

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 OXO Connect & OXO Connect Evolution. The doc also updates the reference list of supported solutions.

Revision History

Edition 1: August 25, 2012	creation of the document.
Edition 2 to 128: up to 30 th November 2023	previous updates.
Edition 129: 29 th December 2023	last update.

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Table of contents

1 SIP Trunks.....	3
2 ALE process in relation with public SIP Trunk solutions.....	3
2.1 Approval.....	3
2.2 Technical Support	3
2.3 Reference resources.....	4
3 ALE list of supported SIP Trunk solutions.....	5
4 Phased out Releases – GA solutions	37
5 Ongoing Projects.....	47
6 Aborted Projects	48

1 SIP Trunks

The **Session Initiation Protocol (SIP)** is a signalling 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 R5.2 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 OXO Connect and OXO Connect Evolution, is restricted to the sole solutions listed in Ch.3 hereafter. Each of those approved solutions has a differentiated status grade (LA, MA 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/MA solutions (Limited Availability/Migrated 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/MA 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. OXO Connect R3.0, R3.1 in the branch of OXO Connect R3.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. OXO Connect R3.2 in the branch of OXO Connect R3. and so on).
- 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. OXO Connect R3.2 in the branch of OXO Connect R3.X and so on).

Recommendation for these two situations:

First, check herein in the Ch.3 tables what is the status (GA or LA/MA) 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/MA 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 /MA 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 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, **MA** SIP profiles are also published under certain conditions. Presently, MA SIP profiles OXO Connect R3.x, R4.0, R5.x or Connect R6.x are provided for the SIP Providers which are already GA-approved on previous OXO releases (Use the corresponding Conf. Guide TC). **Before using one of the MA SIP profiles for a Pilot site, you must however contact ALE as of the support conditions mentioned in the LA/MA section of Ch. 2.2.**
- **For LA solutions:** no configuration guides are delivered before the GA step. **For a Pilot site, you must contact ALE as of the support conditions mentioned in the LA/MA 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/MA 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. Or only the applicable release, in case of automatic GA report (whenever possible) in the next release(s). The TC configuration guide to use, is then the most recent release one having a TC ref.



MA solutions mention the OXO release applicable SIP profile. The TC configuration guide to use, is then the most recent GA release one having a TC ref.
LA solutions just mention the applicable OXO release.



OXO Connect R3.2, R4.0, R5.2 and OXO Connect R6.0 share the same TC Configuration guide and the same sip profile.
Therefore for ie you can use OXO Connect R3.2, R4.0 or R5.2 inputs for OXO Connect R6.0 deployment.

Country	SIP Provider	Approval Type	Reference TC's	Releases		
				Branch OXO CONNECT R4.0	Branch OXO CONNECT R5.X	Branch OXO CONNECT R6.X
Albania	 ALBtelecom Albanian Telecom	Limited Availability			● R5.2	● R6.0
		General Availability				
	 vodafone Vodafone	Limited Availability			● R5.2	● R6.0
		General Availability				
Andorra	 ANDORRA TELECOM Andorra Telecom	Limited Availability				
		General Availability	TC2777 (R4.0)	● R4.0	● R5.2	● R6.0
Argentina	 TELECOM Telecom Argentina	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
Australia	 Exetel	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 iBOSS iBoss	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 MyNetFone Your World, Connected MyNetFone	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 OPTUS Optus	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Telstra	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
Austria	 4 Telecom Services	Limited Availability				
		General Availability	TC2774 (R3.1)	● R4.0	● R5.2	● R6.0
	 A 1	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				

		Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
A 1 (Business VoIP)		General Availability				
		Limited Availability				
A 1 (IP-SIP Trunk)		General Availability	TC3044 (R5.2)	● R4.0	● R5.2	● R6.0
		Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
A1 (METRO)		General Availability				
		Limited Availability				
INFO TECH [IT & Communication] Infotech		General Availability	TC3084 (R6.0)			● R6.0
		Limited Availability		● R4.0	● R5.2	● R6.0
IKB Eins für alle. IKB		General Availability				
		Limited Availability		● R4.0	● R5.2	● R6.0
Inntelco		General Availability				
		Limited Availability				
NeoTel Business Trunk		General Availability	TC2676 (R3.2)	● R4.0	● R5.2	● R6.0
		Limited Availability				
NeoTel Private SIP Trunk		General Availability	TC2677 (R3.2)	● R4.0	● R5.2	● R6.0
		Limited Availability		● R4.0	● R5.2	● R6.0
Net-Cloud		General Availability				
		Limited Availability				
Next Layer		General Availability	TC2766 (R4.0)	● R4.0	● R5.2	● R6.0
		Limited Availability				
NFON		General Availability	TC3023 (R5.2)		● R5.2	● R6.0
		Limited Availability			● R5.2	● R6.0
Riepert		General Availability				
		Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
TELE 2		General Availability				

	 Telefon&co	Limited Availability				● R6.0
		General Availability				
	 UPC	Limited Availability				
		General Availability	TC2678 (R3.2)	● R4.0	● R5.2	● R6.0
Bahrain	 Batelco	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Kalaam	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
Belgium	 3Starsnet	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Intellinet	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Ipsys	Limited Availability				
		General Availability	TC2972 (R5.0)		● R5.2	● R6.0
	 Orange	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Proximus (LAN-LAN/IP-VPN)	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Proximus (Router with SIP-ALG-TOPO B)	Limited Availability				
		General Availability	TC2882 (R4.0)	● R4.0	● R5.2	● R6.0
	 Proximus (Remote Hosted NAT)	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Telenet (Router with SIP-ALG-TOPO B)	Limited Availability				
		General Availability	TC3068 (R5.2)	● R4.0	● R5.2	● R6.0
	 X2com	Limited Availability				
		General Availability	TC2990 (R5.1)		● R5.2	● R6.0

