

# **Configuration Guide**



Fastweb

with

# Unify OS4000 V10

Status: Released Release Date: 19.06.2024

© Copyright 2023, Mitel Networks Corporation. All Rights Reserved. The Mitel word and logo are trademarks of Mitel Networks Corporation. Any reference to third party trademarks is for reference only and Mitel makes no representation of ownership of these marks.

This document, or any part of it, may not be reproduced, copied, circulated and/or distributed nor quoted without prior written approval from Unify.





# History of Change

Version	Date	Description	Author(s)
1.0	June 19 <sup>th</sup> , 2024	Initial Creation	





# Fastweb SIP Trunk Data

The SIP trunk configuration data (IP addresses etc.) needed to setup the SIP trunk can be found in the Fastweb interconnection document provided by Fastweb.

As an example:

- Number ranges:
- SIP-Registrar FQDNs / IP addresses:
- CLIP no Screening:

+39 (023) 6592800-9 172.28.0.4 and 172.28.0.20 NO

# **OpenScape 4000 Configuration**

The OS4000 configuration is accomplished via both AMO (Administration and Maintenance Order) commands and web based GUI OS4000 management. The AMO commands are executed through ComWin application that interfaces to OS4000's database.

### AMO Configuration for Fastweb Native SIP Trunk

In this subsection the typical AMO commands to create the native SIP trunks between OS SBC and OS4000 vHG boards will be described. Furthermore, there will be presented the AMOs for dialing out from OS4000 subscribers to PSTN (in international and national format) via the OS SBC connection to Fastweb.

As an example:

### Add function block for vHG board:

ADD-BFDAT:FCTBLK=6,FUNCTION=HG3550,BRDBCHL=BCHL120,ATTR=SOCO;

CHANGE-BFDAT: CONFIG=CONT, FCTBLK=6, FUNCTION=HG3550, LINECNT=4, UNITS=3;

CHANGE-BFDAT:CONFIG=OK, FCTBLK=6, ANSW=YES;

### Add vHG board in the SWU:

ADD-BCSU:MTYPE=IPGW,LTG=1,LTU=99,SLOT=9,PARTNO="Q2330-X",FCTID=1,LWVAR="0",FCTBLK=6,BCHL3550=120,ALARMNO=0, IPMODE=IPV4,DHCPV4=N0,DHCPV6=N0;

ADD-BCSU:MTYPE=IPGW,LTG=1,LTU=99,SLOT=10,PARTNO="Q2330-X",FCTID=1,LWVAR="0",FCTBLK=6,BCHL3550=120,ALARMNO=0,IPMODE=IPV4,DHCPV4=NO,DHCPV6=NO;

# **Configure vHG board data** (device specific parameters e.g., board IP, default gateway, assign number of SIP channels etc.):

ADD-CGWB:LTU=99,SLOT=9,SMODE=NORMAL,IPADR=10.8.242.119,NETMASK=255.255.255.0;

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=9,TYPE=GLOBIF,PATTERN=213,VLAN=NO,VLANID=0,DEFRT=10.8.242.1,TRPRSIP=120, TRPRSIPQ=0,TRPRH323=0,TPRH323A=0,TLSP=4061,DNSIPADR=10.8.251.103,DNSIPAD2=0.0.0.0,USEWANIF=NO,WPUBIP=0.0.0.0, SIPTCPP=5060,SIPTLSP=5061;

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=9,TYPE=SERVIF,LOGINTRM="TRM",PASSW="HICOM";

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=9,TYPE=ASC,UDPPRTLO=29100,UDPPRTHI=30099,TOSPL=184,TOSSIGNL=104,T38FAX=YES, RFCFMOIP=N0,RFCDTMF=YES,REDRFCTN=YES,PRIO=PRIO1,CODEC=G711A,VAD=YES,RTP=20;

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=9,TYPE=ASC,PRIO=PRIO2,CODEC=G711U,VAD=YES,RTP=20;

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=9,TYPE=ASC,PRIO=PRIO3,CODEC=G722,VAD=NO,RTP=20;

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=9,TYPE=ASC,PRIO=PRIO4,CODEC=G729,VAD=NO,RTP=20;

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=9,TYPE=ASC,PRIO=PRIO5,CODEC=NONE,VAD=NO,RTP=20;

Fastweb Configuration Guide

Date: 2024-06-20 Partner: Fastweb





CHANGE-CGWB:MTYPE=CGW, LTU=99, SLOT=9, TYPE=ASC, PRIO=PRIO6, CODEC=NONE, VAD=YES, RTP=20; CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=9,TYPE=ASC,PRIO=PRIO7,CODEC=NONE,VAD=NO,RTP=20; CHANGE-CGWB:MTYPE=CGW, LTU=99, SLOT=9, TYPE=ASC, PRIO=PRIO8, CODEC=NONE, VAD=NO, RTP=20; CHANGE-CGWB:MTYPE=CGW, LTU=99, SLOT=9, TYPE=ASC, PRIO=PRIO9, CODEC=NONE, VAD=NO, RTP=20; CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=9,TYPE=MGNTDATA,MGNTIP=10.8.242.100,MGNTPN=8000,BUSIP=10.8.242.100, BUSPN=443, UIMODE=CLASSIC; CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=9,TYPE=DMCDATA,DMCCONN=20,SMP=YES,SMP4OSV=NO; CHANGE-CGWB: MTYPE-CGW, LTU=99, SLOT=9, TYPE-WBMDATA, LOGINWBM="HP4K-DEVEL", ROLE-ENGR: CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=9,TYPE=WBMDATA,LOGINWBM="HP4K-SU",ROLE=SU; CHANGE-CGWB:MTYPE=CGW, LTU=99, SLOT=9, TYPE=WBMDATA, LOGINWBM="HP4K-ADMIN", ROLE=ADMIN; CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=9,TYPE=WBMDATA,LOGINWBM="HP4K-READER",ROLE=READONLY; CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=9,TYPE=GWDATA,GWID1="PRIMARYRASMANAGERID"; CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=9,TYPE=SIPTRERH,GWAUTREQ=NO; CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=9,TYPE=SIPTRSSA,SIPREG=NO,REGIP1=0.0.0.0,PORTTCP1=5060,PORTTLS1=5061, REGTIME=300, REGIP2=0.0.0.0, PORTTCP2=5060, PORTTLS2=5061; CHANGE-CGWB:MTYPE=CGW, LTU=99, SLOT=9, TYPE=DLSDATA, DLSIPADR=10.6.25.5, DLSPORT=18443, DLSACPAS=YES; CHANGE-CGWB:MTYPE=CGW, LTU=99, SLOT=9, TYPE=JB, AVGDLYV=40, MAXDLYV=120, MINDLYV=20, PACKLOSS=4, AVGDLYD=60, MAXDLYD=200, JBMODE=2; CHANGE-CGWB:MTYPE=CGW, LTU=99, SLOT=9, TYPE=IPCONF, IPMODE=IPV4, DHCPV4=NO, DHCPV6=NO; CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=9,TYPE=MANLANIF,MIPADR=0.0.0.0,MNETMASK=0.0.0.0,MVLAN=NO,MVLANID=0, MDEFRT=0.0.0.0; ADD-CGWB:LTU=99,SLOT=10,SMODE=NORMAL,IPADR=10.8.242.120,NETMASK=255.255.255.0; CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=10,TYPE=GLOBIF,PATTERN=213,VLAN=NO,VLANID=0,DEFRT=10.8.242.1,TRPRSIP=120, TRPRSIPQ=0, TRPRH323=0, TPRH323a=0, TLSP=4061, DNSIPADR=10.8.251.103, DNSIPAD2=0.0.0.0, USEWANIF=NO, WPUBIP=0.0.0.0,

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=10,TYPE=SERVIF,LOGINTRM="TRM",PASSW="HICOM";

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=10,TYPE=ASC,UDPPRTLO=29100,UDPPRTHI=30099,TOSPL=184,TOSSIGNL=104,T38FAX=YES,RFCFMOIP=N0,RFCDTMF=YES,REDRFCTN=YES,PRIO=PRIO1,CODEC=G711A,VAD=YES,RTP=20;

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=10,TYPE=ASC,PRIO=PRIO2,CODEC=G711U,VAD=YES,RTP=20;

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=10,TYPE=ASC,PRIO=PRIO3,CODEC=G722,VAD=NO,RTP=20;

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=10,TYPE=ASC,PRIO=PRIO4,CODEC=G729,VAD=NO,RTP=20;

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=10,TYPE=ASC,PRIO=PRIO5,CODEC=OPUS,VAD=NO,RTP=20;

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=10,TYPE=ASC,PRIO=PRIO6,CODEC=NONE,VAD=YES,RTP=20;

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=10,TYPE=ASC,PRIO=PRIO7,CODEC=NONE,VAD=NO,RTP=20;

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=10,TYPE=ASC,PRIO=PRIO8,CODEC=NONE,VAD=NO,RTP=20;

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=10,TYPE=ASC,PRIO=PRIO9,CODEC=NONE,VAD=NO,RTP=20;

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=10,TYPE=MGNTDATA,MGNTIP=10.8.242.100,MGNTPN=8000,BUSIP=10.8.242.100,BUSPN=443,UIMODE=CLASSIC;

CHANGE-CGWB:MTYPE=CGW, LTU=99, SLOT=10, TYPE=DMCDATA, DMCCONN=0, SMP=NO, SMP4OSV=NO;

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=10,TYPE=WBMDATA,LOGINWBM="HP4K-DEVEL",ROLE=ENGR;

STPTCPP=5060.STPTLSP=5061:





CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=10,TYPE=WBMDATA,LOGINWBM="HP4K-SU",ROLE=SU;

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=10,TYPE=WBMDATA,LOGINWBM="HP4K-ADMIN",ROLE=ADMIN;

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=10,TYPE=WBMDATA,LOGINWBM="HP4K-READER",ROLE=READONLY;

