

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.

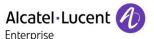
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1 SIP Trunks

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

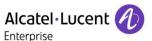
A solution involving OXO and a Public SIP network must be approved by ALE thru a specific process intended to set up and validate the SIP interop perimeter proper to the solution. The validation is done in collaboration with ALE Business Partners by passing a suite of SIP tests and consolidating the 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@alenterprise.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

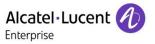
The following tables give a reference status of the SIP Trunk solutions currently supported in LA or GA status. These tables are regularly updated with the last-approved Providers and adapted when necessary to the product's evolution (i.e. adding new OXO releases or clearing out those gone out of support.



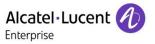
GA solutions are noted with their TC ref. of configuration guide plus the applicable OXO release. LA solutions just mention the applicable OXO release.



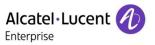
Within a defined OXO Release Branch, the current support Release of the branch gains automatic LA status for a Provider whenever this Provider is GA-approved on a former release of the branch (see note in section 2.2).



			Releases		
Country	SIP Provider	Approval Type	Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
Andorra	ANDORRA TELECOM	Limited Availability	● R10.3		● R3.0 (MA)
Andona	Andorra Telecom	General Availability		TC2452 (R2.X)	
	TM	Limited Availability	• R10.3	● R2.2	● R3.0
	exetel™ Exetel	General Availability			
	MyNetFone.	Limited Availability	● R10.3	● R2.2	● R3.0
Australia	Your World, Connected MyNetFone	General Availability			
Australia	OPTUS	Limited Availability		• R2.2	● R3.0
	OPTUS Optus	General Availability			
	Telstra	Limited Availability		● R2.2 (MA)	• R3.0 (MA)
		General Availability	TC2355 (R10.3)		
	A1	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	A 1	Limited Availability			• R3.0 (MA)
	A 1 (Business VolP)	General Availability		TC2412 (R2.X)	
	A1	Limited Availability			
Austria	A 1 (IP-SIP Trunk)	General Availability		TC2411 (R2.X)	TC2497 (R3.0)
Austria	A 1	Limited Availability		• R2.2 (MA)	• R3.0 (MA)
	A1 (METRO)	General Availability	TC2272 (R10.3)		
		Limited Availability		● R2.2	● R3.0
	4KB Eins für alle.	General Availability			
	not aloud	Limited Availability	● R10.3	● R2.2	● R3.0
	Ihr Partner für Cloud- und Teleionie-Services Net-Cloud	General Availability			



		Ammununi	Releases		
Country	SIP Provider	Approval Type	Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
Austria	TELE2	Limited Availability	• R10.3 (MA)	● R2.2 (MA)	• R3.0 (MA)
Austria	TELE 2	General Availability	TC2111 (R10.1)		
	CASK.	Limited Availability		● R2.2	● R3.0
Bahrain	kalaam Kalaam	General Availability			
	3 StarsNet	Limited Availability	● R10.3	● R2.2	● R3.0
	The telephony of tomorrow, today 3Starsnet	General Availability			
Belgium	pro∷imus	Limited Availability	● R10.3	• R2.2	● R3.0
Deigium	Proximus (LAN-LAN/IP-VPN)	General Availability			
	pro∷imus	Limited Availability	● R10.3	• R2.2	● R3.0
	Proximus (Remote Hosted NAT)	General Availability			
	Vivo	Limited Availability		• R2.2	● R3.0
Brazil		General Availability			
DIAZII	21-4-1	Limited Availability	● R10.3 (MA)	● R2.2 (MA)	• R3.0 (MA)
	Voite).	General Availability	TC2166 (R10.2)		
	allstream	Limited Availability	● R10.3	• R2.2	• R3.0
	AllStream	General Availability			
	Rall	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
Canada	Bell Canada	General Availability	TC2300 (R10.3)		
		Limited Availability		● R2.2	● R3.0
	IRISTEL Iristel	General Availability			
	TËLËNET	Limited Availability			• R3.0 (MA)
	Telenet	General Availability	TC2314 (R10.3)	TC2415 (R2.X)	