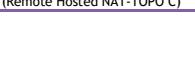
Bolivia	 Tigo	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
Brazil	 Unitel Telecom	Limited Availability				
		General Availability	TC2861 (R4.0)	● R4.0	● R5.2	● R6.0
	 Vivo	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
Cambodia	 Camintel	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Telecom Cambodia	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
Canada	 AllStream	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Bell Canada	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
	 Iritel	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 RNT	Limited Availability				
		General Availability	TC2726 (R3.2)	● R4.0	● R5.2	● R6.0
	 Rogers	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Sogetel	Limited Availability			● R5.2	● R6.0
		General Availability				
	 Telenet	Limited Availability				
		General Availability	TC2695 (R3.2)	● R4.0	● R5.2	● R6.0

	 Teliphone	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Videotron	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 VolP.ms	Limited Availability			● R5.2	● R6.0
		General Availability				
	 Entel	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Claro	Limited Availability				
		General Availability	TC2696 (R3.2)	● R4.0	● R5.2	● R6.0
Colombia	 ETB	Limited Availability				
		General Availability	TC2870 (R4.0)	● R4.0	● R5.2	● R6.0
	 Net2phone	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
Croatia	 Optima Telekom	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
Cyprus	 Cyta	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Primetel	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
Denmark	 Uni-Tel	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Inmarsat	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
El Salvador	 Telefonica (movistar)	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				

Finland	 Fujitsu	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 TELEOPERAATTORI Line Carrier	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Telia	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 ABI Telecom	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Add-On	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
France	 Adista	Limited Availability				
		General Availability	TC2893 (R4.0)	● R4.0	● R5.2	● R6.0
	 Axians	Limited Availability				
		General Availability	TC2706 (R3.2)	● R4.0	● R5.2	● R6.0
	 Azursoft	Limited Availability			● R5.2	● R6.0
		General Availability				
	 Bretagne Telecom	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Codepi	Limited Availability				
		General Availability	TC2805 (R4.0)	● R4.0	● R5.2	● R6.0
	 Colt (LAN-LAN/IP-VPN - TOPO A)	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Colt (Remote Hosted NAT-TOPO C)	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
	 Completel	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				

	Limited Availability				
	General Availability	TC2701 (R3.2)	● R4.0	● R5.2	● R6.0
	Limited Availability				
	General Availability	TC2903 (R4.0)	● R4.0	● R5.2	● R6.0
	Limited Availability		● R4.0	● R5.2	● R6.0
	General Availability				
	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
	General Availability				
	Limited Availability				
	General Availability	TC3077 (R6.0)	● R4.0	● R5.2	● R6.0
	Limited Availability			● R5.2	
	General Availability	TC3058 (R6.0)			● R6.0
	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
	General Availability				
	Limited Availability		● R4.0	● R5.2	● R6.0
	General Availability				
	Limited Availability				
	General Availability	TC3053 (R5.2)		● R5.2	● R6.0
	Limited Availability				
	General Availability	TC2878 (R4.0)	● R4.0	● R5.2	● R6.0
	Limited Availability				
	General Availability	TC2826 (R4.0)	● R4.0	● R5.2	● R6.0
	Limited Availability		● R4.0	● R5.2	● R6.0
	General Availability				
	Limited Availability				
	General Availability	TC2817 (R4.0)	● R4.0	● R5.2	● R6.0

	 IT'Tek	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Jaguar	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
	 Keyyo	Limited Availability				
		General Availability	TC3047 (R6.0)	● R4.0	● R5.2	● R6.0
	 Legos	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
	 Leonix	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R5.2 (MA)
		General Availability				
	 Leonix V2	Limited Availability				
		General Availability	TC2996 (R5.0)	● R4.0	● R5.2	● R6.0
	 Linkersip	Limited Availability				
		General Availability	TC2968 (R4.0)	● R4.0	● R5.2	● R6.0
	 Linkt	Limited Availability				
		General Availability	TC2802 (R4.0)	● R4.0	● R5.2	● R6.0
	 Nerim	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
	 Networth Telecom	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	
		General Availability	TC3067 (R6.0)			● R6.0
	 NXO Telecom	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
	 Business Services OBS-Biv	Limited Availability				
		General Availability	TC2933 (R5.0)	● R4.0	● R5.2	● R6.0
	 Business Services OBS-BTIP	Limited Availability				
		General Availability	TC3027 (R4.0)	● R4.0	● R5.2	● R6.0

	 Oceanet Telecom	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 One Operateur (LAN-LAN/IP-VPN - TOPO A)	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
	 One Operateur (Remote Hosted NAT - TOPO C)	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
	 One Operateur (CENTILE)	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 OpenVNO (Alphalink)	Limited Availability				
		General Availability	TC2814 (R4.0)	● R4.0	● R5.2	● R6.0
	 OVH	Limited Availability				
		General Availability	TC2730 (R3.2)	● R4.0	● R5.2	● R6.0
	 Peoplefone	Limited Availability				● R6.0
		General Availability				
	 Phenix - Partner	Limited Availability				
		General Availability	TC2967 (R5.0)		● R5.2	● R6.0
	 SCT	Limited Availability				
		General Availability	TC2731 (R3.2)	● R4.0	● R5.2	● R6.0
	 Unyc (Serveurcom)	Limited Availability				
		General Availability	TC2702 (R3.2)	● R4.0	● R5.2	● R6.0
	 Sewan	Limited Availability				
		General Availability	TC2977 (R5.1)	● R4.0	● R5.2	● R6.0
	 (LAN-LAN/IP-VPN-TOPO A)	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 (Remote Hosted NAT-TOPO C)	Limited Availability				
		General Availability	TC2733 (R3.2)	● R4.0	● R5.2	● R6.0

