

# Business Talk & BTIP for Alcatel-Lucent Enterprise OXO Connect & OXO Connect Evolution

versions addressed in this guide : 3.2 & 4.0

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

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## 1. Goal of this document

The aim of this document is to list technical requirements to ensure the interoperability between Alcatel-Lucent Enterprise OXO Connect IPBX with Business Talk IP or BTalk service from Orange Business Services, hereafter so-called “service”.

**Warning !** BTIP is NOT embedded in the Orange/ALE MCO program. So OXO Connect can be connected to BTIP as “generic” offer only.

## 2. Certified architectures

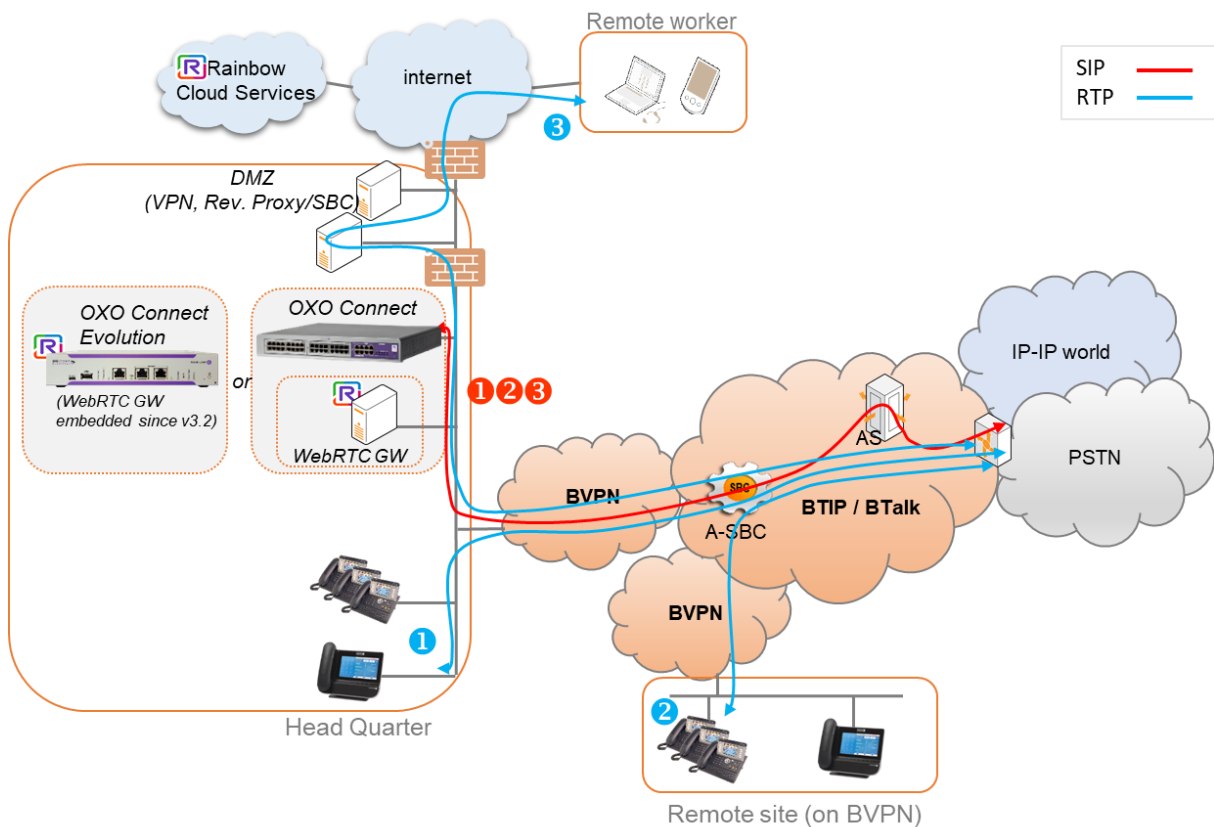
### 2.1. Introduction to architecture components and features

This document describes “only” the main supported architectures either strictly used by our customers or that are used as reference to add specific usages often required in enterprise context (specific ecosystems, multi-codec and/or transcoding, recording...)