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=10,TYPE=GWDATA,GWID1="PRIMARYRASMANAGERID";

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=10,TYPE=SIPTRERH,GWAUTREQ=NO;

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=10,TYPE=SIPTRSSA,SIPREG=NO,REGIP1=0.0.0.0,PORTTCP1=5060,PORTTLS1=5061, REGTIME=300,REGIP2=0.0.0.0,PORTTCP2=5060,PORTTLS2=5061;

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=10,TYPE=DLSDATA,DLSIPADR=10.6.25.5,DLSPORT=18443,DLSACPAS=YES;

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=10,TYPE=JB,AVGDLYV=40,MAXDLYV=120,MINDLYV=20,PACKLOSS=4,AVGDLYD=60, MAXDLYD=200,JBMODE=2;

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=10,TYPE=IPCONF,IPMODE=IPV4,DHCPV4=NO,DHCPV6=NO;

CHANGE-CGWB:MTYPE=CGW,LTU=99,SLOT=10,TYPE=MANLANIF,MIPADR=0.0.0.0,MNETMASK=0.0.0.0,MVLAN=NO,MVLANID=0,MDEFRT=0.0.0.0;

#### Add Class Of Parameter (used to specify the line parameters for signaling control of the device handler):

ADD-COP:COPNO=1, PAR=ANS&L3AR&IMEX, TRK=TA, TOLL=TA;

CHANGE-COP:COPNO=1, COPTYPE=COPADD, DEV=INDEP, INFO="IP TR";

### Add Class Of Trunk (used to specify the switching technology parameters):

ADD-COT:COTNO=1, PAR=RCL&IIDL&IVAC&INAU&ANS&CHRT&AEOD&CEBC&COTN&IEVT&IDIS&BSHT&BLOC&PROV&LWNC&INDG&NLCR&TSCS &ICZL&ABNA&ABPD&WAAN&DFNN&IONS&NLRD&NOFT&AMFC&NPIS&NTON;

#### Add Class Of Service (used to specify the authorizations and features assigned to stations and trunks):

ADD-COSSU:NEWCOS=1, INFO="";

CHANGE-COSSU:TYPE=COS, COS=1, AVCE=TA&TNOTCR&CDRINT&COSXCD&MB&DATA&CFNR&VCE;

CHANGE-COSSU:TYPE=COS,COS=1,AVCE=RSVLN&DICT&SPKR&FWDNWK&TTT&MSN&CFB&MULTRA;

CHANGE-COSSU:TYPE=COS,COS=1,AVCE=FWDEXT&CCBS&CW&GRPCAL;

CHANGE-COSSU:TYPE=COS,COS=1,AFAX=TA&TNOTCR;

CHANGE-COSSU:TYPE=COS,COS=1,AFAX=TA&TNOTCR;

CHANGE-COSSU:TYPE=COS,COS=1,ADTE=TA&TNOTCR&CDRINT&BASIC&MSN&MULTRA;

#### Add Bundle (used to specify trunk group number identifier):

ADD-BUEND:TGRP=119,NAME="FASTWEB1 SSP",NO=120,TRACENO=0,ACDTHRH=\*,PRIONO=2,TDDRFLAG=OFF,GDTRRULE=0,ACDPMGRP=0,CHARCON=NEUTRAL;

ADD-BUEND:TGRP=120,NAME="FASTWEB2 SSP",NO=120,TRACENO=0,ACDTHRH=\*,PRIONO=2,TDDRFLAG=OFF,GDTRRULE=0, ACDPMGRP=0,CHARCON=NEUTRAL;

### Add digital trunk circuits in the SWU (used for the external gateway for IP trunking configuration):

ADD-TDCSU:OPT=NEW, PEN=1-99-009-0, COTNO=1, COPNO=1, DPLN=0, ITR=0, COS=1, LCOSV=1, LCOSD=1, CCT="FASTWEB1 SSP", DESTNO=0, PROTVAR=ECMAV2, SEGMENT=8, DEDSVC=NONE, TRTBL=GDTR, SIDANI=N, ATNTYP=CO, CBMATTR=NONE, TCHARG=N, SUPPRESS=0, ISDNIP=00, ISDNNP=0, TRACOUNT=30, SATCOUNT=MANY, ALARMNO=0, FIDX=1, CARRIER=1, ZONE=EMPTY, COTX=1, FWDX=5, CHIMAP=N, UUSCCX=16, UUSCCY=8, FNIDX=0, NWMUXTIM=10, SRCGRP=5, CLASSMRK=EC&G711&G729AOPT, TCCID="", TGRP=119, SRCHMODE=DSC, INS= Y, SECLEVEL=TRADITIO, HMUSIC=0, CALLTIM=60, WARNTIM=60, DEV=HG3550CO, BCHAN=1&&30, BCNEG=N, BCGR=1, LWPP=0, LWLT=0, LWPS=0, LWR1=0, LWR2=0, DMCALLWD=N, GWPROT=NONE;

ADD-TDCSU:OPT=NEW, PEN=1-99-010-0, COTNO=1, COPNO=1, DPLN=0, ITR=0, COS=1, LCOSV=1, LCOSD=1, CCT="FASTWEB2 SSP", DESTNO=0, PROTVAR=ECMAV2, SEGMENT=8, DEDSVC=NONE, TRTBL=GDTR, SIDANI=N, ATNTYP=CO, CBMATTR=NONE, TCHARG=N, SUPPRESS=0, ISDNIP=00, ISDNIP=0, TRACOUNT=30, SATCOUNT=MANY, ALARMNO=0, FIDX=1, CARRIER=1, ZONE=EMPTY, COTX=1, FWDX=5, CHIMAP=N,





UUSCCX=16,UUSCCY=8,FNIDX=0,NWMUXTIM=10,SRCGRP=5,CLASSMRK=EC&G711&G729AOPT,TCCID="",TGRP=120,SRCHMODE=DSC,INS= Y,SECLEVEL=TRADITIO,HMUSIC=0,CALLTIM=60,WARNTIM=60,DEV=HG3550CO,BCHAN=1&&30,BCNEG=N,BCGR=1,LWPP=0,LWLT=0, LWPS=0,LWR1=0,LWR2=0,DMCALLWD=N,GWPROT=NONE;

### Add LCR outdial rule (used to specify outdial rule number identifier):

ADD-LODR:ODR=22, CMD=NPI, NPI=ISDN, TON=INTERNAT;

ADD-LODR:ODR=22,CMD=ECHO,FIELD=2;

ADD-LODR:ODR=22,CMD=END;

ADD-LODR:ODR=22, INFO="FASTWEB SSP1";

ADD-LODR:ODR=23, CMD=NPI, NPI=ISDN, TON=INTERNAT;

ADD-LODR:ODR=23, CMD=OUTPULSE, DGTS=39;

ADD-LODR:ODR=23, CMD=ECHO, FIELD=3;

ADD-LODR:ODR=23,CMD=ECHO,FIELD=4;

ADD-LODR:ODR=23,CMD=END;

ADD-LODR:ODR=22, INFO="FASTWEB SSP2";

### Add SIP trunk destination (used for allocating SIP trunk access codes):

ADD-RICHT:MODE=LRTENEW, LRTE=22, LSVC=ALL, NAME="FASTWEB SSP1", TGRP=119&120, DNNO=1-1-122, ROUTOPT=NO, DTMFCNV=FIX, DTMFTEXT="", DTMFPULS=PP80, ROUTATT=NO, EMCYRTT=NO, INFO="", PDNNO=0, CHARCON=NEUTRAL, CONFTONE=NO, RERINGRP=NO, NOPRCFWD=NO, NITO=NO, CLNAMEDL=NO, FWDSWTCH=NO, LINFEMER=NO, NOINTRTE=NO;

CHANGE-RICHT: MODE=LRTE, LRTE=22, BUGS=LIN;

ADD-RICHT:MODE=LRTENEW, LRTE=23, LSVC=ALL, NAME="FASTWEB SSP2", TGRP=119&120, DNNO=1-1-122, ROUTOPT=NO, DTMFCNV=FIX, DTMFTEXT="", DTMFPULS=PP80, ROUTATT=NO, EMCYRTT=NO, INFO="", PDNNO=0, CHARCON=NEUTRAL, CONFTONE=NO, RERINGRP=NO, NOPRCFWD=NO, NITO=NO, CLNAMEDL=NO, FWDSWTCH=NO, LINFEMER=NO, NOINTRTE=NO;

CHANGE-RICHT: MODE=LRTE, LRTE=23, BUGS=LIN;

#### For MWI:

ADD-RICHT: MODE=PM, IDX=1, SAN=2809, NAME="XPR", STYPE=XPRESION;

### Add digits to dial plan (refers to the digit analysis results of a dialed digit sequence or dialed code):

ADD-WABE:CD=9, DAR=CO, CHECK=N;

### Add Administration of LCR Routes (used to specify the accumulation of the trunk groups):

ADD-LDAT:LROUTE=22,LSVC=ALL,LVAL=1,TGRP=119,ODR=22,LAUTH=1,CARRIER=1,ZONE=EMPTY,LATTR=PUBNUM,VCCYC=4; ADD-LDAT:LROUTE=22,LSVC=ALL,LVAL=1,TGRP=120,ODR=22,LAUTH=1,CARRIER=1,ZONE=EMPTY,LATTR=PUBNUM,VCCYC=4;

ADD-LDAT:LROUTE=23,LSVC=ALL,LVAL=1,TGRP=119,ODR=23,LAUTH=1,CARRIER=1,ZONE=EMPTY,LATTR=PUBNUM,VCCYC=4;

ADD-LDAT:LROUTE=22,LSVC=ALL,LVAL=1,TGRP=120,ODR=23,LAUTH=1,CARRIER=1,ZONE=EMPTY,LATTR=PUBNUM,VCCYC=4;