	 SFR (numericable) (OXO Static NAT - TOPO D)	Limited Availability General Availability		● R4.0	● R5.2	● R6.0
	 CARAIBE SFR Caraibe (Outremer Telecom) (Remote Hosted NAT-TOPO C)	Limited Availability General Availability		● R4.0	● R5.2	● R6.0
	 CARAIBE SFR Caraibe (Outremer Telecom) (OXO Static NAT - TOPO D)	Limited Availability General Availability	TC2804 (R4.0)	● R4.0	● R5.2	● R6.0
	 Synelyans A	Limited Availability General Availability	TC2742 (R3.2)	● R4.0	● R5.2	● R6.0
	 Synelyans F	Limited Availability General Availability	TC2743 (R3.2)	● R4.0	● R5.2	● R6.0
	 Telecom Object	Limited Availability General Availability	TC2744 (R3.2)	● R4.0	● R5.2	● R6.0
	 Trinaps	Limited Availability General Availability	TC2943 (R5.0)	● R4.0	● R5.2	● R6.0
	 Voip Telecom	Limited Availability General Availability			● R5.2	● R6.0
Germany	 1&1 Versatel (Remote Hosted NAT-TOPO C)	Limited Availability General Availability	TC2745 (R3.2)	● R4.0	● R5.2	● R6.0
	 1&1 Versatel (OXO Static NAT - TOPO D)	Limited Availability General Availability		● R4.0	● R5.2	● R6.0
	 BiTel	Limited Availability General Availability	TC2752 (R3.2)	● R4.0	● R5.2	● R6.0
	 Colt (OXO Static NAT - TOPO D)	Limited Availability General Availability	TC2973 (R5.1)		● R5.2	● R6.0
	 Communication Concept	Limited Availability General Availability	TC2776 (R4.0)	● R4.0	● R5.2	● R6.0

	 Deutsche Glasfaser Deutsche Glasfaser	Limited Availability				
		General Availability	TC3014 (R5.1)		● R5.2	● R6.0
	 Deutsche Telefon Deutsche Telefon	Limited Availability				
		General Availability	TC2753 (R3.2)	● R4.0	● R5.2	● R6.0
	 Deutsche Telekom CompanyFlex	Limited Availability				
		General Availability	TC2871 (R4.0)	● R4.0	● R5.2	● R6.0
	 Deutsche Telekom DeutschlandLAN SIP Trunk	Limited Availability				
		General Availability	TC3069 (R6.0)	● R4.0	● R5.2	● R6.0
	 Deutsche Telekom DLAN IP Voice/Data (Router with SIP-ALG-TOPO B)	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
	 Deutsche Telekom DLAN IP Voice/Data (Remote Hosted NAT-TOPO C)	Limited Availability				
		General Availability	TC2935 (R5.0)	● R4.0	● R5.2	● R6.0
	 easybell Easybell	Limited Availability				
		General Availability	TC2891 (R4.0)	● R4.0	● R5.2	● R6.0
	 ecotel® Ecotel	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
	 ecotel® Ecotel Trunk 2.0	Limited Availability				
		General Availability	TC2768 (R3.2)	● R4.0	● R5.2	● R6.0
	 Emslandtel.net Schnelles Internet für alle EmslandTel.NET	Limited Availability				
		General Availability	TC2769 (R3.2)	● R4.0	● R5.2	● R6.0
	 entega Entega	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 envia TEL EnviaTel	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
	 euronicsXXL Baumann Euronics Baumann	Limited Availability				
		General Availability	TC2828 (R4.0)	● R4.0	● R5.2	● R6.0

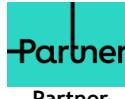
	 Ewe Tel (SIP TRUNK - NEW PLATFORM)	Limited Availability				
		General Availability	TC2877 (R4.0)	● R4.0	● R5.2	● R6.0
	 Ewe Tel (SIP USER - NEW PLATFORM)	Limited Availability				
		General Availability	TC3013 (R5.1)	● R4.0	● R5.2	● R6.0
	 gnTel	Limited Availability				
		General Availability	TC2843 (R4.0)	● R4.0	● R5.2	● R6.0
	 Goetel	Limited Availability				
		General Availability	TC3059 (R5.2)		● R5.2	● R6.0
	 HFO Telecom	Limited Availability				
		General Availability	TC2770 (R3.2)	● R4.0	● R5.2	● R6.0
	 htp	Limited Availability				
		General Availability	TC2771 (R3.2)	● R4.0	● R5.2	● R6.0
	 htp SIP Trunk smart	Limited Availability		● R4.0		
		General Availability	TC2966 (R5.0)		● R5.2	● R6.0
	 Inexio	Limited Availability				
		General Availability	TC2772 (R3.2)	● R4.0	● R5.2	● R6.0
	 ITK Connect	Limited Availability				
		General Availability	TC2778 (R3.2)	● R4.0	● R5.2	● R6.0
	 Komro	Limited Availability				
		General Availability	TC2779 (R3.2)	● R4.0	● R5.2	● R6.0
	 LWLcom	Limited Availability				
		General Availability	TC2845 (R3.2)	● R4.0	● R5.2	● R6.0
	 M-net	Limited Availability				
		General Availability	TC2780 (R3.2)	● R4.0	● R5.2	● R6.0
	 NetCologne	Limited Availability				
		General Availability	TC2787 (R4.0)	● R4.0	● R5.2	● R6.0