	CIP	Ammayal		Releases	
Country	SIP Provider	Approval Type	Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
Canada	téliPhone	Limited Availability	● R10.3	● R2.2	● R3.0
Canada	Teliphone	General Availability			
Colombia	Claro-	Limited Availability		● R2.2	● R3.0
Colonibia	Claro	General Availability			
	Cyta	Limited Availability	• R10.3	● R2.2	● R3.0
Cuprus	Cyta	General Availability			
Cyprus	PRIMETEL	Limited Availability		● R2.2	● R3.0
	Primetel	General Availability			
Denmark	ı nital	Limited Availability	● R10.3	● R2.2	● R3.0
Defilliark	Uni-Tel	General Availability			
El Salvador	movistar Telefonica (movistar)	Limited Availability	• R10.3	● R2.2	● R3.0
Li Salvadoi		General Availability			
	FUÏITSU	Limited Availability	• R10.3	● R2.2	● R3.0
	Fujitsu	General Availability			
Finland	Line Carrier Ov	Limited Availability	• R10.3	● R2.2	● R3.0
Finland	TELEOPERAATTORI Line Carrier	General Availability			
	? Telia	Limited Availability	• R10.3	● R2.2	● R3.0
	Telia	General Availability			
	"L:	Limited Availability	● R10.3	● R2.2	● R3.0
F	ABI Telecom	General Availability			
France	ADD	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
	TELECOM Add-On	General Availability	TC2108 (R10.0) TC2282 (R10.3)		



	CID	Ammental		Releases	
Country	SIP Provider	Approval Type	Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
	Bretagnetélécom	Limited Availability	• R10.3	• R2.2	● R3.0
	Bretagne Telecom	General Availability			
	codepi	Limited Availability			• R3.0 (MA)
	Operateur Telecom	General Availability	TC2280 (R10.3)	TC2424 (R2.X)	
	colt	Limited Availability	• R10.3	● R2.2	● R3.0
	Colt (LAN-LAN/IP-VPN - TOPO A)	General Availability			
	colt	Limited Availability			● R3.0 (MA)
	Colt (Remote Hosted NAT-TOPO C)	General Availability		TC2512 (R2.X)	
	Completel	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
_	Coriolis Telecom Coriolis	Limited Availability		● R2.2	● R3.0
France		General Availability			
	fingerprint technologies Fingerprint	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2408 (R10.3)		
	and the same of th	Limited Availability	● R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
	Hexanet	General Availability	TC2042 (R10.0)		
	Hexatel	Limited Availability		● R2.2 (MA)	• R3.0 (MA)
	Hexatel	General Availability	TC2294 (R10.3)		
		Limited Availability		● R2.2	● R3.0
	network Leading your performance Jaguar	General Availability			
		Limited Availability			● R3.0 (MA)
	COMMUNICATIONS Keyyo	General Availability	TC1996 ed3 (R10.0) TC2293 (R10.3)	TC2427 (R2.X)	



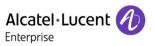
			Releases		
Country	SIP Provider	Approval Type	Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
	Legos	Limited Availability	• R10.3 (MA)	● R2.2 (MA)	• R3.0 (MA)
	Legos	General Availability	TC2127 (R10.1)		
	21 - 21 1111/	Limited Availability			● R3.0 (MA)
	TOLYOUS DISCOULE Leonix	General Availability		TC2500 (R2.X)	
	linkersip	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
	Linker	General Availability	TC2520 (R10.3)		
	Linkt	Limited Availability			● R3.0 (MA)
	Linkt	General Availability		TC2426 (R2.X)	
	://erim	Limited Availability	• R10.3	● R2.2 (MA)	● R3.0 (MA)
		General Availability		TC2371 (R2.0)	
F	Networth Telecom	Limited Availability	• R10.3		● R3.0 (MA)
France		General Availability		TC2454 (R2.X)	
	NXO Telecom	Limited Availability			● R3.0 (MA)
		General Availability		TC2465 (R2.X)	
	Business	Limited Availability	• R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
	orange Services OBS-Biv	General Availability	TC2072 (R10.1) TC2214 (R10.2)		
	OCEANET	Limited Availability	• R10.3	● R2.2	● R3.0
	Oceanet Telecom	General Availability			
	ONE OPERATE NO	Limited Availability	• R10.3 (MA)	● R2.2 (MA)	• R3.0 (MA)
	ONE OPERATEUR One Operateur (LAN-LAN/IP-VPN - TOPO A)	General Availability	TC2152 (R10.2)		
	ONE OPERATEUR	Limited Availability		● R2.2 (MA)	• R3.0 (MA)
	One Operateur (Remote Hosted NAT - TOPO C)	General Availability		TC2359 (R2.0)	



