OpenScape Business V2

How to Configure SIP Trunk for BroadCloud USA

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Table of History

Date	Version	Changes
13.10.2016	0.7	First version
26.10.2016	0.8	Setting for rest of world
24.01.2017	0.9	Review by BroadCloud
23.02.2017	0.10	Adaption for V2R3; separate USA from rest of world
17.03.2017	0.12	Final review by BroadCloud
06.04.2017	1.0	Released

Information

The BroadCloud provider is available and released for the countries USA, UK, Germany, France, Italy and Australia.

This configuration guide is valid for USA only.

Trunk Configuration Data provided by BroadCloud

The configuration data needed to setup the SIP trunk can be found on the BroadCloud Enterprise Portal under SIP Trunking Page > Trunk Group > Edit under the selected Trunk Group:

broad cloud				O UK_Eng_Lab1	1 ≡ (0 1	🖒 Sign Out
DASHBOARD	Site: LAB1_TRUNKING_SITE * Site SIF	? Trunking					
	STrunk Capacity						
ASSIGNMENTS	* Channels Assigned To Site						
SERVICES	8 Channels In Use By Site	I Available					
	7/8	✓ Save					
	Trunk Groups						
	Name	Lond Number	Device Name	Call Forwarding			
	Name	Lead Number	Device Name	Call Forwarding			
	✓ Edit +442038593092	+442038593092	123452315121	Disabled		/ De	vice Status
	Edit Audiocodes M500	+442034093809	123452315121	Disabled		/ De	vice Status
	✔ Edit trunkgrouptest	+442034093810	123452315121	Disabled		/ De	vice Status

Configuration Wizard

Internet Telephony

Go to Central Telephony – "Internet Telephony"

UNIFY Harm	onize enterprise	OpenScape Business Assistant
		administrator@system Logoff
Home Administrators	Setup Expert mode Data Backup License Management Service Center	
Setup		
▼ Wizards	Central Telephony	0
Basic Installation Hetwork / Internet Telephones / Subscribers Central Telephony User Telephony Security UC Suite	Edit CO Trunk ISDN / Analog / ITSP Point-to-multipoint connections (MSN) and PABX number for ISDN connections, and assignment of analog and ITSP trunks Edit Intermet Telephony Access parameters of the Intermet Telephony Service Provider (ITSP), e.g., user account, password, SIP station number Edit Volcemail Access numbers for integrated voicemail. Set up of voicemail boxes Edit Phone Book / Speed Dialing Set up central speed-fail destinations for the system's internal phone book	
Gran	Edit Multisite Management Configuration of multi-ITSP connections 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 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				
rview				
<mark>fter running thro</mark> r features such	ugh the wizard. as 'Internet telephony' and 'MeetMe confere	nce'.		
1	(mandatory)			
	(optional)			
	(optional)			
	ny rview fter running thro r features such	ny rview fter running through the wizard. r features such as 'Internet telephony' and 'MeetMe confere 1 (mandatory) (optional) (optional)		

Click [OK & Next].

Provider configuration and activation for Internet Telephony -> No call via Internet -> uncheck Use County specific view: United States of America and select "BroadCloud USA".

Setup - Wizards - Central Telephony - Internet Telephony

Provider configuration and activation for Internet Telephony				
		No call via Internet: 🔲		
	с	ountry specific view: United States of America 👻		
Note: changes don	e in expert mode must t	pe reviewed/repeated after running through the wizard.		
	Activate Provider	Internet Telephony Service Provider		
Add		Other Provider		
Edit		AT&T		
Edit		BabyTEL		
Edit		BroadCloud		
Edit		BroadCloud USA		
Edit		Cbeyond		

Activate Provider and click on [Edit].

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

- Domain Name

The SIP Domain Name can be found on the BroadCloud Enterprise Portal, under SIP Trunking Page > Trunk Group > Edit under the selected Trunk Group. The part required is found on the section called Registered Domain.

