OpenScape Business V2

How to Configure SIP Trunk for BroadCloud Germany France Italy United Kingdom Australia

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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
05.03.2017	0.11	Editorial changes after internal development review
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 all countries listed above except the USA

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					
	& Trunk Capacity						
ASSIGNMENTS	* Channels Assigned To Site	• 1 Available					
SERVICES	8 Channels In Use By Site						
	778	✓ Save					
	Trunk Groups						
	Name	Lead 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"

	nonize enterprise	OpenScape Business Assistant
		administrator@system Logoft
Home Administrators	Setup Expert mode Data Backup License Management Service Center	
Setup		
▼ Wizards	Central Telephony	9
Basic Installation	CO Trunk ISDN / Analog / ITSP	
Network / Internet	Edit Commit I Sub / Analog / I Ser	
Telephones / Subscribers Central Telephony	Left Internet Telephony Access parameters of the Internet Telephony Service Provider (ITSP), e.g., user account, password, SIP station number	
User Telephony Security	Editt Voicemail Access numbers for integrated voicemail. Set up of voicemail boxes	
UC Suite Circuit	Edit Phone Book / Speed Dialing Set up central speed-dial destinations for the system's internal phone book	
	Edit Multisite Management Configuration of multi-ITSP connections	
	Edit 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 Edit Etitation 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		
Over	view	
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 telephon PABX number	ıy' and 'MeetMe	conference'.
Country code: 00	49	(mandatory)
Local area code: O		(optional)
PABX number:		(optional)

Click [OK & Next].

Provider configuration and activation for Internet Telephony -> No call via Internet -> uncheck Use County specific view: UK, Germany, France, Italy or Australia and select "BroadCloud".

Setup - Wizards - Central Telephony - Internet Telephony					
Provider configuration and activation for Internet Telephony					
	No call via Internet: 🔲				
	Country specific view: Germany 🗸				
Note: changes don	e in expert mode must be reviewed/rep	eated after running through the wizard.			
	Activate Provider	Internet Telephony Service Provider			
Add		Other Provider			
Edit		1&1			
Edit		BroadCloud			
Edit		COLT UK & Europe			
Edit		COLT VPN			

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 ir	n the screenshot is only an example. !!!
Settings	
* Name	
+442038593092	
* Lead Number	
+442038593092	~
Outbound Proxy	
uk.sipconnect.broadcloud.e	20
Register Domain	
ukdemo.broadcloud.eu	
	an and the Ducy idea Ducy at the country individual

- **Provider Registrar** and the **Provider Proxy**. Use the country individual names:

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

Setup - Wizards - Central Telep	hony - Internet Te	elephony		
		In	iternet Telephon	y Service Provider
			Provider Name:	BroadCloud
			Enable Provider:	
			Secure Trunk:	
			Domain Name:	please.enter.domain
Provider Registrar			Use Registrar:	V
		IP ,	Address / Host name:	please.enter.here
			Port:	D
		Reregistration Int	erval at Provider (sec)	600
Provider Proxy		IP ,	Address / Host name: Port:	
Provider Outbound Proxy			Use Outbound Proxy:	
		IP ,	Address / Host name: _	
			Port:	p
Help Abort	Back	OK & Next	Delete	Data

Click [OK & Next].

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

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

DASHBOARD	Device	
	* Device	
	123452315121	2
	MAC Address	
	123452315121	
	Username	
ANALYTICS	+4922116534624	
	Password	
D NOTES	Password	≉ Reset
	Settings	
	III * Name	
	+4922116534615	
	* Lead Number	
	+4922116534615	

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

Internet telephony station:	Username is inserted here (e.g: +4922116534624)
Authorization name:	Username is inserted here (e.g: +4922116534624)
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: +4922116534615). Usually the Lead Number is entered here.

