Technical Bulletin	OmniPCX Office

TC1284 ed.74   **All Releases**

Public SIP Trunking Interoperability and Technical Support procedure

This document describes the ALE process for the approval and support of public SIP Trunk solutions with the OmniPCX Office (OXO). The doc also updates the reference list of supported solutions.

Revision History

Edition 1: August 25, 2012	creation of the document.
Edition 2 to 73: up to 5th October 2018	previous updates.
Edition 74: 6th December 2018	last update.

Legal notice:

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1 SIP Trunks

The **Session Initiation Protocol (SIP)** is a signaling protocol widely used for controlling multimedia communication sessions such as voice and video calls over IP networks. Although SIP is based on a public standard (RFC 3261), the numerous features with variants and optional RFCs is propitious to interoperability issues between different SIP products.

A SIP trunk connection is available since OXO R5.0 for VoIP and FoIP calls with compatible gateways or PBX's. The feature also provides some basic call facilities like DTMF transmission, call forward, transfer, 3-party conference ...

2 ALE process in relation with public SIP Trunk solutions

2.1 Approval

A solution involving OXO and a Public SIP network must be approved by ALE thru a specific process intended to set up and validate the SIP interop perimeter proper to the solution. The validation is done in collaboration with ALE Business Partners by passing a suite of SIP tests and consolidating the end user operation on one or more pilot customer sites.

As a Business Partner, you can contact your ALE local representatives if you would like to help approving a new SIP provider. To get more detailed information, please send your request to sip-for-smb@al-enterprise.com.

2.2 Technical Support

The support of public SIP Trunks on the OmniPCX Office is restricted to the sole solutions listed in Ch.3 hereafter. Each of those approved solutions has a differentiated status grade (LA or GA) corresponding to a proper model of support delivered by ALE:

- **GA solutions (General Availability):** these solutions are approved for free deployment as of the specifications published by ALE in the dedicated configuration guide. **When the doc conditions are respected, technical assistance, expertise and bug correction are ensured by ALE following the standard policy and SLAs**. For an issue occurring during the valid period of support of the OXO SW release, a Business Partner must just open a normal Service Request indicating the name of the SIP Provider.

- **LA solutions (Limited Availability):** the pilot-site program which is required to reach the GA approval level of the solution is open but is either not achieved or not yet started. **The solution is therefore NOT open for free deployment on customer sites**. As a partner, you can contact our organization via email (sip-for-smb@al-enterprise.com) if you wish to join the pilot program or just want to be informed of its progress. **The LA support is then a specific assistance delivered for customer pilot-sites**. **The Pilot sites must have been identified and agreed by ALE before their installation**. During the pilot period (at least 4 weeks), the systems are monitored remotely by ALE and the associated Business Partner benefits of privileged access to ALE Technical Support resources.

To benefit of ALE support, a GA solution must respect the specified OXO release and the conditions of the ALE Configuration guide. However, when the GA solution is based on an old OXO Release which is not the current "Support Release" of the branch (e.g. R10.0, R10.1 or R10.2 in the branch R10.x and OXO Connect R2.0, R2.1 or R2.2 in the branch of OXO Connect R2.X and so on), then respecting the OXO release may present a practical issue:

- 1st case: the GA solution must be deployed on a new site. We recommend that you rather install the current "Support Release" of the branch (e.g. R10.3 for the branch of R10.x or OXO Connect R2.2 for the branch of OXO Connect R2.X).

- 2nd case: the GA solution has been running for a long period on a site. For maintenance reasons, you wish or need to upgrade OXO with the current "Support Release" of the branch (e.g. R10.3 for the branch of R10.x or OXO Connect R2.2 for the branch of OXO Connect R2.X).

Recommendation for these two situations:
First, check herein in the Ch.3 tables what is the status (GA or LA) given to the solution with the SIP Provider and the up-to-date OXO Release. If the status is GA, then you can deploy freely without additional constraint. If the status is LA and you decide to go to this configuration, then you must contact ALE before starting the solution as requested here above to get the dedicated LA support.