		Limited Availability				
		General Availability	TC3089 (R6.0)			● R6.0
	Limited Availability			● R5.2		● R6.0
	General Availability					
	Limited Availability					
	General Availability	TC3026 (R5.1)		● R5.2		● R6.0
	Limited Availability					
	General Availability	TC2773 (R4.0)	● R4.0	● R5.2		● R6.0
	Limited Availability		● R4.0	● R5.2		● R6.0
	General Availability					
	Limited Availability					
	General Availability	TC3021 (R5.2)	● R4.0	● R5.2		● R6.0
	Limited Availability		● R4.0 (MA)	● R5.2 (MA)		● R6.0 (MA)
	General Availability					
	Limited Availability					
	General Availability	TC2765 (R4.0)	● R4.0	● R5.2		● R6.0
	Limited Availability					
	General Availability	TC2862 (R4.0)	● R4.0	● R5.2		● R6.0
	Limited Availability					
	General Availability	TC2791 (R3.2)	● R4.0	● R5.2		● R6.0
	Limited Availability					
	General Availability	TC2792 (R3.2)	● R4.0	● R5.2		● R6.0
	Limited Availability		● R4.0	● R5.2		● R6.0
	General Availability					
	Limited Availability					
	General Availability	TC2914 (R5.0)	● R4.0	● R5.2		● R6.0

	 Stadtwerke Rhede	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
 Stiegeler	Limited Availability			● R5.2	● R6.0	
	General Availability					
 SWT Trilan (DDI)	Limited Availability					
	General Availability	TC2855 (R3.2)	● R4.0	● R5.2	● R6.0	
 SWT Trilan (MSN)	Limited Availability		● R4.0	● R5.2	● R6.0	
	General Availability					
 TeleForte a firstcom europe company	Limited Availability					● R6.0
	General Availability					
 Telepark Passau	Limited Availability		● R4.0	● R5.2	● R6.0	
	General Availability					
 Telesys	Limited Availability					
	General Availability	TC3061 (R6.0)	● R4.0	● R5.2	● R6.0	
 UnityMedia	Limited Availability					
	General Availability	TC2690 (R3.2)	● R4.0	● R5.2	● R6.0	
 Vodafone	Limited Availability					
	General Availability	TC2997 (R5.1)	● R4.0	● R5.2	● R6.0	
 Voiceforce.one	Limited Availability					
	General Availability	TC2794 (R3.2)	● R4.0	● R5.2	● R6.0	
 Voiceworks	Limited Availability					
	General Availability	TC3078 (R6.0)	● R4.0	● R5.2	● R6.0	
 Wilhelm.tel	Limited Availability					
	General Availability	TC2880 (R4.0)	● R4.0	● R5.2	● R6.0	
 Willy.Tel	Limited Availability		● R4.0	● R5.2	● R6.0	
	General Availability					

	 Wobcom	Limited Availability				
		General Availability	TC2872 (R4.0)	● R4.0	● R5.2	● R6.0
	 zollernalb data Zollernalb-data	Limited Availability				
		General Availability	TC2998 (R5.1)		● R5.2	● R6.0
Greece	 Microbase (Ephone)	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 modulus Modulus	Limited Availability			● R5.2	● R6.0
		General Availability				
	 OTE	Limited Availability				
		General Availability	TC3051 (R5.2)	● R4.0	● R5.2	● R6.0
	 Claro	Limited Availability		● R4.0		
		General Availability	TC3028 (R5.2)		● R5.2	● R6.0
Guatemala	 tigo (Router with SIP-ALG -TOPO B)	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 tigo (Remote Hosted NAT-TOPO C)	Limited Availability				
		General Availability	TC2860 (R4.0)	● R4.0	● R5.2	● R6.0
Guinea	 orange Orange	Limited Availability				
		General Availability	TC2842 (R4.0)	● R4.0	● R5.2	● R6.0
Honduras	 Claro	Limited Availability		● R4.0		
		General Availability	TC2946 (R5.0)		● R5.2	● R6.0
Hong Kong	 HGC GLOBAL COMMUNICATIONS HGC	Limited Availability			● R5.2	● R6.0
		General Availability				
	 香港寬頻 HONG KONG BROADBAND NETWORK HKBN	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
Hungary	 ace telecom Ace Telecom	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				

		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
		Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
		Limited Availability			● R5.2	● R6.0
		General Availability				
India		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
		Limited Availability				
		General Availability	TC3034 (R5.1)		● R5.2	● R6.0
		Limited Availability				
		General Availability	TC2912 (R4.0)	● R4.0	● R5.2	● R6.0
		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
		Limited Availability			● R5.2	● R6.0
		General Availability				
		Limited Availability				
		General Availability	TC2643 (R3.2)	● R4.0	● R5.2	● R6.0
Indonesia		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
Ireland		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
		Limited Availability				
		General Availability	TC2750 (R4.0)	● R4.0	● R5.2	● R6.0

Israel	 Telcom	Limited Availability				
		General Availability	TC3042 (R5.2)	● R4.0	● R5.2	● R6.0
	 Viatel	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
	 Welltel	Limited Availability				
		General Availability	TC2927 (R4.0)	● R4.0	● R5.2	● R6.0
	 Bezeq	Limited Availability			● R5.2	● R6.0
		General Availability				
	 Partner	Limited Availability				
		General Availability	TC3022 (R5.1)		● R5.2	● R6.0
Italy	 Active Network	Limited Availability				
		General Availability	TC2978 (R5.1)	● R4.0	● R5.2	● R6.0
	 Asco Tlc	Limited Availability		● R4.0		
		General Availability	TC3060 (R5.2)		● R5.2	● R6.0
	 Clouditalia (with VPN MPLS)	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
	 Clouditalia (without VPN MPLS)	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
	 Colt	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Horizont	Limited Availability			● R5.2	● R6.0
		General Availability				
	 Iridesos	Limited Availability			● R5.2	● R6.0
		General Availability				
	 Messagenet	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				