!!! The Domain in the screenshot is only an example. !!!
Settings
* Name
+442038593092
* Lead Number
+442038593092 ~
Outbound Proxy
uk.sipconnect.broadcloud.eu
Register Domain
ukdemo.broadcloud.eu

Provider Registrar and the Provider Proxy. Use the country individual names:
 BroadCloud USA Zone 1: chcgoutpostsipconnect-udp.broadcloudpbx.com
 BroadCloud USA Zone 2: dllsoutpostsipconnect-udp.broadcloudpbx.com

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

Setup - Wizards - Central Telephony - Internet Telepho	ny 💌
Internet Telephon	y Service Provider
Provider Name:	BroadCloud USA
Enable Provider:	
Secure Trunk:	
Domain Name:	please.enter.domain
Provider Registrar Use Registrar:	
IP Address / Host name:	please.enter.here
Port:	0
Reregistration Interval at Provider (sec)	600
Provider Proxy IP Address / Host name: Port:	please.enter.here
Provider Outbound Proxy Use Outbound Proxy:	
IP Address / Host name:	0.0.0.0
Port:	0
Help Abort Back OK	& Next Delete Data

Click [OK & Next].

In	this	dialog	the	specific	customer	SIP	Userdata	will be	configured.
		ananog	une -	specifie	castonici	5.1	Obcradua	will be	configurea.

Setup - Wizards	- Central Teleph	ony - Internet Te	elephony		×
	Intern	et Telephony	Stations for B	roadCloud USA	
		Na	ame of Internet Te	lephony Station	
Add			New Internet Tele	phony Station	
	-				
Help	Abort	Back	OK & Next		

Click on [Add].

Data provided on the BroadCloud Enterprise Portal, under SIP Trunking Page > Trunk Group > Edit under the selected Trunk Group:

broadcloud	
DASHBOARD	Device
SIP TRUNKING	* Device
	MAC Address
	123452315121 Username
	8324583770
NOTES	Password Reset
	Settings
	III * Name
	8324583770
	* Lead Number 8324583770 ~

The data provided on this page are used to fill the following fields:

Internet telephony station: Username is inserted here (e.g: 8324583770)

Authorization name:	Username is inserted here (e.g: 8324583770)
Password:	Password provided by BroadCloud
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: 8324583770). Usually the Lead Number is entered here.

Setup - Wizards - Central Telephony - Internet Telephony 🛛 🛛 🛛 🛛							
Internet Telephony Stati	on for BroadCloud L	JSA					
Internet telephony station:	8324583770						
Authorization name:	8324583770						
Password:	•••••						
Confirm Password:	•••••						
Call number assignment							
Use public number (DID)	,	-					
If using 'configurable clip' you have to change the Changing trunk parameters in case of	e configuration to 'Use public 'internal subscriber no. is no	: number (DID)' here! ot allowed!					
Default Number:	8324583770						
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	elete Data					

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

Setup - Wizards	- Central Teleph	ony - Internet T	Telephony	×					
	Intern	et Telephony	iy Stations for BroadCloud USA						
	Name of Internet Telephony Station								
Edit	8324583770								
Help	Abort	Back	OK & Next						

Click [OK & Next]

etup - Wizards - Central Telephony - Internet Telephony 🛛 🗙								
Call Number Assignment for BroadCloud USA								
Name of Internet Telephony Station	Name of Internet Telephony Station Internet Telephony Phone Number Direct inward dialing Use as PABX number for outgoing calls							
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 DIDs are set in stations.(Telephones / Subscribers configuration)								
Help Abort	Back OK & Next							

Click [OK & Next] (no input needed)

Setup - Wizards ·	Setup - Wizards - Central Telephony - Internet Telephony						
	Provider	configuration and activation for Internet Telephony					
		No call via Internet: 🔲					
		Country specific view: United States of America 👻	E				
Note: changes don	e in expert mode must be revi	iewed/repeated after running through the wizard.					
	Activate Provider	Internet Telephony Service Provider					
Add		Other Provider					
Edit		AT&T					
Edit		BabyTEL					
Edit		BroadCloud					
Edit		BroadCloud USA					
Edit		Cbeyond					
Edit		CenturyLink 1	-				
Help	Abort Bac	k OK & Next Display Status					

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 on the BroadCloud Enterprise Portal.