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



	CID	A		Releases	
Country	SIP Provider	Approval Type	Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
	1&1 versatel	Limited Availability		● R2.2	● R3.0
	181 Versatel	General Availability			
	PITOL	Limited Availability		● R2.2	● R3.0
	BITE	General Availability			
	C COMMUNICATION CONCEPT	Limited Availability		● R2.2	● R3.0
	Communication Concept	General Availability			
	Deutsche Telefon	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
	Deutsche Telefon	General Availability	TC2230 (R10.3)		
	т	Limited Availability			
	Deutsche Telekom DeutschlandLAN SIP Trunk	General Availability	TC2488 ed2 (R10.3)	TC2395 ed4 (R2.X)	TC2483 ed2 (R3.0)
	T	Limited Availability		• R2.2 (MA)	● R3.0 (MA)
Germany	Deutsche Telekom DLAN IP Voice/Data (Router with SIP-ALG-TOPO B)	General Availability	TC2208 (R10.2) TC2237 (R10.3)	TC2284 (R2.0)	
	T	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
	Deutsche Telekom DLAN IP Voice/Data (Remote Hosted NAT-TOPO C)	General Availability	TC2209 (R10.2) TC2245 (R10.3)	TC2327 (R2.0)	
	oacyboll	Limited Availability			
	easybell Easybell	General Availability		TC2453 (R2.X)	TC2499 (R3.0)
	_ecotel*	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
	• all around communication Ecotel	General Availability	TC2298 (R10.3)		
	_ecotel*	Limited Availability			• R3.0 (MA)
	Ecotel Trunk 2.0	General Availability	TC2396 (R10.3)	TC2283 (R2.0) TC2405 (R2.X)	
	entega	Limited Availability		● R2.2	● R3.0
	Entega	General Availability			



	CID			Releases	
Country	SIP Provider	Approval Type	Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
	envia TEL	Limited Availability	• R10.3 (MA)		• R3.0 (MA)
	EnviaTel	General Availability	TC2165 (R10.2)	TC2466 (R2.X)	
	EWE	Limited Availability		● R2.2	● R3.0
	Ewe Tel	General Availability			
	Q UEN Tolonom	Limited Availability	• R10.3 (MA)	● R2.2 (MA)	• R3.0 (MA)
	HFO Telecom	General Availability	TC2174 (R10.2)		
	gnTel	Limited Availability		• R2.2	● R3.0
	gnTel	General Availability			
	PŸUR 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 PŸUR (HL Komm) (Router with SIP-ALG -TOPO B)	Limited Availability			● R3.0 (MA)
Germany		General Availability	TC2332 (R10.3)	TC2404 (R2.X)	
	NetSolutions GmbH ITK Connect	Limited Availability			● R3.0 (MA)
		General Availability		TC2440 (R2.X)	
	W -net	Limited Availability		● R2.2	
	Mein Netz M-net	General Availability			TC2525 (R3.0)
	NETCOLOGNE	Limited Availability		● R2.2	● R3.0
	NetCologne	General Availability			
	QSC _{AG}	Limited Availability			● R3.0 (MA)
	QSC	General Availability	TC2279 (R10.3)	TC2292 (R2.0) TC2442 (R2.X)	
	reventix [⊗]	Limited Availability			
	einfach. clever. verbunden. Reventix	General Availability	TC2297 (R10.3)	TC2358 (R2.0) TC2406 (R2.X)	TC2490 (R3.0)



