OpenScape Voice V10



How to Configure SIP Trunk for CompanyFlex (Telekom Deutschland GmbH)

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Date	Version	Changes
15.12.2020	0.1	First version

Overview

Telekom Deutschland GmbH launched the new CompanyFlex trunk in 2020. CompanyFlex is the successor of the DeutschlandLAN SIP Trunk. From configuration point of view, it has just a few deltas which were introduced on top with CompanyFlex. Therefor the old DeutschlandLAN SIP Trunk Configuration Guide was re-used in this document and the delta or the configuration screenshots from the CompanyFlex certification lab were simply added in the beginning of each chapter. This document is an extended version of the DeutschlandLAN SIP Trunk Configuration Guide with CompanyFlex deltas and configurations.

This document describes the configuration of the OpenScape Enterprise Express Deployment V10 to connect to Telekom Deutschland GmbH CompanyFlex SIP trunk as it was configured during a certification test in the Telekom Deutschland certification lab.

This document and the described configuration are valid also for OpenScape Voice with OpenScape SBC deployments. Telekom Deutschland GmbH is hereinafter referred to as Telekom.



Trunk Configuration Data provided by Telekom Deutschland GmbH

Trunk Name: CompanyFlex

Trunk connection: Registered Trunk.

Supported Connectivity: SBC with private IP behind NAT (Telekom CompanyFlex uses special NAT traversal to detect if SBC is located in a private Class A, B or C network; no need to configure external Firewall on SBC); SBC with public IP

Documentation: Installations- und Konfigurationshilfe CompanyFlex <u>https://hilfe.companyflex.de/de/einrichtung/anschalteszenarien</u> Bitte auch hier entsprechende Hinweise zum Thema Notruf-Routing beachten.

The configuration data needed to setup the SIP trunk will be provide from within the Telekom CompanyFlex administration and configuration portal, e.g.

Telefonie-Anmeldedate	en	6			
SIP-Domain	tel.t-online.de				
Outbound-Proxy 🚺	55XXXXXXXXXX 55XXXXXXXXXXX	KX.primary.companyflex.de KX.secondary.companyflex.de			
Registrar:	tel.t-online.de				
Registrierungsrufnummer	+4919929600000XXXXXX				
Telefonie-Benutzername	+4919929600	0000XXXXXX@tel.t-online.de			
Telefonie-Passwort	XXXXXXXXXXXX	Neues Passwort generieren			

OpenScape SBC Configuration

For the certification test SBC version V10 R0.5.1 (10.00.05.01-1) on the Central SBC and THIG SBC was used.

DNS

It must be configured a DNS server which can resolve the Telekom DNS records configured in the Remote Endpoints:

UNIFY ^O	penScape SBC Management Portal						
OpenScape SBC							
Administratio	n 🧔 General - sbcbonn						
Network/Net Servic	👙 sbcbonn - Network/Net Services — Mozilla Firefox						
	👽 🔒 https://172.17.0.5/network.html?tabld=dnsTab						
Traffic Shaping	1* Network/Net Services						
tt QoS	Select OK to temporarily store changes. Make your changes permanent by selecting 'Apply Changes' on the General page.						
VoIP	Settings DNS NTP Traffic Shaping QoS						
Security	Client						
 Diagnostics & logs Alarms 	Refresh DNS						
Maintenance	DNS server IP address Add Alias Add						
	192. 168. 1. 1 Delete bonn. telekom. de sbcbonn. spolar-01. bonn. telekom. sbcbonn-sspcfiex-01. bonn. telekom sbcbonn-sspcfiex-02. bonn. telekom						
	Server						
	Enable DNS server DNS configuration Enable customization Administer custom files						

Quality of Service (QoS)

Telekom has specified in their 1TR114 document QoS requirements which must be applied on the SBC:

8.4.2 Traffic Classes in Layer 3

The UE uses the following traffic classes at Layer 3 (according to the Architecture of T-Home)

- Voice Control Class 6 (DSCP 110 000)
- Voice Bearer Class 5 (DSCP 101 110)

14 Network/Net Serv	ices						
Select OK to temporarily store changes. Make your changes perr							
Settings DNS NT	P	Traffic Shaping	Qo5				
QoS Settings							
Enable QoS Configuration							
DSCP for SIP	48						
DSCP for MGCP	48						
DSCP for RTP (Audio)	46						
DSCP for RTP (Video)	46						
Row Proto	ol	In interface	Ou				

Media Profile

CompanyFlex Config/Delta:

пігу о	penScape SBC M	anagement Port	al					
penScape SBC		_			User name: administra	tor Help Logout		
Administratio	on 🧔 Gene	eral - sbcbonn				?		
stem twork/Nat Sand	📵 sbebonn - VOIP — Moz	illa Firefox				_		
IP	D A https://172.17	0 E funite latest?tablelature					-	
Sip Server Set	• Kitps://1/2.1/	.0.5/voip.ntmirtabid=n	🍯 🍯 sbcbonn - Media Profile — Mozilla Firefox					
Port and Signa	S VOIP							
Media OoS Monitorini	() Select OK to temporarily :	store changes. Make your cha	https://172.17.0.5/mediaProfileConfiguration.html?name=RTP&coreSideMedia=default					
abuse	Cin Carver Cattings	Port and Signaling Setting	🔎 🔎 Media Profile					
E Features	Sip Server Seconds	Forcand Signaling Second	Select OK to temporarily store changes. Make you	r changes permanent by selecting 'Apply	Changes' on the General page.			
anostics & loas	Media Handling							
rms	Allow multiple media lines	for the same media tune	General					
intenance		and she wanted the set of the	Name	DTD				
	Core Side Media Configuration	1		IN IT	, 			
	Media profile default		Media protocol	RTP only	Direct Media Support			
	Picture province Decision	1.5.0	Support ICE					
			Enable TURN Client					
			RTP/RTCP Multiplex in offer					
			SDP Compatibility Mode					
	User agent		Support Mid Attribute					
			Do not set port to zero on session timer answer SD					
			SRTP configuration					
			mm	Teres.				
			SKIP Grypto context negotiationMLKEYSDES	DILS				
			Mark SRTP Call-leg as Secure					
_	Media Profiles		Codec configuration					
			Allow unconfigured codecs					
			Enforce codec priority in profile					
	Name	Codecs	Send Telephony Event in Invite without SDP					
	default	G711A,G722,G729	Use payload type 101 for telephony event/8000					
	webrtc_default		Enforce Packetization Interval					
	WE_Phone_default		Codec G711U 8 kHz - 64 kbos Q Add					
	SRTP	G711A						
	RTP	G711A						
	C						_	
	Claud Connect		Priority	Codec		Packetization int	terval	
	Cloud Support		1	G711A 8 kHz - 64 kbps		20		

DeutschlandLAN SIP Trunk Config:

Depending on whether the SIP trunk is encrypted via TLS or not, two Media Profiles were prepared:

	[
sip server settings	Port and Signaling Settings					
<						>
Media Profiles						3
					dd Edit Del	ete
Name	Codecs	Media protocol	SRTP crypto context negotiation	Mark SRTP Call-leg as Secure	dd Edit Del	ete
Name 	Codecs	Media protocol Best Effort SRTP	SRTP crypto context negotiation mikey + sdes	Mark SRTP Call-leg as Secure	dd Edit Del	ete
Name WE_Phone_default SRTP	Codecs	Media protocol Best Effort SRTP SRTP only	SRTP crypto context negotiation mikey + sdes sdes	Mark SRTP Call-leg as Secure	udd Edit Del Single m-line SRTP	ete
Name WE_Phone_default SRTP RTP	Codecs	Media protocol Best Effort SRTP SRTP only RTP only	SRTP crypto context negotiation mikey + sdes sdes none	Mark SRTP Call-leg as Secure	dd Edit Del Single m-line SRTP	ete

For an unencrypted SIP trunk the Media Protocol **RTP** was used:

🎜 🛛 Media Profile		
Select OK to temporarily sto	ore changes. Make your change	es permanent by selecting 'Apply Ch
General		
Name	RTP	
Media protocol	RTP only	Direct Media Support
Suppress ICE Candidates		
Support Trickle ICE		
RTP/RTCP Multiplex in offer		
SRTP configuration		
SRTP crypto context negotiation Mark SRTP Call-leg as Secure	MIKEY SDES DT	πls
Codec configuration		
Allow unconfigured codecs Enforce codec priority in pro Send Telephony Event in In Use payload type 101 for te Enforce Packetization Interv Codec	ofile vite without SDP elephony event/8000 val Add	

For an encrypted SIP trunk the Media Protocol **SRTP** and **SDES** to negotiate the cryptographic parameters was used. MIKEY may not be enabled because it's not supported by Telekom.

The application of the Media Profile used for the SIP trunk is described in the section *Remote Endpoint* below.

Remote Endpoint

UNIFY e SBC Manage 📦 sbcbonn - Remote Endpoints — Mozilla Firefox ... ⊠ ☆ 0 🔒 https://172.17.0.5/res 0 🔒 ://172.17.0.5 R nts Select OK to ly store changes. Make your chan electing 'Apply Changes' on the Ge SIP Se Feature E FOR Remote dire Enable | Enable Bnable Add Edit Delete Bnable Circuit Tele Enable Sip Load Bal A Ro Enable Ga Enable Circuit Zo Enable THIG Add Edit Delete Remote Logical-E ote transport Asso Linked Endp Endpol A Row Name Access rea Profile / Circuit ID Core realm p Core FQDN Core Type 1 REP_SSP-DLAN-01 Main-Access-Realm - ipv4 SSP DTAGNGNDLAN01 sin-tr τιs Main-Core-Realm - ipv4 5000 0 2 REP_SSP-CFlex-01 Main-Access-Realm - ipv4 SSP SSPPCFLEX01 tel.t-online.de 0 TCP m - ipv4 3 REP SSP-CFlex-02 Main-Ad SSP tel.t-online.de тср ess-Realm - ipv4 0 Main-Core-

CompanyFlex - Central SBC – Config/Delta:

SIP Service Provider Profile	
Select OK to temporarily store changes. Make your changes permanent by selecting 'Apply Changes' on the General page.	
Control	
General	
Name SSPPCFLEX01 Default SSP profile DTAG/CompanyFlex V	
Use SIP Service Address for identity headers	
SIP service address tel.t-online.de	
Use SIP Service Address in Request-URI header	
Use SIP Service Address in From header	
Use SIP Service Address in To header	
Use SIP Service Address in P-Asserted-Identity header	
Use SIP Service Address in Diversion header	
Use SIP Service Address in Contact header	
Use SIP Service Address in Via header	
SIP User Agent	
SIP User Agent towards SSP Passthru 🗸 SIP User Agent	
Registration	
Registration interval (sec) 430	
Business Identity	
Business identity required	
Business identity DN	
Outgoing SIP manipulation	
Insert anonymous caller ID for blocked Caller-ID	
Manipulation	
Incoming SIP manipulation	
Calling Party Number From header user and disple v	
Calling Party Number From header user and disple	
Calling Party Number From header user and disple Flags Flags FQDN in TO header to SSP	
Calling Party Number From header user and disple Flags Flags FQDN in TO header to SSP Use To DN to populate the RURI	
Calling Party Number From header user and disple Flags FQDN in TO header to SSP Use To DN to populate the RURI Send Default Home DN in Contact for Call messages	

SIP Service Provider Profile
Select OK to temporarily store changes. Make your changes permanent by selecting 'Apply Changes' on the General page.
Insert anonymous caller ID for blocked Caller-ID
Manipulation
Toronto CT and a later
Incoming SIP manipulation
Calling Party Number From header user and disple
Flags
FQDN in TO header to SSP
Use To DN to populate the RURI
Send Default Home DN in Contact for Call messages
Allow SDP changes from SSP without session version update
Do not send INVITE with sendonly media attribute
Do not send INVITE with inactive media attribute
Do not send INVITE with video media line
Do not send Invite without SDP
Do not send Re-Invite when no media type change
Do not send Re-Invite
Remove Silence Suppression parameter from SDP
Enable pass-through of Optional parameters
Force direction attribute to sendrcv
Send default Home DN in PAI
Send default Home DN in PPI
Preserve To and From headers per RFC2543
Disable FQDN pass-through in FROM header
Keep Digest Authentication Header
Send Contact header in OPTIONS
TLS
TLS Signaling Endpoint Config 🗸
Sip Connect
Use tel URI
Send user=phone in SIP URI
Registration mode
☑ 1TR118

Remote endpoint	configuratio	on							?
 Select OK to temporar 	rily store change	es. Make your chang	es permanent by selec	ting 'Apply Changes' on the	General page.				
Remote Endpoint Settings									?
Name	REP_SSP-CFlex	<-01	Edit						
Туре	SSP	\sim							
Profile	SSPPCFLEX01	\sim							
Access realm profile	Main-Access-Re	ealm - ipv4 🗸							
Core realm profile	Main-Core-Rea	lm - ipv4 🗸							
Associated Endpoint		\sim							
Enable Call Limits		_							
Maximum Permitted Calls	0								
Reserved Calls	0								
Remote Location Informat	tion								?
URI based routing									
Enable access control									
Signaling address type	DNS SRV	\sim							
Remote Location domain lis	ist								?
								Add	Edit Delete
								Add	
Row Rem	note URL	Remote port	Remote transport	Media IP	Media profile	TLS mode	Certificate profile	TLS keep-alive	Keep-alive interval (seconds)
1 tel.t-o	online.de	0	TCP		RTP	Server authentication	Telekom		£ ^
٢									>
Remote Location Identifica	ation/Routing								?
Core FQDN		sbcbonn-sspcflex-0	1.bonn.telekom.de						
Core realm port		50002							
Default core realm location	n domain name								
Default home DN		+49199296000000	002330						
Incoming Routing prefix				bbA					
									OK Cancel

Remote endpoint configuration	on				?
Select OK to temporarily store change	es. Make your changes permanent by selecting 'Apply C	Changes' on the General pa	ge.		
Default core realm location domain name Default home DN Incoming Routing prefix	+4919929600000002330	Γ			^
	+492284227657		Bei mehreren SIP-Trunk Verbin dem selben Provider, muss eingehende Telefonie zur Zuor Anfang der Rufnummer als Rou eingetragen werden.	dungen mit für die dnung der tting-Prefix	
Digest Authentication					?
Digest authentication supported					
Digest authentication realm te	.t-online.de				
Digest authentication user ID +	4919929600000002330@tel.t-onlin				
Digest authentication password					
Access Side Firewall Settings					?
Enable Firewall Settings Firewall	Settings				
Emergency configuration					?
Emergency numbers	Add Delete				
Emergency call routing					
MSRP Data Configuration					?
Enable MSRP Relay Support	(not licensed)				
use IP address in MSRP-path	use FQDN in MSRP-path	FQDN			
Authentication required	Realm	Password		Show	
Access side only	Qop AUTH	Expire time/sec	300		
Miscellaneous					?
Open external firewall pinhole					
					OK Cancel

a Remote Location Domain							
i) Select OK to temporarily store changes. Make your changes permanent by selecting 'Apply Changes' on the General page.							
General ?							
Remote URL tel.t-online.de Shared domain							
Remote port 0							
Remote transport TCP v							
Signaling ?							
INVITE No Answer timeout (msec) 360000							
INVITE No Reply timeout (msec) 3000							
TLS ?							
TLS mode Server authentication							
Certificate profile Telekom							
TLS keep-alive							
Keep-alive interval (seconds) 60							
Keep-Alive timeout (sec) 10							
Media Configuration ?							
Media profile							
Media realm subnet IP address							
Outher and Pressy Casher ratios							
Outbound Proxy 551134276556.primary.companyflex.c							
Outbound Proxy Port 0							
Registrar Server Configuration ?							
Registrar Server tel.t-online.de							
Registrar Server Port 0							
OK Cancel							

CompanyFlex – THIG – Config/Delta:

UNIFY (DpenScape SBC	THIG M	anagement Port	al						to U and							Γ
OpenScape SBC	THIG	_			_			Catilitat		e l'robour							
	ڬ SbcThig1 - Features -	– Mozilla Fir	efox						- 0	×							
Administrat	0 https://10.82	ShChigi - Remote Endpoints Mozilla Frefox 🗆											- 0	3			
 System Network/Net Servi 	Featurae	🔍 🐁 https://10.82.53.227/remoteEndpoints.html?tatus=false&standalone=false 🛛 😶 🕁										… ⊠ ☆					
▶ VoIP	40. Get 75 beyong Benetic Endpoints																
Features		(i) Select OK to temporarily store charges. Male your changes permanent by selecting Apply Changes' on the General page.													1		
 Diagnostics & logs 	Features configuration																-
Alarms	Enable Remote Subscrib	A Row		Name Registration required	Registrati	on interval (sec)											
 Maintenance 	Enab e Remote Endpoin	1	SSPI	Profile		3600										· · · · · · · · · · · · · · · · · · ·	^
	Enable Codec Support f																
	Enable TURN Server																
	Enable Circuit Telephon	4															
	Enable Sin Load Balance																
	Enable Render Control E	a v v v v v v v v v v v v v v v v v v v															
	Enable Push Notification																-
	Enable Gangia Monitorr														Add	Edit Delete	1
	Enable THIG	A Row	Name	Access realm profile	Type	Profile / Circuit ID	Remote IP address / Logical-Endpoint-ID / Circuit URL	Remote port	Remote transport	Associated Endpoint	Linked Endpoint	Core realm profile	Core FQDN	Core realm port	Routing prefix	Default home DN	
	Enable Standalone	1	SBC_Bonn_OP	Main-Access-Realm - ipv4	Proxy	Default Proxy	172.17.0.5	5060	TOP			Main-Core-Realm - ipv4		50000			~
		2	SBC_Bonn_SSP-DLAN-01	Main-Access-Realm - ipv4	SSP	SSPProfile	172.17.0.5	50000	TCP			Main-Core-Realm - ipv4	sbcbonn-sspdlan- 01.bonn.telekom.de	50002			
		3	OS850i-01	Main-Access-Realm - ipv4	Proxy	Default Proxy	172.17.0.7	5060	TCP			Main-Core-Realm - ipv4		50004			
		4	OS850i-01-SSP	Main-Access-Realm - ipv4	Gateway	Gateway	172.17.0.7	5060	TCP			Main-Core-Realm - ipv4	osb50i- 01.bonn.telekom.de	50006			
		5	MS-OS850i-01	Main-Access-Realm - ipv4	MediaServer	OS850i-01-MSProfile	172.17.0.7	2427	UDP	OS850I-01		MS-OS850I-01-Realm		2427			
		6	SBC_Bonn_SSP-CFlex-01	Main-Access-Realm - ipv4		SSPProfile		50002				Main-Core-Realm - ipv4	sbcbonn-sspcflex- 01.bonn.telekom.de	50008			
		7	SBC_Bonn_SSP-CPlex-02	Main-Access-Realm - ipv4	SSP	SSPProfile	172.17.0.5	50004	TCP			Main-Core-Realm - ipv4	sbcbonn-sspcflex- 02.bonn.telekom.de	50010			

Remote en	ndpoint configuration	voir chapper permanen	t by calaction 'Angly Channed' on the Gene	el name					
Remote Endpoin	nt Settings	your changes permane	toy account Apply changes of the opic	a page.					?
Name	SBC_Bonn_SSP-OFlex-0	1 Edit)						
Туре	SSP	~							
Profile Access realm pro	SSPProfile Main-Access-Realm - ion	4 2							
Core realm profile	le Main-Core-Realm - Ipv4	~							
Associated Endp	oint	~							
Maximum Permitt	ted Calls 0								
Reserved Calls	Ø								
Remote Location	n Information								?
URI based re	outing ss control								
Signaling addr	ress type IP address or FQDN	~							
Remote Location	n domain list								?
									Add Edit Delete
Row	Remote URL Rem	note port Remote	transport Media IP	Media profile TLS mode Cer	tificate profile TLS keep-alive Keep-	alive interval Keep-Alive timeout INVIT (seconds) (sec) time	E No Answer INVITE No Reply neout (msec) timeout (msec) Outbou	and Proxy Outbound Proxy Port	Registrar Server Registrar !
1	1/2.1/.0.5	50002	102	derauit Server authentication	USV Solution	120 10	360000 3000	U	
<									v
Remote Location	n Identification/Routing								?
Core FQDN	sbcbonn	-sspcflex-01.bonn.telek	om.de						
Core realm po	vrt 50008								
Default core real Default home DN	im location domain name								
Incoming Routing	g prefix		Add						
									OK Cancel
Rem	ote endpoint	configura	tion						?
Colo	-	du atawa ahay	and Male used the	an anna an thu adaite it	andu Channed on the (
U Sele	ect OK to temporar	niy store cha	nges. Make your chang	es permanent by selecting #	apply changes on the o	Seneral page.			
Remote	Endpoint Settings								2
Name		SBC_Bonn_S	SP-CFlex-01	Edit					
Tune		CCD							
Type		33P	~						
Profile		SSPProfile	\sim						
Access re	ealm profile	Main-Access	-Realm - ipv4 🗸						
C	lu au fila	Mala Cara D	and an investigation						
Core rea	im profile	Main-Core-R	eaim - ipv4 🔍						
Associate	ed Endpoint		\sim						
Enat	ble Call Limits								
Maximum	Description Calle	0	_						
Maximun	n Permitted Calis	U							
Reserver	d Calls	0							
									2
Remote	Location Informat	nor							r
	based routing								
Enak									
chat	access control								
Signalir	ng address type	IP address	or FQDN						
Remote	Location domain li	et							2
Remote	Locadon domain a	51							
								Add	Delete
								Edit	Delete
Row	Don	ote LIPI	Remote port	Remote transport	Media ID	Media profile	TI S mode	Certificate profile	TI Skeen-al
KOW	Ken		Remote port	Remote transport	Media IP	Heura prome	TLS mode	Cer ancate profile	TLO Keep-all
1	17	2.17.0.5	50002	TCP		default	Server authentication	OSV Solution	L ^
									~

Remote Location Identification/Routing

Core FQDN	sbcbonn-sspcflex-01.bonn.telekom.de
Core realm port	50008
Default core realm location domain name	
Default home DN	

?