2.3 Reference resources

ALE publishes on its Web portal the reference resources associated to the supported SIP solutions:

- **For GA solutions**: a dedicated TC configuration guide (plus the associated GA SIP profile if OXO >= R10.0)
- **For LA (MA) solutions**: no configuration guides are delivered before the GA step. Since Feb. 2016, to facilitate setup and approval of SIP solutions with the most recent OXO releases, LA (**MA**) SIP profiles are also published under certain conditions. Presently, LA SIP profiles for OXO R10.3 or OXO Connect 2.x are provided for the SIP Providers which are already GA-approved on previous OXO releases. **Before using one of the LA (MA) SIP profiles for a Pilot site, you must however contact ALE as of the support conditions mentioned in the LA section of Ch. 2.2.**

Detailed information concerning the management of SIP Trunk Profiles is available in the Technical Bulletin TC1994 ("SIP EASY CONNECT: SIP Trunk Profile Import/Export").

3 ALE list of supported SIP Trunk solutions

The following tables give a reference status of the SIP Trunk solutions currently supported in LA or GA status. These tables are regularly updated with the last-approved Providers and adapted when necessary to the product's evolution (i.e. adding new OXO releases or clearing out those gone out of support.

GA solutions are noted with their TC ref. of configuration guide plus the applicable OXO release. LA solutions just mention the applicable OXO release.

Within a defined OXO Release Branch, the current support Release of the branch gains automatic LA status for a Provider whenever this Provider is GA-approved on a former release of the branch (see note in section 2.2).

Country	SIP Provider	Approval Type	Releases		
			Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
Andorra	Andorra Telecom	Limited Availability	● R10.3		● R3.0 (MA)
		General Availability		TC2452 (R2.X)	
Australia	Exetel	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	MyNetFone	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Optus	Limited Availability		● R2.2	● R3.0
		General Availability			
	Telstra	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2355 (R10.3)		
Austria	A 1	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	A 1 (Business VoIP)	Limited Availability			● R3.0 (MA)
		General Availability		TC2412 (R2.X)	
	A 1 (IP-SIP Trunk)	Limited Availability			
		General Availability		TC2411 (R2.X)	TC2497 (R3.0)
	A1 (METRO)	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2272 (R10.3)		
	IKB	Limited Availability		● R2.2	● R3.0
		General Availability			
	Net-Cloud	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			

Country	SIP Provider	Approval Type	Releases		
			Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
Austria	**TELE2** TELE 2	Limited Availability	● **R10.3 (MA)**	● **R2.2 (MA)**	● **R3.0 (MA)**
		General Availability	**TC2111 (R10.1)**		
Bahrain	kalaam Kalaam	Limited Availability		● **R2.2**	● **R3.0**
		General Availability			
Belgium	**3StarsNet** The telephony of tomorrow, today. 3Starsnet	Limited Availability	● **R10.3**	● **R2.2**	● **R3.0**
		General Availability			
	proximus Proximus (LAN-LAN/IP-VPN)	Limited Availability	● **R10.3**	● **R2.2**	● **R3.0**
		General Availability			
	proximus Proximus (Remote Hosted NAT)	Limited Availability	● **R10.3**	● **R2.2**	● **R3.0**
		General Availability			
Brazil	**vivo** Vivo	Limited Availability		● **R2.2**	● **R3.0**
		General Availability			
	Voitel Voitel	Limited Availability	● **R10.3 (MA)**	● **R2.2 (MA)**	● **R3.0 (MA)**
		General Availability	**TC2166 (R10.2)**		
Canada	*allstream* AllStream	Limited Availability	● **R10.3**	● **R2.2**	● **R3.0**
		General Availability			
	Bell Bell Canada	Limited Availability		● **R2.2 (MA)**	● **R3.0 (MA)**
		General Availability	**TC2300 (R10.3)**		
	IRISTEL Iristel	Limited Availability		● **R2.2**	● **R3.0**
		General Availability			
	TELENET Telenet	Limited Availability			● **R3.0 (MA)**
		General Availability	**TC2314 (R10.3)**	**TC2415 (R2.X)**	