	CID		Releases		
Country	SIP Provider	Approval Type	Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
	!!! sipgate	Limited Availability	• R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
	SIPgate	General Availability	TC2189 (R10.2)		
	Co Co	Limited Availability		● R2.2 (MA)	• R3.0 (MA)
	NETWORK SOLUTIONS SOCO	General Availability	TC2239 (R10.3)		
	Stadtwerke Rhede	Limited Availability		• R2.2	● R3.0
	Stadtwerke Rhede	General Availability			
Carmanu	/sw T	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
Germany	SWT trilan GmbH SWT Trilan (DDI)	General Availability	TC2216 (R10.3)		
	I SWT	Limited Availability	• R10.3	• R2.2	● R3.0
	SWT trilan GmbH SWT Trilan (MSN)	General Availability			
	(6)	Limited Availability		● R2.2 (MA)	• R3.0 (MA)
	vodafone Vodafone	General Availability	TC2203 (R10.2) TC2217 (R10.3)		
	202	Limited Availability		• R2.2	● R3.0
	voiceforce.one Voiceforce.one	General Availability			
	1	Limited Availability	● R10.3	● R2.2	● R3.0
Carre	Microbase (Ephone)	General Availability			
Greece	ОТЕ	Limited Availability		• R2.2 (MA)	• R3.0 (MA)
	OTE	General Availability	TC2295 (R10.3)		
	Claro-	Limited Availability	• R10.3	● R2.2	● R3.0
Customala	Claro	General Availability			
Guatemala	tiçô	Limited Availability		● R2.2	● R3.0
	Tigo	General Availability			



	CID		Releases		
Country	SIP Provider	Approval Type	Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
Hong Kong	香港電頻	Limited Availability	• R10.3	● R2.2	● R3.0
Tiong Kong	HONG KONG BROADBAND NETWORK HKBN	General Availability			
	● 9C6	Limited Availability	• R10.3 (MA)	• R2.2 (MA)	• R3.0 (MA)
	telecom Ace Telecom	General Availability	TC2125 (R10.1)		
	Cephone.hu	Limited Availability	● R10.3	● R2.2	● R3.0
Hungary	Ephone	General Availability			
Hungar y	lana Wasan	Limited Availability	● R10.3 (MA)	• R2.2 (MA)	● R3.0 (MA)
	Intellicom Intellicom	General Availability	TC2055 (R10.0)		
	Т	Limited Availability		● R2.2	• R3.0
	Magyar Telekom	General Availability			
India	Dhiraagu	Limited Availability	• R10.3	● R2.2	• R3.0
IIIuia		General Availability			
	G7ELEVEN	Limited Availability	● R10.3 (MA)		● R3.0 (MA)
Ireland	G7eleven	General Availability	TC2081 (R10.1)	TC2407 (R2.X)	
lielaliu	₹Viatel	Limited Availability		• R2.2 (MA)	• R3.0 (MA)
	Viatel	General Availability	TC2330 (R10.3)		
	%%%% 6000000000000000000000000000000000	Limited Availability	• R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
	CLOUDITALIA CloudItalia (with VPN MPLS)	General Availability	TC2113 (R10.1)		
Italy	%%°0%	Limited Availability	● R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
icaly	CloudItalia (without VPN MPLS)	General Availability	TC2218 (R10.2)		
	colt	Limited Availability		● R2.2	● R3.0
	colt	General Availability			



			Releases		
Country	SIP Provider	Approval Type	Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
		Limited Availability	• R10.3	● R2.2	● R3.0
	MESSAGENET™ Messagenet	General Availability			
	Planetel	Limited Availability	● R10.3	● R2.2	● R3.0
	Planetel	General Availability			
lén lu	DENED	Limited Availability		● R2.2	• R3.0
Italy	REDER Redder	General Availability			
	O Vojo Vojce	Limited Availability	• R10.3	● R2.2	• R3.0
	Voipvoice	General Availability			
	(Xtroam [®]	Limited Availability			• R3.0 (MA)
	business communication X-Stream	General Availability	TC2299 (R10.3)	TC2357 (R2.0) TC2435 (R2.X)	
Konya		Limited Availability	• R10.3	● R2.2	• R3.0
Kenya	Safaricom Safaricom	General Availability			
l atuia	la com	Limited Availability	• R10.3	● R2.2	● R3.0
Latvia	Lattelecom	General Availability			
Lucembaum	T-117	Limited Availability		● R2.2	● R3.0
Luxembourg	Telkea	General Availability			
Malayeia	ToloTo	Limited Availability	• R10.3	● R2.2	● R3.0
Malaysia	TeleTouch Teletouch	General Availability			
Maldivos	*	Limited Availability	• R10.3	● R2.2	● R3.0
Maldives	Dhiraagu	General Availability			
Maria		Limited Availability		● R2.2	● R3.0
Morocco	orange Orange	General Availability			