Setup - Wizards - Central Telephony - Internet Telephony	
Internet Telephony S	Station for BroadCloud
Internet telephony station	+4922116534624
Authorization name	+4922116534624
Password	******
Confirm Password	•••••
Call number assignment Use public number (DID) If using 'configurable clip' you have to change t	←
	of internal subscriber no. is not allowed
Default Number	+4922116534615
Default Number ITSP as primary CO access Enter one of the call numbers supplied by your network provider here. This will be used in outgoin, All call numbers supplied by your network provider are to be entered within the trunk and telephon	
Help Abort Back OK & Next Delete	Data

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

Setup - Wizards	Central Telephony - Internet Telephony
	Internet Telephony Stations for BroadCloud
	Name of Internet Telephony Station
Edit	+4922116534624
Help	Abort Back OK & Hext

Click [OK & Next]

Setup - Wizards - Central Telephony - Internet	t Telephony		× * * * *							
	Call Number Assignment for BroadCloud									
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 veri	ify that the relevant user DIDs are set in stations.(Telephones / Subscribers confi	guration)							
Help Abort Back	OK & Next									

Click [OK & Next] (no input needed)

Setup - Wizards	- Central Telephony -	- Internet Telephony	×
	Provider	r configuration and activation for Internet Telephony	•
Note: changes don	ie in expert mode must b	No call via Internet: Country specific view: Germany pe reviewed/repeated after running through the wizard.	E
	Activate Provider	Internet Telephony Service Provider	
Add		Other Provider	
Edit		1&1	
Edit		BroadCloud	
Edit		COLT UK & Europe	
Edit		COLT VPN	
Edit		Ecotel sipTrunk 2.0	
Edit		ecotel sipTrunk Connect 1.0	
Edit		ecotel sipTrunk DDI	
Edit		Ennit AG	
Edit		equada	
Edit		GMX	
Edit		HFO Telecom NGN	-
Help	Abort	Back 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.

10	•
Aax Incoming	
Max Incoming	\$
/lax Outgoing	
Max Outgoing	۲

Setup - Wizards - Central Telephony - Internet Telephon	νγ	
	Settings for Internet Telephony	
Simultaneous Internet Calls		
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 ups will need to reduce this number of simultaneous calls.	tream allows you to conduct up to ${f 60}$ Internet phone calls simultar	neously. If the call quality deteriorates due to the network load, you
The number of simultaneous Internet Calls also depends on the lic	censing.	
Numbe	er of Simultaneous Internet Calls: 10 0	listribute 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 1	elephony	
	Special phone numbers	
Note: Emergency calls should always be built up with ISDN o Please make sure that all special call numbers are sup		
Special phone number	Dialed digits	Dial over Provider
1	0C112	BroadCloud 👻
2	0C110	BroadCloud 👻
3	0C0137Z	BroadCloud 👻
4	0C0138Z	BroadCloud 👻
5	0C0900Z	BroadCloud 👻
6	DC118Z	BroadCloud 👻
7	0C116Z	BroadCloud 👻
8	DC115	BroadCloud 👻
9	0C010Z	BroadCloud 👻
10		ISDN 👻
11		ISDN 👻
12		ISDN 👻
13		ISDN 👻
14		ISDN 👻
15		ISDN 👻
15 Help Abort Back	OK & Next	ISDN -

Click [OK & Next]

On next page status of ITSP is displayed.

Setup - Wizards - Central Telepho	ony - Internet Telephony				×
	Status for the	Internet Teleph	iony Service Provid	er (ITSP)	
	Provider			User	
Restart BroadClo	ud	Enabled	+4922116534624	registered	Diagnose

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 Telephony - Internet Telephony	
-	ine Seizure
Exchange Line Seizure	
Trunk Access Code	855
Dial over Provider	BroadCloud 👻
Area Code	
Please enter the local area code.	
Local area code:	221

Click [OK & Next]

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

Setup - Wizards - Central Tele	phony - Internet Telephony
	Seizure Code for the 'Outside line Seizure'
	Seizure code for 'Outside line Seizure'
ISDN	88
BroadCloud	0