Maximum Active Calls	
10	٥
/lax Incoming	
Max Incoming	٢
/lax Outgoing	
Max Outgoing	٥
ore Options	
Bursting	

	Settings for Internet Telephon	у
Simultaneous Internet Calls		
Available Lines for ITSP: 220		
Under 'Setup - Wizards - Network / Internet - Interne	t Access', you have entered the value Upstrea	m up to (Kbps) = 10000
In the 'Change Feature> Internet Telephony' Assis deteriorates due to the network load, you will need t	tant. This upstream allows you to conduct up t o reduce this number of simultaneous calls.	o ${f 60}$ Internet phone calls simultaneously. If the call quality
The number of simultaneous Internet Calls also depe	ends on the licensing.	
Number of Si	multaneous Internet Calls: 10	Distribute Lines
Line assignment		
Internet Telephony Service Provider	Configured Lines	Assigned Lines
BroadCloud USA	0	10
Help Abort Back	OK & Next	

Click [OK & Next]

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 selected provider without fail.						
Special phone number	Dialed digits	Dial over Provider				
1	9C911	BroadCloud USA 👻				
2		ISDN 👻				
3		ISDN -				
4		ISDN -				
5		ISDN -				
6		ISDN 👻				
7		ISDN 👻				
Help Abort	Back OK & Next					

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

Click [OK & Next]

On next page status of ITSP is displayed.

etup - Wizards - Central Telephony - Internet Telephony 🛛 🗙							
Status for the Internet Telephony Service Provider (ITSP)							
Provider			User				
Restart BroadCloud USA	Enabled	8324583770	registered	Diagnose			
Help Abort Back Next							

Click [Next]

",Exchange Line Seizure":

Select which trunk will access code 9. Enter the local area code without prefix digits (needed only when local area code was not entered in first step PBX number)

etup - Wizards - Central Telephony - Internet Telephony						
Exchange Line Seizure	Exchange	e Line Seizure				
	Trunk Access Co	de 9				
	Dial over Provid	er BroadCloud USA 👻				
Help Abort	Back	OK & Next				

Click [OK & Next]

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

ietup - Wizards - Central Telephony - Internet Telephony								
S	eizure Code fo	or the 'Outside	line Seizure'					
	Seizure code Sei	for 'Outside line izure'						
ISDN	88							
BroadCloud USA	855							
Help Abort	Back	OK & Next						

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

DID configuration

In the DID Section, the full DID will need to be entered without the country code.

All numbers shown in the BroadCloud **Trunk user DDI** can be used as DID and can be found on the BroadCloud Enterprise Portal under the SIP Trunking Page > Trunk Group > **Assigned** in the column **Phone Number**:

Available				Assigned				
Filter				Filter				
Name	Phone Number				Phone			^
.4922116534606		+4922116534		Name	Number	Station Type		
. 4922116534607		+4922116534	$\langle \rangle$		O Basic	O Standard	O Premium	
		140000446504		. <u>4922116534615</u>	+4922116534@5	0	0	~
. <u>4922116534608</u>		<u>#4922110554</u>		. 4922116534624	+4922116534@4	0	0	
. <u>4922116534609</u>		+4922116534				0	0	~
4022116524610		+402211652/		. 4922116534616	<u>+4922116534(@6</u>	0	0	

Expert mode - Telephony Server											E
Station IP Clients											
▼Station		Edit Subscriber Device Info									
UP0 Stations											
P Clients	Callno	DID	First Name	Last Name	Display	Type	Clip/Lin	Active	Fax Callno	Fax DID	
Analog Stations	Search										
ISDN Stations						-					
DECT Stations	114 ->	8324583770	ŀ	ŀ	le contraction de la contracti	System Client 👻	ŀ	 	7799	8324583772	1
VM/EVM Ports	115 ->	2812963799	ł	ŀ	-	System Client 👻	ŀ	 	-].	
Virtual Stations	116 ->	8324583771	ł	ŀ	-	SIP Client 👻	ŀ	•	-].	
UC Applications	117	-	-	-	-	No Port 👻	-	1 - 1	-] .	