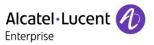
	CID			Releases	
Country	SIP Provider	Approval Type	Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
	ICTIN	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
	provider ICTprovider	General Availability	TC2333 (R10.3)		
	infopact 🗞	Limited Availability	● R10.3	● R2.2	● R3.0
	netwerk a communicatie Infopact	General Availability			
	№ kpn	Limited Availability	● R10.3	● R2.2	● R3.0
	KPN	General Availability			
		Limited Availability	● R10.3	● R2.2	● R3.0
	My-Connect	General Availability			
	@ redworks	Limited Availability		• R2.2	● R3.0
		General Availability			
Netherlands	Rout/T	Limited Availability	● R10.3	● R2.2	● R3.0
Netrier tarius		General Availability			
	S a U	Limited Availability	● R10.3	● R2.2	● R3.0
	Sollie Comm	General Availability			
	Sollie Comm	Limited Availability		• R2.2 (MA)	• R3.0 (MA)
	Sollie.comm (ViPro Services)	General Availability	TC2383 (R10.3)		
	5	Limited Availability			• R3.0 (MA)
	voiceworks Voiceworks ZIGGO Ziggo	General Availability	TC2153 (R10.2) TC2273 (R10.3)	TC2369 ed2 (R2.X)	
		Limited Availability	● R10.3 (MA)	• R2.2 (MA)	• R3.0 (MA)
		General Availability	TC2070 (R10.0)		
	(I) winitu	Limited Availability	● R10.3	● R2.2	● R3.0
	COMMUNICATIONS Winitu Comm.	General Availability			



	CID	A		Releases	
Country	SIP Provider	Approval Type	Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
Netherlands		Limited Availability	• R10.3	● R2.2	● R3.0
rectici tarias	X2COM	General Availability			
	Spark Digital	Limited Availability	● R10.3	● R2.2	● R3.0
New Zealand	Spark (TNZ)	General Availability			
New Zealand	WXC	Limited Availability	● R10.3	● R2.2	● R3.0
	COMMUNICATIONS WorldxChange	General Availability			
	altibox	Limited Availability	• R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
	altibox	General Availability	TC2124 (R10.1)		
	Phonero Phonero telenor group Telenor (Remote Hosted NAT - TOPO C) telenor	Limited Availability	• R10.3	● R2.2	● R3.0
Norway		General Availability			
ivoi way		Limited Availability	• R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2172 (R10.1)		
		Limited Availability		• R2.2 (MA)	● R3.0 (MA)
	Telenor (OXO Static NAT - TOPO D)	General Availability	TC2173 (R10.1) TC2487 (R10.3)		
		Limited Availability	• R10.3 (MA)	• R2.2 (MA)	• R3.0 (MA)
	Potugal Telecom	General Availability	TC2107 (R10.1)		
Portugal	6	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
loitugat	Volppro Wholesale voip Volppro	General Availability	TC2229 (R10.3)		
		Limited Availability		● R2.2	● R3.0
		General Availability			
Qatar	6	Limited Availability	● R10.3	● R2.2	● R3.0
Quiui	vodafone Vodafone	General Availability			



				Releases	
Country	SIP Provider	Approval Type	Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
	rds	Limited Availability	● R10.3	● R2.2	● R3.0
Romania	communications RCS & RDS	General Availability			
Komama	ROMTELECOM 2	Limited Availability	● R10.3	● R2.2	● R3.0
	business solutions Romtelecom	General Availability			
Russia	Telphin	Limited Availability	● R10.3	● R2.2	● R3.0
Kussia	Telphin	General Availability			
Saudi Arabia	96	Limited Availability		● R2.2	● R3.0
Jaudi Al abia	GO Telecom	General Availability			
	Tolokom Crhiia	Limited Availability	● R10.3	● R2.2	● R3.0
Serbia	Telekom Srbija	General Availability			
Serbia	telenor group	Limited Availability		● R2.2	● R3.0
		General Availability			
	m	Limited Availability	• R10.3 (MA)		● R3.0 (MA)
	M 1	General Availability	TC2099 (R10.1)	TC2434 (R2.X)	
	₩ MyRepublic	Limited Availability	● R10.3	● R2.2	● R3.0
	MyRepublic	General Availability			
Singapore	\boxtimes	Limited Availability	• R10.3 (MA)	• R2.2 (MA)	• R3.0 (MA)
Jiligapore	NetPluz Asia	General Availability	TC2112 (R10.1)		
	,	Limited Availability	● R10.3	● R2.2	● R3.0
	★StarHub Starhub	General Availability			
	Telegate	Limited Availability		● R2.2	● R3.0
	Telegate	General Availability			