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**:

vailable				Assigned				
Filter				Filter				
Name	Phone Number				Phone Number	5. J. T.		
. <u>4922116534606</u>		+4922116534		Name		Station Type		
. 4922116534607		+4922116534	$\langle \rangle$		O Basic	○ Standard	O Premium	
. 4922116534608		+4922116534		. 4922116534615	+4922116534@5	0	0	~
.4922116534609		+4922116534		. <u>4922116534624</u>	+4922116534@4	0	0	
.4922110534009		+4922110034		. 4922116534616	+4922116534@6	0	0	~

Station	System Cli	System Clients									
▼Station		Edit station parameters									
UP0 Stations											
▼IP Clients	Call	no DID	First Name	Last Name	Display	Type	Clip/Lin	Active	Fax Callno	Fax DID	ITSP Loc-ID
▼System Clients	Search:										
14114 -			_								
15 115 -	114	→ 22116534615				System Client		×	7799	22116534624	-
SIP Clients	115	\rightarrow .			-	System Client		~			
RAS User											
Deskshare User											

Additional Configuration

License

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

Home Administrators	Setup Expert mo	de Data Backup	License Mar	agement Service Cen	ter
License Management					
License information	CO Trunks				
▼Additional Products					
OpenScape Personal Edition	The access to centr	al office via PRI(S2m/T1) trunks or via Inter	net telephony is licensed by CC) trunk licenses
▼Local User licenses		Availa	ible licenses for SI	P and PRI(S2m/T1) trunks: 32	
Overview	SIP trunks				
IP User				imultaneous Internet calls phony Service Provider is: 10	
TDM User		License numb	er of simultaneous	Internet calls in this node: 10	
Mobility User		onno domond for numb	or of cimultonoouo	Internet calls in this node:	10 🗸
Deskshare User		cense demand for humb	er or simultaneous		10 •
CO Trunks	PRI (S2M/T1)	ype Slot	Port	Feature	Demands

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 Se	erver	
Trunks/Routing	Route	
Trunks	Change Route Change Routing Park	ameters Special Parar
▼Route		
ISDN	Route	Name: BroadCloud
Trk Grp. 2	Soizur	e code: 0
Trk Grp. 3		
Trk Grp. 4	CO code (2nd trunk	code):
Trk Grp. 5	Gateway Location	
Trk Grp. 6	Country	/ code: 49
Trk Grp. 7	Local area	a code:
UC Suite		
Trk Grp. 9	PABX n	umber:
Trk Grp. 10	PABX number-incoming	
Trk Grp. 11	Country	/ code: 49
BroadCloud	Local area	a code:
Trk Grp. 13		
Trk Grp. 14	PABX n	umber:
Trk Grp. 15	Location n	umber: 🗵
Networking	PABX number-outgoing	
QSIG-Feature	Country	/ code:
MSN assign	Country	/ code.
ISDN Parameters	Local area	a code:
	PABX n	umber:
	Suppress station n	umber:
	Overflow route	
	Overflow	route : None 🗸
	Digit transmission	
	Digit transm	ission: 🛛 en-bloc sending 👻
	Mobile Extension Number (MEX)	
		lumber
	MEXP	NUMBER
	Apply Undo Help	
	.44.2	

The route parameters:

Expert mode - Telephony Server			
Trunks/Routing	Route		
Trunks	Change Route	Change Routing Parar	neters
▼Route			
ISDN	Routing flags		_
Trk Grp. 2		Digit repetition	on:
Trk Grp. 3	Anal	ysis of second dial tone / Trunk monito	ing: 🔲
Trk Grp. 4		Intercept per direct	ion: 🔲
Trk Grp. 5		Over. service 3.1 kHz au	
Trk Grp. 6			
Trk Grp. 7		Add direction prefix incom	ing: 🔽
UC Suite		Add direction prefix outgo	ing: 🗹
Trk Grp. 9		Call No. with international / national pr	efix: 🔲
Trk Grp. 10		Ringback tone to	CO: 🔲
Trk Grp. 11		•	
BroadCloud		Name in	
Trk Grp. 13 Trk Grp. 14		Segmenta	ion: yes 👻
Trk Grp. 15		deactivate UUS per ro	ute: 🔲
Networking		Always use D	
QSIG-Feature		Aiwayo use D	
MSN assign			
ISDN Parameters		Analog trunk seiz	ure: no pause 👻
		Trunk call pa	use: Pause 2 s 👻
		Type of seiz	ure: linear 👻
		Route t	/pe: CO →
		No. and type, outgo	ing: Country code 🗸
		Call number t	/pe: Direct inward dialing 👻
	Rerouting		
		Change route allov	ved: 🔲
		Route optimize ac	tive: No 👻
	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 **local calls will** be routed to Routing Table 5 – dial rule "local", national calls will be routed to Routing Table 28 – dial rule "national" and international calls will be routed to Routing Table 38 dial rule "international"

The dial rule manipulates the number so that the called party number is always in the international format.

LCR	Dial Plan						
LCR Flags Classes Of Service		Cha	nge Dial Plan		Display Dial Plan		
Dial Plan	Dial Plan	Name	Dialed digits	Routing Table	Acc. code	Classes of service	Emergency
Routing table	1	Notruf	00112	4 • →		V	✓
Dial rule	2	Notruf	00112	$4 \rightarrow \rightarrow$		V	
Multisite	3	Televoting	0C0137Z	$4 \rightarrow$		V	
	4	Televoting	0C0138Z	$4 \rightarrow$		V	
	5	Premium Dienste	0C0900Z	$4 \rightarrow$		V	
	6	Auskunftsdienst	DC118Z	$4 \rightarrow$		V	
	7	Sonderrufnummer	DC116Z	$4 \rightarrow$		V	
	8	Sonderrufnummer	0C115	$4 \rightarrow$		V	
	9	Preselection	00010Z	$4 \rightarrow$		V	
	10	Sonderrufnummer	000102			v	
	11	Sonderrufnummer		$1 \rightarrow 1$		V	
	12	Sonderrufnummer		$1 \rightarrow$		V	
	13	Sonderrufnummer		$1 \rightarrow$		V	
	14	Sonderrufnummer		$1 \rightarrow$		V	
	15	Sonderrufnummer		$1 \rightarrow$		V	
	16	Services	855CZ			V	
	17	National	855CD-Z	28 →		V	
	18	Local	855C1Z	$5 \rightarrow$		V	
	19	Local	855CNZ	$5 \rightarrow$		V	
	20	International	855 C00-Z	38 ▼ →		V	
	21	BroadCloud	OCZ	$4 \rightarrow$		V	
	22	BroadCloud	0C0-Z	$\frac{1}{28}$ \rightarrow		V	
	23	BroadCloud	0012	$5 \rightarrow$		V	
	24	BroadCloud	OCNZ	$5 \rightarrow$		V	
	25	BroadCloud	0C00-Z	38 ▼ →		V	
	26	Standard	856CZ	$6 \rightarrow$		V	
		erandara	0000	<u> </u>			

Routing table 5:

5 - Table 1 Broadcloud ▼ SIP local_Canoni ▼ → 15 ▼ None ▼ No ▼ 6 - Table 2 None ▼ None ▼ 15 ▼ None ▼ No ▼	3 - Table 4 - Table	Index	Dedicated Route	Route		Dial Rule	mi	n. COS	Warning		Dedicated Gatewa	y GW Node ID
6 - Table 2 None - None - 15 - None - No	5 - Table	1		Broadcloud	•	SIP local_Canoni 🗸 🔶	15	•	None	•	No 👻	
	6 - Table	2		None	•	None 👻	15	•	None	•	No 🗸	