Country	SIP Provider	Approval Type	Releases		
			Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
Canada	Teliphone	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
Colombia	Claro	Limited Availability		● R2.2	● R3.0
		General Availability			
Cyprus	Cyta	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Primetel	Limited Availability		● R2.2	● R3.0
		General Availability			
Denmark	Uni-Tel	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
El Salvador	Telefonica (movistar)	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
Finland	Fujitsu	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Line Carrier	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Telia	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
France	ABI Telecom	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Add-On	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2108 (R10.0) TC2282 (R10.3)		

Country	SIP Provider	Approval Type	Releases		
			Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
France	**Bretagne Telecom**	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Codepi	Limited Availability			● R3.0 **(MA)**
		General Availability	**TC2280 (R10.3)**	**TC2424 (R2.X)**	
	Colt (LAN-LAN/IP-VPN - TOPO A)	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Colt (Remote Hosted NAT-TOPO C)	Limited Availability			● R3.0 **(MA)**
		General Availability		**TC2512 (R2.X)**	
	Completel	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Coriolis	Limited Availability		● R2.2	● R3.0
		General Availability			
	Fingerprint	Limited Availability		● R2.2 **(MA)**	● R3.0 **(MA)**
		General Availability	**TC2408 (R10.3)**		
	Hexanet	Limited Availability	● R10.3 **(MA)**	● R2.2 **(MA)**	● R3.0 **(MA)**
		General Availability	**TC2042 (R10.0)**		
	Hexatel	Limited Availability		● R2.2 **(MA)**	● R3.0 **(MA)**
		General Availability	**TC2294 (R10.3)**		
	Jaguar	Limited Availability		● R2.2	● R3.0
		General Availability			
	Keyyo	Limited Availability			● R3.0 **(MA)**
		General Availability	**TC1996 ed3 (R10.0)** **TC2293 (R10.3)**	**TC2427 (R2.X)**	

Country	SIP Provider	Approval Type	Releases		
			Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
France	Legos	Limited Availability	● R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2127 (R10.1)		
	Leonix	Limited Availability			● R3.0 (MA)
		General Availability		TC2500 (R2.X)	
	Linker	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2520 (R10.3)		
	Linkt	Limited Availability			● R3.0 (MA)
		General Availability		TC2426 (R2.X)	
	Nerim	Limited Availability	● R10.3	● R2.2 (MA)	● R3.0 (MA)
		General Availability		TC2371 (R2.0)	
	Networth Telecom	Limited Availability	● R10.3		● R3.0 (MA)
		General Availability		TC2454 (R2.X)	
	NXO Telecom	Limited Availability			● R3.0 (MA)
		General Availability		TC2465 (R2.X)	
	OBS-Biv	Limited Availability	● R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2072 (R10.1) TC2214 (R10.2)		
	Oceanet Telecom	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	One Operateur (LAN-LAN/IP-VPN - TOPO A)	Limited Availability	● R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2152 (R10.2)		
	One Operateur (Remote Hosted NAT - TOPO C)	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
		General Availability		TC2359 (R2.0)	