		Limited Availability				
	Mynet	General Availability	TC2941 (R4.0)	● R4.0	● R5.2	● R6.0
		Limited Availability				
	Net and work	General Availability	TC2729 (R3.2)	● R4.0	● R5.2	● R6.0
		Limited Availability				● R6.0
	Opiqua	General Availability				
		Limited Availability		● R4.0		
	Planetel	General Availability	TC2985 (R5.1)		● R5.2	● R6.0
		Limited Availability		● R4.0	● R5.2	● R6.0
	Plink	General Availability				
		Limited Availability		● R4.0	● R5.2	● R6.0
	Redder	General Availability				
		Limited Availability		● R4.0	● R5.2	● R6.0
	ReteTel	General Availability				
		Limited Availability		● R4.0	● R5.2	● R6.0
	TIM (Telecom Italia)	General Availability				
		Limited Availability		● R4.0	● R5.2	● R6.0
	TIM - TTS Internet	General Availability				
		Limited Availability			● R5.2	● R6.0
	TWT	General Availability				
		Limited Availability		● R4.0	● R5.2	● R6.0
	VolPTEL Italia	General Availability				
		Limited Availability		● R4.0	● R5.2	● R6.0
	Voipvoice	General Availability				
		Limited Availability		● R4.0	● R5.2	● R6.0
	Wind	General Availability				

		Limited Availability				
		General Availability	TC2775 (R3.2)	● R4.0	● R5.2	● R6.0
Ivory Coast		Limited Availability				
		General Availability	TC3017 (R5.2)		● R5.2	● R6.0
Kenya		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
Latvia		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
		Limited Availability				
		General Availability	TC3052 (R5.2)		● R5.2	● R6.0
Luxembourg		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
Macao		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
Malaysia		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
Maldives		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
Malta		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
		Limited Availability				
		General Availability	TC2815 (R4.0)	● R4.0	● R5.2	● R6.0
Mauritius		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
Monaco		Limited Availability			● R5.2	● R6.0
		General Availability				

	 Monaco Telecom	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
Morocco	 Orange (LAN-LAN/IP-VPN - TOPO A)	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Orange (Remote Hosted NAT - TOPO C)	Limited Availability				
		General Availability	TC2969 (R4.0)	● R4.0	● R5.2	● R6.0
Netherlands	 ICTprovider	Limited Availability				
		General Availability	TC2809 (R3.2)	● R4.0	● R5.2	● R6.0
	 Infopact	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 KPN	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 My-Connect	Limited Availability				
		General Availability	TC2810 (R3.2)	● R4.0	● R5.2	● R6.0
	 Redworks	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 RoutIT	Limited Availability		● R4.0		
		General Availability	TC3043 (R5.2)		● R5.2	● R6.0
	 Sollie.Comm	Limited Availability				
		General Availability	TC2811 (R3.2)	● R4.0	● R5.2	● R6.0
	 ViPro Services	Limited Availability				
		General Availability	TC2812 (R3.2)	● R4.0	● R5.2	● R6.0
	 Voiceworks	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
	 Ziggo	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				

		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
New Zealand		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
Norway		Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
		Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
		Limited Availability				
		General Availability	TC2829 (R4.0)	● R4.0	● R5.2	● R6.0
Philippines		Limited Availability				
		General Availability				
		Limited Availability		● R4.0		
		General Availability	TC2945 (R5.0)		● R5.2	● R6.0
Poland		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
Portugal		Limited Availability				
		General Availability	TC3016 (R5.1)		● R5.2	● R6.0
		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				

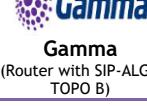
	 Portugal Telecom	Limited Availability				
		General Availability	TC2827 (R4.0)	● R4.0	● R5.2	● R6.0
	 Vodafone	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
	 VOIPPRO wholesale voip VoIPPro	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Qatar Vodafone	Limited Availability				
		General Availability	TC2905 (R4.0)	● R4.0	● R5.2	● R6.0
	 RCS & RDS	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Romtelecom	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Telphin	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 GO Telecom	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Salam	Limited Availability			● R5.2	● R6.0
		General Availability				
	 STC	Limited Availability				
		General Availability	TC2942 (R4.0)	● R4.0	● R5.2	● R6.0
	 Business Services Orange-Sonatel	Limited Availability				
		General Availability	TC2819 (R3.2)	● R4.0	● R5.2	● R6.0
	 Telekom Srbija	Limited Availability				
		General Availability	TC2820 (R3.2)	● R4.0	● R5.2	● R6.0
	 Telenor (Remote Hosted NAT - TOPO C)	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				

	 Telenor (OXO Static NAT - TOPO D)	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
Seychelles	 CABLE & WIRELESS Cable & Wireless	Limited Availability				
		General Availability	TC2803 (R3.2)	● R4.0	● R5.2	● R6.0
Singapore	 M 1	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
	 MyRepublic	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 NETPLUZ NetPluz Asia	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
	 StarHub	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Singtel	Limited Availability				
		General Availability	TC2789 (R3.2)	● R4.0	● R5.2	● R6.0
Slovakia	 Orange	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
	 Swan	Limited Availability				
		General Availability	TC2821 (R3.2)	● R4.0	● R5.2	● R6.0
	 Telekom Slovakia	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
South Africa	 Backspace	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Biztec	Limited Availability				
		General Availability	TC2790 (R3.2)	● R4.0	● R5.2	● R6.0

Spain	 VoxTelecom (LAN-LAN/IP-VPN - TOPO A)	Limited Availability				
		General Availability	TC2689 (R3.2)	● R4.0	● R5.2	● R6.0
	 VoxTelecom (Remote Hosted NAT - TOPO C)	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
	 adamo	Limited Availability				
		General Availability	TC3083 (R6.0)			● R6.0
	 Aire Networks	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Citelia	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Cludio	Limited Availability				
		General Availability	TC2925 (R4.0)	● R4.0	● R5.2	● R6.0
	 Colt (LAN-LAN/IP-VPN - TOPO A)	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Colt (Remote Hosted NAT - TOPO C)	Limited Availability				
		General Availability	TC2926 (R4.0)	● R4.0	● R5.2	● R6.0
	 Grupo IB 360	Limited Availability				
		General Availability	TC2911 (R3.2)	● R4.0	● R5.2	● R6.0
	 Grupo Universal	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
	 LCR.com	Limited Availability				
		General Availability	TC2831 (R3.2)	● R4.0	● R5.2	● R6.0
	 Telefonica (movistar)	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
	 Premium Max	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				