Routing table 28:

	26 - Table 27 - Table	Index	Dedicated Route	Route		Dial Rule	m	nin. COS	Warning	1	Dedicated Gat	teway	GW Node ID
	28 - Table	1		Broadcloud	•	National_to_Canc 🗸 🔶	15	-	None	-	No	•	
1	29 - Table	2		None	•	None 🗸	15	•	None	-	No	•	
Ē	Routing table 38:												

37 - Table	Index	Dedicated Route	Route		Dial Rule	min. COS	Warning	Dedicated Gat	eway GW Node ID
38 - Table	1		Broadcloud	•	Internatto_Can 👻 🔶	15 👻	None 👻	No	-
39 - Table	2		None	•	None 👻	15 👻	None 👻	No	•

Dial rules:

LCR	Dial Rule				
LCR Flags		Change Dial Ru	le		
Classes Of Service					
Dial Plan	Rule Name	Dial rule format	Network access	Тур	е
Routing table	1 ISDN	A	Main network supplier 👻	Unknown	۰.
Dial rule	2 SIP	A	Main network supplier 👻	Unknown	
Multisite	3 SIP lokal	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	۰.
	7 Gateway call	E1A	Corporate Network 🗸	Unknown	۰.
	8 COInternat	D0E4A	Main network supplier 👻	Unknown	۰.
	9 Add_cc_to_Canoni	D49E2A	Main network supplier 👻	Country code	•
	10 National_to_Cano	D49E3A	Main network supplier 👻	Country code	•
	11 Internatto_Can	E3A	Main network supplier 👻	Country code	•
	12 SIP local_Canoni	HE2A	Main network supplier 👻	Country code	•
	13		Unknown 👻	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.

UNIFY Harmon your ent	Ze ernrise						OpenScape Business Assistant
	erprise						administrator@system Logoff
Home Administrators Se	tup Expert mode	Data Backup	License Management	Service Center			
Service Center Documents							
Software							0
Inventory							
SW Update E-mail Forwarding							
Remote Access							
Restart / Reload							
▼ Diagnostics Status							
Event Viewer							
Trace							
Service Log							
Service Center - Diagr							
Service Center - Diagr Station Status		Network Status	ITS	? Status	VPN Status	Overview of IP Addresses	BLF Status
		Network Status	1154	9 Status	VPN Status	Overview of IP Addresses	
			TTSP Status for the In				
						ovider (ITSP)	
Station Status	Dialup f		Status for the In	ternet Telepł	nony Service Pr	ovider (ITSP) User	BLF Status
			Status for the In			ovider (ITSP)	
Station Status	Dialup f		Status for the In	ternet Telepł	nony Service Pr	ovider (ITSP) User	BLF Status
Station Status	Dialup f		Status for the In	ternet Telepł	nony Service Pr	ovider (ITSP) User	BLF Status
Station Status	Dialup f		Status for the In	ternet Telepł	nony Service Pr	ovider (ITSP) User	BLF Status
Station Status	Dialup f		Status for the In	ternet Telepł	nony Service Pr	ovider (ITSP) User	BLF Status
Station Status	Dialup f		Status for the In	ternet Telepł	nony Service Pr	ovider (ITSP) User	BLF Status
Station Status	Dialup f		Status for the In	ternet Telepł	nony Service Pr	ovider (ITSP) User	BLF Status
Station Status	Dialup f		Status for the In	ternet Telepł	nony Service Pr	ovider (ITSP) User	BLF Status

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.
- 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. The MultiSite Scenario 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

Outgoing call Called Party (REQUEST, TO): GNF: +498944234199905@<SP FQDN> Calling Party (FROM, PAI, Diversion): GNF: +4922116534615@<SP FQDN>

Incoming call Called Party (REQUEST, TO): GNF: +4922116534615@<SP FQDN> Calling Party (FROM): GNF: +498944234199905@<SP FQDN>