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



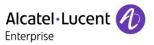
	CID	A		Releases	
Country	SIP Provider	Approval Type	Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
	TBC	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2468 (R10.3)		
Spain	< VozTele com	Limited Availability	• R10.3 (MA)		● R3.0 (MA)
Spani	Voz Telecom	General Availability	TC2090 (R10.1)	TC2410 (R2.X)	
	0.70(0)(0.7	Limited Availability		● R2.2 (MA)	● R3.0 (MA)
	Zerovoz	General Availability	TC2270 (R10.3)		
	TDC	Limited Availability	• R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
	TDC	General Availability	TC2043 (R10.0)		
Sweden	Tolio Conoro	Limited Availability		● R2.2 (MA)	• R3.0 (MA)
Sweden	Telia (Sip Entry)	General Availability	TC2354 (R10.3)	TC2373 (R2.0)	
	TeliaSonera TeliaSonera	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
	e-fon	Limited Availability	● R10.3	● R2.2	● R3.0
	E-fon	General Availability			
		Limited Availability			● R3.0
	FL1.ch (ConVoip)	General Availability			
Switzerland		Limited Availability	● R10.3	● R2.2	● R3.0
SWILZEI IAIIU	ImproWare ImproWare	General Availability			
		Limited Availability		● R2.2	● R3.0
	iWoy.ch	General Availability			
	noonlofono	Limited Availability	• R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
	peoplefone Peoplefone	General Availability	TC2089 (R10.1)		



	CID			Releases	
Country	SIP Provider	Approval Type	Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
	sipcall	Limited Availability	● R10.3	● R2.2	● R3.0
	SIPCall.Ch	General Availability			
	Business Sunrise	Limited Availability		• R2.2 (MA)	• R3.0 (MA)
	Sunrise	General Availability	TC2398 (R10.3)		
Switzerland	4	Limited Availability	● R10.3	● R2.2	• R3.0
Switzerland	swisscom Swisscom	General Availability			
	O ticino com	Limited Availability		● R2.2 (MA)	• R3.0 (MA)
	Ticino.com	General Availability		TC2374 (R2.0)	
	upc cablecom business UPC Cablecom	Limited Availability	● R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2168 (R10.2)		
	NetGSM Türk Telekom	Limited Availability	● R10.3	● R2.2	• R3.0
Turkey		General Availability			
luikey		Limited Availability		• R2.2	● R3.0
	Turk Telekom	General Availability			
UEA		Limited Availability	● R10.3	• R2.2	● R3.0
OLA	etisalat Etisalat	General Availability			
Ukraine		Limited Availability		● R2.2	● R3.0
OKIGIIIE	G R O U P DataGroup	General Availability			
	colt	Limited Availability	● R10.3	● R2.2	● R3.0
United	Colt	General Availability			
Kingdom	• Gamma	Limited Availability	● R10.3 (MA)	● R2.2 (MA)	● R3.0 (MA)
	Gamma (Router with SIP-ALG - TOPO B)	General Availability	TC2215 (R10.2)		



	CID	Annuaral		Releases	
Country	SIP Provider	Approval Type	Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
	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)
		Limited Availability	● R10.3	● R2.2	● R3.0
	icedigital.co.uk IceDigital	General Availability			
	TalkTalk	Limited Availability			
United	Business Talk Talk	General Availability		TC2463 (R2.X)	TC2496 (R3.0)
Kingdom		Limited Availability	• R10.3 (MA)	• R2.2 (MA)	
	Voiceflex ™ Voiceflex	General Availability	TC2091 (R10.1)	TC2329 (R2.0)	TC2510 (R3.0)
	VoiceHost Advanced Telecommunications VoiceHost	Limited Availability		● R2.2	● R3.0
		General Availability			
	VolPunlimited VoipUnlimited	Limited Availability	● R10.3	● R2.2	● R3.0
		General Availability			
Uruguay	antol	Limited Availability	● R10.3	● R2.2	● R3.0
Oruguay	antel	General Availability			
	A COURSE Defin IT	Limited Availability		● R2.2	● R3.0
	ACCESS POINT Access Point	General Availability			
	USA Allo Comm. appia Appia	Limited Availability	• R10.3	● R2.2	● R3.0
LICA		General Availability			
USA		Limited Availability	• R10.3	● R2.2	● R3.0
		General Availability			
	American Telephone	Limited Availability	• R10.3	● R2.2	● R3.0
	ATC	General Availability			