Remote endpoint configuration		?
Select OK to temporarily store changes. Make your of	hanges permanent by selecting 'Apply Changes' on the General page.	
Default core realm location domain name Default home DN Incoming Routing prefix	Add Delete	^
Digest Authentication		?
Digest authentication supported Digest authentication realm Digest authentication user ID Digest authentication password		
Access Side Firewall Settings		?
Enable Firewall Settings Firewall Settings		
Emergency configuration		?
Emergency numbers	Add Delete	
MSRP Data Configuration		?
Enable MSRP Relay Support (not licensed) use IP address in MSRP-path Authentication required Access side only	use FQDN in MSRP-path FQDN Realm Password Qop AUTH Expire time/sec 300	Show
Miscellaneous		?
Open external firewall pinhole		
		OK Cancel

ন Remote Lo	cation Dom	nain	?					
Select OK to ter	Select OK to temporarily store changes. Make your changes permanent by selecting 'Apply Changes' on the General page.							
General			?					
Remote URL Remote port	172.17.0.5 50002	Shared domain						
Remote transport	TCP	×						
Signaling			?					
INVITE No Answer to INVITE No Reply tim	timeout (msec) neout (msec)	360000						
TLS			?					
TLS mode Certificate profile TLS keep-alive Keep-alive inter Keep-Alive time	erval (seconds)	Server authentication V OSV Solution V 120						
Media Configuration	n		?					
Media profile Media realm subnet	IP address	default v						
Outbound Proxy Co	onfiguration		?					
Outbound Proxy Outbound Proxy Por	rt 0							
Registrar Server Co	onfiguration		?					
Registrar Server Registrar Server Por	rt 0							
		0	Cancel					

DeutschlandLAN SIP Trunk:

On the Central SBC must be activated *Enable Remote Endpoints*:

Features	
 Select OK to temporarily store change 	s. Make your changes permanent b
Features configuration	
Enable Remote Subscribers	Configure
Enable Remote Endpoints	Configure
Enable Codec Support for transcoding	Configure
Enable TURN Server	Configure
Enable Circuit Telephony Connector	Configure
Enable Sip Load Balancer	Configure
Enable Border Control Function	Configure (not licensed)
Enable Push Notification Service	Configure
Enable Ganglia Monitoring Daemon	
Enable Circuit Zookeeper Client	
Enable THIG	

When opening the *Remote Endpoints* window the *SIP Service Provider Profile* and the *Remote Endpoint* has to be configured:

R	emo	te Endpoints	;													1
0	Select OK to temporarily store changes. Make your changes permanent by selecting 'Apply Changes' on the General page.															
SIP	IP Service Provider Profile ?															
Host	bstname															
Rem	ote dir	rectory														
User	name	adminis	trator													
Pass	word		•••													
			Download New Profil	e List												
													A	dd Edit Del	ete	
	Row		Name	Registration	Regis	stration interval (sec)										
	1		DTAGTSystems			480									^	
<															>	
Rem	ote er	ndpoint configura	ation												2	1
													A	dd Edit Del	ete	
•	Row	Name	Access realm pr	ofile Type	Profile / Circuit ID	Remote IP address / Logical-Endpoint-ID / Circuit UBL	Remote port	Remote transport	Associated Endpoint	Core realm profile	Core FQDN	Core realm port	Routing prefix	Default home DN		
	1	DTAGTSystems	Main-Access-Realm -	ipv4 SSP	DTAGTSystems	sip-trunk.telekom.de	0	TLS		Main-Core- Realm - ipv4		50000		+49.	^	
-		Panna () () () () () () () () () (£111000111111000111111000111111000111111	C	5							1	

In the *SIP Service Provider Profile* window must be selected as default SSP profile *DTAG/NGN Registration Mode*. The registration interval has to be set to 480 seconds:

SIP Service Provider Profile	?
Select OK to temporarily store changes. Make your changes permanent by selecting 'Apply Changes' on the General page.	
General	?
Name DTAGTSystems Default SSP profile DTAG/NGN Registration Mod Use SIP Service Address for all identity headers SIP service address Sip-trunk, telekom.de	
SIP User Agent	?
SIP User Agent towards SSP Passthru	
Registration	?
Registration interval (sec) 480	
Business Identity	?
Business identity required	
Business identity DN	
Outgoing SIP manipulation	?
Insert anonymous caller ID for blocked Caller-ID	
Manipulation	
Flaos	?
FORM in TO header to SSP	
Use To DN to populate the RURI	
Send Default Home DN in Contact for Call messages	
Allow SDP changes from SSP without session version update	
Do not send INVITE with sendonly media attribute	
Do not send INVITE with video media line	
Do not send Invite without SDP	
Do not send Re-Invite when no media type change	
Do not send Re-Invite Remove Silence Suppression parameter from SDP	
Enable pass-through of Optional parameters	
Force direction attribute to sendrcv	
Send default Home DN in PAI/PPI	
Preserve To and From headers per RFC2543	
Allow single SSP with different home DN prefix based handling	
Ignore last digit in Default home DN for incoming calls from SIP trunk	
π.s	?
TLS Signaling Endpoint Config	
Sip Connect	?
Use tel URI	
Send user=phone in SIP URI	
Registration mode	
✓ 1TR118	

In the *Remote Endpoint Configuration* window the *SIP Service Provider Profile* shown above has to be selected:

bect the beause in the charges. Hele now charge permenter by alternary layer. Young of the Secret Secret. The function of the secret S	emote endpoint configuration	
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or Image: state in the s	ne DTAGTSystems Edit	
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Contraction Contraction	1 trunk telekom de 0 TLS SRTP Mutual Telekom	60 10 360000 3000 reg.sip- trunk telekom de
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I use Paddress in MSRP-path use FQDN in MSRP-path FQDN Authentication required Realm Password Show Access side only Qop AUTH Expire time/sec 300 Iscellaneous Show Show Show Show	Enable MSDD Delay Support (not licensed)	
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Access side only Qop AUTH Expire time/sec 300	Realm	Password
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	ellaneous	
2 Open external firewall pinhole	Open external firewall pinhole	

If a NAT router is in between SBC and SIP Trunk *Open external firewall pinhole* must be enabled so the SBC will open the RTP port on the NAT router by sending UDP packets to let the NAT router pass RTP packets from a PSTN phone.

The figures below show the *Remote Location Domain* window for an unencrypted SIP trunk using TCP and RTP on the left and for an encrypted SIP trunk using TLS and SRTP on the right:

a Remote Locati	ion Dom	ain					
Select OK to temporarily store changes. Make your changes permanent by							
Conoral							
General							
Remote URL	sip-trunk.	telekom.de					
Remote SIP/MGCP port	0						
Remote transport	TCP	\checkmark					
Signaling							
INVITE No Answer timeo	ut (msec)	360000					
INVITE No Reply timeout	t (msec)	3000					
TLS							
TLS mode		Mutual authentication					
Certificate profile		Telekom					
TLS keep-alive							
Keep-alive interval	(seconds)	60					
Keep-Alive timeout	(sec)	10					
Media Configuration							
Media profile	R	TP v					
Media realm subnet IP a	ddress						
Outbound Proxy Configu	uration						
Outbound Proxy	eg.sip-trur	nk.telekom.de					
Outbound Proxy Port 0							
Registrar Server Configu	uration						
Registrar Server							
Registrar Server Port 0)						

a Remote Locat	ion Domain							
() Select OK to temporarily store changes. Make your changes permanent by selecting '								
General								
Remote URL	note URL sip-trunk. telekom. de							
Remote SIP/MGCP port	0							
Remote transport	TLS	r.s 🗸						
Signaling								
INVITE No Answer timed	out (msec) 3600 t (msec) 3000	000						
TLS								
TLS mode Certificate profile ☑ TLS keep-alive		Mutual authentication Telekom	V					
Keep-alive inter Keep-Alive time	val (seconds) out (sec)	60 10						
Media Configuration								
Media profile	SRTP	~						
Outbound Proxy Config	uration							
Outbound Proxy r	eg.sip-trunk.tele	ekom.de						
Outbound Proxy Port)							
Registrar Server Config	uration							
Registrar Server								
Registrar Server Port)							

Preparing and Installing TLS Certificates

For using TLS and SRTP over the SIP trunk, uploading and configuration of the Deutsche Telekom CA certificates on the SBC is required. The actual Telekom CA certificates can be downloaded here:

 Download the Telekom Root-CA-Certificate T-TeleSec GlobalRoot Class 2 from URL https://www.telesec.de/assets/downloads/PKI-Repository/T-TeleSec GlobalRoot Class 2.cer

Important note:

Please make sure that the certificates are still valid. In case they are expired or not available anymore, please contact Telekom Deutschland GmbH or use the ones from the public websites, e.g. https://www.telesec.de/de/root-programm/informationen-zu-ca-zertifikate/

Because the OpenScape SBC supports only certificates in pem format the Telekom , *Root-CA-Certificate* ' certificate T-TeleSec_GlobalRoot_Class_2.cer has to be converted

- via Linux shell e.g. on the OpenScape SBC via command openssl x509 -inform der -in T-TeleSec_GlobalRoot_Class_2.cer -out T-TeleSec_GlobalRoot_Class_2.pem
- or via e.g. online converter https://www.sslshopper.com/ssl-converter.html

Certificate Conversion Options
Certificate File to Convert
Durchsuchen Shared_Business_CA4.der
Type of Current Certificate
DER/Binary ~
Detected type from file extension
Type To Convert To
Standard PEM Y
Convert Certificate

Click on *Convert Certificate* and save the converted certificate with file extension .pem.