Country	SIP Provider	Approval Type	Releases		
			Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
France	One Operateur (CENTILE)	Limited Availability		● R2.2	● R3.0
		General Availability			
	OpenIP	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2071 (R10.0) TC2100 (R10.1) TC2164 (R10.2) TC2238 (R10.3)		
	OPENIP (MyOPENIP)	Limited Availability			● R3.0 (MA)
		General Availability	TC2425 (R10.3)	TC2436 (R2.X)	
	OpenVNO (Alphalink)	Limited Availability	● R10.3 (MA)	● R2.2 (MA)	
		General Availability	TC2056 ed2 (R10.0) TC2204 (R10.2)	TC2370 (R2.0)	TC2522 (R3.0)
	OVH	Limited Availability			
		General Availability	TC2031 ed2 (R10.0) TC2148 (R10.2) TC2281 ed2 (R10.3)	TC2464 (R2.X)	TC2523 (R3.0)
	Serveurcom	Limited Availability			
		General Availability	TC2271 (R10.3)	TC2409 (R2.X)	TC2501 ed2 (R3.0)
	Sewan	Limited Availability		● R2.2 (MA)	
		General Availability	TC2397 (R10.3)	TC2356 (R2.0)	TC2498 (R3.0)
	SFR (LAN-LAN/IP-VPN-TOPO A)	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	SFR (Remote Hosted NAT-TOPO C)	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Synelyans	Limited Availability			● R3.0 (MA)
		General Availability	TC2088 ed2 (R10.0) TC2154 ed2 (R10.2) TC2259 (R10.3)	TC2451 (R2.X)	
	Telecom Object	Limited Availability			● R3.0 (MA)
		General Availability		TC2443 (R2.X)	

Country	SIP Provider	Approval Type	Releases		
			Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
Germany	**1&1 Versatel**	Limited Availability		● **R2.2**	● **R3.0**
		General Availability			
	BiTel	Limited Availability		● **R2.2**	● **R3.0**
		General Availability			
	Communication Concept	Limited Availability		● **R2.2**	● **R3.0**
		General Availability			
	Deutsche Telefon	Limited Availability		● **R2.2 (MA)**	● **R3.0 (MA)**
		General Availability	**TC2230 (R10.3)**		
	Deutsche Telekom DeutschlandLAN SIP Trunk	Limited Availability			
		General Availability	**TC2488 ed2 (R10.3)**	**TC2395 ed4 (R2.X)**	**TC2483 ed2 (R3.0)**
	Deutsche Telekom DLAN IP Voice/Data (Router with SIP-ALG-TOPO B)	Limited Availability		● **R2.2 (MA)**	● **R3.0 (MA)**
		General Availability	**TC2208 (R10.2) TC2237 (R10.3)**	**TC2284 (R2.0)**	
	Deutsche Telekom DLAN IP Voice/Data (Remote Hosted NAT-TOPO C)	Limited Availability		● **R2.2 (MA)**	● **R3.0 (MA)**
		General Availability	**TC2209 (R10.2) TC2245 (R10.3)**	**TC2327 (R2.0)**	
	Easybell	Limited Availability			
		General Availability		**TC2453 (R2.X)**	**TC2499 (R3.0)**
	Ecotel	Limited Availability		● **R2.2 (MA)**	● **R3.0 (MA)**
		General Availability	**TC2298 (R10.3)**		
	Ecotel Trunk 2.0	Limited Availability			● **R3.0 (MA)**
		General Availability	**TC2396 (R10.3)**	**TC2283 (R2.0) TC2405 (R2.X)**	
	Entega	Limited Availability		● **R2.2**	● **R3.0**
		General Availability			

