activation for Internet Telephony -> No call via Internet -> uncheck Use County specific view: New Zealand and select "Voyager".

Setup - Wizards - Central Telephony - Internet Telephony		
Provider configuration and activation for Internet Telephony		
	No call via Internet: 🔲	
		Country specific view: New Zealand
Note: changes done	n expert mode must be reviewed/repeated after running through the wiza	Internet Telephony Service Provider
Δdd	Activate i fovider	Other Provider
Edit		Broadcloud
Edit		COLT UK & Europe
Edit		COLT VPN
Edit		anTel
Edit		Orcon Ltd
Edit		Skype Connect
Edit		Skype for Business
Edit		Telstra Clear WSIP
Edit		Verizon
Edit		Vodafone Anlagenanschluss R3
Edit		VoIPXS
Edit		Voyager

Activate Provider and click on [Edit].

On the next page you have to enter the Realm provided by Voyager in all fields marked with "please.enter.here":

- Domain Name, Provider Registrar and Provider Proxy:

The **Provider Outbound Proxy** is not used and therefore left deactivated.

Setup - Wizards - Central Telephony - Internet Telephony		
Internet Telephon	y Service Provider	
Provider Name:	Voyager	
Enable Provider:		
Secure Trunk:		
Domain Name:	6786cc.sip.voyager.co.nz	
Provider Registrar Use Registrar:		
IP Address / Host name:	6786cc.sip.voyager.co.nz	
Port:	5060	
Reregistration Interval at Provider (sec)	600	
Provider Proxy IP Address / Host name:	5786cc.sip.voyager.co x	
Port:	5060	
Provider Outbound Proxy Use Outbound Proxy:		
IP Address / Host name:	0.0.0.0	
Port:	0	
Provider Feature Route optimize active:		
Help Abort Back OK & Next Dele	te Data	

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

• "Route optimize active" deactivated (default) -> a call forwarding establishes a second connection and control of the call remains in the system

• "Route optimize active" activated -> Rerouting is carried out in the office during a call forwarding. The system loses further control over the call

Click [OK & Next].

#### In the next dialog the specific customer SIP Userdata will be configured.

Setup - Wizards - C	Setup - Wizards - Central Telephony - Internet Telephony		
	Internet Telephony Stations for BroadCloud		
	Name of Internet Telephony Station		
Add	New Internet Telephony Station		

Click on [Add].

Data provided by Voyager	
Internet telephony station:	Username is inserted here (e.g: Labsystemtrunk1)
Authorization name:	Username is inserted here (e.g: Labsystemtrunk1)
Password:	Password provided by Voyager
<b>Default number</b> : Main number of connection. The default number is used number when no DDI number is assigned to a station. (e., 6498765432). Usually the <b>Lead Number</b> is entered here.	

Setup - Wizards - Central Telephony - Internet Telephony		
	Internet Telephony	Station for Voyager
	Internet telephony station:	Labsystemtrunk1
	Authorization name:	Labsystemtrunk1
	Password:	•••••
	Confirm Password:	•••••
Call number assignment	Use public number (DID)	~
	ITSP-multiple route:	
	Default Number:	6498765432
Default Number ITSP as primary CO access		

All 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.

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

Setup - Wizards - Central Telephony - Internet Telephony		
	Internet Telephony Stations for Voyager	
	Name of Internet Telephony Station	
Edit	Labsystemtrunk1	

Click [OK & Next]

Setup - Wizards - Central Telephony - Internet Telephony		
Call Number Assignment for Voyag		nt for Voyager
Name of Internet Telephony Station	Internet Telephony Phone Number	Direct inw
In order to complete the configuration please verify that the relevant user DIDs	are set in stations.(Telephones / Subscribers configuration)	
Help Abort Back OK & Next		

Click [OK & Next] (no input needed)

Setup - Wizards - Central Telephony - Internet Telephony		
		Provider configuration and activation for Internet Telephony
		No call via Internet:
		Country specific view: New Zealand V
Note: changes do	ne in expert mode must be reviewed/repeated after running through the wiza	rd.
	Activate Provider	Internet Telephor
Add		Other Provider
Edit		Broadcloud
Edit		COLT UK & Europe
Edit		COLT VPN
Edit		gnTel
Edit		Orcon Ltd
Edit		Skype Connect
Edit		Skype for Business
Edit		Telstra Clear WSIP
Edit		Verizon
Edit		Vodafone Anlagenanschluss R3
Edit		VoIPXS
Edit		Voyager
Help	Abort Back OK & Next Dis	play Status

Click [OK & Next]

## Define bandwidth (# Trunks)

The amount of simultaneous Internet calls (Assigned Lines) must be aligned with the Number of Channels assigned by Voyager.