	CID			Releases	
Country	SIP Provider	Approval Type	Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
	✓ Broadvox**	Limited Availability	• R10.3	● R2.2	● R3.0
	EXPERIENCE MATTERS. Broadvox	General Availability			
	ATA ^{ID}	Limited Availability		• R2.2	● R3.0
	Century Link ™	General Availability			
		Limited Availability		● R2.2 (MA)	● R3.0 (MA)
	clearfly Clearfly	General Availability		TC2328 (R2.0)	
	(esi)	Limited Availability		• R2.2	● R3.0
	Estech System Inc (ESI)	General Availability			
	fusion Fusion	Limited Availability	● R10.3	• R2.2	● R3.0
		General Availability			
USA	fusion 360°	Limited Availability		● R2.2	● R3.0
USA		General Availability			
	iQ	Limited Availability		• R2.2	● R3.0
	inteliquent Inteliquent	General Availability			
		Limited Availability		• R2.2	● R3.0
	ONE RING NETWORKS One Ring Networks	General Availability			
	Dinpsint	Limited Availability		● R2.2	● R3.0
	Pinpoint	General Availability			
	Rise Broadband	Limited Availability	• R10.3 (MA)	• R2.2 (MA)	● R3.0 (MA)
		General Availability	TC2136 (R10.1)		
	Saddleback communications	Limited Availability		● R2.2	● R3.0
	COMMUNICATIONS Saddleback Comm.	General Availability			



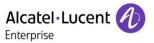
	212			Releases	
Country	SIP Provider	Approval Type	Branch RCE 10.X	Branch OXO CONNECT R2.X	Branch OXO CONNECT R3.X
	SECURENETMD*	Limited Availability			● R3.0 (MA)
	HEALTHCARE TECHNOLOGY SOLUTIONS Securenet	General Availability		TC2511 (R2.X)	
	hift ⁸ Networks	Limited Availability	• R10.3	● R2.2	● R3.0
	Networks Shift 8	General Availability			
	s-net	Limited Availability		● R2.2	● R3.0
	S-NET	General Availability			
USA	Sotel Spectrum	Limited Availability			● R3.0 (MA)
USA		General Availability		TC2450 (R2.X)	
		Limited Availability		● R2.2	● R3.0
	BUSINESS Spectrum	General Availability			
		Limited Availability	• R10.3	● R2.2	● R3.0
	Time Warner	General Availability			
	windstream. Windstream	Limited Availability	• R10.3	● R2.2	● R3.0
		General Availability			
Vietnam		Limited Availability		● R2.2	● R3.0
y letilalli	VN PT VNPT	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.

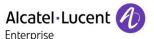


4 Ongoing Projects

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

		21.1
Country	SIP Provider	Status
Australia	Mondo Talk	Tests in progress
Belgium	Intellinet	Task planned, tests not started yet
Canada	FGL Telecom	Tests in progress
	Acropolis	Task planned, tests not started yet
	Axians	Tests in progress
	Next-Operateur	Task planned, tests not started yet
France	Netiwan	Task planned, tests not started yet
	SCT Telecom	Tests in progress
	Synelyans (Flex)	Tests in progress
	Trinaps	Tests in progress
	ETN Emslandtel.Net	Task planned, tests not started yet
	G-fit/Komro	Task planned, tests not started yet
Germany	htp	Task planned, tests not started yet
Germany	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
	Airtel	Task planned, tests not started yet
India	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
UK	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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Submitting a Service Request

Please connect to our eService Request application.

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 <u>Technical Documentation Library</u>.
- 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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