Country	SIP Provider	Approval Type	Releases Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
Germany	EnviaTel	Limited Availability	● R10.3 (MA)		● R3.0 (MA)
		General Availability	TC2165 (R10.2)	TC2466 (R2.X)	
	Ewe Tel	Limited Availability		● R2.2	● R3.0
		General Availability			
	HFO Telecom	Limited Availability	● R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2174 (R10.2)		
	gnTel	Limited Availability		● R2.2	● R3.0
		General Availability			
	PŸUR (HL Komm) (Remote Hosted NAT-TOPO C)	Limited Availability	● R10.3 (MA)		● R3.0 (MA)
		General Availability	TC2022 (R10.0)	TC2467 (R2.X)	
	PŸUR (HL Komm) (Router with SIP-ALG -TOPO B)	Limited Availability			● R3.0 (MA)
		General Availability	TC2332 (R10.3)	TC2404 (R2.X)	
	ITK Connect	Limited Availability			● R3.0 (MA)
		General Availability		TC2440 (R2.X)	
	M-net	Limited Availability		● R2.2	
		General Availability			TC2525 (R3.0)
	NetCologne	Limited Availability		● R2.2	● R3.0
		General Availability			
	QSC	Limited Availability			● R3.0 (MA)
		General Availability	TC2279 (R10.3)	TC2292 (R2.0) TC2442 (R2.X)	
	Reventix	Limited Availability			
		General Availability	TC2297 (R10.3)	TC2358 (R2.0) TC2406 (R2.X)	TC2490 (R3.0)

Country	SIP Provider	Approval Type	Releases		
			Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
Germany	SIPgate	Limited Availability	● R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2189 (R10.2)		
	Soco	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2239 (R10.3)		
	Stadtwerke Rhede	Limited Availability		● R2.2	● R3.0
		General Availability			
	SWT Trilan (DDI)	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2216 (R10.3)		
	SWT Trilan (MSN)	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Vodafone	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2203 (R10.2) TC2217 (R10.3)		
	Voiceforce.one	Limited Availability		● R2.2	● R3.0
		General Availability			
Greece	Microbase (Ephone)	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	OTE	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2295 (R10.3)		
Guatemala	Claro	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Tigo	Limited Availability		● R2.2	● R3.0
		General Availability			

Country	SIP Provider	Approval Type	Releases		
			Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
Hong Kong	HKBN	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
Hungary	Ace Telecom	Limited Availability	● R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2125 (R10.1)		
	Ephone	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Intellicom	Limited Availability	● R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2055 (R10.0)		
	Magyar Telekom	Limited Availability		● R2.2	● R3.0
		General Availability			
India	Dhiraagu	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
Ireland	G7eleven	Limited Availability	● R10.3 (MA)		● R3.0 (MA)
		General Availability	TC2081 (R10.1)	TC2407 (R2.X)	
	Viatel	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2330 (R10.3)		
Italy	CloudItalia (with VPN MPLS)	Limited Availability	● R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2113 (R10.1)		
	CloudItalia (without VPN MPLS)	Limited Availability	● R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2218 (R10.2)		
	Colt	Limited Availability		● R2.2	● R3.0
		General Availability			

Country	SIP Provider	Approval Type	Releases		
			Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
Italy	Messagenet	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Planetel	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Redder	Limited Availability		● R2.2	● R3.0
		General Availability			
	Voipvoice	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	X-Stream	Limited Availability			● R3.0 (MA)
		General Availability	TC2299 (R10.3)	TC2357 (R2.0) TC2435 (R2.X)	
Kenya	Safaricom	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
Latvia	Lattelecom	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
Luxembourg	Telkea	Limited Availability		● R2.2	● R3.0
		General Availability			
Malaysia	Teletouch	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
Maldives	Dhiraagu	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
Morocco	Orange	Limited Availability		● R2.2	● R3.0
		General Availability			
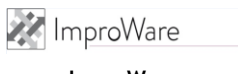
Country	SIP Provider	Approval Type	Releases		
			Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
Netherlands	ICTprovider	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2333 (R10.3)		
	Infopact	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	KPN	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	My-Connect	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Redworks	Limited Availability		● R2.2	● R3.0
		General Availability			
	RoutIT	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Sollie.Comm	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Sollie.comm (ViPro Services)	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2383 (R10.3)		
	Voiceworks	Limited Availability			● R3.0 (MA)
		General Availability	TC2153 (R10.2) TC2273 (R10.3)	TC2369 ed2 (R2.X)	
	Ziggo	Limited Availability	● R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2070 (R10.0)		
	Winitu Comm.	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			