Concerning the fax support, Business talk and BTIP support the following usage :

- fax servers connected to the IPBX -and sharing same dial plan-, or as sperate ecosystems -and separate dial plan-,
  - analog fax machines, usually connected on specific gateways (seen as IPBX ecosystem or not)
- Fax flows are handled via T.38 transport only.

### 2.2. Standard architecture



Notes :

In the diagram above, the SIP, proprietary and Rainbow internal flows are hidden.

- ❶ call from/to head quarter
- ❷ call from/to remote site (on Business VPN)
- ❸ call from/to remote worker (on Internet)

In this architecture :

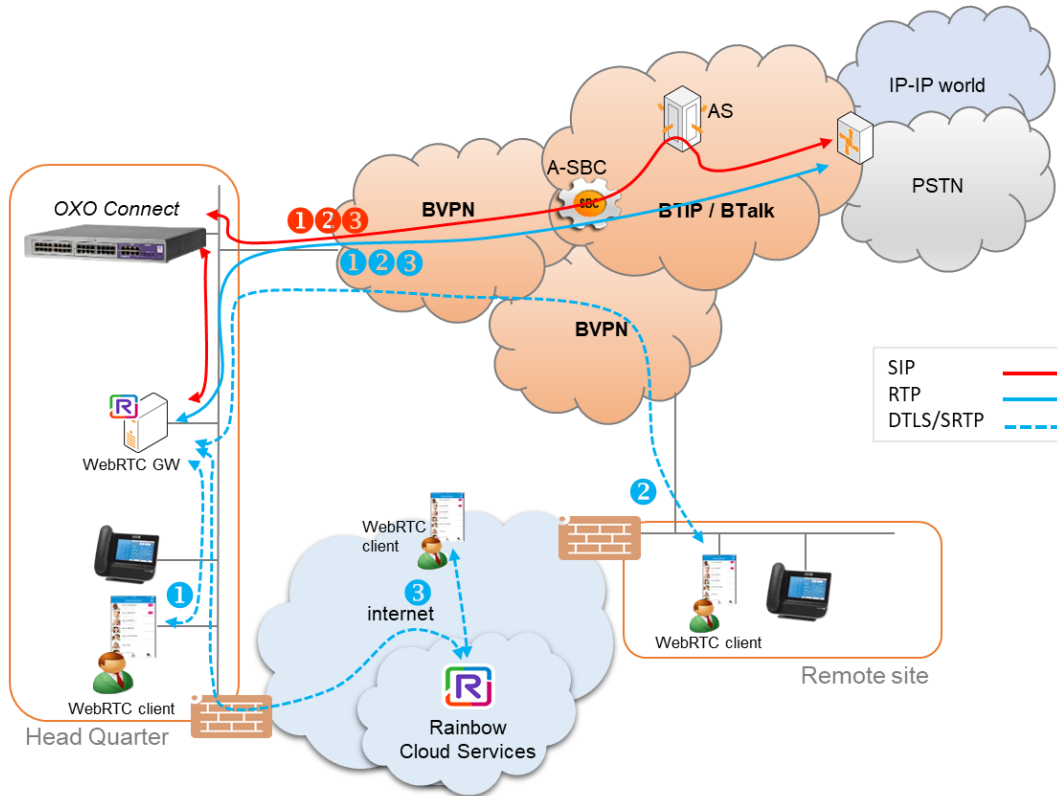
- all 'SIP trunking' signaling flows are carried by the OXO Connect IPBX and routed on the main BVPN connection.
- Media flows are direct between endpoints and the Business Talk/BTIP but IP routing differs from one site to another :
  - For the Head Quarter site, media flows are just routed on the main BVPN connection
  - For Remote sites on BVPN, media flows are just routed on the local BVPN connection (= distributed architecture),

Here below a table with a few examples about sizing elements :