### Add Administration of the LCR Dialing Plan (used to specify the LCR digit patterns - LDP):

ADD-LDPLN:LCRCONF=LCRPATT,DIPLNUM=0,LDP="9"-"Z",DPLN=0&1&2&3&4&5&6&7&8&9&10&11&12&13&14&15,LROUTE=22,LAUTH=1, PINDP=N;

ADD-LDPLN:LCRCONF=LCRPATT,DIPLNUM=0,LDP="9"-"W"-"0"-"Z",DPLN=0&1&2&3&4&5&6&7&8&9&10&11&12&13&14&15,LROUTE=23,LAUTH=1,PINDP=N;





# WBM Configuration for Fastweb Native SIP Trunk – Gateway Properties

Navigate to HG WBM >> Configuration >> Basic Settings >> Gateway.

vHG 3500 Configuration	Maintenance Logoff
ssic Settings	Gateway Properties
<ul> <li>Timezone Settings</li> </ul>	General
😑 🍱 Statistics	Board Name: SoftGate-SIP
🖲 🕌 Call Statistics	Physical Node Number (4K): 1-30-300
	PBC Number in Shelf: 9
	Gateway Location: SG99
	Contact Address:
	About:
	System Country Code: 49 (Germany)
	Global Gateway of Type G.711: A-law
	Supported IP Version: IPV4 only
	Gateway IP Address: 10.8.242.119
	Gateway Subnet Mask: 255.255.255.0
	Public WAN IP Address:
	Additional Features
	Conference Improvement: 🗹
	Support Dispatch Application: 🗌 🛛 only for Native SIP Trunking GW
	Allow SIP Register for Trunking: $\square$ only for Native SIP Trunking with profile
	Enable SMP: 🔯 🛛 value from AMO CGWB
	Maximum number of DMC connections: 120
	Use Early Media for Disconnect to SIP: 🗌 🛛 only for Native SIP Trunking GW
	Enable SMP for OSV SIPQ trunk: Value from AMO CGWB
	Signaling Protocol for IP Networking: SIP
	SIP Protocol Variant for IP Networking: Native SIP
	DisplayName Character Code Set:
	Apply Undo

Make sure that:

- Signaling Protocol for IP Networking:
- SIP Protocol Variant for IP Networking:

SIP Native SIP

# WBM Configuration for Fastweb Native SIP Trunk – Gateway Properties

The vHG "SIP Parameters" used for the certification activities are shown under HG WBM >> Configuration >> Voice Gateway >> SIP Parameters.

Fastweb	<b>Configuration Guide</b>
Date:	2024-06-20
Partner:	Fastweb





OpenScap	e 4000	Maintenance Loqoff
Basic Settings Security Network & Routing Voice Gateway	Voice Gateway     H.323 Parameters     SIP Parameters     Codec Parameters     IP Networking Mode     SIP Trunk Profile Parameter      SIP SIP Trunk Profile Parameter	SIP Parameters SIP User Agent "SIP User Agent" settings ignored due to usage of SIP trunk profiles Use SIP Registrar: No SIP Registrar IP Address: 0.0.0.0 SIP Registrar TLS Port Number: 5061
	Hunt Group     Destination Codec Parameters     OARs for MLPP     CICA     CICA     ISDN Classmarks     Payload     Payload     Payload     FaxtModem Tone Handling	SIP Registrar TCP/UDP Port Number:       5060         Alternative SIP Registrar IP Address:       0.0.0.0         Alternative SIP Registrar TLS Port Number:       5061         Alternative SIP Registrar TCP/UDP Port Number:       5060         Period of Registration (sec):       300         SIP Server (Registrar / Redirect)       SIP Server TCP/UDP Port Number:         SIP Server TCP/UDP Port Number:       5060         SIP Server TCP/UDP Port Number:       5060         SIP Server TLS Port Number:       5061         Default Registration Period (sec):       600         Range used for Randomized Registration (%):       25       0 means: don't use Randomization         SIP General       SIP General       SIP Server
		Deactivate Alert-Info usage:
		SIP via UDP: 🗹 SIP via TLS: Yes
OpenScap	e 4000 Configuration	Maintenance Logoff
Basic Settings Security Network & Routing Voice Gateway	<ul> <li>Woice Gateway</li> <li>H.323 Parameters</li> <li>SIP Parameters</li> <li>SIP Parameters</li> <li>Codec Parameters</li> <li>IP Networking Mode</li> <li>SIP Trunk Profile Parameter</li> <li>SIP Trunk Profile</li> <li>SIP Trunk Profile</li> <li>SIP Trunk Profile</li> <li>SIP Trunk Profile</li> <li>DARs for MLPP</li> <li>Clients</li> <li>Clich</li> <li>Clich S</li> <li>Clich S</li> <li>Clich S</li> <li>Payload</li> <li>Payload</li> <li>Payload Parameters</li> <li>FaxModem Tone Handling</li> </ul>	SIP Session Timer   RFC 4028 Support:  Session Expires (sec):  90  Minimal SE (sec):  90  DNS-SRV Records / SIP Flooding Defense Blocking time for unreachable destination/flood defense (sec):  80  Trunking Parameters  SIP OPTIONS ping interval (subscriber; sec, 0  Guedeactivate):  SIP OPTIONS retry attempts (Subscriber):  2
		SIP loop call         SIP loop call From number:         SIP loop call To number:         SIP loop call frequency (sec, 0=deactivate):         0         SIP loop call Out of service threshold:         1         Call Supervision         MakeCallReq Timeout (sec):         3         SIP Connect Timeout (sec):         300

# WBM Configuration for Fastweb Native SIP Trunk - Codec Parameters

Go to **HG WBM** >> **Configuration** >> **Voice Gateway** >> **Codec Parameters** to view the vHG **"Codec Parameters"** utilized for the current testing environment. As an example:





VHG 3500	e 4000	manco Logoff					
	B Wains Catavar	state Logon					
	Ilian Voice Gateway     H.323 Parameters		Codec Pa	arameters			
	SIP Parameters						
	Codec Parameters	Codec	Priority	Voice Activity Detection	Frame Size		
	IP Networking Mode     SIP Trunk Profile Parameter	G.711 A-law	Priority 1 🗸	VAD:	20 v msec		
	🖲 🎴 SIP Trunk Profiles	G.711 u-law	not used ¥	Van:	20 × msec		
	🖷 🎴 Hunt Group	6.729	Prinrity 2 ¥	VáD:	20 × msec		
	🖲 🎴 Destination Codec Parameters	G 729A	not used w	VAD:	20 × msec		
	DARS TOT MEPP      Directe	G.729A	not used at	VAD.	28 * 11560		
	CICA	G.729B	not used 🗸	VAD:	20 V msec		
	● ISDN Classmarks	G.729AB	not used 🗸	VAD:	20 ♥ msec		
	Payload     Payload	G.722	not used 🗸	VAD:	20 ♥ msec		
	Fax/Modern Tone Handling	Opus	not used 🗸	VAD:	20 V msec		
	-	Opus-Parameter					
		Use Inband Forward E	Error Correction (FEC):				
			Use Constant Bitrate:				
			Low Delay:				
		P	ayload Type for Opus:	124			
		Max. Playba	ack Sample Rate (Hz):	16000			
			Complexity:	1			
		T.38 Fax					
			T.38 Fax:				
		Max. UDP Datagram Size	e for T.38 Fax (bytes):	375			
		Error Correction Us	sed for T.38 Fax (UDP)	t38UDPRedundancy V			
		Time Range for Immediate S	witch to T.38 Fax (s):	0 0 means: No	Immediate Switching		
OpenScape 4000							
vHG 3500	DE 4000 Configuration Maint	enance Logoff					
vHG 3500	Configuration Maint	enance Logoff					
vHG 3500 Basic Settings Security	Configuration Maint	enance Logoff	Low Delay:				
vHG 3500 Basic Settings Security Network & Routing	Configuration Maint Configuration Maint H.323 Parameters SIP Parameters Codec Parameters	anance Logoff F	Low Delay: Payload Type for Opus:	124			
VHG 3500 Basic Settings Security Network & Routing Voice Gateway	Configuration Maint Configuration Maint H.323 Parameters SiP Parameters Codec Parameters I P Networking Mode	anance Logoff F Max. Playb	Low Delay: Payload Type for Opus: ack Sample Rate (Hz):	- 124 16000			
vHG 3500 Basic Settings Security Network & Routing Voice Gateway	Configuration Maint Usice Gateway Usice Gate	enance Logoff F Max. Playb	Low Delay: Payload Type for Opus: ack Sample Rate (Hz): Complexity:	- 124 16000 1	-		
VHG 3500 Basic Settings Security Network & Routing Voice Gateway	Configuration Maint Usice Gateway H.323 Parameters Giber Parameters Godec Parameters FiP Networking Mode Giber Trunk Profile Parameter Fig. SIP Trunk Profiles FiP Hund Profil	enance Logoff F Max. Playb T.38 Fax	Low Delay: Payload Type for Opus: ack Sample Rate (H2): Complexity:	- 124 16000 1			
VHG 3500 Basic Settings Security Network & Routing Voice Gateway	Configuration Maint Usice Gateway H.323 Parameters Giber Parameters Godec Parameters Finance Parameters Finance Parameter Finance Parameter Finance Parameter Finance Parameter Finance Parameter Finance Parameters Finance Parameter Finance	enance Logoff F Max. Playb T.38 Fax	Low Delay: Payload Type for Opus: ack Sample Rate (H2): Complexity: T.38 Fax:	- 124 16000 1			
VHG 3500 Basic Settings Security Network & Routing Voice Gateway	Configuration Maint Voice Gateway H.323 Parameters Giber Parameters Godec Parameters Giber Protectors Giber Trunk Profile Parameter Hund Profile Formater Hund Group Gibertandon Codec Parameters OARs for MLPP	enance Logoff F Max. Playb T.38 Fax Max. UDP Datagram Size	Low Delay: Payload Type for Opus: ack Sample Rate (H2): Complexity: T.38 Fax: e for T.38 Fax: (bytes);	124 16000 1 375			
VHG 3500 Basic Settings Security Network & Routing Voice Gateway	Configuration Maint Use Cateway H.323 Parameters Gadec Parameters Codec Parameters Gadec Parameters Final Provide Parameter Final Provide Parameter Final Provide Parameter Final Provide Parameter Final Para	enance Logoff F Max. Playb T.38 Fax Max. UDP Datagram Size Error Correction U:	Low Delay: Payload Type for Opus: ack Sample Rate (H2): Complexity: T.38 Fax: e for T.38 Fax (bytes): sed for T.38 Fax (DDP)	124 16000 1 375 130DPRedundancy v	·		
VHG 3500 Basic Settings Security Network & Routing Voice Gateway	Configuration Maint Using Configuration Maint Using Configuration Maint Using Codec Parameters Codec Parameters Codec Parameters Codec Parameters Codec Parameters Codec Parameters DARs for MLPP Codec Clears Clearts CicoA CicoA CicoN C	enance Logoff F Max. Playb T.38 Fax Max. UDP Datagram Size Error Correction U: Time Range for Immediate S	Low Delay: Payload Type for Opus: ack Sample Rate (H2): Complexity: T.38 Fax: e for T.38 Fax (bytes): sed for T.38 Fax (UDP) Gwitch to T.38 Fax (s):	□ 124 16000 1 375 130DPRedundancy ▼ 0 0 means: No	) Immediate Switching		
VHG 3500 Basic Settings Security Network & Routing Voice Gateway	Configuration Maint Voice Gateway H.323 Parameters Godec Parameters Godec Parameters Godec Parameters Gir Trunk Profile Parameter Gir SiP Trunk Profiles Gir Trunk Profiles Gir Trunk Profiles Gir Destination Codec Parameters DARs for MLPP Gir Clients Cicka Gir SiDN Classmarks Gir Payload	enance Logoff F Max. Playb T.38 Fax Max. UDP Datagram Size Error Correction U: Time Range for Immediate S Misc.	Low Delay: Payload Type for Opus: ack Sample Rate (H2): Complexity: T.38 Fax: e for T.38 Fax (bytes): sed for T.38 Fax (UDP) Gwitch to T.38 Fax (s):	□ 124 16000 1 375 130UDPRedundancy ▼ 0 0 means: No	) Immediate Switching		
VHG 3500 Basic Settings Security Network & Routing Voice Gateway	Configuration Maint Voice Gateway H.323 Parameters Godec Parameters Codec Parameters Codec Parameters SIP Trunk Profile Parameter SIP Trunk Profiles Destination Codec Parameters DARs for MLPP Clients Clients ClicA SIDN Classmarks Payload Parameters Payload Parameters	enance Logoff F Max. Playb T.38 Fax Max. UDP Datagram Size Error Correction U: Time Range for Immediate S Misc. ClearMod	Low Delay: Payload Type for Opus: ack Sample Rate (H2): Complexity: T.38 Fax: e for T.38 Fax (bytes): sed for T.38 Fax (UDP) Switch to T.38 Fax (s): le (ClearChannelData):	□ 124 16000 1 375 138UDPRedundancy ♥ 0 0 0 0 0 0 0 0 Fra	o Immediate Switching me Size: 20 ▼ msec		
VHG 3500 Basic Settings Security Network & Routing Voice Gateway	Configuration Maint Use Gateway H.323 Parameters Godec P	PRANCE Logoff F Max. Playb T.38 Fax Max. UDP Datagram Size Error Correction U: Time Range for Immediate S Misc. ClearMod FEC2833	Low Delay: Payload Type for Opus: ack Sample Rate (H2): Complexity: T.38 Fax: e for T.38 Fax (bytes): sed for T.38 Fax (UDP) Switch to T.38 Fax (s): e (ClearChannelData):	□ 124 16000 1 375 138UDPRedundancy ▼ 0 0 0 0 means: No	• Immediate Switching me Size: 20 ▼ msec		
VHG 3500 Basic Settings Security Network & Routing Voice Gateway	Configuration Maint     Voice Gateway     H.323 Parameters     Gadec Parameters     Godec Parameters     SIP Trunk Profiles     SIP Trunk Profiles     Hunt Group     Destination Codec Parameters     OARs for MLPP     Clients     CiccA     SISD N Classmarks     Payload     Payload     Payload     Payload     Payload     Payload	PRANCE Logoff F Max. Playb T.38 Fax Max. UDP Datagram Size Error Correction U: Time Range for Immediate S Misc. ClearMod FFC2833 Transmission of Fax/Moder	Low Delay: Payload Type for Opus: ack Sample Rate (H2): Complexity: T.38 Fax: e for T.38 Fax (bytes): sed for T.38 Fax (bytes): switch to T.38 Fax (bytes): witch to T.38 Fax (s): le (ClearChannelData): n Tones according to	□ 124 16000 1 1 375 139UDPRedundancy ▼ 0 0 0 means: No ✓ Fra	o Immediate Switching me Size: 20 v msec		
VHG 3500 Basic Settings Security Network & Routing Voice Gateway	Configuration Maint     Voice Gateway     H.323 Parameters     Gadec Parameters     Gadec Parameters     Pr Networking Mode     SIP Trunk Profiles     Hunt Group     Destination Codec Parameters     OARs for MLPP     Clients     CicA     ISDN Classmarks     Payload     Payload     Payload     Payload     FaxModem Tone Handling	PRANCE Logoff F Max. Playb T.38 Fax Max. UDP Datagram Size Error Correction U: Time Range for Immediate S Misc. ClearMod RFC2833 Transmission of Fax/Moder	Low Delay: Payload Type for Opus: ack Sample Rate (H2): Complexity: T.38 Fax: e for T.38 Fax (bytes): sed for T.38 Fax (bytes): switch to T.38 Fax (UDP) Switch to T.38 Fax (s): le (ClearChannelData): n Tones according to RFC2833:	□ 124 16000 1 1 376 130UPRedundancy ▼ 0 0 0 means: No	o Immediate Switching me Size: 20 ▼ msec		
VHG 3500 Basic Settings Security Network & Routing Voice Gateway	Yolce Gateway     H.323 Parameters     SiP Parameters     Godec Parameters     SiP Trunk Profiles     SiP Trunk Profiles     Hunt Group     Destination Codec Parameters     OARs for MLPP     Clients     Cicrta     SiDN Classmarks     Payload     Pawload     Pawload     Pawload     Pawload	Prance Logoff F Max. Playb T.38 Fax Max. UDP Datagram Size Error Correction U: Time Range for Immediate S Misc. ClearMod PFC2833 Transmission of Fax/Moder Transmission of DTMF Tones ac	Low Delay: Payload Type for Opus: ack Sample Rate (H2): Complexity: T.38 Fax: e for T.38 Fax (bytes): sed for T.38 Fax (UDP) switch to T.38 Fax (UDP) switch to T.38 Fax (UDP) le (ClearChannelData): le (ClearChannelData): n Tones according to RFC2833: ccording to RFC28333:	□ 124 16000 1 375 138UDPRedundancy ♥ 0 0 0 0 Fra	) Immediate Switching me Size: 20 ✓ msec		