Country	SIP Provider	Approval Type	Releases		
			Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
Netherlands	X2COM	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
New Zealand	Spark (TNZ)	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	WorldxChange	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
Norway	Altibox	Limited Availability	● R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2124 (R10.1)		
	Phonero	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Telenor (Remote Hosted NAT - TOPO C)	Limited Availability	● R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2172 (R10.1)		
	Telenor (OXO Static NAT - TOPO D)	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2173 (R10.1) TC2487 (R10.3)		
Portugal	Potugal Telecom	Limited Availability	● R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2107 (R10.1)		
	Vodafone	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2229 (R10.3)		
	VoIPPro	Limited Availability		● R2.2	● R3.0
		General Availability			
Qatar	Vodafone	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			

Country	SIP Provider	Approval Type	Releases		
			Branch RCE 10.X	**Branch OXO CONNECT R2.X**	**Branch OXO CONNECT R3.X**
Romania	RCS & RDS	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Romtelecom	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
Russia	Telphin	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
Saudi Arabia	GO Telecom	Limited Availability		● R2.2	● R3.0
		General Availability			
Serbia	Telekom Srbija	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Telenor	Limited Availability		● R2.2	● R3.0
		General Availability			
Singapore	M 1	Limited Availability	● R10.3 **(MA)**		● R3.0 **(MA)**
		General Availability	TC2099 (R10.1)	TC2434 (R2.X)	
	MyRepublic	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	NetPluz Asia	Limited Availability	● R10.3 **(MA)**	● R2.2 **(MA)**	● R3.0 **(MA)**
		General Availability	TC2112 (R10.1)		
	Starhub	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Telegate	Limited Availability		● R2.2	● R3.0
		General Availability			

Country	SIP Provider	Approval Type	Releases		
			Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
Slovakia	**Orange** Orange	Limited Availability	● R10.3 **(MA)**	● R2.2 **(MA)**	● R3.0 **(MA)**
		General Availability	TC2098 **(R10.1)**		
	Telekom Slovakia	Limited Availability		● R2.2 **(MA)**	● R3.0 **(MA)**
		General Availability	TC2441 **(R10.3)**		
South Africa	**VoxTelecom** (LAN-LAN/IP-VPN - TOPO A)	Limited Availability			● R3.0 **(MA)**
		General Availability	TC2079 **(R10.1)** TC2313 **(R10.3)**	TC2372 ed2 **(R2.X)**	
	VoxTelecom (Remote Hosted NAT - TOPO C)	Limited Availability	● R10.3 **(MA)**	● R2.2 **(MA)**	● R3.0 **(MA)**
		General Availability	TC2030 ed2 **(R10.0)**		
Spain	**colt** Colt (LAN-LAN/IP-VPN - TOPO A)	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	colt Colt (Remote Hosted NAT - TOPO C)	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	grupo universal Grupo Universal	Limited Availability			● R3.0 **(MA)**
		General Availability	TC2213 **(R10.2)** TC2228 **(R10.3)**	TC2489 **(R2.X)**	
	LCR.com LCR.com	Limited Availability			
		General Availability	TC2016 **(R10.0)** TC2082 **(R10.1)** TC2147 **(R10.2)** TC2224 **(R10.3)**	TC2260 **(R2.0)** TC2360 ed2 **(R2.X)**	TC2492 **(R3.0)**
	movistar Telefonica (movistar)	Limited Availability	● R10.3 **(MA)**	● R2.2 **(MA)**	● R3.0 **(MA)**
		General Availability	TC1997 **(R10.0)**		
	PREMIUM MAX Premium Max	Limited Availability	● R10.3 **(MA)**	● R2.2 **(MA)**	● R3.0 **(MA)**
		General Availability	TC2041 **(R10.0)**		
	SARENET Sarenet (Sarevoz)	Limited Availability		● R2.2 **(MA)**	● R3.0 **(MA)**
		General Availability	TC2240 **(R10.3)**		

