

TECHNICAL GUIDE to access to Business Talk/Business Talk IP SIP IPBX Unify OpenScape Voice

Versions addressed in this guide : V9 R1.21.0

Information included in this document is dedicated to customer equipment (IPBX, TOIP ecosystems) connection to Business Talk IP service : it shall not be used for other goals or in another context.

Document Version

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Goal of this document

The aim of this document is to list technical requirements to ensure the interoperability between Unify OpenScape Voice IPBX with Orange Business Services Business Talk / Business Talk IP SIP services, hereafter so-called “service”.

1 ARCHITECTURE OVERVIEW

Access to BT/BTIP is performed through 2 a-SBC (nominal and backup).

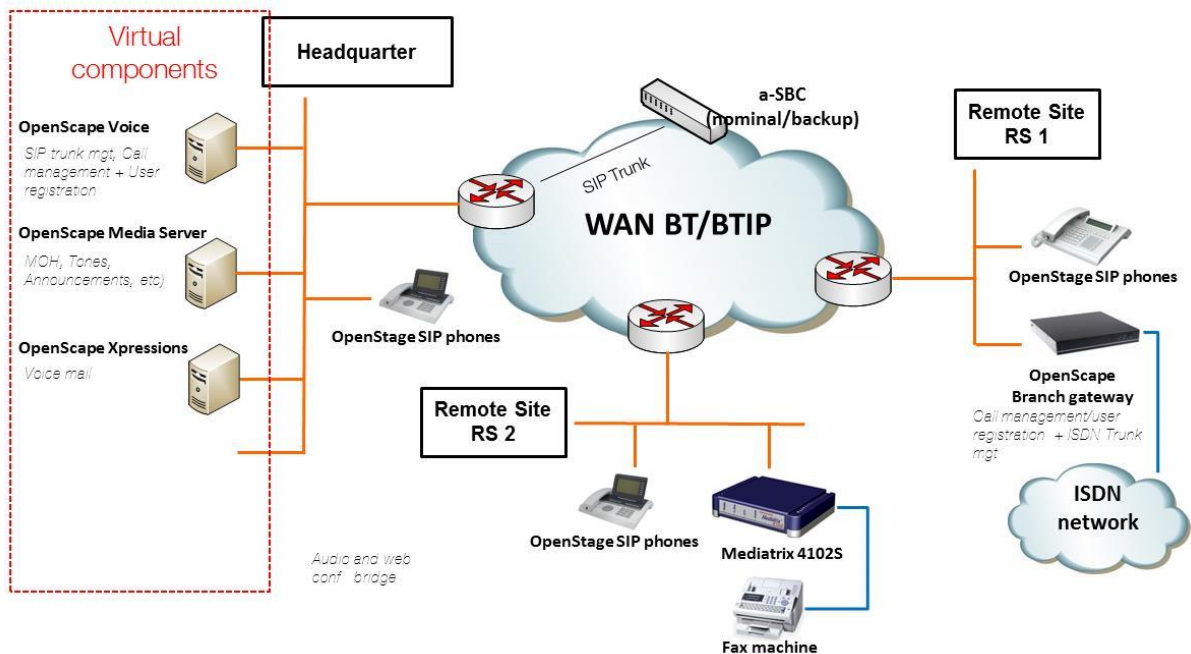
Customer shall pay attention to get proper IPBX licencing.

2.1 Distributed architecture (virtual + hardware) components

Main Architecture use cases

> **Distributed Architecture**

- 1 Headquarter based on the OpenScape Voice solution (with SIP trunk)
- 1 or several Remote Site(s) with an OpenScape Branch Gateway (without SIP trunk)
- 1 or several Remote Site(s) without OpenScape Branch Gateway (without SIP trunk)



Resiliency consideration

Co-located two-nodes cluster in active-backup mode.

Switchover between the active OSV node to the second node in case of a failure is done by a monitoring process named *Survival Authority* on an external server.