Create in the next step a chained certificate based on the certificates *Root-CA-Certificate* named e.g. dt-chain-ca.pem and copy the content of this certificate files into it in the following order:

-----BEGIN CERTIFICATE-----<dt-root-ca-2.cer>

-----END CERTIFICATE-----

-----BEGIN CERTIFICATE-----

< T-TeleSec_GlobalRoot_Class_2.cer>

-----END CERTIFICATE-----

Then the chained certificate should look like as below: -----BEGIN CERTIFICATE-----

```
MIIGiTCCBXGgAwIBAgIIMBWLWM1WMfUwDQYJKoZIhvcNAQELBQAwcTELMAkGA1UE
...
nfKouiXc6eG1ojopwckO/uEu0JVEnyMOzGoIPU2/PhFvG6aAPsB4tvv/AHzR
----END CERTIFICATE----
MIIDnzCCAoegAwIBAgIBJjANBgkqhkiG9w0BAQUFADBxMQswCQYDVQQGEwJERTEc
...
Cm26OWMohpLzGITY+9HPBVZkVw==
----END CERTIFICATE-----
```

Then upload this certificate via GUI at Security -> General -> Certificate Management into OpenScape SBC in the in section *CA Certificates* by selecting this certificate and clicking on *Upload*. Then the certificate appears in the CA certificates list:

Certificate Management	
Select OK to temporarily store changes. Ma	ke your changes permanent by selecting 'A
CA Certificates	
Upload CA certificate file Durchsuchen Ke	eine Datei ausgewählt. Upload
CA certificates	
dt-chain-ca.pem	^ Delete
dt-root-ca-2.pem	
serverCA.pem	
	×

To replace the OpenScape SBC default certificates provided by installation execute the following steps:

The in *Certificate Creation* section enter e.g. ossbc in the *Name field* an click on Create leaving *Self signed* as *CA file* unchanged:

Certific	cate Creation				
Create	New TLS Certificates				
Name	ossbc	CA file	Self signed	\sim	Create

In the CA certificates, X.509 Certificates and Key files windows appears now the new certificates:

CA Certificates	X.509 Certificates
Upload CA certificate file Browse No file selected.	Upload X.509 certificate file Durchsuchen Keine Datei ausgewählt.
CA certificates dt-chain-ca.pem ossbcCA.pem serverCA.pem	X.509 certificates Ossbccert.pem Servercert.pem
Key Files Upload key file Browse No file selected. Key files ossbckey.pem serverkey.pem	

In the *Certificate Profiles* section click on *Add*:

🖸 Certificate Man	agement				
 Select OK to temporar 	ily store changes. Make	your changes permanent	by selecting 'Apply Changes' or	n the General page.	
Media DTLS certificate prof	fie	~			
Certificate Profiles					?
				Add	Edit Delete
Name	Certificate service	Client certificate file	Server certificate file	Local CA file	Remote CA f
OSV Solution	SIP-TLS		servercert.pem	serverCA_pem	^
HTTPS System Default	HTTPS		server.crt		_

Create a new Certificate Profile selecting the certificates created before:

🛱 Certificate Profi	le
Select OK to temporaril	y store changes. Make your changes permanent by selectin
Certificate profile name	Telekom
Certificate service	SIP-TLS
Local client certificate file	Show
Local server certificate file	ossbccert.pem V
Local CA file	ossbcCA.pem 🗸 Show
Remote CA file	dt-chain-ca.pem 🗸 Show
Local key file	ossbckey.pem
EC param	secp256r1
Attach to Config file	
Validation	
Certificate Verification Ful	
Renegotiation	
Enforce TLS session rei	negotiation ion interval (minutes) 60
TLS version	
Minimum TLS version TLS V	/1.2
DTLS version	
Minimum DTLS version DTL	S V1.0
Cipher Suites	
Perfect Forward Secrecy	Preferred PFS
Encryption F	Preferred AES-128
Mode of Operation	Preferred GCM

Finally the created Certificate Profile has to be configured in the *Remote Location Domain* window:

Remote Locat	ion Domai	n				
 Select OK to tempo 	rarily store cł	nanges. Make your changes permanent by selec				
General						
Remote URL	sip-trunk.te	ekom.de				
Remote SIP/MGCP port	0					
Remote transport	TLS 🗸					
Signaling						
INVITE No Answer timed	out (msec) 3	60000				
INVITE No Reply timeou	t (msec) 3	000				
TLS						
TLS mode		Mutual authentication				
Certificate profile		Telekom 🗸				
TLS keep-alive						
TLS keep-alive Keep-alive inter	val (second	s) 60				
TLS keep-alive Keep-alive inter Keep-Alive time	val (second out (sec)	60 10				
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TLS keep-alive Keep-alive inter Keep-Alive time Media Configuration Media profile	val (second out (sec)	b) 60				
TLS keep-alive Keep-alive inter Keep-Alive time Media Configuration Media profile Media realm subnet TP a	val (second out (sec) SRT	b 60 10 10 b b c c c c c c c c c c				
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 TLS keep-alive Keep-alive inter Keep-Alive time Media Configuration Media profile Media realm subnet IP a Outbound Proxy Config Outbound Proxy Port (Registrar Server Config 	val (second out (sec) SRT ddress uration eg.sip-trunk.	interview interview				
 TLS keep-alive Keep-alive inter Keep-Alive time Media Configuration Media profile Media realm subnet IP a Outbound Proxy Config Outbound Proxy Port (Registrar Server Config Registrar Server 	val (second out (sec) SRT ddress uration reg.sip-trunk.	initial initial <td< td=""></td<>				

OpenScape Voice Configuration

CompanyFlex Config/Delta:

UNIFY Common	Ma	nage	ement Platform	Domain: s	ystem					
Configuration Maintenance		llser M	anagement Fault M	lanagement	Performar	ce Management		ator@system Settings 1		
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OpenScape Voice OpenScape Branch OpenScape SBC RG8700 Unified Communications CMP Device Management										
🧑 simpltelekom 💟	2	[simpl	telekom] - [telekom] - E	ndpoint Profi	les				?	
1 CONTRACTOR OF										
Business Group										
Quick Tasks	5	Search fo	r	in EndPoint P	Profile Name 🗸	Search Show All	Advanced			
Business Group List							Clone	Add Edit	Delete	
📑 telekom 🗸	Sa	l-0 Ther	ns/Pane: 200 All-13							
► General	_	aro I reci	1 All 200 V All 20						-	
▼ Profiles			Name 🔬	Nu	mbering Plan	Class of Service	Routing Area	Calling Location	Remark	
Endpoint			DEPP_Bonn_CFlex	NP_	Bonn-CFlex		RA_Bonn-CFlex		No	
Feature		2	DEPP_Bonn_DLAN	NP	Bonn-DLAN		RA_Bonn-DLAN		No	
Mobile Client		9	DEPP_Darm_CFlex	NP	Darm-CFlex		RA_Bonn-CFlex		No	
► Teams		2	EPP_CPS	NP	OSB50i-01		RA_Bonn-DLAN		No	
 Statistics 			EPP_Fallback	NP	Common				No	
Display Number Modification		9	EPP MediaSrv	NP	OSB50i-01		RA Bonn-DLAN		No	
Branch Office List		0	EPP OSB50i 01	NP	OSB50i-01		RA OSB50i-01		No	
		64	EPP SBC Boon	NP	Bonn-DI AN		RA Bonn-DI AN		No	
Primbers		GR	EDD CRC Room CCD CELEY 01		Been CElev		DA Boon CElay		Na	
NP. Common (Default Common us		00		. IVF-	Donn-Criex		RA_DOIN-CHEX		No	
Translation		88	EPP_SBC_Bonn_SSP_DLAN_01	NP_	BOND-DLAN		RA_Bonn-DLAN		No	
Destinations and Poutos			EPP_SBC_Darm_SSP_CFLEX_0:	NP_	Darm-CFlex		RA_Bonn-CFlex		No	
Desultations and Routes			EPP_SbcThig	NP_	OSB50i-01		RA_Bonn-DLAN		No	
		2	EPP_Xpressions	NP_	OSB50i-01		RA_Bonn-DLAN		No	

🥰 [simpltelekom] - [telekom] - Edi	t Endpoint Profile : EPP_S	BC_Bonn_SSP_CFLEX_01	?
Please enter the profile data.			
General Endpoints Services			
Endpoint Profile			
Ø Please enter a unique name to identify this	profile.		
Name:	EPP_SBC_Bonn_SSP_CFLEX_		
Remark:			
Numbering Plan:	NP_Bonn-CFlex		
Management Information			
() Please enter the data for the following field	ds in the corresponding screens.		
Class of Service:			
Routing Area:	RA_Bonn-CFlex		
Calling Location:			
Two Terror	Europa Parlin		
Time Zone:	Europe/beriin		
SIP Privacy Support:	Full Send	~	
Failed Calls Intercept Treatment:	Disabled	\checkmark	
Language:	SoftSwitch Default (German)	~	
Impact Level	Undassified		
angund LCVCI	ed tubber these		
		Save	Cancel