Country	SIP Provider	Approval Type	Releases		
			Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
Spain	TBC	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2468 (R10.3)		
	Voz Telecom	Limited Availability	● R10.3 (MA)		● R3.0 (MA)
		General Availability	TC2090 (R10.1)	TC2410 (R2.X)	
	Zerovoz	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2270 (R10.3)		
Sweden	TDC	Limited Availability	● R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2043 (R10.0)		
	Telia (Sip Entry)	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2354 (R10.3)	TC2373 (R2.0)	
	TeliaSonera	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
Switzerland	E-fon	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	FL1.ch (ConVoip)	Limited Availability			● R3.0
		General Availability			
	ImproWare	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Iway.ch	Limited Availability		● R2.2	● R3.0
		General Availability			
	Peoplefone	Limited Availability	● R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2089 (R10.1)		

Country	SIP Provider	Approval Type	Releases		
			Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
Switzerland	SIPCall.Ch	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Sunrise	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2398 (R10.3)		
	Swisscom	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Ticino.com	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
		General Availability		TC2374 (R2.0)	
	UPC Cablecom	Limited Availability	● R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2168 (R10.2)		
Turkey	NetGSM	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Turk Telekom	Limited Availability		● R2.2	● R3.0
		General Availability			
UEA	Etisalat	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
Ukraine	DataGroup	Limited Availability		● R2.2	● R3.0
		General Availability			
United Kingdom	Colt	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Gamma (Router with SIP-ALG - TOPO B)	Limited Availability	● R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2215 (R10.2)		

Country	SIP Provider	Approval Type	Releases		
			Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
United Kingdom	**Gamma** (OXO Static NAT – TOPO D)	Limited Availability		● **R2.2 (MA)**	
		General Availability	**TC2126 (R10.1)** **TC2205 (R10.2)** **TC2331 (R10.3)**	**TC2296 (R2.0)**	**TC2491 (R3.0)**
	IceDigital	Limited Availability	● **R10.3**	● **R2.2**	● **R3.0**
		General Availability			
	Talk Talk	Limited Availability			
		General Availability		**TC2463 (R2.X)**	**TC2496 (R3.0)**
	Voiceflex	Limited Availability	● **R10.3 (MA)**	● **R2.2 (MA)**	
		General Availability	**TC2091 (R10.1)**	**TC2329 (R2.0)**	**TC2510 (R3.0)**
	VoiceHost	Limited Availability		● **R2.2**	● **R3.0**
		General Availability			
	VoipUnlimited	Limited Availability	● **R10.3**	● **R2.2**	● **R3.0**
		General Availability			
Uruguay	**Antel**	Limited Availability	● **R10.3**	● **R2.2**	● **R3.0**
		General Availability			
USA	**Access Point**	Limited Availability		● **R2.2**	● **R3.0**
		General Availability			
	Allo Comm.	Limited Availability	● **R10.3**	● **R2.2**	● **R3.0**
		General Availability			
	Appia	Limited Availability	● **R10.3**	● **R2.2**	● **R3.0**
		General Availability			
	ATC	Limited Availability	● **R10.3**	● **R2.2**	● **R3.0**
		General Availability			

Country	SIP Provider	Approval Type	Releases		
			Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
USA	Broadvox	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Century Link	Limited Availability		● R2.2	● R3.0
		General Availability			
	clearfly	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
		General Availability		TC2328 (R2.0)	
	Estech System Inc (ESI)	Limited Availability		● R2.2	● R3.0
		General Availability			
	Fusion	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Fusion 360°	Limited Availability		● R2.2	● R3.0
		General Availability			
	Inteliquent	Limited Availability		● R2.2	● R3.0
		General Availability			
	One Ring Networks	Limited Availability		● R2.2	● R3.0
		General Availability			
	Pinpoint	Limited Availability		● R2.2	● R3.0
		General Availability			
	Rise Broadband	Limited Availability	● R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2136 (R10.1)		
	Saddleback Comm.	Limited Availability		● R2.2	● R3.0
		General Availability			