Additional manual Configuration

License

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

Home	Administrators	Setup	Expert mode	Data Backup	License Mar	nagement	Service Cent	er
License N	lanagement							
License i	formation	C	O Trunks					
▼ Additio	nal Products							
OpenSo	ape Personal Edition	The	access to central of	fice via PRI(S2m/T1)	trunks or via Inter	net telephony	is licensed by CO	trunk licenses
▼Local U	ser licenses			Availat	ble licenses for SI	□ and PRI(S2r	n/T1) trunks: 32	
Overvio	w	SI	^o trunks					
IP User				The conf for	igured number of s each Internet Tele	simultaneous I phony Service	nternet calls Provider is: 10	
TDM Us	er			License numbe	er of simultaneous	Internet calls	in this node: 10	
Mobilit	/ User		Licens	e demand for numbe	er of simultaneous	Internet calls	in this node: 1	0.
Desksh	are User	DD						
CO Trunk	5	PR	Type	Slot	Port	F	eature	Demands
- · ·			1160	0101	1.011		outino	Domania

Route configuration (optional)

The route configuration will be created automatically. It should look like below.

Best praxis is to enter the default Access Code in the field "Seizure code", enter the Country code for the PABX number-incoming and select Location number.

Expert mode - Telephony Server				
Trunks/Routing	Route			
Trunks	Change Route	Change Routing Parameters		Special Parameter change
▼Route				
ISDN		Route Name:	BroadCloud]
Trk Grp. 2		Seizure code:	9	7
Trk Grp. 3		0012010 0000.	~	<u></u>
Trk Grp. 4		CO code (2nd trunk code):		
Trk Grp. 5	Gateway Location			
Trk Grp. 6		Country code:	1	
Trk Grp. 7		Local area code:		
UC Suite				
Trk Grp. 9		PABX number:		
Irk Grp. 10	PABX number-incoming			
Irk Grp. 11		Country code:	1	
Trk Grp 13		Local area code:]
Trk Grp. 14		DAPY number		
Trk Grp. 15		FADA IIdilibei:		
Networking		Location number:		
QSIG-Feature	PABX number-outgoing			
MSN assign		Country code:]
ISDN Parameters		Local area code:]
		PABX number:]
		Suppress station number:		
	Overflow route			
		Overflow route :	None 👻	
	Digit transmission			
		Digit transmission:	en-bloc sending \bullet	
	Mobile Extension Number (M	EX)		
		MEX Number		
	Apply Undo	Help		

The route parameters:

Irrunks Courge Route Special Parameter American Yeaute Change Routing Parameter Special Parameter American ISBN Intercept per direction Intercept per direction Trk Grp. 3 Analysis of second dial tone / Trunk monitoring: Intercept per direction Trk Grp. 6 Analysis of second dial tone / Trunk monitoring: Intercept per direction Trk Grp. 6 Over. service 3.1 kHz audio: Intercept per direction Trk Grp. 6 Add direction prefix incoming: Intercept per direction Trk Grp. 7 Add direction prefix incoming: Intercept per direction Trk Grp. 9 Call No. with international / national prefix: Intercept per direction Trk Grp. 13 Call No. with international / national prefix: Intercept per direction Trk Grp. 13 Generation Yes Intercept per direction MSM assign Parameters Analogs trunk seizure: Intercept per direction: ISDN Parameters Analog trunk seizure: Intercept per direction: Intercept per direction: ISDN Parameters Analog trunk seizure: Intercept per direction: Intercept per direction:	Expert mode - Telephony Serv	er			
Trunks Change Route Change Routing Parameters Speed Parameter change Routing Itags Digit repetition on: <t< th=""><th>Trunks/Routing</th><th>Route</th><th></th><th></th><th></th></t<>	Trunks/Routing	Route			
Routing flags Digit repetition on: Image: Content of the content of t	Trunks	Change Route	Change Routing Paramete	ers	Special Parameter change
SDN Reduing lass Tik Grp. 2 Digit repetition on: Intercept per direction: Tik Grp. 4 Analysis of second dial tone / Tunk monitoring: Intercept per direction: Tik Grp. 5 Over: service 3.1 kHz audio: Intercept per direction: Tik Grp. 6 Over: service 3.1 kHz audio: Intercept per direction: Tik Grp. 6 Add direction prefix incoming: Intercept per direction: Tik Grp. 7 Add direction prefix incoming: Intercept per direction: UC Suite Add direction prefix incoming: Intercept per direction: Tik Grp. 10 Call No. with international / national prefix: Intercept per direction: Tik Grp. 13 IN activated: Intercept per direction: Tik Grp. 14 Segmentation: yes v Metworking desctivate UUS per route: Intercept per direction: OBIG-Feature Analog trunk seizur: In pause v ISDIN Parameters Analog trunk seizur: In pause v Sign Parameters Intercept per durection: Intercept per direction: ISDIN Parameters Cong route allowed: Intercept per direction:	▼Route				
Tik Grp. 2 Digit regettion on: Tik Grp. 3 Analysis of second dial toe / Trunk monitoring: Tik Grp. 4 Intercept per direction: Tik Grp. 5 Over. senice 3.1 kHz audio: Tik Grp. 6 Add direction prefix incoming: U C Suite Add direction prefix incoming: U C Suite Call No. with international / national prefix: Tik Grp. 1 Call No. with international / national prefix: BroadCloud Name in CO: Tik Grp. 13 LIN activated: Tik Grp. 14 Generation: BroadCloud Name in CO: Tik Grp. 13 LIN activated: Tik Grp. 14 Segmentation: UGS Feature Analog trunk seizure: MSN assign Analog trunk seizure: ISDN Parameters Analog trunk seizure: Analog trunk call pause: Pause 6 s • Uppe: Outpe: Coll No: and type, outgoing: Local area code • Call number type: Or No: and type, outgoing: Local area code • Call number type: Drect inward dialing •	ISDN	Routing flags			
Trk Grp. 3 Analysis of second dial tone / Trunk monitoring: Trk Grp. 4 Intercept per direction: Trk Grp. 5 Over. service 3.1 kHz audio: Trk Grp. 7 Add direction prefix incoming: UC Suite Add direction prefix incoming: Trk Grp. 7 Call No. with international / national prefix: Trk Grp. 10 Call No. with international / national prefix: Trk Grp. 13 Call No. with international / national prefix Trk Grp. 13 LIN activated: Trk Grp. 14 Generations: Metworking deactivate UUS per route: OGIG-Feature Analog trunk seizure: INNN assign Insameters ISDN Parameters Analog trunk seizure: Route type: Cort No. and type, outgoing: Local area code Call number type: Direct inward dialing Call number type: Direct inward dialing	Trk Grp. 2		Digit repetition on:		