vHG 3500 Basic Settings Security Network & Routing Voice Gateway	Voice Gateway     H.323 Parameters     SiP Parameters     Godec Parameters     SiP Trunk Profiles     SiP Trunk Profiles     Hunt Group     Destination Codec Parameters     OARs for MLPP     Clients     CicicA     iSDN Classmarks     Payload	Prance Logoff F Max. Playb T.38 Fax Max. UDP Datagram Size Error Correction U: Time Range for Immediate S Misc. ClearMod PFC2833 Transmission of Fax/Moder Transmission of DTMF Tones ac Payload Ty	Low Delay: Payload Type for Opus: ack Sample Rate (H2): Complexity: T.38 Fax: e for T.38 Fax (bytes): sed for T.38 Fax (UDP) Switch to T.38 Fax (UDP) Switch to T.38 Fax (UDP) le (ClearChannelData): n Tones according to RFC2833: cording to RFC2833: pe for ClearChannel:	□ 124 16000 1 375 138UDPRedundancy ♥ 0 0 0 0 Fra 96 1	) Immediate Switching me Size: 20 ✓ msec		
VHG 3500 Basic Settings Security Network & Routing Voice Gateway	Voice Gateway     H.323 Parameters     SiP Parameters     Godec Parameters     SiP Trunk Profiles     Hunt Group     Destination Codec Parameters     OARs for MLPP     Clients     Cicch     SISD N Classmarks     Payload     Payload     Payload     Payload     Payload     Payload     Payload     Payload	PRANCE Logoff F Max. Playb T.38 Fax Max. UDP Datagram Size Error Correction U: Time Range for Immediate S Misc. ClearMod PFC2833 Transmission of Fax/Moder Transmission of DTMF Tones ac Payload Ty Payloa	Low Delay: Payload Type for Opus: ack Sample Rate (H2): Complexity: T.38 Fax: e for T.38 Fax (bytes): sed for T.38 Fax (bytes): switch to T.38 Fax (UDP) Switch to T.38 Fax (s): le (ClearChannelData): n Tones according to RFC2833: cording to RFC2833: pe for ClearChannel: id Type for RFC2833:	□ 124 16000 1 375 138UDPRedundancy ▼ 0 0 0 0 Fra 96 98	o Immediate Switching me Size: 20 ✔ msec		
VHG 3500 Basic Settings Security Network & Routing Voice Gateway	Voice Gateway     H.323 Parameters     Godec Parameters     Godec Parameters     SiP Prunk Profiles     SiP Trunk Profiles     Hunt Group     Destination Codec Parameters     OARs for MLPP     Clients     Cicrts     Cicrts     CicA     iSDN Classmarks     Payload     Payload     Payload     Payload     FaxtModern Tone Handling	PRANCE Logoff F Max. Playb T.38 Fax Max. UDP Datagram Size Error Correction U: Time Range for Immediate S Misc. ClearMod PFC2833 Transmission of Fax/Moder Transmission of DTMF Tones ac Payload Ty Payloa Payloa	Low Delay: Payload Type for Opus: ack Sample Rate (H2): Complexity: T.38 Fax: e for T.38 Fax (bytes): sed for T.38 Fax (UDP) Switch to T.38 Fax (UDP) Switch to T.38 Fax (S): le (ClearChannelData): n Tones according to RFC2833: cording to RFC2833: pe for ClearChannel: d Type for RFC2198:	□ 124 18000 1 1 375 138UDPRedundancy ▼ 0 0 0 means: No 96 98 99 (= 'Payload Ty	o Immediate Switching me Size: 20 ✓ msec		
VHG 3500 Basic Settings Security Network & Routing Voice Gateway	Voice Gateway     H.323 Parameters     SiP Parameters     Godec Parameters     SiP Trunk Profiles     SiP Trunk Profiles     Hunt Group     Destination Codec Parameters     OARs for MLPP     Clients     CIcA     ISDN Classmarks     Payload     Payload     Payload     Payload Parameters     FaxModerm Tone Handling	enance Logoff F Max. Playb T.38 Fax Max. UDP Datagram Size Error Correction U: Time Range for Immediate S Misc. ClearMod RFC2833 Transmission of Fax/Modern Transmission of DTMF Tones ac Payload Ty Payloa Payloa Redundant Transmission of RFC2	Low Delay: Payload Type for Opus: ack Sample Rate (H2): Complexity: T.38 Fax: e for T.38 Fax (bytes): sed for T.38 Fax (UDP) Switch to T.38 Fax (UDP) Switch to T.38 Fax (s): le (ClearChannelData): n Tones according to RFC2833: cording to RFC2833: pe for ClearChannel: d Type for RFC2198: le 33 Tones according to DFC2198:	124         16000         1         375         138UDPRedundancy ▼         0       0 means: No         ✓       Fra         96         98         99       (= 'Payload Ty	o Immediate Switching me Size: 20 ♥ msec		
VHG 3500 Basic Settings Security Network & Routing Voice Gateway	Voice Gateway     H.323 Parameters     SiP Parameters     Godec Parameters     SiP Parameters     SiP Trunk Profiles     Hunt Group     Destination Codec Parameters     OARs for MLPP     Clients     CIcA     ISDN Classmarks     Payload     Payload     Payload     Payload     Payload     Payload	enance Logoff F Max. Playb T.38 Fax Max. UDP Datagram Size Error Correction U: Time Range for Immediate S Misc. ClearMod RFC2833 Transmission of Fax/Moden Transmission of DTMF Tones ac Payload Ty Payloa Redundant Transmission of RFC2 Davinad Type for	Low Delay: Payload Type for Opus: ack Sample Rate (H2): Complexity: T.38 Fax: e for T.38 Fax (bytes): sed for T.38 Fax (UDP) Switch to T.38 Fax (UDP) Switch to T.38 Fax (UDP) action (Street Street Street Street (Street Street	124     16000     1     1     375     138UDPRedundancy ▼     0     0 means: No     0     0 means: No     96     98     99     (= 'Payload Ty     10     ( = 'Payload Ty     10	p Immediate Switching me Size: 20 ▼ msec ype for RFC2833' + 1)		
VHG 3500 Basic Settings Security Network & Routing Voice Gateway	Voice Gateway     H.323 Parameters     SiP Parameters     Godec Parameters     SiP Trunk Profiles     SiP Trunk Profiles     Hunt Group     Destination Codec Parameters     OARs for MLPP     CicicA     SiSDN Classmarks     Payload     Payload     Payload     Payload     Payload     Pawload	enance Logoff F Max. Playb T.38 Fax Max. UDP Datagram Size Error Correction U: Time Range for Immediate S Misc. ClearMod RFC2833 Transmission of Fax/Modern Transmission of DTMF Tones ac Payload Ty Payloa Redundant Transmission of RFC2 Payload Type for	Low Delay: Payload Type for Opus: ack Sample Rate (H2): Complexity: T.38 Fax: a for T.38 Fax (bytes): sed for T.38 Fax (UDP) Switch to T.38 Fax (UDP) Switch to T.38 Fax (UDP) an Tones according to RFC2833: ccording to RFC2833: id Type for RFC2833: id Type for RFC2833: id Type for RFC2198: 833 Tones according to RFC2198: RFC4733 WideBand:	124         16000         1         16000         1         375         138UDPRedundancy ▼         0       0 means: No         0       0 means: No         96       98         98       (= 'Payload Ty         100       (= 'Payload Ty	o Immediate Switching me Size: 20 ▼ msec ype for RFC2833' + 1) ype for RFC2833' + 2)		
VHG 3500 Basic Settings Security Network & Routing Voice Gateway	Voice Gateway     H.323 Parameters     SiP Parameters     Godec Parameters     SiP Parameters     SiP Trunk Profiles     Hunt Group     Destination Codec Parameters     OARs for MLPP     CicicA     SiDN Classmarks     Payload     Payload     Payload     Payload     Pawload     Pawload	enance Logoff F Max. Playb T.38 Fax Max. UDP Datagram Size Error Correction U: Time Range for Immediate S Misc. ClearMod PrC2833 Transmission of Fax/Modern Transmission of DTMF Tones ac Payload Ty Payloa Redundant Transmission of RFC2 Payload Type for	Low Delay: Payload Type for Opus: ack Sample Rate (H2): Complexity: T.38 Fax: a for T.38 Fax (bytes): sed for T.38 Fax (UDP) Switch to T.38 Fax (UDP) Switch to T.38 Fax (JDP) switch to T.38 Fax (S): le (ClearChannelData): n Tones according to RFC2833: ccording to RFC2833: id Type for RFC2833: d Type for RFC2833: to RFC2198: 833 Tones according to RFC2198: RFC4733 WideBand:	124     16000     1     1     2     375     138UDPRedundancy ▼     0     0 means: No     0     0 means: No     0     0 means: No     0	D Immediate Switching me Size: 20 ▼ msec ype for RFC2833' + 1) ype for RFC2833' + 2)		
VHG 3500 Basic Settings Security Network & Routing Voice Gateway	Voice Gateway     H 323 Parameters     SiP Parameters     Godec Parameters     SiP Trunk Profile Parameter     SiP Trunk Profiles     Hunt Group     Destination Codec Parameters     OARs for MLPP     Clients     CicA     ISDN Classmarks     Payload     Payload     Payload     Pawload Parameters	enance Logoff F Max. Playb T.38 Fax Max. UDP Datagram Size Error Correction U: Time Range for Immediate S Misc. ClearMod PFC2833 Transmission of Fax/Modern Transmission of DTMF Tones ac Payload Ty Payloa Redundant Transmission of RFC2 Payload Type for	Low Delay: Payload Type for Opus: ack Sample Rate (H2): Complexity: T.38 Fax: e for T.38 Fax (bytes): sed for T.38 Fax (UDP) switch to T.38 Fax (UDP) switch to T.38 Fax (JDP) iswitch to T.38 Fax (S): le (ClearChannelData): n Tones according to RFC2833: cording to RFC2833: id Type for RFC2833: di Type for RFC2833: di Type for RFC2198: 833 Tones according to RFC2198: RFC4733 WideBand: Apply	124         16000         1         375         138UDPRedundancy ▼         0       0 means: No         2       Fra         96         98         99       (= 'Payload T)         100       (= 'Payload T)         Undo	o Immediate Switching me Size: 20 ▼ msec ype for RFC2833' + 1) ype for RFC2833' + 2)		