Country	SIP Provider	Approval Type	Releases		
			Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
USA	**Securenet**	Limited Availability			● R3.0 **(MA)**
		General Availability		TC2511 (R2.X)	
	Shift 8	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	S-NET	Limited Availability		● R2.2	● R3.0
		General Availability			
	Sotel	Limited Availability			● R3.0 **(MA)**
		General Availability		TC2450 (R2.X)	
	Spectrum	Limited Availability		● R2.2	● R3.0
		General Availability			
	Time Warner	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	Windstream	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
Vietnam	**VNPT**	Limited Availability		● R2.2	● R3.0
		General Availability			

(MA) Migrated Availability, indicates that a Limited Availability R10.3 or Connect 2.x SIP Profile is available on the BP web site and you can readily use it for SIP trunk deployment. This Limited Availability SIP profile must be used together with the previous certified G.A Technical communication.

Any OXO sites you deploy with this L.A SIP Profile (there is no limit to the quantity of sites) are considered as Pilot sites. Therefore, please inform the SIP Technical support team (sip-for-smb@al-enterprise.com) about your site/s and they will monitor them on your behalf during the standard 4 week pilot period.

Note: L.A pilot site solutions comply with the same features and restrictions level that was previously certified in the G.A branch. This compatibility level is detailed in the associated G.A Technical communication.

Only if additional features or configuration changes are required on the L.A site but are not approved in the reference G.A Technical communication, will a limited test/trace phase need to be managed again in relation with the new changes.

4 Ongoing Projects

The following table gives a rough status of the approval projects that are being carried out.

Country	SIP Provider	Status
Australia	Mondo Talk	Tests in progress
Belgium	Intellinet	Task planned, tests not started yet
Canada	FGL Telecom	Tests in progress
France	Acropolis	Task planned, tests not started yet
	Axians	Tests in progress
	Next-Operateur	Task planned, tests not started yet
	Netiwan	Task planned, tests not started yet
	SCT Telecom	Tests in progress
	Synelyans (Flex)	Tests in progress
	Trinaps	Tests in progress
Germany	ETN Emslandtel.Net	Task planned, tests not started yet
	G-fit/Komro	Task planned, tests not started yet
	htp	Task planned, tests not started yet
	Inexio	Task planned, tests not started yet
	Stadtwerke Merseburg GmbH	Tests in progress
	Voiceworks	Tests in progress
Ghana	MTN	Tests in progress
Hungary	UPC	Tests in progress
India	Airtel	Task planned, tests not started yet
	Reliance	Task planned, tests not started yet
	Tata	Task planned, tests not started yet
Ireland	Welltel	Task planned, tests not started yet
Israel	Hot Telecom	Task planned, tests not started yet
Italy	Bell International	Tests in progress
Senegal	Orange Sonatel	Task planned, tests not started yet
Singapore	Singtel	Task planned, tests not started yet
Spain	Aire Networks	Task planned, tests not started yet
	Alisys	Tests in progress
Sweden	Tele2	Tests in progress
UK	British Telecom	Task planned, tests not started yet
	GCI	Task planned, tests not started yet
USA	CSpire	Tests in progress

5 Aborted Projects

The following Public Operators were in the scope, but the approval project was finally cancelled.

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Before submitting a Service Request, please be sure:

- The application has been certified via the AAPP if a third party application is involved.
- You have read the release notes that list new features, system requirements, restrictions, and more, and are available in the Technical Documentation Library.
- You have read through the related troubleshooting guides and technical bulletins available in the Technical Documentation Library.
- You have read through the self-service information on commonly asked support questions and known issues and workarounds available in the Technical Knowledge Center.

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