Trk Grp. 4 Intercept per direction: Trk Grp. 5 Over. service 3.1 kHz audio: Trk Grp. 6 Add direction prefix audio: Trk Grp. 7 Add direction prefix outgoing: UC Suite Add direction prefix outgoing: Trk Grp. 10 Call No. with international prefix: Trk Grp. 10 Call No. with international prefix: Trk Grp. 10 Call No. with international / national prefix: Trk Grp. 13 IN activate: Trk Grp. 14 Segmentation: Yes Trk Grp. 15 Advags use DSP: Networking Gald Truck seizure: OSIG-Feature Analog truck seizure: ISIN Parameters Analog truck seizure: Truck call pause: Pause 5 s Truck call pause: Que cal area code Co No. and type, outgoing: Local area code Call number type: Direct inward dialing Recouting Change route allowed: Route optimize active:	Trk Grp. 3	Analysis o	f second dial tone / Trunk monitoring:		
Trik Grp. 5 Over. service 3.1 kHz audio: I chack for the service 3.1 kHz audio: Trik Grp. 6 Add direction prefix incoming: I chack for the service 3.1 kHz audio: UC Suite Add direction prefix outgoing: I chack for the service 3.1 kHz audio: UC Suite Add direction prefix outgoing: I chack for the service 3.1 kHz audio: UC Suite Add direction prefix outgoing: I chack for the service 3.1 kHz audio: Trik Grp. 9 Call No. with international / national prefix: I chack for the service 3.1 kHz audio: Trik Grp. 10 Call No. with international / national prefix: I chack for the service 3.1 kHz audio: BroadCloud Name in CO: I chack for the service 3.1 kHz audio: I chack for the service 3.1 kHz audio: Trik Grp. 13 LIN activated: I chack for the service 3.1 kHz audio: I chack for the service 3.1 kHz audio: Networking deactivate UUS per route: I chack for the service 1. I chack for the service 1. SGIG-Feature Ahalog trunk seizure: no pause v I chack for the service 1. I chack for the service 1. SGIG-Feature Ahalog trunk seizure: Ino pause v I chack for the service 1. I chack for the service 1. SGIG-Feature Ahalog trunk seizur	Trk Grp. 4		Intercept per direction:		
Trk Grp. 6 Add direction prefix incoming: Trk Grp. 7 Add direction prefix incoming: U C Suite Add direction prefix incoming: Trk Grp. 9 Call No. with international / national prefix: Trk Grp. 10 Ringback tone to CO: Trk Grp. 13 LIN activated: Trk Grp. 14 Segmentation: Yes Add directive UUS per route: QSIG-Feature Aways use DSP: MSN assign Analog trunk Seizure: ISDN Parameters Analog trunk Seizure: Keroutling Coll of trunk call pause: Call number type: Coll of trunk call and tru	Trk Grp. 5		Over service 3.1 kHz audio:		
Trk Grp. 7 Add direction prefix incoming: I UC Suite Add direction prefix outgoing: I Trk Grp. 8 Call No. with international / national prefix: I Trk Grp. 10 Ringback tone to CO: I BreadCloud Name in CO: I Trk Grp. 13 LIN activated: I Trk Grp. 14 Segmentation: yes 、 Trk Grp. 15 deactivate UUS per route: I Newsign Analog trunk seizure: no pause 、 SIGN Parameters Analog trunk seizure: no pause 、 No. and type, outgoing: Local area code 、 Call number type: Direct inward dialing 、	Trk Grp. 6				
UC Suite Add direction prefix outgoing: V Trk Grp. 10 Call No. with international / national prefix: Trk Grp. 10 Ringback tone to CO: Trk Grp. 13 LN activated: Trk Grp. 14 Segmentation: Yes (Segmentation) QSIG-Feature Always use DSP: MSN assign Analog trunk seizure: ISDN Parameters Analog trunk seizure: No. and type, outgoing: Local area code • Call number type: Call number type: Call number type: Direct inward dialing •	Trk Grp. 7		Add direction prefix incoming:	V	
Ink Grp. 9 Call No. with international / national prefix: Trk Grp. 10 Ringback tone to CO: Trk Grp. 13 LN activated: Trk Grp. 13 LN activated: Trk Grp. 14 Segmentation: Yes Gestion QSIG-Feature Always use DSP: MSN assign Analog trunk seizure: ISDN Parameters Analog trunk seizure: No. and type, outgoing: Local area code • Call number type: Call number type: Call number type: Direct inward dialing •	UC Suite		Add direction prefix outgoing:	\checkmark	
Trk Grp. 10 Ringback tone to CO: BroadCloud Name in CO: Trk Grp. 13 LIN activated: Trk Grp. 14 Segmentation: Trk Grp. 15 deactivate UUS per route: Networking deactivate UUS per route: QSIG-Feature Always use DSP: MSN assign Trunk call pause: ISDN Parameters Analog trunk seizure: No. and type, outgoing: Local area code Call number type: Ore Route optimize active: No.	Irk Grp. 9	Call	No. with international / national prefix:		