Setup - Wizards - Central Telephony - Internet Telephony								
Settings for Internet Telephony								
Simultaneous Internet Calls								
Available Lines for ITSP: 170	Available Lines for ITSP: 170							
Under 'Setup - Wizards - Network / Internet - Internet Access', you	u have entered the value Upstream up to (Kbps) = 10000							
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.								
Number of Simultaneous Internet Calls: 10 Distribute Lines								
Line assignment								
Internet Telephony Service Provider	Configured Lines	Assigned Lines						
BroadCloud	0	10						

Click [OK & Next]

## **Special phone numbers**

In this dialog it is possible to route special phone 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 s	selected provider without fail.				
Special phone number	Dialed digits	Dial over Provide			
1	10111	ISDN ~			
2		ISDN ~			
3		ISDN ~			
4		ISDN ~			
5		ISDN ~			
6		ISDN ~			
7		ISDN v			
8		ISDN v			
9		ISDN ~			
10		ISDN v			
11		ISDN ~			
12		ISDN v			
13		ISDN v			
14		ISDN ~			
15		ISDN 🗸			

#### Click [OK & Next]

On next page status of ITSP is displayed.

Setup - Wizards - Central Telephony - Internet Telephony							
Status for the Internet Telephony Service Provider (ITSP)							
	l l	Provider		l	User		
Restart	Voyager		Enabled	user_uiyguh	registered	Diagnose	

Click [Next]

"Exchange Line Seizure": Select which trunk will access code 1.

Setup - Wizards - Central Telephony - Internet Telephony	
	Exchange Line Seizure
	Trunk Access Code 1
	Dial over Provider ISDN 🗸

Click [OK & Next]

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

Setup - Wizards - Central Telephony - Internet Telephony						
	Seizure Code for the 'Outside line Seizure'					
	Seizure code for 'Outside line Seizure'					
ISDN	1					
Voyager	6200					

Click [OK & Next] and on the next page [Finish]

### **DID configuration**

In the DID Section, the full DID will need to be entered.

Expert mode - Telephony Server								
Station	UP0 Stations							
▼Station	Edit Subscriber					U	P0 Master/	Slave
▼UP0 Stations								
0 700 -	Callno	DID	First Name	Last Name	Display	Clip/Lin	Active	Device Type
1 701 -	Search:							
2 702 -								
3 703 -	700 →	-	-	-	-	1-	~	optiPoint 500 Advance
4 704 -	701 →	649123456	-	-	-	1-	i 🧹	optiPoint 500 Standard
5 705 -	702 →	-	-	-	-		1 🗸	optiPoint 500 Economy
6 706 -	703 →			1	-	1	i 🧹	optiPoint 500 Standard
7 707 -	704		][	1		1	1	F

# **Additional Configuration**

#### License

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

Home Administrators	Setup Expert mod	e Data Backup	License Mar	agement Service Cen	ter
License Management					
License information	CO Trunks				
▼Additional Products					
OpenScape Personal Edition	The access to centra	l office via PRI(S2m/T1)	ı trunks or via Inter	net telephony is licensed by CO	trunk licenses
▼Local User licenses		Availa	ble licenses for SI	P and PRI(S2m/T1) trunks: 32	
Overview	SIP trunks				
IP User		The cont for	figured number of s r each Internet Tele	simultaneous Internet calls phony Service Provider is: 10	
TDM User		License numbe	er of simultaneous	Internet calls in this node: 10	
Mobility User	Lie	anaa domond for numbe		Internet celle in this node:	10
Deskshare User		ense demand for numbe	er of simultaneous		10 •
CO Trunks	PRI (S2M/11)	<u></u>	D. (	<b>F</b> (	
6 J. J.	ly	pe Slot	Port	Feature	Demands

#### **LCR Tables**

Remove the default entries for access code "1" and insert correct entries beginning at Dial Plan entry 101

### **Known limitations and restrictions:**

T38 fax protocol is supported by Voyager as well as Fax via G.711.

HOWEVER Fax Transmission is not guaranteed on the Voyager network meaning there is no technical support from Voyager for Fax transmission issues