🥮 (sin	npitelekom] - [tele	ekor	n] -	Edit Endpoin	t Profile :	EPP_S	SBC_Bonn_S	SP_CFLEX_01			?
🛈 Pleas	e enter the profile data.										
Genera	al Endpoints	Se	rvice	25							
•	M			X							
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	Tank to better										
•	CSTA Network Interfa	ce D	evice:	N	0	\sim		Enable Name P	rovider and Limit	ed Call Control	
							What to	do if Application f	fails to handle int	oound calls:	
							Allow cal	I to proceed as no	ormal 🗸		
										Save	ancel
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UNIF	Y Common	Ma	nag	ement Plat	form	Domain: sy	rstem		Usi	er: administrator@system Settings Hel	lp Logout
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	🌣 🔐 🕰	0	Endpoi	nts represent Network	to Network Interf	ace connect	tions.				Ę
Ouick T	Business Group Tasks		Search	for	in	Endpoint N	ame 🗸	Search Sho	w All Advance	d	
Busines	ss Group List				Add	Edit	Bulk Edit	Clone Delete	Change Branch	Office Test Audit Set to	Normal
 telekom Genera 		S	el: 0 Ite	ems/Page: 200 🧹 A	JI:14						
 Profiles 	5			Name 🔺	Numbering Pl	an Name	Registration Type	Registration State	Operational State	Primary	Remark
 Teams Statisti 	ics			CPS D EP Bonn	NP_OSB50i-01		Dynamic	Not Registered	Normal		No
 Display 	Number Modification			D EP Bonn-CFlex	NP Bonn-CFlex		Dynamic	Not Registered	Normal		No
Branch	Office List			D_EP_Darm-CFlex	NP_Bonn-CFlex		Dynamic	Not Registered	Normal		No
Main Off	fice 🗸		Ξ.	EP_MediaSrv1	NP_OSB50i-01		Static	Registered	Normal	10.82.53.233	No
▼ Membe	ers		8_	EP_OSB50i-01	NP_OSB50i-01		Static	Registered	Normal	10.82.53.227	Yes
Endry	oints		Ξ_	EP_OSB50i-01G	NP_OSB50i-01		Static	Registered	Normal	osb50i-01.bonn.telekom.de	Yes
Private	e Numbering Plan List		∎_	EP_Xpressions	NP_OSB50i-01		Static	Registered	Normal	10.82.53.241	No
NP_Com	ımon (Default, Common 🔽		•	Fallback	NP_Common		Dynamic	Not Registered	Normal		No
 Transla 	ation			SBC_Bonn-DLAN	NP_Bonn-DLAN		Static	Registered	Normal	sbcbonn-sspdlan-01.bonn.telekom.de	Yes
 Destina 	ations and Routes		-	SBC_Bonn_CFLEX1	NP_Bonn-CFlex		Static	Registered	Normal	sbcbonn-sspcflex-01.bonn.telekom.de	Yes
			-	SBC_Bonn_CFLEX2	NP_Darm-CFlex		Static	Registered	Normal	sbcbonn-sspcflex-02.bonn.telekom.de	Yes
			.	SBC_Bonn_OP	NP_Bonn-DLAN		Static	Registered	Normal	10.82.53.227	Yes
			×.	SbcThig1	NP_OSB50i-01		Static	Registered	Normal	10.82.53.227	No