		Limited Availability				
		General Availability	TC3015 (R5.1)		● R5.2	● R6.0
	Limited Availability			● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
	General Availability					
	Limited Availability					
	General Availability	TC2738 (R3.2)	● R4.0	● R5.2	● R6.0	
	Limited Availability					
	General Availability	TC2832 (R3.2)	● R4.0	● R5.2	● R6.0	
	Limited Availability					
	General Availability	TC2727 (R3.2)	● R4.0	● R5.2	● R6.0	
	Limited Availability			● R4.0 (MA)		
	General Availability	TC2948 (R5.0)			● R5.2	● R6.0
	Limited Availability			● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
	General Availability					
Sri Lanka		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
Sweden		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
Sweden		Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
Sweden		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
Sweden		Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
Sweden		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				

Switzerland	 E-fon	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 FL1.ch (ConVoip)	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 ImproveWare	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Iway.ch	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Peoplefone	Limited Availability				
		General Availability	TC2833 (R3.2)	● R4.0	● R5.2	● R6.0
	 SIPCall.Ch	Limited Availability				
		General Availability	TC2834 (R3.2)	● R4.0	● R5.2	● R6.0
	 Sunrise	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
	 Swisscom	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Ticino.com	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
	 UPC Cablecom (Router with SIP-ALG - TOPO B)	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 UPC Cablecom (Remote Hosted NAT - TOPO C)	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
	 VTX Telecom	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
Tanzania	 TTCL	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				

Turkey	 NetGSM	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Turk Telekom	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
UEA	 DU	Limited Availability			● R5.2	● R6.0
		General Availability				
	 Etisalat	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
Ukraine	 DataGroup	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
United Kingdom	 9 Group Telecomm.	Limited Availability				
		General Availability	TC2816 (R4.0)	● R4.0	● R5.2	● R6.0
	 aql	Limited Availability			● R5.2	● R6.0
		General Availability				
	 Colt	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Gamma (Router with SIP-ALG - TOPO D)	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
	 Gamma (OXO Static NAT - TOPO D)	Limited Availability				
		General Availability	TC2844 (R4.0)	● R4.0	● R5.2	● R6.0
	 Nasstar (GCI)	Limited Availability				
		General Availability	TC2788 (R4.0)	● R4.0	● R5.2	● R6.0
	 IceDigital	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 OneHub	Limited Availability				● R6.0
		General Availability				

		Limited Availability				
		General Availability	TC2835 (R3.2)	● R4.0	● R5.2	● R6.0
	Limited Availability					
	General Availability	TC2846 (R3.2)	● R4.0	● R5.2	● R6.0	
	Limited Availability		● R4.0	● R5.2	● R6.0	
	General Availability					
	Limited Availability					
	General Availability	TC2751 (R3.2)	● R4.0	● R5.2	● R6.0	
	Limited Availability		● R4.0	● R5.2	● R6.0	
	General Availability					
	Limited Availability			● R5.2	● R6.0	
	General Availability					
Uruguay		Limited Availability				
		General Availability	TC2904 (R4.0)	● R4.0	● R5.2	● R6.0
		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
		Limited Availability				
		General Availability	TC2739 (R3.2)	● R4.0	● R5.2	● R6.0
		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
USA		Limited Availability				
		General Availability	TC2847 (R3.2)	● R4.0	● R5.2	● R6.0

	 Broadvox™ EXPERIENCE MATTERS. Broadvox	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 CCI NETWORK SERVICES CCI Networks	Limited Availability				
		General Availability	TC2848 (R3.2)	● R4.0	● R5.2	● R6.0
	 CenturyLink™ Century Link	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 clearfly Clearfly	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)
		General Availability				
	 COMCAST Comcast	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 COREDIAL CoreDial	Limited Availability		● R4.0		
		General Availability	TC3050 (R5.2)		● R5.2	● R6.0
	 COX BUSINESS Cox	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 csipre Csipre	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 esi Estech System Inc (ESI)	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 fusion Fusion	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 fusion Fusion 360°	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 iQ. intelligent Intelligent	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 net2phone Net2Phone	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				

		Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	Limited Availability		● R4.0	● R5.2	● R6.0	
	General Availability					
	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)	
	General Availability					
	Limited Availability					
	General Availability	TC2849 (R3.2)	● R4.0	● R5.2	● R6.0	
	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)	
	General Availability					
	Limited Availability		● R4.0	● R5.2	● R6.0	
	General Availability					
	Limited Availability		● R4.0	● R5.2	● R6.0	
	General Availability					
	Limited Availability		● R4.0 (MA)	● R5.2 (MA)	● R6.0 (MA)	
	General Availability					
	Limited Availability		● R4.0	● R5.2	● R6.0	
	General Availability					
	Limited Availability		● R4.0	● R5.2	● R6.0	
	General Availability					
	Limited Availability		● R4.0	● R5.2	● R6.0	
	General Availability					
	Limited Availability		● R4.0	● R5.2	● R6.0	
	General Availability					
	Limited Availability		● R4.0	● R5.2	● R6.0	
	General Availability					

	windstream. Windstream	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
Vietnam	 FPT	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				
	 Viettel	Limited Availability		● R4.0	● R5.2	● R6.0
		General Availability				

(MA) Migrated Availability, indicates that a Limited Availability R10.3, Connect 2.x, Connect R3.x, Connect R4.0, Connect R5.X or Connect R6.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 Phased out Releases – GA solutions