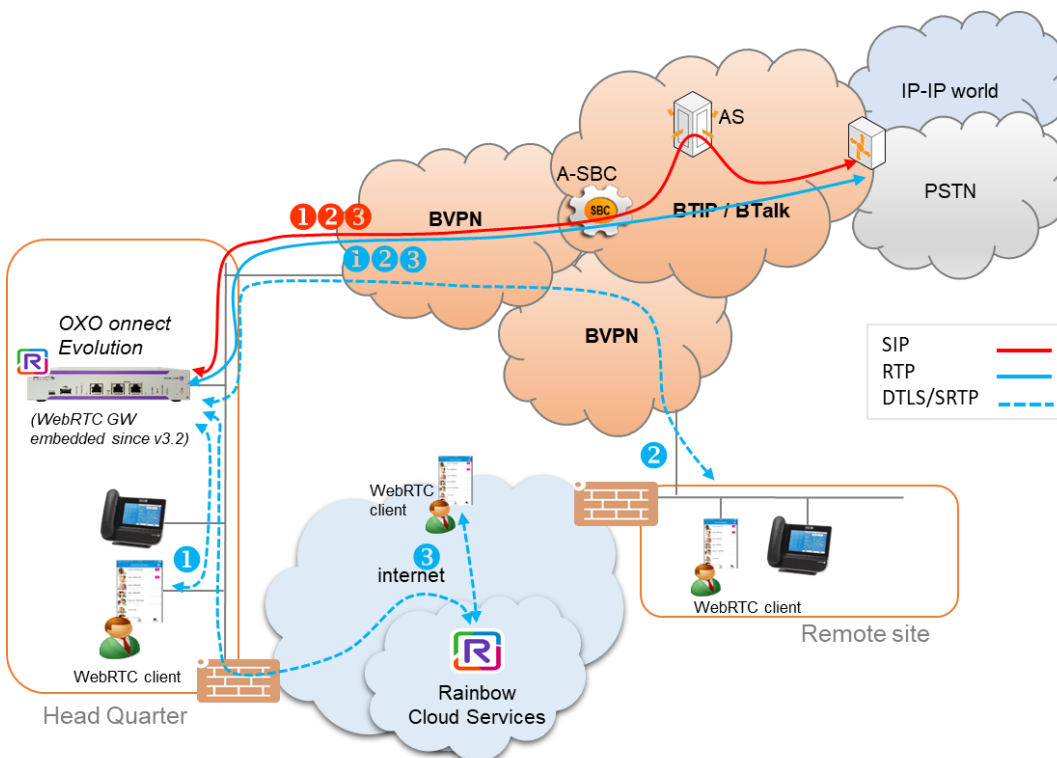
Call scenario	nb of voice channels/media resources used		
	IPBX*	WAN router**	BTIP
1 offnet call from/to the head quarter (HQ)	1	1 in HQ	1 in HQ
1 offnet call from/to a remote site (RS)	1	0 in HQ 1 in RS	0 in HQ 1 in RS
1 offnet call from/to a remote site <b>with put on hold</b>	2	1 in HQ 1 in RS	0 in HQ 1 in RS
1 offnet call from/to a remote site <b>after transfer/forward to BTIP</b>	0	0 in HQ 0 in RS	0 in HQ 2 in RS
1 <b>forced onnet call from head quarter to a remote site</b> (= through Business Talk infrastructure)	2	1 in HQ 1 in RS	0 in HQ 0 in RS

\*global CAC for the BTIP SIP trunk \*\*on the WAN router, 1 voice channel = 80Kb/s

### 2.3. Architecture with Rainbow



*OXO Connect with a dedicated Rainbow WebRTC gateway on the LAN*



*OXO Connect Evolution with the embedded Rainbow WebRTC gateway*

Notes :

In the diagrams above, data flows (HTTPS/XMPP/Jingle/REST) between the clients, OXO Connect or OCE, WebRTC Gateway and Rainbow services on the internet are hidden :

- ❶ call from/to head quarter
- ❷ call from/to remote site (on Business VPN)
- ❸ call from/to remote worker (on Internet)

### 3. Parameters to be provided by customers to access to the service

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

Head Quarter (HQ) or Branch Office (BO)	Level of Service	@IP used by service
Single Call Server	No call server redundancy	<b>call server @IP</b>
Remote Site (RS)	Level of Service	@IP used by service
Remote site without survivability (IP Phones only)	No survivability, no trunk redundancy	N/A



## 4. Business Talk & BTIP certified versions

### 4.1. Global Release Policy

Orange supports the last 2 major IPBX versions and will ensure Business Talk and BTIP infrastructure evolutions will rightly interwork with the related architectures. Orange will assist customers running supported IPBX versions and facing issues.