UNIFY Common Management Platform Domain: system User: administrator@system Settings Help L										
Configuration Maintenance	User	Management	Fault	Management Perform	nance Management Acc	counting 0 🖬	13 🗾 2			
OpenScape Voice OpenScap	e Branch	OpenScape \$	SBC	😆 [simpltelekom] - [telekom] - [Main Office] - Edit Endpoint: SB	SC_Bonn_CFLEX1 — Mozilla – 🛛	×			
🛓 simpltelekom 🔍	🖣 [sim	pitelekom] - [tele	kom] -	0 A https://10.92.53	233 /management /portal /Appli	ications/Operation/OSV/BusinessCro	=			
	Endpo	ints represent Network	to Netwo	M nttps://10.82.53.	233/management/portal/Appl	ications/Operation/Osv/businessGro ····	=			
Business Group				* [simpltelekom] - [tek	ekom] - [Main Office] - Edit Er	ndpoint : SBC_Bonn_CFLEX1	- ? -			
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Business Group List			6	Endpoint						
🔚 telekom 🔽	Sel:011	tems/Page: 200	All:14	Define the connection data (of an endpoint, e.g. you may use this t	to add a gateway to a switch.				
▶ General		temajrage. 200 V I		~						
 Profiles 		name 🔺	Numbe	Name:	SBC_Bonn_CFLEX1					
Teams		CPS	NP_OS		SID-Trunk Verbindung zum zentralen (OS SRC auf ceinen Core SID-Bort 50002				
 Statistics 		D_EP_Bonn	NP_Bor	Remark:	(Der OSEE-THIG manipuliert die Ziel-S)	IP-Ports von 50008 auf 50002 und zurück.)				
Display Number Modification		D_EP_Bonn-CFlex	NP_Bor							
Branch Office List		D_EP_Darm-CFlex	NP_Bor	Registered:						
Members		EP_MediaSrv1	NP_OS	Dusfiles	EDD CRC Room CCD CELEY					
Subscribers		EP_OSB50i-01	NP_OS	Profile:	EPP_SDC_DONN_SSP_CFLEX_					
Endpoints		EP_OSB50i-01G	NP_OS	Branch Office:						
Private Numbering Plan List	🗆 🖣	EP_Xpressions	NP_OS			_				
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Translation	🗆 🖣	SBC_Bonn-DLAN	NP_Bor	Default Home DN	4922842276570					
 Destinations and Routes 	🗆 📲	SBC_Bonn_CFLEX1	NP_Bor	Derault Home DN	49220422/05/0					
	🗆 🖣	SBC_Bonn_CFLEX2	NP_Dar	Location Domain						
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Find in page 🔨 🗸	Highlight A	II Match <u>C</u> ase M	/latch Dia							
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📲 [simpltelekom] - [tek	ekom] - [Main Office] - Edit Endpoint : SBC_	Bonn_CFLEX1	?
General SIP Attr	ibutes Aliases Routes Accounting		
Endpoint Type			- î
SIP Private Networking:	0		
SIP Trunking:	۲		
SIP-Q Signaling:	0		
SIP Signaling			
For the static Endpoints the Note that the address of the has first been removed.	address of the SIP signaling interface can be specified in e signaling interface cannot be modified unless the entry i	IP or FQDN format. n the security section	
Туре:	Static 🗸		
Signaling Address Type:	IP Address or FQDN		
Endpoint Address:	sbcbonn-sspcfiex-01.bonn.telekom.de	pezieller FDQN für diesen SIP-Trunk, er in der OSV auf die IP-Adresse des	
Port:	50008	verweißt.	
Transport protocol:	TCP v		
Endpoint does not accept incoming TLS connections:			
Best Effort SRTP support:	MIKEY, SDES 🗸		
ANAT Support:	Enabled 🗸		
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Use Proxy/SBC Best-Effort SRTP settings for calls to			
AS-SIP Interface			
Management Address:	172.16.0.5		
Red Sky E911 Manager node:			
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syster	m			General	SIP	Attributes	Aliases	Routes	Accounting
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Un	nified Communications	CMP Device	Management	Endpoint Ac	idress:	sbcbor	in-sspcflex-01	.bonn.telekom.	de
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t Nam	[simpltelekom] - SIP	Configuration	?	Transport pro	otocol:	TCP	\sim		
-	In this section you can cor REALM, User and Passwor	nfigure Realm attributes, Port(rd.	s) e.g. 4713-4717,	Endpoint doe incoming TLS	s not accept connections:				
s	Security			Best Effort S	RTP support:	MIKEY,	SDES 🗸		
e R D	Trusted entity:			ANAT Suppor	t:	Enable	d 🗸		
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St	Local Realm:	tel.t-online.de		Use Proxy/SB SRTP settings	C Best-Effort for calls to				
St	Local User Name:	+491992960000000233	0@	subscribers: AS-SIP Interf	ace				
St	Local Password:	•••••		Management	Address:	172.16	.0.5		
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St	Remote Realm:			Outgoing Call Timer(ms):	Supervision				
St	Remote User Name:			Proxy Bypass Timer (ms):	Supervision				
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Wor	Confirm Remote Password:		_ ∖	ecurity					
			```	🕕 Set the F	Realm, Userna	me and Passwor	d for digest au	uthentication or	configure the signaling address as a trusted one.
				Sol:1   Item	s/Page: 200	V   All:1			Add
			OK Cancel		Trusted				
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General SIP Attributes Aliases Route	s Accounting	
Attributes		<u> </u>
O Attributes available for this SIP endpoint		
Supports SIP UPDATE Method for Display Updates		
UPDATE for Confirmed Dialogs Supported		
Survivable Endpoint		
SIP Proxy		
Central SBC		
Route via Proxy		
Allow Proxy Bypass		
Public/Offnet Traffic		
Accept Billing Number		
Use Billing Number for Display Purposes		
Allow Sending of Insecure Referred-By Header		
Override IRM Codec Restriction		
Transfer HandOff		
Send P-Preferred-Identity rather than P-Asserted-Identity		
Send domain name in From and P-Preferred-Identity headers		
Send Redirect Number instead of calling number for redirected calls		
Do not send Diversion header		
Do not Send Invite without SDP		
Send International Numbers in Global Number Format (GNF)		
Rerouting Direct Incoming Calls		
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		Save Cancel

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General SIP Attributes Aliases Rout	Accounting	
Rerouting Forwarded Calls		<u>^</u>
Enhanced Subscriber Rerouting		
Automatic Collect Call Blocking supported		
Send Authentication Number in P-Asserted-Identity header		
Send Authentication Number in Diversion Header		
Send Authentication Number in From Header		
Use SIP Endpoint Default Home DN as Authentication Number		
Use Subscriber Home DN as Authentication Number		
Set NPI/TON to Unknown		
Include Restricted Numbers in From Header		
SIPQ Truncated MIME		
Enable Session Timer		
Ignore Answer for Announcement		
Enable TLS RFC5626 Ping		
Enable TLS Dual Path Method		
Ignore Receipt of 181 Call is Being Forwarded		
Use extended max. count for loop prevention		
Do Not Audit Endpoint		
Use Proxy/SBC ANAT settings for calls to subscribers		
Support for Callback Path Reservation		
Send Progress to Stop Call Proceeding Supervision Timer		
Limited PRACK Support		
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	l	Save Cancel

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General SIP Attributes Aliases Routes	Accounting	•
Support Media Redirection		
Voice Mail Server		
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Send/Receive Impact Level		
Do not send alphanumeric SIP URI		
Send alphanumeric SIP URI when available		
Support Peer Domains		
Reserve 6		
Allow endpoint to Unregister Stale Registrations		
Enable Media Termination Point (MTP) Flow		
Video call allowed		
Trusted Subscriber		
Enable Fast Connect		
Circuit Connector Appliance		
Add Route Header:		
Disable SRTP		
Include OSV SIP User-Agent header field	_	
Do Not Allow LIDIE in P-LIDI/TO Header for NG011 Calls		
Do not Allow oknos ili R-Okty to neader for NG911 Calls		
Reserve 8		
Accept x-channel header		
Suppress SPE in SIPQ		
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Aliases		
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Profiles		-4	00800	Unknown			Toll Free	Destination	D_BonnCFlex_SP2	No
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Statistics		-12	0110	Unknown			Emergency	Destination	D BonnCFlex SF	No
Display Number Modification		-	0117	Linknown			Emergency	Declination	D BonoCElex SE	No
Branch Office List			0115	Unknown			Largercy	Destination	D_BornCElex_SE	Ne
Main Office			0115	Unknown			Local	Destination	D_BonnCHex_SPU	NO
Members			0116	Unknown			Local	Destination	D_BonnCFlex_SPu	No
Private Numbering Plan List			0118	Unknown			Premium Rate	Destination	D_BonnCFlex_SPu	No
NP_Bonn-CFlex		-	0137	Unknown			Premium Rate	Destination	D_BonnCFlex_SP1	No
Translation		-	019222	Unknown			Emergency	Destination	D_BonnCFlex_SE	No
Prefix Access Codes		-4	049700	Unknown			Premium Rate	Destination	D_BonnCFlex_SP	No
Destination Codes		-12	049800	Unknown			Toll Free	Destination	D_BonnCFlex_SP	No
Domain Codes		-2	049900	Unknown			Premium Rate	Destination	D_BonnCFlex_SP	No
Location Codes		-4	1	International			International	Destination	D BonnCFlex I	No
Extensions		-12	2	International			International	Destination	D BonnCElex I	No
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			4915	International			Mobile	Destination	D_BOUNCHEX_N	NO
		-	4916	International			Mobile	Destination	D_BonnCFlex_N	No
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		-4	49228	International			Local	Destination	D_BonnCFlex_S	No
		-	5	International			International	Destination	D_BonnCFlex_I	No
		2	6	International			International	Destination	D_BonnCFlex_I	No
		-14	7	International			International	Destination	D_BonnCFlex_I	No
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UNIFY Commo	n M	ana	gement	t Platform	Domain: system		User: adn	ninistrator@system   Se	ttings   Help   Logo
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simpltelekom 🗸	1 1	[simp	oltelekom] -	[telekom] - [NP_Bon	n-CFlex] - Prefix	Access Codes			?
🟦 🌣 🔡 🙇	0	The Pr	efix Access Cod	le (PAC) is the code entered	in the numbering plan.	A call can only be routed if t	he dialed digits are matching a PAC.		
Business Group									
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General			Code A	Min/May Length	Prefix Type	Nature Of Address	Destination Type	Destination	Remark '
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Icams     Chabielies				1/30	On east Access	Unknown	BG Common Destination	NP_Common	Ne
Display Number Modification			800.0	1/30	Office Access	Unknown	Bacominion Desunation	NP_Common	No
Branch Office List			-001	4/30	Off-net Access	Unknown	None		No
Main Office			+	1/30	Off-net Access	Unknown	BG Common Destination	NP_Common	No
Members		-	0	4/30	Off-net Access	Unknown	BG Common Destination	NP_Common	No
Private Numbering Plan List			0	1/3	On-net Access	Unknown	BG Common Destination	NP_Common	No
NP_Bonn-CFlex		-	00	4/30	Off-net Access	Unknown	BG Common Destination	NP_Common	No
▼ Translation		-	000	4 / 30	Off-net Access	Unknown	BG Common Destination	NP_Common	No
Prefix Access Codes		-	0010	5 / 30	Off-net Access	Unknown	None		No
🍓 Destination Codes		-4	0013	4 / 30	Off-net Access	Unknown	None		No
Domain Codes		-12	0018	4 / 30	Off-net Access	Unknown	None		No
Code Indexes		-12	0019	4 / 30	Off-net Access	Unknown	None		No
Location Codes		-12	00700	5 / 30	Off-net Access	Unknown	None		No
Destinations and Routes		-12	00800	5 / 30	Off-net Access	Unknown	None		No
		-12	00900	5 / 30	Off-net Access	Unknown	None		No
		12	0110	4/4	Off-net Access	Unknown	None		No
		-12	0112	4/4	Off-net Access	Unknown	None		No
		-	0115	4/4	Off-net Access	Unknown	None		No
		-2	0116	4/7	Off-net Access	Unknown	None		No
	Π	-12	0118	4/7	Off-net Access	Unknown	None		No
		-12	0137	5/5	Off-net Access	Unknown	None		No
	H	-12	019777	6/6	Off-net Access	Unknown	None		No
		-12	0.49700	6/30	Off-pat Access	Linknown	None		No
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isimpltelekom	-12	[simp	ltelekom]	- [telekom] - [M	IP_Bonn-CFlex] - Prefix	Access Codes			?
A 🌣 🔡 🙇	0	The Pre	efix Access C	ode (PAC) is the code	entered in the numbering plar	n. A call can only be routed if	the dialed digits are matching a PAC.		