Note 1: The greyed out options can be changed via AMO CGWB

Note 2: The codec parameter Transmission of Fax/Modem Tones according to RFC2833 must be "unchecked"





# WBM Configuration for Fastweb Native SIP Trunk - SIP Trunk Profiles

Amongst various profile templates, the offered **"NatTrkWithoutRegistration"** profile can be used for Fastweb SIP trunk configuration.

Navigate to **HG WBM** >> **Configuration** >> **Voice Gateway** >> **SIP Trunk Profiles** webpage and select the "**NatTrkWithoutRegistration**" profile.

OpenScap	e 4000	
vHG 3500	Configuration M	aintenance Logoff
Basic Settings	Huawei	SIP Trunk Profile
Network & Routing	• Innomedia ESBC	
Voice Gateway		Profile Name: NatTrkWithoutRegistration (!!! MODIFIED FROM DEFAULT !!!)
	KPN VoinConnect	User Notes:
	M-net	Activate Trunk Profile: 🔽
	<ul> <li>Magyar Telekom</li> </ul>	
	<ul> <li>MediatrixGateway</li> </ul>	
	<ul> <li>Microsoft-Lync</li> </ul>	Remote Domain Name: 172.28.0.4
	Mobistar	IP Transport Protocol: TCP 🗸 (used for O/G call establishment)
	MS Teams     MS Teams Test OSSBC V1	Default Bol: (for outgoing "Anonymous" and CLIP
	NatTrkEnterprise	"default PAI" profiles)
	<ul> <li>NatTrk/WithoutRegistration</li> </ul>	Security
	NatTrkWithoutRegistrationMultiNum	Released Security Level: Signaling and Payload Security
	MatTrkWithRegistration	TLS used: No
	A NatTrkWithRegistrationMultiNum	RTP Security Mode: secure Payload (SDES) with fallback to insecure
	🕀 🔶 NeoTel	Pavload Encrused: No
	• • NFON	Additional Mediaces Barameters Supported. Net supported
	O2 Czech	
	OpenscapeUC	Registrar
	Orange     A PartsCIP	Use Registrar: 🗌
		IP Address / Host name:
	Bussmedia IT	Specify Port:
	• Saudi Telecom Company	Reregistration Interval (cec) 100
	<ul> <li>SIPQTrkWithoutRegistration</li> </ul>	
		•
OpenScar	e 4000	
vHG 3500	Configuration M	aintenance Logoff
Basic Settings	🗈 👁 Huawei	•
Security	🖲 🐠 InnoMedia ESBC	Proxy
Network & Routing	🖲 🗣 IP Austria	IP Address / Host name: 172.28.0.4
Voice Gateway	🖲 👁 KEVAG Telekom	Specify Port:
	KPN VoipConnect	TCD 0100 D-++ 2000
	🖲 👁 M-net	
	Magyar Telekom	TLS Port: 0
	Microsoft-Lync	Outbound Proxy
	🕀 👁 Mobistar	Use Outbound Proxy: 🔽
	●MS Teams	IP address / Host name: 10.78.200.10
	MS Teams Test OSSBC V1	
	NatTrkEnterprise	Specity Port:
	NatTrkWithoutRegistration	Port: 50010
	A NatTriAMithBenistration	Inbound Proxy
	• NatTrkWithRegistrationMultiNum	Use Inbound Proxy:
	■ ● NeoTel	IP åddress / Host name:
	ON     ON	
	• O2 Czech	Specify Port:
	<ul> <li>OpenScapeUC</li> </ul>	Miscellaneous (modified from detault, but it is not possible to display which parameters were modified - Profile must be deactivated to modify further or reset defaults)
	🖲 👁 Orange	Reset Profile Defaults
	OrtaSIP	Outgoing Call
	🖲 🛛 Rete Telematica RTRT	CLTD outgoing in From header - display.
	O     Russmedia IT	part: display name 🗸
	Saudi Telecom Company     SupoTritation and Company	CLIP outgoing in From header - user call number 🗸
	SIPUTRWITHOUTREgistration     SIPUTRWITHOUTREgistration	part:
	- war or commenced station	



# Unify \*

OpenScape vHG 3500	e 4000 Configuration Maint	tenance Logoff
OpenScape vHG 3500 Basic Settings Security Network & Routing Voice Gateway	Configuration Maint     Configuration Maint     Austria     Austria     KFN VoipConnect     Austria     KFN VoipConnect     Magyar Telekom     Magyar Telekom     Magyar Telekom     Microsoft-Lync     Mobistar     Microsoft-Lync     Mobistar     Mis Teams     Mis Teams     Mis Teams     Mis Teams     Mis Teams     Mistrik/MithoutRegistration     NatTrik/MithoutRegistration     NotTel     NotTel     Or Crach	Reset Profile Defaults         Outgoing Call         CLIP outgoing in From header - display part:         CLIP outgoing in From header - user part:         CLIP outgoing in P-Asserted-Id header - display part:         CLIP outgoing in P-Preferred-Id header - display part:         CLIR outgoing in From header - display part:         CLIR outgoing in From header - user part:         CLIR outgoing in From header - user part:         Call number v
	Occerent     OpenScapeUC     OpenScapeUC	Call Diversion (RFC 5806) and HistoryInfo (RFC 4244): [Div Header (B Party) - From/PAI (A Party) v Incoming Call Incoming Call - Called party number: request line v Incoming call - Calling party number: automatic - PAI First v Incoming call - Type of number (calling): automatic v Incoming call - Type of number (called): automatic v
OpenScape vHG 3500	e 4000 Configuration Main	tenance Logoff



Enter the following:

- Activate Trunk Profile:
- Remote Trunk Profile:
- IP Transport Protocol:
- Proxy IP Address / Host name :
- Proxy Specify Port:
- Proxy TCP/UDP Port:

<b>Fastweb Con</b>	figuration Guide
Date:	2024-06-20
Partner:	Fastweb



YES



- Outbound Proxy Use Outbound Proxy:
- Outbound Proxy IP Address / Host name :
- Outbound Proxy Specify Port:
- Outbound Proxy Port:

Checked 10.78.200.10 (OS SBC LAN IP address) Checked i.e. 50010

Click on [Apply].

Repeat the same procedure to create the "Native SIP Trunk" for the second vHG with **"Remote Trunk Profile & Proxy – IP Address / Host name"** value the "172.28.0.20" and **"Outbound Proxy – Port"** value the "50020".

# **OpenScape SBC Configuration**

This chapter describes the configuration of OpenScape SBC for interworking with Fastweb Voice network.

The OpenScape SBC will be configured with the connection to OS4000 and SSP (Fastweb) endpoints. Routine or non-project specific OS SBC configuration will be omitted.

### Connect to OpenScape 4000 Server

# 1.1.1.1 Core Realm Interface

Use the TCP ("Proxy") port number OS4K WBM for the connection of OS SBC's eth0 (core) interface to OS4000.

### Go to OS SBC Management Portal >> Network/Net Services.

Network/Net Service	es										?
(i) Select OK to temporarily	store changes. Make your ch	anges permanent by sele	cting 'Apply Changes' on t	ne General page.							
Settings DNS NT	P Traffic Shaping	QoS									
Physical Network Interface											?
Interface	Enabled M	ITU Speed (Mbps)	Duplex mode								
eth0	1	500 Auto	Auto								^
eth1	<b>2</b> 1	500 Auto	Auto								
											~
<										)	
Single armed											
Interface bonding											
Interface Configuration											?
Core realm configuration											
										Add Del	ete
Туре	Network ID	Interface	IP address	Subnet mask	Signaling	Media	SIP-UDP	SIP-TCP	SIP-TLS	MGCP	
Main IPv4	Main-Core-IPv4	eth0	10.78.200.10	255.255.255.0		<	5060	5060	5061	2427	^
											~
										ОК	Cancel

On "Settings" tab and in "Core realm configuration" area, configure OS SBC's LAN interface characteristics. On "Settings" tab and in "Core realm configuration" area, make sure that for "eth0" interface, "SIP-TCP" has the

value "5060". Click on **[OK]**.

Fastweb Configuration GuideDate:2024-06-20Partner:Fastweb





Click on [Apply Changes] on OS SBC main page.

### SIP Server

The SIP connectivity to OS4000 is configured in **OS SBC Management Portal >> VOIP** window.

VOIP			0
(i) Select OK to temporarily store changes	s. Make your changes permanent by se	lecting 'Apply Changes' on the General page.	
Sip Server Settings Port and Sig	gnaling Settings Error Codes	Media Qo5 Monitoring	
General			0
Comm System Type Clustered	~		
Allow Register from SERVER			
Use RURI to Route to Comm System			
Bond TCP Connection to SLB			
Clustered servers			
Clustered Nodes settings			(?)
Ping Method	OPTIONS 🗸	OPTIONS interval (sec)	60
Failure threshold (pings)	2		
No Destination Error Code	403 Forbidden 🗸		
			OK Cancel

On "Sip Server Settings" tab and in "Comm System Type" dropdown menu, select the value "Clustered".

Click on [Clustered servers] and on pop up window click on [Add].

**Note:** The **"Error Codes"** option (appears for the **"Clustered"** mode) must be enabled if we want the OS SBC to reroute the call to the other HG board after receiving an error code from OS4000.

clust	ered Servers									(	2
(i) Sele	ect OK to tempora	rily store changes.	Make your	changes permanent by	selecting 'Apply Changes' on the Gen	eral page.					
										Add Delete	e
Group ID	Group name	Node Name	Priority	Routing prefix	IP address or FQDN	Port	Transport	Stick with CommServer	No Answer timer (msec)	No Reply timer (msec)	
1	OS4000	vHG1	1		10.8.242.119	5060	тср		360000	3000	^
											~
<										>	
										OK Cancel	)

On "clustered Servers" window, enter the following:

• Group ID: 1

Fastweb Config	juration Guide
Date:	2024-06-20
Partner:	Fastweb





- Group name:
- Priority:
- IP address or FQDN:

i.e OS4000 (friendly name)

- 1 i.e 10.8.242.119 (OS4000 HG card IP address of the trunk)
- Port: 5060 (listening port)
- Transport:

Repeat for the second OS4000 vHG board with IP "10.8.242.120" with "Priority" set to "2".

TCP

Note: The "Transport" port is for the TCP connection and not the "Outbound Proxy Port" (same as the "Core Realm Port") in OS4000's SIP Trunk Profile.

The **"Transport"** and **"Port"** values must be aligned with OS4000 corresponding configuration.

clust	ered Servers										?
(i) Sel	ect OK to temporar	ily store changes.	Make your cl	hanges permanent by se	lecting 'Apply Changes' on the Gene	eral page.					
										Add De	lete
Group ID	Group name	Node Name	Priority	Routing prefix	IP address or FQDN	Port	Transport	Stick with CommServe	No Answer timer (msec)	No Reply tim (mse	ler 2C)
1	OS4000	vHG1	1		10.8.242.119	5060	тср		360000	30	00 ^
2	OS4000	vHG2	2		10.8.242.120	5060	тср		360000	30	00
4											~
											/
										OK Can	.cel

Click on **[OK]** and then click again on **[OK]** on **"VOIP"** window.

Click on [Apply Changes] on OS SBC main page.

## Media

With the **"Media Profiles"** settings, various parameters regarding the SDP messages and audio (RTP) traffic may be configured for the OS SBC SIP endpoints to Fastweb and OS4000.

## **Codec Manipulation Options**

In case transcoding or certain codec prioritization for audio is required for the OS SBC – SSP or the OS SBC – PBX media profile for the corresponding SIP trunk, it is required to enable the codec configuration options first for the media profile setup.

To do so, access **OS SBC Management Portal >> Features** window and "Check" the "Enable Codec Support for transcoding" checkbox.





Features
(i) Select OK to temporarily store changes. Make your changes permanent by selecting 'Apply Changes' on the General page.
Features configuration
Enable Remote Subscribers     Configure
Enable Remote Endpoints
Enable Codec Support for transcoding     Configure
Enable TURN Server
Enable Circuit Telephony Connector     Configure
Enable Sip Load Balancer
Enable Push Notification Service     Configure
Enable Ganglia Monitoring Daemon
Enable Circuit Zookeeper Client
Enable THIG
Enable Standalone
OK Cancel

Click on [Configure].