Country	SIP Provider	RCE R10.X	OXO Connect R2.X	OXO CONNECT R3.X
Andorra	ANDORRA TELECOM Andorra Telecom	TC2355 (R10.3)	TC2452 (R2.2)	● R3.2 (MA)
Australia	Telstra	TC2355 (R10.3)	● R2.2 (MA)	● R3.2 (MA)
Austria	4 TELECOM SERVICES 4 Telecom Services			TC2774 (R3.1)
	A 1 (Business VoIP)		TC2412 (R2.2)	● R3.2 (MA)
	A 1 (IP-SIP Trunk)		TC2411 (R2.2)	TC2675 (R3.2)
	A 1 (METRO)	TC2272 (R10.3)	● R2.2 (MA)	● R3.2 (MA)
	NeoTel NeoTel Business Trunk			TC2676 (R3.2)
	NeoTel NeoTel Private SIP Trunk		● R2.2 (MA)	TC2677 (R3.2)
	TELE 2	TC2111 (R10.1)	● R2.2 (MA)	● R3.2 (MA)
	upc UPC			TC2678 (R3.2)
Brazil	unitel Unitel Telecom			TC2697 (R3.2)
	Voitel Voitel	TC2166 (R10.2)	● R2.2 (MA)	● R3.2 (MA)
Canada	Bell Bell Canada	TC2300 (R10.3)	● R2.2 (MA)	● R3.2 (MA)
	RNT RNT SOLUTIONS			TC2726 (R3.2)

	 Telenet	TC2314 (R10.3)	● R2.2 (MA)	TC2726 (R3.2)
Colombia	 Claro			● TC2696 (R3.2)
France	 Add-On	TC2282 (R10.3)	● R2.2 (MA)	● R3.2 (MA)
	 Axians			TC2706 (R3.2)
	 Codepi	TC2280 (R10.3)	TC2424 (R2.2)	● R3.2 (MA)
	 Colt (Remote Hosted NAT-TOPO C)		TC2512 (R2.2)	● R3.2 (MA)
	 Coriolis Telecom		TC2540 (R2.2)	TC2701 (R3.2)
	 Dstny (OpenIP)	TC2238 (R10.3)	● R2.2 (MA)	● R3.2 (MA)
	 Dstny (MyOPENIP)			TC2692 (R3.2)
	 Fingerprint	TC2408 (R10.3)	● R2.2 (MA)	● R3.2 (MA)
	 Hexanet	TC2042 (R10.0)	● R2.2 (MA)	● R3.2 (MA)
	 Hexatel	TC2294 (R10.3)	TC2548 (R2.2)	TC2709 (R3.2)
	 Jaguar		TC2614 (R2.2)	● R3.2 (MA)
	 Keyyo	TC2293 (R10.3)	TC2427 (R2.2)	TC2707 (R3.2)
	 Legos	TC2127 (R10.1)	● R2.2 (MA)	● R3.2 (MA)

	 Leonix		TC2500 (R2.2)	● R3.2 (MA)
	 Linkersip	TC2520 (R10.3)	● R2.2 (MA)	● R3.2 (MA)
	 Linkt		TC2748 (R2.2)	TC2749 (R3.2)
	 Nerim		TC2371 (R2.0)	● R3.2 (MA)
	 Networth Telecom		TC2454 (R2.2)	● R3.2 (MA)
	 NXO Telecom		TC2465 (R2.2)	● R3.2 (MA)
	 orange Business Services OBS-Biv	TC2214 (R10.2)	● R2.2 (MA)	TC2708 (R3.2)
	 orange Business Services OBS-BTIP			TC2681 (R3.2)
	 ONE OPERATEUR One Operateur (LAN-LAN/IP-VPN - TOPO A)	TC2152 (R10.2)	● R2.2 (MA)	● R3.2 (MA)
	 ONE OPERATEUR One Operateur (Remote Hosted NAT - TOPO C)		TC2359 (R2.0)	● R3.2 (MA)
	 OpenIP	TC2238 (R10.3)	● R2.2 (MA)	● R3.2 (MA)
	 OpenIP (MyOPENIP)	TC2425 (R10.3)	TC2436 (R2.2)	● R3.2 (MA)
	 OpenVNO OpenVNO (Alphalink)	TC2204 (R10.2)	TC2370 (R2.0)	TC2741 (R3.2)
	 OVH	TC2281 (R10.3)	TC2464 (R2.2)	TC2730 (R3.2)

Germany	 SCT			TC2731 (R3.2)
	 Unyc (Serveurcom)	TC2271 (R10.3)	TC2409 (R2.2)	TC2702 (R3.2)
	 sewan Sewan	TC2397 (R10.3)	TC2356 (R2.0)	TC2732 (R3.2)
	 SFR (Remote Hosted NAT-TOPO C)		TC2535 (R2.2)	TC2733 (R3.2)
	 Synelyans A	TC2259 (R10.3)	TC2451 (R2.2)	TC2742 (R3.2)
	 Synelyans F			TC2743 (R3.2)
	 Telecom Object		TC2443 (R2.2)	TC2744 (R3.2)
	 1&1 Versatel (Remote Hosted NAT-TOPO C)			TC2745 (R3.2)
	 BiTel			TC2752 (R3.2)
	 Deutsche Telefon	TC2230 (R10.3)	● R2.2 (MA)	TC2753 (R3.2)
	 Deutsche Telekom DeutschlandLAN SIP Trunk	TC2488 (R10.3)	TC2395 (R2.2)	TC2754 (R3.2)
	 Deutsche Telekom DLAN IP Voice/Data (Router with SIP-ALG-TOPO B)	TC2237 (R10.3)	TC2284 (R2.0)	● R3.2 (MA)
	 Deutsche Telekom DLAN IP Voice/Data (Remote Hosted NAT-TOPO C)	TC2245 (R10.3)	TC2327 (R2.0)	TC2755 (R3.2)
	 Ecotel	TC2298 (R10.3)	● R2.2 (MA)	● R3.2 (MA)