Please refer to the latest Alcatel-Lucent 'OTSMB\_ReleasePolicyInfo\_March2020\_ed5.0.pdf' for more details about the supported versions.

### 4.2. Alcatel-Lucent Enterprise IPBX

ALE IPBX – software versions			
Reference product	Software version	Certification	Certified "Loads"
OXO Connect & OXO	4.0	✓	OXO040/025.001 GW_040/026.001 min
Connect Evolution	3.2	✓	OXO032/030.001 GW_032/029.001 min

### 4.3. Alcatel-Lucent Enterprise endpoints and applications

ALE IPBX - endpoints and applications					
	Reference product	Software version	Certification	OXO versions	Comments
Alcatel-Lucent endpoints	40x8, 80x8, 80x8s series 40x9, 80x9 series	NA	✓	all	
	4135, 4135S	NA	✓	all	
	82x2, 82x2s series xBS8378 IP-DECT	NA	✓	all	
	Rainbow WebRTC GW		✓	3.2 / 4.0	Embedded in OCE Stand-alone for OXO Connect
Third-party endpoints	<i>Others</i>		<i>On demand</i>		
Fax	Analog fax on OXO Connect (Z-x, SLI-x, MIX-x)	NA	✓	all	
	<i>Analog fax via Mediatix 4102</i>		✗		<i>not supported</i>
	<i>Analog fax via AudioCodes MP11x</i>		✗		<i>not supported</i>
enterprise SBC			<i>On demand</i>		Third party SBC

## 5. OXO Connect SIP trunking configuration checklist

The OXO Connect configuration guides and profiles for BTIP are provided by ALE (Refer to the Alcatel-Lucent Enterprise Business Portal) :

OXO Connect	Technical Bulletin	TC and SIP Trunk Profile references
NA	TC1284	- TC1284en-Ed93_OmniPCX_Office_Public_SIP_Trunking_Interoperability_and_Technical_SupportProcedure.pdf
3.2	TC2681	- TC2681en-Ed01_SIP_Trunk_Solution_Orange-BTIP(TopoA)_FR_Configuration_Guideline_for_OXO_Connect_ONE032.pdf - FR_Orange-BTIP_ONE032_SIP_edxx.spf
3.1	TC2666	- TC2666en-Ed02_SIP_Trunk_Solution_Orange-BTIP(TopoA)_FR_Configuration_Guideline_for_OXO_Connect_ONE031.pdf - FR_Orange-BTIP_ONE031_SIP_edxx.spf

### Notes :

- OXO Connect R3.2 and OXO Connect R4.0 share the same configuration guide and the same sip profile (cf TC1284)
- an internet access –*independent of BTIP/BTalk*- is fully recommended to connect the IPBX to the ALE Cloud Connect (ports 500/tcp and 4500/udp towards internet to be opened on the customer firewall)

## Glossary

- OXO : OmniPCX Office
- OCE : OXO Connect evolution (“ IP box ”)
- A-SBC : access Session Border Controller (Orange Business Services)
- C-SBC : customer or enterprise Session Border Controller (on customer side)
- BTIP : Business Talk IP (Orange Business Services – French market)
- BTalk : Business Talk (Orange Business Services – International market)
- MCO : Multi Connect Office
- AS : Application Server Business Talk / BTIP
- TP WAN : Third Party WAN (on customer side)
- BVPN : Business Virtual Private Network (Orange Business Services)
- CAC : Call Admission Control
- WebRTC GW : Rainbow WebRTC gateway