On **"Codecs"** window, select the codecs to be available for the media profiles (for e.g., transcoding, prioritization). As an example:





G711A 8 kHz - 64 kbps G711U 8 kHz - 64 kbps G722 8 kHz - 64 kbps G722 8 kHz - 64 kbps			
G711U 8 kHz - 64 kbps G722 8 kHz - 64 kbps G7231 16 kHz - 34 kbps			
G722 8 kHz - 64 kbps			
C7221 16 kHz 24Khza			
G7221 10 KHZ - 24KDps			
G7221 16 kHz - 32Kbps			
G7221C 32 kHz - 24Kbps			
G7221C 32 kHz - 32Kbps			
G729 8 kHz - 8 kbps			
OPUS 48 kHz - Variable			
iLBC 8 kHz - Variable			
iSAC 16 kHz - Variable			
iLBC 8 kHz - Variable iSAC 16 kHz - Variable			
	G7221C 32 kHz - 24Kbps G7221C 32 kHz - 24Kbps G7221C 32 kHz - 32Kbps G729 8 kHz - 8 kbps OPUS 48 kHz - Variable iLBC 8 kHz - Variable iSAC 16 kHz - Variable	G7221C 32 kHz - 24kbps G7221C 32 kHz - 24kbps G7221C 32 kHz - 32kbps G729 8 kHz - 8 kbps OPUS 48 kHz - Variable iLBC 8 kHz - Variable iSAC 16 kHz - Variable	G7221C 32 kHz - 24kbps G7221C 32 kHz - 24kbps G729 8 kHz - 8 kbps OPUS 48 kHz - Variable iLBC 8 kHz - Variable iSAC 16 kHz - Variable

Click on **[OK]** and on the rest open windows.

Click on [Apply Changes] on OS SBC main page.

## Fastweb Media Profile

Go to **OS SBC Management Portal >> VOIP >> Media.** 



# Unify NOW PART OF DO MILEE

Media Profile						_		?
(i) Select OK to temporar	rily store changes. Make your	changes pe	rmanent by sele	cting 'App	oly Change	s' on the General p	bage.	
General							3	?
Name		Fastweb						
Media protocol		RTP only			✓ Dir	ect Media Support	t	
Support ICE		Full		~				
Support NGTC Trickle I	CE							
Enable NGTC WebRTC	Compatibility							
Enable TURN Client								
RTP/RTCP Multiplex in	offer							
SDP Compatibility Mode	2							
Support Mid Attribute								
Do not set port to zero	on session timer answer SDP							
SRTP configuration								?
SRTP crypto context pego			SDES Both		~			
Mark SRTP Call-leg as	Secure		0020 0001					
PTCP configuration			_			5		0
Krer comgaration			_	_	_		_	
RTCP Mode	Bypass	~						
RTCP generation timeout	4							
Codec configuration							1	?
allan mara farmed a	- d							
Allow unconfigured co	via profilo							
Send Telephony Ever	y in profile							
Use payload type 10	1 for telephony event/8000							
Enforce Packetization	Interval							
Codec G711A 8 kHz - 64	kbps v Add							
				-				
				-1-	love up	Move down	Delet	e
Priority	Codec			Pac	ketization i	nterval		Γ,
						ſ		^
							OK Ca	ancel

In "Media Profiles" area click on [Add] to create the media profile for OS SBC - SSP trunk by entering the following:

- Name:
- Media protocol:
- RTP/RTCP Multiplex in offer:
- Allow unconfigured codecs:

Click on **[OK]** to return to "Media" window.

Click on [OK] on "VOIP" window.

Click on [Apply Changes] on OS SBC main page.

Fastweb Config	juration Guide
Date:	2024-06-20
Partner:	Fastweb

Fastweb (friendly name) RTP only Checked Checked





# OpenScape 4000 Media Profile

### Go to OS SBC Management Portal >> VOIP >> Media.

Media Profile			
i) Select OK to temporarily store changes. Make you	changes permanent by selecting 'Apply Changes' or	n the General page.	
General			(?)
Name	Q\$4000		
Madia aveta sal	BTB ask	Madia Curaant	
		Media Support	
Support ICE	Full Y		
Support NGTC Trickle ICE			
Enable NGTC WebRTC Compatibility			
Enable TURN Client			
RTP/RTCP Multiplex in offer			
SDP Compatibility Mode			
Support Mid Attribute			
Do not set port to zero on session timer answer SDF	,		
SRTP configuration			?
- SDES	DILS SDES Both		
Mark SRTP Call-leg as Secure			
RTCP configuration			?
RTCP Mode Bypass	~		
RICP generation timeout 4			
Codec configuration			?
<ul> <li>Allow unconfigured codecs</li> </ul>			
Enforce codec priority in profile			
Send Telephony Event in Invite without SDP			
Use payload type 101 for telephony event/8000			
Enforce Packetization Interval			
Codec V Add			
		Move up	Move down Delete
iority	Codec	Packetization interval	
	G711A 8 kHz - 64 kbps	Auto	^
	G711U 8 kHz - 64 kbps	Auto	
	G729 8 kHz - 8 kbps	Auto	
	G722 8 kHz - 64 kbps	Auto	

In "Media Profiles" area click on [Add] to create the media profile for OS SBC – OS4000 connection with the default settings:

- Name:
- Media protocol:
- RTP/RTCP Multiplex in offer:
- Allow unconfigured codecs:

Click on **[OK]** to return to **"Media"** window.

Click on **[OK]** on **"VOIP"** window.

Click on [Apply Changes] on OS SBC main page.







# **General Media Settings**

After creating the media profiles, the general media settings used in current test environment are shown on **OS SBC Management Portal** >> **VOIP** >> **Media** window.

i Select OK to temporar										
	rily store changes. Make your changes perr	manent by selec	cting 'Apply	y Changes'	on the General	page.				
Sip Server Settings	Port and Signaling Settings	ror Codes	Media	005 M	Ionitoring					
- <b>f</b>	· · · · · · · · · · · · · · · · · · ·									
Media Handling										?
Allow multiple media li	ines for the same media type									
Replace the SDP Orig	in (o) field									
🗹 Reset SRTP context u	upon key change									
Use single bridge/por	t for audio media									
Core Side Media Configura	ation									?
ledia profile OS4000	v									
									Add	Delete
ser agent					mediaProfile					
(										<b>`</b>
Media Profiles							_			<b>~</b>
Media Profiles					_	_		-		<b>&gt;</b>
Media Profiles		-				-	_	Add	Edit	> ? Delete
Media Profiles	Codecs		-		-	Media protocol	SRTP crypto context negotiation	Add Mark SRTP (	<b>Edit</b>	) Delete ecure
Media Profiles ame pRec_default	Codecs	-			-	Media protocol Best Effort SRTP BTP anti-	SRTP crypto context negotiation mikey + sdes	Add Mark SRTP (	<b>Edit</b>	?       Delete       ecure
Media Profiles ame DRec_default SV SV	Codecs	_				Media protocol Best Effort SRTP RTP only SPTB only	SRTP crypto context negotiation mikey + sdes none die	Add Mark SRTP (	<b>Edit</b>	? Delete ecure
Media Profiles Ime DRec_default SV Ify_Phone_default	Codecs					Media protocol Best Effort SRTP RTP only SRTP only BTP only	SRTP crypto context negotiation mikey + sdes none dtls pone	Add Mark SRTP (	<b>Edit</b>	?       Delete       ecure
vledia Profiles ame oRec_default SV ify_Phone_default istweb 54000	Codecs G711A,G711U,G729 G711A,G711U,G729,G722					Media protocol Best Effort SRTP RTP only SRTP only RTP only RTP only	SRTP crypto context negotiation mikey + sdes none dtls none none	Add Mark SRTP (	) <b>Edit</b> ( Call-leg as Sr	?       Delete       ecure       ^
Media Profiles ame pRec_default SV hify_Phone_default sstweb S4000	Codecs 6711A,G711U,G729 6711A,G711U,G729,G722					Media protocol Best Effort SRTP RTP only SRTP only RTP only RTP only	SRTP crypto context negotiation mikey + sdes none dtls none none	Add Mark SRTP (	<b>Edit</b>	?       Delete       ecure       ^
Media Profiles ame pRec_default SV nify_Phone_default S4000	Codecs G711A,G711U,G729 G711A,G711U,G729,G722					Media protocol Best Effort SRTP RTP only SRTP only RTP only RTP only	SRTP crypto context negotiation mikey + sdes none dtls none none	Add Mark SRTP (	Edit (	?     Delete     ecure     ^     >
Media Profiles  me pRec_detault sy mify_Phone_default astweb S4000 Cloud Support	Codecs G711A,G711U,G729 G711A,G711U,G729,G722					Media protocol Best Effort SRTP RTP only SRTP only RTP only RTP only	SRTP crypto context negotiation mikey + sdes none dtls none none none	Add Mark SRTP (	Edit (	? Delete ecure
Media Profiles	Cloud					Media protocol Best Effort SRTP RTP only SRTP only RTP only RTP only	SRTP crypto context negotiation mikey + sdes none dtls none none	Add Mark SRTP (	<b>Edit</b>	?     Delete     ecure     ^     ?

In "Core Side Media Configuration" area set "OS4000" from the "Media profile" dropdown list for the media profile used for the OS SBC – OS4000 SIP trunks.

Click on [OK].

Click on [Apply Changes] on OS SBC main page.

## **Remote Endpoints**

In **Remote Endpoint** configuration the OS SBC with Fastweb voice network is setup.

Navigate to **OS SBC Management Portal >> Features** window and set **"Enable Remote Endpoints"** checkbox to "Checked".





On OS SBC Management Portal >> Features >> Enable Remote Endpoints window, click on [Configure].