BroadCoud Name in CO: Trk Grp. 13 LIN activated: Trk Grp. 14 Segmentation: Trk Grp. 15 deactivate UUS per route: Networking deactivate UUS per route: QSIG-Feature Always use DSP: MSN assign Analog trunk seizure: ISDN Parameters Analog trunk seizure: No. and type, outgoing: Local area code Route type: Or No. and type, outgoing: Local area code Change route allowed: Route optimize active:	Irk Grp. 10		Ringback tone to CO:		
Tik Grp. 13 IN activated: Tik Grp. 14 Segmentation: Tik Grp. 15 deactivate UUS per route: Networking deactivate UUS per route: QSIG-Feature Always use DSP: MSN assign Image: Segmentation: SDN Parameters Analog trunk seizure: No. and type, outgoing: Iocal area code Image: Route type: CO Image: CO Image: Call number type: Direct inward dialing Image: Route aplice in coute allowed: Route optimize active:	Ink Grp. Ti		Nome in CO:		
Tik Grp. 13 IN activated: Image: Construct of the segmentation: Image: Construct of the segmentation: <t< td=""><td>Trk Grn 13</td><td></td><td>Name in CO.</td><td></td><td></td></t<>	Trk Grn 13		Name in CO.		
Trk Grp. 15 Segmentation: yes Hetworking deactivate UUS per route: QSIG-Feature Always use DSP: MSN assign Always use DSP: ISDN Parameters Analog trunk seizure: no pause Route type: CO Route type: CO Call number type: Direct inward dialing Route optimize active: No.	Trk Grp. 14		LIN activated:	V	
Networking deactivate UUS per route: QSIG-Feature Always use DSP: MSN assign	Trk Grp. 15		Segmentation:	yes 🗸	•
OSIG-Feature Always use DSP: ISDI Parameters Analog trunk seizure: ISDI Parameters Analog trunk seizure: ISDI Parameters Analog trunk seizure: ISDI Parameters Internet of the seizure: ISDI Parameters Analog trunk seizure: ISDI Parameters Pause 6 s • ISDI Parameters Internet of the seizure: Ison of type, outgoing: Icocal area code • Ison of type: Internet of the seizure:	Networking		deactivate UUS per route:		
MSN assign ISDN Parameters Analog trunk seizure: no pause Trunk call pause: Pause 6 s Type of seizure: Image: CO No. and type, outgoing: Local area code Call number type: Direct inward dialing Rerouting Change route allowed: Route optimize active: No	QSIG-Feature		Aluque une DSD:		
ISDIN Parameters Analog trunk seizure: no pause Trunk call pause: Pause 6 s Trunk call pause: Pause 6 s Type of seizure: linear Route type: CO Route type: CO Coll area code Call number type: Direct inward dialing Change route allowed: Route optimize active: No	MSN assign		Always use DSF.		
Analog trunk seizure: Ino pause Trunk call pause Trunk call pause Pause 6 s Type of seizure: Innear Route type: CO No. and type, outgoing: Local area code Call number type: Direct inward dialing Rerouting Change route allowed: Route optimize active: No	ISDN Parameters				
Trunk call pause: Pause 6 s • Type of seizure: linear • Route type: CO • No. and type, outgoing: Local area code • Call number type: Direct inward dialing • Rerouting Change route allowed: Route optimize active: No			Analog trunk seizure:	no pause 🔻	
Type of seizure: linear Route type: CO No. and type, outgoing: Local area code Call number type: Direct inward dialing Rerouting Change route allowed: Route optimize active: No			Trunk call pause:	Pause 6 s 👻	
Route type: CO			Type of seizure:	linear 👻	
No. and type, outgoing: Local area code Call number type: Direct inward dialing Rerouting Change route allowed: Route optimize active: No			Route type:	CO 🗸	
Call number type: Direct inward dialing Rerouting Change route allowed: Route optimize active: No			No. and type, outgoing:	Local area code 👻	
Rerouting Change route allowed: Route optimize active: No -			Call number type:	Direct inward dialing	▼
Rerouting Change route allowed: Route optimize active: No					
Change route allowed: Route optimize active: No		Rerouting		_	
Route optimize active: No -			Change route allowed:		
			Route optimize active:	No 👻	
Apply Undo Help		Apply	Jndo Help		