Business Group		Caneth	for		in Code	Search Show All	Advanced		
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<ul> <li>Profiles</li> </ul>		-12	0110	4//	Off-pat Access	Unknown	None		No
► Teams		-5	019777	6/6	Off-oet Access	Unknown	None		No
<ul> <li>Statistics</li> </ul>		-12	049700	6/30	Off-net Access	Unknown	None		No
Display Number Modification		-5	049800	6 / 30	Off-net Access	Unknown	None		Ne
Branch Office List		-12	049900	6 / 30	Off-net Access	Unknown	None		No
Main Office		-12	1	4/30	Off-net Access	Unknown	BG Common Destination	NP_Common	No
A Private Numbering Plan List		-12	1	1/3	On-net Access	Unknown	BG Common Destination	NP_Common	No
NP_Bonn-CFlex		-12	110	3/3	Off-net Access	Unknown	None		No
▼ Translation		-12	112	3/3	Off-net Access	Unknown	None		No
Prefix Access Codes		-12	19222	5/5	Off-net Access	Unknown	None		No
Destination Codes		-12	2	4/30	Off-net Access	Unknown	BG Common Destination	NP_Common	No
Code Indexes		-12	2	1/3	On-net Access	Unknown	BG Common Destination	NP_Common	No
Location Codes		-12	3	4 / 30	Off-net Access	Unknown	BG Common Destination	NP_Common	No
Extensions		12	3	1/3	On-net Access	Unknown	BG Common Destination	NP_Common	No
<ul> <li>Destinations and Routes</li> </ul>		-12	4	4/30	Off-net Access	Unknown	BG Common Destination	NP_Common	No
		14	4	1/3	On-net Access	Unknown	BG Common Destination	NP_Common	No
		-12	5	4 / 30	Off-net Access	Unknown	BG Common Destination	NP_Common	No
		-4	5	1/3	On-net Access	Unknown	BG Common Destination	NP_Common	No
		-14	6	4 / 30	Off-net Access	Unknown	BG Common Destination	NP_Common	No
		-12	6	1/3	On-net Access	Unknown	BG Common Destination	NP_Common	No
		-4	7	4 / 30	Off-net Access	Unknown	BG Common Destination	NP_Common	No
		-	7	1/3	On-net Access	Unknown	BG Common Destination	NP_Common	No
		-4	8	4 / 30	Off-net Access	Unknown	BG Common Destination	NP_Common	No
			8	1/3	On-net Access	Unknown	BG Common Destination	NP_Common	No
		1	9	4 / 30	Off-net Access	Unknown	BG Common Destination	NP_Common	No
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simpltelekom	4	[simp	oltelekom	- [telekom] - [I	NP_Bonn-CFlex] - Desti	inations			7
Business Group	0	Destina	ations are us	ed to route a call to a	n endpoint representing a gati	eway.			
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<ul> <li>Display Number Modification</li> </ul>		-12	D_BonnCF	lex_S	F	alse	1		
Branch Office List		-12	D_BonnCF	lex_SE	F	alse	1		
Main Office		-4	D_BonnCF	lex_SP	F	alse	1		
<ul> <li>Members</li> </ul>	-	-12	D_BonnCF	lex_SP1	F	alse	1		
Private Numbering Plan List		-4	D_BonnCF	lex_SP2	F	alse	1		
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enance eenScaj	<b>pe B</b>	User Branch [ [simp Destina Search () Itu () () () () () () () () () () () () ()	D_BonnCFlex_SPu  Management  OpenScape SBC  Detelekom] - [telekom]  ations are used to route a cal for  ems/Page: 200] Al:8  Name A  D_BonnCFlex_I  D_BonnCFlex_S  D_BonnCFlex_SE  D_BonnCFlex_SE  D_BonnCFlex_SP2  D_BON D_	it () De Routes () Mi Sel:0	implitelekom implitelekom simpliteleko eral Ro ultiple routes Ultiple rou	n] - [teleka //10.82.5 om] - [t e used for outes can be use e: 200	om) - [NP_Bonn-CFlex; 53.233/managemen elekom] - [NP_Bon routing a call to an endp Route Lists De ed for prioritizing the rout ed for prioritizing the rout [] [All:1 Endpoint SBC_Bonn_CFLEX1	I - Edit Destination: D_BonnCFle t/portal/Applications/Opera <b>n-CFlex] - Edit Destination</b> oint. estination Codes tes to the gateways. Route Type SIP-Endpoint	<_SP1 — Mozilli tion/OSV/Bu: : D_BonnCFle Delete 1	I Firefox iinessGroup, x_SP1 Insert 49	Add Edit  Nature of Address International	Dele	× = ?

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enSca	pe Br	anch	OpenScape SBC	: [s	implt	elekom] -	[telekom] - [NP_B	onn-CFlex	- Edit Destinatio	D BonnCF	ov SP2			2
~	-47	[simpl	telekom] - [telekom]	Der	etinatic	ons are used	for routing a call to an en	vincint,	- Luit Descine	n. <b>0_</b> 001	:X_012			
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	Sel	:0   Iten	ns/Page: 200 🗸   All:8											
			Name A									Add Edit	D	elete
			D_BonnCFlex_N	Sel:0	Item	s/Page: 200	V   All:1							
n		-	D BonnCFlex_S			ID 🔺	Endpoint		Route Type	Delete	Insert	Nature of Addres	5	
		-12	D_BonnCFlex_SE		<u>*</u>	10	SBC_Bonn_CFLEX1		SIP-Endpoint	2	49	International		
~		-2	D_BonnCFlex_SP											
		-12	D_BonnCFlex_SP1											
		-92	D_BonnCFlex_SP2											
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~	1.4	[sim	oltelekom] - [telekom]	-	simpli	telekom] -	[telekom] - [NP_B	onn-CFlex	- Edit Destinatio	n: D_BonnCHe	ex_SPu			1
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				Gene	eral	Routes	Route Lists	Destination	i Codes					
		Search	for	Routes										
				<b>()</b> M	ultiple	routes can be	e used for prioritizing the r	routes to the	gateways.					
	S	el: <b>0  </b> It	ems/Page: 200 🧹   All:8											
			Name 🔺	_								Add	De	lote
		-12	D_BonnCFlex_I	Sel·(	0 Litter	Dagas 20								ica.
		- 4	D_BonnCFlex_N	Seite	Titen	ns/Page: 200			Deute Turne	Dalata	Tacast	Notices of Address		
ion		4	D_BonnCFlex_S	H	4	10	SPC Roop CELEX1		STR-Endpoint	1 Delete	Insert	Nature of Address		
~		- 4	D_BonnCFlex_SE			10	SDC_DURIT_CLEEK1		STA-CLIChOLUT	1		UTIKI IOWI		
		-12	D_BonnCFlex_SP1											
st		-3	D BonnCFlex SP2											
~		-4	D_BonnCFlex_SPu											
	_													
2	10	gir	as: root											
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1														
				1										
	ut	nor	lized uses	oni	¥ •	ALI	activity	may	be monit	corea a	ind re	portea.		
	En	d c	of banner m	less	age	e fro	m server							
100	Ke	ybc	ard-intera	icti	ve	auth	enticatio	on pr	ompts fr	com ser	ver:			
I F	as	SWC	ord:											
La Contraction	En	d c	of keyboard	l-in	ter	racti	ve promp	ts fr	om serve	er				
Las	t	109	jin: Wed De	2C	9 :	19:13	:28 2020	from	10.82.5	53.117				
Aut	ho	riz	ed uses or	ily.	A	11 ac	tivity m	ay be	monitor	red and	l repo	rted.		
roc	ot@	OST	vnl:[~] #61	1										
# c	d	/et	c/hig8000/											
100	DT Q	0.51	m]:[/etc/]	id8	0.01	01 #6	512							
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		Tole	III. CLY											
														1





#### DeutschlandLAN SIP Trunk:

The following configurations are done via Voice Assistant.

## **Central SBC Endpoint**

The following figure shows the general settings:

📲 # [simpltelekom] -	[telekom] - [Main Office] - Edit E	endpoint : SBC_BonnSP1
General SIP	Attributes Aliases Routes	Accounting
ndpoint		
Define the connection	data of an endpoint, e.g. you may use this	to add a gateway to a switch.
Name:	SBC_BonnSP1	
Remark:	Central SBC connection to Telekom S 50000 (mapped from THIGsbc from	IP Trunk - port 50002 to 50000) .::
Registered:		
Profile:	EPP_cSbc	ZUGANGSDAT
Branch Office:		Vertraulich, bitte aufbewah Datum 01. März 2018 Ortsvorwahl 0228
Associated Endpoint:		Durchwahlnr. 12345 Abfragestelle 0
Default Home DN	49	Registrierungsrufnummer +49228123450
Location Domain		von 000 bis 299
Endpoint Template:		
Endpoint Type:	Central SBC	
Max number of users:		

Telekom specifies in INVITEs received over the SIP trunk in the P-Asserted-Identity SIP header the SIP trunk ID which has not to be displayed on the called phone. Therefore *SIP Privacy Support* has to be set to **Full Send** in the SBC Endpoint Profile. This causes the P-Asserted-Identity header to be ignored for incoming calls but supported for outgoing calls.

🥞 [simpltelekom] - [telekom] - Edit	Endpoint Profile : EPP_c	bc
<ol> <li>Please enter the profile data.</li> </ol>		
General Endpoints Services		
Name:	EPP_cSbc	
Remark:		
Numbering Plan:	NP_Bonn	
Management Information		
Please enter the data for the following field	ls in the corresponding screens.	
Class of Service:		
Douting Areas	RA Bonn	
Rouding Area:		
Calling Location:		
Time Zone:	Europe/Berlin	
SIP Privacy Support:	Full Send	~
Failed Calls Intercept Treatment:	Disabled	~
Language:	SoftSwitch Default (German)	~

In the SBC endpoint on tab *SIP* in section *Security* has be configured the telephony authentication credentials to enable Voice to reply to Digest Authentication challenges from Telekom:

🚳 (simpltelekom)	📲 🚺 [simpltelekom] - SIP G	Configuration - Mozilla Fir	D	×		X	inagen
🗊 🌶 🔒 https	:// 🛈 🔒 https://172.17	.0.4:446/management/	··· 🛛 🕁	Ξ	00	≡	
. [simplteleko	m] [simpltelekom] - SI	P Configuration		?		?	
General SIP Management Address	In this section you can on REALM, User and Passw	configure Realm attributes, Por ord.	t(s) e.g. 4713-4717,	2			sd
	Security						Test/
Red Sky E911 Manag	er i Trusted entity:						
Outgoing Call Superv Timer(ms):	50	Al Ports					Primar
Proxy Bypass Superv Timer (ms):	esic	O Port Range					
Treat endpoint as set	oun Port Range:						10.82.5
ana hu	Local Realm:	sip-trunk.telekom.de	Telefonie ei	nrichte			
econcy	Local User Name:		Telefonie-Benut	zernan	ne: 55112	9501	2345
Set the Realm, L	lser	1.11	Telefonie-Passw	ort:	Yni2Fi	84	
	Local Password:		Outbound-Proxy	g.,	reg.sip4	runk.b	elekom.de
Sel:1   Items/Page:	2 Confirm Local Password:		Registrar:		sip-trun	ktolek	om de
Truste	ed Commit Cocci Patishistia.						
0	Remote Realm:						
	Remote User Name:						
	Remote Password:						
	Confirm Remote Password:						
			(2000) (Car		5		

### The following figures show the SBC endpoint attributes used:

🖣 [simpltelekom] - [telekom] - [Main Office] - Edit End	point : SBC_BonnSP1
General SIP Attributes Aliases Routes	Accounting
Attributes available for this SIP endpoint	
Supports SIP UPDATE Method for Display Updates	
UPDATE for Confirmed Dialogs Supported	
Survivable Endpoint	
SIP Proxy	
Central SBC	
Route via Proxy	
Allow Proxy Bypass	
Public/Offnet Traffic	
Accept Billing Number	
Use Billing Number for Display Purposes	
Allow Sending of Insecure Referred-By Header	
Override IRM Codec Restriction	
Transfer HandOff	
Use Subscriber Home DN as Authentication Number	
Set NPI/TON to Unknown	
Include Restricted Numbers in From Header	
SIPQ Truncated MIME	
Enable Session Timer	$\checkmark$
Ignore Answer for Announcement	
Enable TLS RFC5626 Ping	
Enable TLS Dual Path Method	
Ignore Receipt of 181 Call is Being Forwarded	
Use extended max. count for loop prevention	
Do Not Audit Endpoint	
Use Proxy/SBC ANAT settings for calls to subscribers	
Support for Callback Path Reservation	
Send Progress to Stop Call Proceeding Supervision Timer	

Send P-Preferred-Identity rather than P-Asserted-Identity	
Send domain name in From and P-Preferred-Identity headers	
Send Redirect Number instead of calling number for redirected calls	
Do not send Diversion header	$\checkmark$
Do not Send Invite without SDP	
Send International Numbers in Global Number Format (GNF)	
Rerouting Direct Incoming Calls	
Rerouting Forwarded Calls	
Enhanced Subscriber Rerouting	
Automatic Collect Call Blocking supported	
Send Authentication Number in P-Asserted-Identity header	$\checkmark$
Send Authentication Number in Diversion Header	
Send Authentication Number in From Header	
Use SIP Endpoint Default Home DN as Authentication Number	
Limited PRACK Support	
Support Media Redirection	
Voice Mail Server	
Disable Long Call Audit	
Send/Receive Impact Level	
Do not send alphanumeric SIP URI	
Send alphanumeric SIP URI when available	
Support Peer Domains	
Reserve 6	
Allow endpoint to Unregister Stale Registrations	
Enable Media Termination Point (MTP) Flow	
Video call allowed	
Trusted Subscriber	
Enable Fast Connect	
Circuit Connector Appliance	
Add Route Header:	
Disable SRTP	
Include OSV SIP User-Agent header field	