CAC & Codec consideration

G729 codec usage is not supported in the scope of Unify OpenScape Voice SIP trunking interoperability with Orange Business Services. Only G711a codec is supported.

Configuration of Internal CAC solution in Openscape Voice is required to restrict only G711A 20ms Voice codec. Refer to annex « CAC management rules on OpenScape Voice system » for more information.

3 PARAMETERS to be PROVIDED by CUSTOMER to ACCESS BT/BTIP service

IP addresses marked in red have to be indicated by the Customer, depending on Customer architecture scenario

Head Quarter (HQ) architecture	Level of Service	Customer IP addresses used by service	
		Nominal	Backup
Duplex integration	Local redundancy: two OSV servers in a redundant two-node cluster that executes in an active-standby mode and sharing the same IP@.	VIP@	N/A
Remote Site (RS) architecture	Level of Service	Nominal	Backup
Remote site with OpenScape Branch gateway	Local user survivability and trunk redundancy via PSTN only	N/A	N/A
Remote site without media gateway	No survivability, no trunk redundancy	N/A	N/A

4 CERTIFIED SOFTWARE and HARDWARE versions

4.1 Release V9R1.21

	SIP User Agent	OpenScape Voice V9R1
IP-PBX Components	OpenScape Voice server	V9R1.21
	OpenScape Branch gateway	V9 R1.01.00
	OpenScape Media Server	
SIP phones	OpenStage SIP 15, 20, 40, 60, 80	V3 R5.3.0
Voice mail	OpenScape Xpressions	V7 R1.3.1
Media GW	Mediatrix 4102S	Dgw 2.0.36.672
Specific	FAX	T.38

5 SIP TRUNKING CONFIGURATION CHECKLIST

This document written by Unify, describes the Unify OpenScape Voice V9 and Mediatrix 4102S Analog VoIP Adapter configuration to ensure the interoperability with Orange Business Services.



Configuration Guide
Unify OpenScape v1.

6 MAIN SIP features and FUNCTIONAL restrictions

- Codecs:
 - o G711 A 20 ms only (**G729 A not certified**)
- SIP Transport:
 - o UDP
- FAX transmission:
 - o T.38
- Functional restrictions:
 - o G729 codec is not supported

Annex: CAC management rules on OpenScape Voice system

CAC is controlled on OpenScape Voice IPBX for each geographical site.

CAC groups & CAC policies have to be defined.

A CAC Group represents the group of endpoints being served by each bandwidth-limited link which needs to be monitored.

A CAC Group will be defined based on IP subnets.

A CAC Policy is assigned to a CAC Group and represents the characteristics for the bandwidth-limited link being monitored.

Each CAC Policy contains:

- the CAC Group to which the policies applies. The CAC Policy applies to all calls to and from the CAC Group.
- the traffic type controlled by the CAC Policy: only Voice
- The bandwidth limit
- The permitted voice codecs : only G711a

Please find below the different CAC groups to be configured and their associated CAC policy.

CAC Group *Branch 1* based on Headquarter subnet

CAC Policy: From/To *Branch 1*, Voice, Bandwidth: xxxx Kbps, Allowed Codecs: G711a – In order to restrict G711a codec and apply some CAC for the Headquarter site

CAC Group *Branch 2* based on Remote Site 1 subnet

CAC Policy: From/To *Branch 2*, Voice, Bandwidth: yyyy Kbps, Allowed Codecs: G711a - In order to restrict G711a codec and apply some CAC for the Remote Site 1

CAC Group: *Branch 3* based on Remote Site 2 subnet

CAC Policy: From/To *Branch 3*, Voice, Bandwidth: zzzz Kbps, Allowed Codecs: G711a - In order to restrict G711a codec and apply some CAC for the Remote Site 2

CAC Group: *Branch 4* based on Orange SBC IP@

CAC Policy: From/To *Branch 4*, Voice, Allowed Codecs : G711a - In order to restrict G711a codec only
– It is not required to define Bandwidth or Number of Calls restriction for this CAC Group