LCR changes (optional)

In V2R2 all necessary LCR rule will be created automatically. It should look like below.

In expert mode , Telephony Server, LCR , - change the "Routing Table" in the way that **all Dial plans** related to SIP (BroadCloud) route should follow the Routing Table 4.

If not changed manually, the Routing table 4 uses the Dial Rule 'SIP' which by default has the Dial Rule format= 'A', Network Access='Main Network Supplier' and Type='Unknown'.

The dial rule manipulates the number so that the called party number is national for national/local calls and international for international calls.

Expert mode - Telephony Server								
LCR	Dial Plan							
LCR Flags Classes Of Service	Change Dial Plan							
Dial Plan	Dial Plan	Name	Dialed digits	Routing Table	Acc. code	Classes of service	Emergency	
Routing table	1	Emergency call	9C911	$4 \rightarrow$		V	• V	
Dial rule	2			1 →				
Multisite	3			1 ▼ →				
	4			1 →		v		
	5			1 →		v		
	6			1 →				
	7			1 ▼ →				
	8			1 →				
	9			1 →				
	10			1 ▼ →				
	11			1 →				
	12			1 →				
	13			1 ▼ →				
	14			1 →				
	15			1 👻 🔶				
	16	Standard	9CNXX-NXX-XXXX	$4 \rightarrow$				
	17	Standard	9C1-XX-NXX-XXXX	$4 \rightarrow$				
	18	Standard	9C011-Z	$4 \rightarrow$				
	19	BroadCloud USA	855CNXX-NXX-XXXX	$4 \rightarrow$				
	20	BreadCloud USA	B55C1-XX+NXX+XXXX	$4 \rightarrow$				
	21	BroadCloud USA	855C011-Z	$4 \rightarrow$				

Routing table 4:

Expert mode - Telephony Server								
LCR	Routing Table							
LCR Flags Classes Of Service	=	Change Routing Table						
Dial Plan ▼Routing table		Routing Table: 4 en-bloc sending						
1 - Table	Index Dedicated Route	Route	Dial Rule	min. COS	Warning	Dedicated Gateway	GW Node ID	
2 - Table 3 - Table	1	BroadCloud -		15 🗸	None -	No 👻		
4 - Table	2	None -	None -	15 -	None -	No -		

Dial rules:

Expert mode - Telephony Server				E				
LCR	Dial Rule							
LCR Flags Classes Of Service		Change Dial Rule						
Dial Plan	Rule N	ame Dial rule form	mat 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 👻				
	8 COInternat	D1E3A	Main network supplier 👻	Unknown 👻				

How to check the status of SIP connection with BroadCloud

"Status" provides information about the registration status of the ITSP. The ITSP registration can also be restarted here.

	nonize enterpr	ise					OpenScape	Business A	ssistant
								administrator@sy	stem <u>Loqoff</u>
Home Administrators	Setup	Expert mode	Data Backup	License Management	Service Center				
Service Center									
Documents									0
Software									
Inventory									
▶ SW Update									
E-mail Forwarding									
Remote Access									
Restart / Reload									
 Diagnostics 									
Status									
Event Viewer									
Trace									
Service Log									

Service Center -	Diagnostics - Status				×
Station Status	Dialup Network Status	ITSP Status	VPN Status	Overview of IP Addresse	es BLF Status
_	Status for the	Internet Teleph	nony Servic	e Provider (ITSP)	
	Provider			User	
Restart	BroadCloud USA	Enabled	8324583770	registered	Diagnose
Help	Abort Back	Finish			

Known restrictions:

- 1. CLIP No Screening is not supported for outgoing calls. A phone cannot present a number which is not owned by the provider trunk.
- 2. COLP: Provider doesn't support Connected Line Identification Presentation
- Special scenario in case of non-DID phone and forwarded attendant phone. Description in detail: A non-DID Phone usually present the attendant DID for external calls. In case the attendant activates call-forwarding to an external destination and the non-DID phone is calling the attendant, the call will be rejected by the provider. Reason: The provider does not accept calls with the same FROM and DIVERSION number.

Appendix

Supported Features

- 1. The Provider use dynamic Registration
- 2. The Provider support codec G.711, G.729 and G.722. But it is not allowed to use G.722 only
- 3. Fax: T.38 is supported by the provider.
- 4. Diverted calls present the number of the caller:
 In a transit call forwarding scenario the provider provides the number of the caller.
 e.g. external A calls internal B. B is forwarded to external C. C get the number information of A
- 5. MultiSite Scenarios is supported: The Provider is able to provided numbers in different Areas in the same country at the same sip-trunk.
- 6. DTMF: RFC2833 out-of-band is supported

Supported Numbering Formats

US Provider

Outgoing call

Called Party (REQUEST, TO):

National: 9193789301@<SP FQDN>

National with prefix: 19193789301@<SP FQDN>

International with prefix: 011498944234199905@<SP FQDN>

Calling Party (FROM, PAI, Diversion):

National: 8324583770@<SP FQDN>

Incoming call

Called Party (REQUEST, <u>TO</u>):

National: 9193789301@<SP FQDN>

International with prefix: +49894423410@<SP FQDN>

Calling Party (FROM):

National: 8324583770@<SP FQDN>