On "Remote Endpoints" window click on [Add] in "SIP Service Provider Profile" area to add the endpoint profile for the OS SBC – Fastweb SBC SIP trunking.



### ni l NOW PART OF 🕅 Mitel

 -		
Seruce	Decourse	5 21 22
DELVICE	E LONG	

SIP Service Provider Profile	(C)
() Select OK to temporarily store changes. Make your	changes permanent by selecting 'Apply Changes' on the General page.
General	0
Name Fastweb Default S	SP profile v
SIP Service Address	0
Use SIP Service Address for identity headers	
SIP service address	
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	Use SIP Service Address in P-Preferred-Identity header
SIP User Agent	$\odot$
SIP User Agent towards SSP Passthru	✓ SIP User Agent
Registration	$\odot$
Registration required	
Registration interval (sec) 3600	
Business Identity	
Business identity required	
Business identity DN	
Outgoing SIP manipulation	$\bigcirc$
Insert anonymous caller ID for blocked Caller-ID	
Manipulation	
Incoming SIP manipulation	$\odot$
Calling Party Number $\begin{tabular}{c} From header user and dis $$\mathbf{v}$ \end{tabular}$	



U	n	if∨°
NOW PA		Mitel

SIP Service Provider Profile		?
(i) Select OK to temporarily store changes. Make your changes permanent by selecting 'Apply Changes' on the General page.		
Flags	(?)	^
Seed Defects Harry DN is Control for Cell assesses		
Send Derauit Home DIV in Contact for Call messages		
Allow SDP changes from SSP without session version update		
Do not send INVITE with sendonry media attribute		
Do not send INVITE with inactive media attribute		
Do not send INVITE with video media line		
Do not send Invite without SDP		
Renew core side crypto keys		
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		
Do not send Privacy header in response messages		
Remove bandwidth (b) lines from SDP		
Keep P-Asserted-Identity from access side		
A void sending 183 messages		
Avoid sending 180 message (for 60s)		
TLS	?	
TIC Gaussian Dave Theorem and		
TES Signaling Pass-Titu		
Sip Connect	?	
Use tel URI		
Send user=phone in SIP URI		
Registration mode		
1TR118		¥
	OK Cance	
		_

### On "SIP Service Provider" window, enter the following:

- Name:
- Default SSP Profile:

### Fastweb (friendly name)

Blank (in case the provider doesn't exist in the dropdown selection list, the field should remain blank and the user must manually configure the required flags for the SSP in use)

Click on **[OK]** to return to "Remote Endpoints" window.

### In "Remote endpoint configuration" area, click on [Add].



Remote endpoint configuration 🛛 💮												
Select OK to temporarily store changes. Make your changes permanent by selecting 'Apply Changes' on the General page.												
Remot	Remote Endpoint Settings											
Name		Fastweb_1										
Туре		SSP v										
Profile		Fastweb v										
Access	Access realm profile Main-Access-Realm - ipv4 v											
Core re	Core realm profile Main-Core-Realm - ipv4 v											
Associa	Associated Endpoint											
🗆 En	Enable Call Limits											
Maxim	um Permitted Calls	0										
Reserv	ed Calls	0										
Remot	Remote Location Information											
🗌 Su	pport Peer Domain	s										
🗆 Su	pport Foreign Peer	Domain	s White list									
🗌 En	able access control											
Signal	Signaling address type IP address or FQDN v											
Remot	Remote Location domain list											
								Add Edit D	elete			
Row	Remo	te URL	Remote port	Remote transport	Media IP	Media profile	TLS mode	Certificate profile TL	S keep-			
	OK Cancel											

On "Remote endpoint configuration" window, enter the following in the "Remote Endpoint Settings" area:

Name: Fastweb\_1 (friendly name)
 Type: SSP
 Profile: Fastweb

Continue to "Remote Location Information" area:

Signaling address type: IP address or FQDN

Click on [Add] in "Remote Location domain list" area.



# Unify "

Remote Location Domain

	0
() Select OK to temporarily store changes. Make your changes permanent by selecting 'Apply Changes' on the General page.	
General	2
Remote URL 172.28.0.4 Shared domain	
Remote port 5060	
Remote transport UDP V	
Signaling	2
INVITE No Answer timeout (msec) 360000	
INVITE No Reply timeout (msec) 3000	
TLS	2
TLS mode Server authentication V	
Certificate profile OSV Solution ~	
TLS keep-alive	
Keep-alive interval (seconds) 120	
Keep-Alive timeout (sec) 10	
Media Configuration	2
Media profile v	
Media realm subnet IP address	~
ОК	ncel

On "Remote Location Domain" window, enter the following:

- Remote URL:
- Remote port:
- **i.e.** 172.28.0.4 (provided by Fastweb) 5060
- **Remote transport:** UDP (TCP or TLS are also possible)
- Media profile:

Click on **[OK]** to return to "Remote endpoint configuration" window.

Fastweb



0

# Unify®

	Remote endpoint configuration														
(i) Select OK to temporarily store changes. Make your changes permanent by selecting 'Apply Changes' on the General page.															
Row Remote URL	Remote port	Remote transport	Media IP	Media profile	TLS mode	Certificate profile	TLS keep-alive	Keep-alive interval (seconds)	Keep-Alive timeout (sec)	^					
1 172.28.0.4	5060	UDP		Fastweb	Server authentication	OSV Solution		120	^						
<					_				~						
Remote Location Identification/Routing															
a 5000										1					
Core realm part	50010														
Default core realm location domain name															
Default home DN															
Enable routing based on domain															
FQDN															
Incoming Routing prefix			Add												
		^	Delete												
		~								~					
									OK Cance	1					
										~					
Remote endpoint configuration	Mala		and a star to show the	ul a da Carrelan						V					
Direct OK to temporarily store change	es. Make your c	nanges permanent by	selecting Apply Chang	es on the General page			_								
Digest Authentication	_						_	_	0						
Digest authentication supported															
Digest authentication user ID															
Digest authentication password															
Acress Side Firewall Settings			_	_	_	_	_	_	0						
Enable Firewall Settings     Firewall	Settings									'					
Emergency configuration							_		0						
Energency consultation				_	Emergency configuration (2)										
Emergency numbers		Add													
Emergency numbers	^	Add													
Emergency numbers	^	Delete													
Emergency numbers	<b>^</b>	Add													
Emergency numbers	~	Add Delete													
Emergency numbers Emergency call routing MSRP Data Configuration	<b>^</b>	Delete							$(\mathfrak{I})$						
Emergency numbers Emergency call routing MSRP Data Configuration Enable MSRP Relay Support	not licensed)	Delete							0						
Emergency numbers Emergency call routing MSRP Data Configuration Enable MSRP Relay Support use IP address in MSRP-path	not licensed)	Add Delete	MSRP-path	FQDN					0						
Emergency numbers Emergency call routing MSRP Data Configuration Enable MSRP Relay Support Use IP address in MSRP-path Authentication required	not licensed)	Ladd Delete	MSRP-path	FQDN Password		Show			0						
Emergency numbers Emergency call routing MSRP Data Configuration Enable MSRP Relay Support Use IP address in MSRP-path Authentication required Access side only	not licensed)	Add Delete use FQDN in Realm Qop AUTH	MSRP-path	FQDN Password Expire time/sec 300		Show			0						
Emergency numbers Emergency call routing MSRP Data Configuration Enable MSRP Relay Support Guse IP address in MSRP-path Authentication required Access side only Miscellaneous	not licensed)	Add Delete use FQDN in Realm Qop AUTH	MSRP-path	FQDN Password Expire time/sec 300		Show	_		3						
Emergency numbers Emergency call routing MSRP Data Configuration Enable MSRP Relay Support Use IP address in MSRP-path Authentication required Access side only Miscellaneous Open external freewall ninbole	not licensed)	Add Delete use FQDN in Realm Qop AUTH	MSRP-path	FQDN Password Expire time/sec 300		Show			0						
Emergency numbers Emergency call routing MSRP Data Configuration Enable MSRP Relay Support Suse IP address in MSRP-path Authentication required Access side only Miscellaneous Open external firewall pinhole Send RTP dummy packets	not licensed)	Add Delete use FQDN in Realm Qop AUTH	MSRP-path	FQDN Password Expire time/sec 300		Show			0						

In "Remote Location Identification/Routing" area, enter the value "50010" for "Core realm port" (as configured vHG "Outbound Proxy Port").

Click on [OK] to return to "Remote Endpoints" window.

Fastweb Configuration GuideDate:2024-06-20Partner:Fastweb





Repeat the same procedure in **"Remote endpoint configuration"** window to add the second Fastweb remote endpoint "Fastweb\_2" with IP address the "172.28.0.20" and **"Core realm port"** value the "50020".

Remote Endpo	pints									?			
i) Select OK to temporarily store changes. Make your changes permanent by selecting 'Apply Changes' on the General page.													
SIP Service Provider Profile													
Hostname													
Port													
Remote directory													
User name													
Password	Password												
	Download New	Profile List											
										te			
▲ Row	Na	me Registration required	Registration in	terval (sec)									
1	Fastw	veb 🗌		3600						^			
										~			
<									>				
Remote endpoint c	configuration									?			
								Add Edit Del	ete Export Logical I	Ds			
					Remote IP address /					_			
▲ Row	Name	Access realm profile	Туре	Profile / Circuit ID	Logical-Endpoint-ID / Circuit URL	Remote port	Remote transport	Associated Endpoint	Linked Endpoint				
1	Fastweb_1	Main-Access-Realm - ipv4	SSP	Fastweb	172.28.0.4	5060	UDP			^			
2	Fastweb_2	Main-Access-Realm - ipv4	SSP	Fastweb	172.28.0.20	5060	UDP						
										~			
									ОК	Cancel			

The **"Remote Endpoints"** window should look like the picture below:

Click on **[OK]** on all open windows.

Click on [Apply Changes] on OS SBC main page.