Do Not Allow URNs in R-URI/TO Header for NG911 Calls	
Reserve 8	
Accept x-channel header	
Suppress SPE in SIPQ	
Reserve 9	

## **Avoiding Re-Invite during Session Refresh**

When in a long duration call Voice usually send regularly INVITEs to refresh the session. If the SDP oline version info is different between INVITE and the related 200 OK then Voice detects a change for the session so Voice needs to inform the peer by sending a re-INVITE. To avoid this Voice will send SIP UDPATE messages instead of re-INVITEs by setting the parameter Srx/Sip/UpdateMethodSessionTimingEnable to RtpTrue, as shown below:

UNIFY Comm	ion Manag	ment Platform Domain: system		User: Administrator@system	Settings   Help   Logout
Configuration Mainten	ance User M	nagement Fault Management Perfo	rmance Management	t Accounting	2 📕 12 📕 9 📕
OpenScape Voice Open	nScape Branch	OpenScape SBC RG8700 Unified C	Communications	CMP Device Manager	ment
simpltelekom	v (simpl	ekom] - RTP Management			?
	On this	ge you can manage RTP Parameters			
Admin istration	Courts 6		Search Show All	Υ.	
▼ General Settings	Search		Startin		
Accounting Management					View/Edit
Endpoint Templates	Califo Lither	Den 200 1 41-2171 (			
🧕 Routing Gateways RG2700	Seitu   Iter	ry/Sp/epable security politication 3rd party devices	RtoFalce	PhEalce	Vec
📶 CDR		Nobleuppergregarity_ingring generation_ne_beny_devices	Kithi diac	NUP abe	103 A
SOAP/XML Client		rx/Sip/WildcardedResponsibleDomains			Yes
▶ ♦ Operation Mode		rx/Sip/UpdateMethodSessionTimingEnable	RtpTrue	Update_Session_Timing_Enable	No
au cui		rx/Sip/Trunk_Context		**	Yes
📕 Database		rx/Sip/SuppressDTLS	RtpFalse	RtpFalse	Yes
dia 058 synchronization		rx/Sip/SipQMaxTransitCount	5	5	Yes
Report		ry Sin Kassion Timer	VEC	VEC	Vac
📿 RTP		rx/sp/session_nner	163	100	Tes
Packet Filter Rules		rx/Sip/ResponseCodeForCauseValue18	408	408	Yes
S EZIP		rx/Sip/ReleaseAckTimer	5000	5000	Yes
Media Servers		ry/En/Defer ann			Vec

## **Disabling to send Diversion SIP Header**

Because Telekom doesn't support the Diversion header in SIP messages, sending this header should be prevented in the SIP attributes of the SBC endpoint by enabling *Do not send Diversion header*:

Configuration Maintenance	User	Management Fault Ma	nagement Pe	🛈 윩 https://172.17.0.4:446/management/portal/Appli	cations/Operation/OSV/
OpenScape Voice OpenScap	e Branch	OpenScape SBC	RG8700 Unific	🖣 [simpltelekom] - [telekom] - [Main Office] - Edit En	dpoint : SBC_BonnSP1
🛓 simpltelekom 🖂	🖣 [sim	pitelekom] - [telekom] - [M	ain Office] - Endpo	General SIP Attributes Aliases Routes	Accounting
	🕕 Endpo	ints represent Network to Network I	interface connections.	Do not send Diversion header	
Business Group	Search	for			
Quick Tasks	Jearch			Do not Send Invite without SDP	
Business Group List				Sand International Numbers in Clobal Number Format (CNE)	
	Sel:0   It	ems/Page: 200 🗸   All:8		Send International Numbers in Global Number Format (GNF)	
Ceneral ⊻		Name 🔺	Numbering Plan I	Rerouting Direct Incoming Calls	
Profiles	□ ª <u>.</u>	CPS	NP_Bonn		
▶ Teams	D 8.	D EP Bonn	NP Bonn	Rerouting Forwarded Calls	
<ul> <li>Statistics</li> </ul>	D 8.	EP MediaSrv1	NP Bonn	Enhanced Subscriber Rerouting	
<ul> <li>Display Number Modification</li> </ul>		EP Xoressions	NP Bonn		_
Hanch Office List		Fallback	NP Common	Automatic Collect Call Blocking supported	
Hain Office		SRC RoppSD1	NP Room		
▼ Members		SBC_DONINGF1	NP Been	Send Authentication Number in P-Asserted-Identity header	$\checkmark$
III Subscribers		SBC_Bonn_OP	NP_bonn		
Endpoints	· ·	SDCINg1	NP_Bonn	Send Authentication Number in Diversion Header	
A Private Numbering Plan List				Send Authentication Number in From Header	
NP_Common (Default, Common					
<ul> <li>Translation</li> </ul>				Use SIP Endpoint Default Home DN as Authentication Number	
<ul> <li>Destinations and Routes</li> </ul>					
				Use Subscriber Home DN as Authentication Number	
				Set NPI/TON to Unknown	
				Include Restricted Numbers in From Header	

## Sending External Numbers with leading +

In Voice Assistant can be configured any phone number for a subscriber in the *External Caller ID* field to be displayed on a called phone using feature CLIP:

i	[simpltelekom] - [telekom] - [BO_Bonn] - E	dit Subscriber	: 492284220	0436101		
0	Subscriber Description					
Ge	neral Displays Routing Connection	n Security	Keyset	Groups	Features	Applications
Extens	sion					
0	This is the default extension number which is displayed for	or internal calls to or	from this subscr	iber in case the	e Display Number	Modification tables a
	Displayed Extension Number:	101				
Specia	l Identities					
0	The External Caller ID, if provisioned, is the subscriber's i	dentity which is use	d for all external	calls.		
	External Caller ID	49800123456789	)			

To enable Voice to send this number with a leading + via Central SBC to Telekom two preconditions must be met:

1. In the SBC endpoint must be enabled the attribute *Send International Numbers in Global Number Format (GNF)*:

[simpltelekom] - [telekom] - [Main Office] - Edit Endpoint : SBC_BonnSP1										
General SIP Attributes Aliases Routes	Accounting									
Do not send Diversion header	$\square$									
Do not Send Invite without SDP										
Send International Numbers in Global Number Format (GNF)										
Rerouting Direct Incoming Calls										

This cause Voice to send a number in international number format with a leading + sign.

2. To recognize an *External Caller ID* as a number in international format the country code used must be configured as a *Display Number Modification Definition*, as shown for the German country code below:

	<u>.</u> М	202	gomont Platf				Image: A start the start of	.0.4:446/management/portal/A
	1.101	ana	Berneneriaa	UTTT Utilian. Syste			🥑 [simpltelekom]- Di	splay Number Definition
Configuration Maintenanc	e	User	r Management 👘 I	Fault Management	Performance I	Mana	Context Settings	
OpenScape Voice OpenSc	ape B	Branch	OpenScape SB	C RG8700 Ur	ified Communic	ation	Selected numbering plan	L.S.
simpltelekom v	0	Define	oltelekom] - [telekon a display number in terms o	n] - Display Number Del	<b>initions</b> local office code to	strip de	Business Group:	telekom
Ouick Tasks	1	Search	for		Numbering Plan I	Name -	Numbering Plan:	ANT
Business Group List							Number Definition	
telekom 🔽	s	iel: <b>1  </b> R	ems/Page: 200 v   All:4	Numbering Plan	NPT	Cour	<ul> <li>To define a public number digits to skip in the Local and possibly a skip posit minimum and maximum position.</li> </ul>	er, enter country code, area code, local Office Code to create an extension. To ion that defines the number of digits to umber of digits in the fully qualified out
General		- 624	telelene	10 Peer	0.41	40		unider of argies in the rany quantes han
Profiles		1	telekom	NP_bonn	Public	49	Numbering plan indicator	Public 🐱
▶ Teams		M	telekom	NP_OSMO	Private			
Statistics		M	telekom	NP_Bonn	Private	_	Country/L2 Code:	49
Display Number Modification     Definitions			telekom	ANY	Public	49	Area/L1 Code:	
Modifications							Local Office/L0 Code:	
Conversions							Number of digits to skip:	0
Branch Office List							Min. Digits:	
Main Office								
Members							Max. Digits:	
🚜 Private Numbering Plan List							Local Toll	
NP_Common (Default, Common							A Local Toll table may de	fine the format of public network numb
Translation							· · · · · · · · · · · · · · · · · · ·	and the romat of public network numb
Destinations and Routes							Local Toll:	

## Sending Special Numbers without leading 0

Unless not already fixed in WebCDC in the Destinations D_xxx_SP for traffic type *Premium Rate* and D_xxx_SE for traffic type *Emergency* in the phone numbering plan in each route must be deleted the leading 0:

Configuration Maintenance		User	r Manage	eme	nt Faul	t Manager	nent Perfo	irmance Management	Accounting		
OpenScape Voice OpenSca	pe B	ranch	Of	en!	💕 (simplitele	kom] - [tele	kom] - [NP_Bonn]	- Edit Destination: D_Bonn_SE -	Modilla Firefox		
simpltelekom	14	[simp	oltelekon	n] -	🕑 🐔 htt	ps:// <b>172.1</b> 7	.0.4:446/manag	ement/portal/Applications/	Operation/OS	//BusinessGr	sup/Destination
	0	Destina	ations are u	sed	d (simplite	sleskom] -	telekom] - [NP,	_Bonn] - Edit Destination:	D_Bonn_SE		
Business Group		Search	for		0 Destinatio	ns are used f	or routing a call to an	i endpoint.			
Business Group List					General	Routes	Route Lists	Destination Codes			
telekom	- 54	0111	ins Pages	200	Routes						
<ul> <li>General</li> </ul>			Rame	4	Multiple ro	utes can be i	used for prioritizing th	he routes to the gateways.			
<ul> <li>Profiles</li> </ul>		-4	D_Born_	3							
▶ Teams		4	D_Born_	N							Add
<ul> <li>Statistics</li> </ul>		-	D_Born_	5	1.1.4 I TO	m	Time				(
Display Number Hodification			D_Born_	×	Sean Linear	Number 1500	Alliery.		Law 1		
Hain Office		-	D_Born_	5P		DL	Endpoint	Route Type	Delete	Insert	Nature of Ad
Members					U •	0	SBC_BonnSP1	SIP-Endpoint	1		Unknown
🔏 Private Numbering Plan List											
MP_Bonn											
<ul> <li>Translation</li> </ul>											
Destinations and Routes     Destinations											

## **Caller ID Suppression**

To allow subscribers to use the feature *Caller ID Suppression* the subscribers must be assigned the feature *Outgoing CID suppression and Delivery per Call* by, which is activated by using the prefix *51 by default. This assignment can be done on subscriber level or via Feature Profile.

	NA-	ina	gomont Pla	۲	[simpltel	ekom] - [teleko	om] - [BO_Bon	n] - Edit Subscribe	r: 49228422043	36100 - Mozilla			×	
Common	IVIC	ana	5ement Pla	🛈 🗞 https://172.17.0.4:446/management/portal/Applications/Operation/OSV. 🚥 💟 🏠										
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## **SIP Phones**

## **Packet Size**

Mobility Diagnostics Maintenance

It has to make sure that the Packet Size has to be set to 20 ms on the SIP phones:



## **OpenScape Xpressions**

## **Adding Extension Range**

The Xpressions Extension Range to be added manually:



## Known limitations, restrictions and things to know:

Release Note from CompanyFlex Testcenter:

 Das Leistungsmerkmal Call Routing von CompanyFlex wird nur unterstützt, wenn für jede Verbindung ein eigener OpenScape SBC installiert wird. Unify arbeitet derzeit an einer Weiterentwicklung des SBC damit mehrere unabhängige WAN Verbindung mit unterschiedlichen Gateways unterstützt werden. Erst dann kann ein OpenScape SBC mehrere Verbindungen für Call Routing über unterschiedliche Internetzugänge realisieren.

Bekannte Limitierungen:

- Bei Unterbrechung der VoIP Verbindung kann es bis zu 480 Sekunden dauern bis Telefonie wieder funktioniert. Der vorgeschaltete NAT Router muss einen hohen NAT Timeout für TCP haben (mehr als 300 Sekunden). Grund dafür ist das TCP Session Verhalten des OSSBC. Voraussichtlich stellt Unify hier noch einen Hotfix im Dezember bereit.
- Jegliche Telefonie mit der OSV / OSEE erfolgt über den "Gatekeeper" da bestimmte SIP Header und Funktionen nicht unterstützt werden. Unify muss hier die in der 1TR114 geforderte Unterstützung für Early-Media noch integrieren.
- T.38 Faxübertragungen mit einem Mediatrix 4102S waren nicht erfolgreich. Die Analyse ist hier noch offen.
- In bestimmten Callszenarien erfolgt innerhalb von 3 Sekunden kein non-100 Response von der OSV /OSEE. Die CompanyFlex Plattform bricht dann den Call ab, da z.B. ein Fehler vorliegen könnte. Derzeit muss als Workaround im CompanyFlex Portal der Timeoutwert von 3 Sekunden auf bis zu 10 Sekunden erhöht werden. Problem tritt in der Regel bei Rufweiterleitungen zu Mobilfunk auf.