	 Ecotel Trunk 2.0	TC2396 (R10.3)	TC2405 (R2.2)	TC2768 (R3.2)
	 Schnelles Internet für alle EmslandTel.NET			TC2769 (R3.2)
	 EnviaTel	TC2165 (R10.2)	TC2466 (R2.2)	● R3.2 (MA)
	 HFO Telecom	TC2552 (R10.3)	● R2.2 (MA)	TC2770 (R3.2)
	 htp			TC2771 (R3.2)
	 CONNECTING YOUR BUSINESS Inexio			TC2772 (R3.2)
	 ITK Connect			TC2778 (R3.2)
	 Mehr Freiraum. Mehr Leben. Komro			TC2779 (R3.2)
	 LWLcom			TC2845 (R3.2)
	 Mein Netz M-net			TC2780 (R3.2)
	 Ein Unternehmen der EnBW Plusnet (QSC)	TC2279 (R10.3)	TC2442 (R2.2)	TC2767 (R3.2)
	 PÝUR (HL Komm) (Remote Hosted NAT-TOPO C)	TC2022 (R10.0)	TC2467 (R2.2)	TC2781 (R3.2)
	 PÝUR (HL Komm) (Router with SIP-ALG -TOPO B)	TC2332 (R10.3)	TC2404 (R2.2)	● R3.2 (MA)
	 einfach. clever. verbunden. Reventix	TC2297 (R10.3)	TC2406 (R2.2)	TC2782 (R3.2)
	 SIPgate	TC2189 (R10.2)	● R2.2 (MA)	TC2791 (R3.2)

	 Soco NETWORK SOLUTIONS	TC2239 (R10.3)	● R2.2 (MA)	TC2792 (R3.2)
	 Stadtwerke Merseburg			TC2793 (R3.2)
	 SWT Trilan GmbH SWT Trilan (DDI)	TC2216 (R10.3)	● R2.2 (MA)	TC2855 (R3.2)
	 Telesys Kommunikationstechnik Telesys			TC2673 (R3.2)
	 unitymedia business UnityMedia			TC2690 (R3.2)
	 Vodafone	TC2217 (R10.3)	● R2.2 (MA)	TC2728 (R3.2)
	 voiceforce.one Voiceforce.one			TC2794 (R3.2)
	 voiceworks			TC2795 (R3.2)
Greece	 OTE	TC2295 (R10.3)	● R2.2 (MA)	TC2688 (R3.2)
Hungary	 ace telecom Ace Telecom	TC2125 (R10.1)	● R2.2 (MA)	● R3.2 (MA)
	 Intellicom	TC2055 (R10.0)		
India	 TATA COMMUNICATIONS TATA			TC2643 (R3.2)
Ireland	 ON VoIP OnVoIP (G7eleven)	TC2081 (R10.1)	TC2407 (R2.2)	● R3.2 (MA)
	 Viatel	TC2330 (R10.3)	● R2.2 (MA)	● R3.2 (MA)

	 welltel Welltel			TC2808 (R3.2)
Italy	 Active Network			TC2854 (R3.2)
	 CloudItalia (with VPN MPLS)	TC2113 (R10.1)	● R2.2 (MA)	● R3.2 (MA)
	 CloudItalia (without VPN MPLS)	TC2218 (R10.2)	● R2.2 (MA)	● R2.2 (MA)
	 NETandWORK Net and work			TC2729 (R3.2)
	 X-Stream business communication X-Stream	TC2299 (R10.3)	TC2435 (R2.2)	TC2775 (R3.2)
Netherlands	 ICTprovider ICTprovider	TC2333 (R10.3)	TC2646 (R2.2)	TC2809 (R3.2)
	 My-Connect		TC2536 (R2.2)	TC2810 (R3.2)
	 Sollie.Comm		TC2648 (R2.2)	TC2811 (R3.2)
	 ViPro services ViPro Services	TC2383 (R10.3)	TC2647 (R2.2)	TC2812 (R3.2)
	 voiceworks Voiceworks	TC2273 (R10.3)	TC2369 (R2.2)	● R3.2 (MA)
	 Ziggo	TC2070 (R10.0)	● R2.2 (MA)	● R3.2 (MA)
Norway	 altibox Altibox	TC2124 (R10.1)	● R2.2 (MA)	● R3.2 (MA)
	 Telenor (Remote Hosted NAT - TOPO C)	TC2172 (R10.1)	● R2.2 (MA)	● R3.2 (MA)
	 Telenor (OXO Static NAT - TOPO D)	TC2487 (R10.3)	● R2.2 (MA)	TC2818 (R3.2)

Portugal	 Potugal Telecom	TC2107 (R10.1)	● R2.2 (MA)	● R3.2 (MA)
	 Vodafone	TC2229 (R10.3)	● R2.2 (MA)	● R3.2 (MA)
Senegal	 Orange-Sonatel			TC2819 (R3.2)
Serbia	 Telekom Srbija			TC2820 (R3.2)
Seychelles	 CABLE & WIRELESS Cable & Wireless			TC2803 (R3.2)
Singapore	 M 1	TC2099 (R10.1)	TC2434 (R2.2)	● R3.2 (MA)
	 NetPluz Asia	TC2112 (R10.1)	● R2.2 (MA)	● R3.2 (MA)
	 Singtel			TC2789 (R3.2)
Slovakia	 Orange	TC2098 (R10.1)	● R2.2 (MA)	● R3.2 (MA)
	 Swan			TC2821 (R3.2)
	 Telekom Slovakia	TC2441 (R10.3)	● R2.2 (MA)	● R3.2 (MA)
South Africa	 Biztec			TC2790 (R3.2)
	 VoxTelecom (LAN-LAN/IP-VPN - TOPO A)	TC2313 (R10.3)	TC2372 (R2.2)	TC2689 (R3.2)
	 VoxTelecom (Remote Hosted NAT - TOPO C)	TC2030 (R10.0)	● R2.2 (MA)	● R3.2 (MA)

Spain	 Grupo IB 360			TC2911 (R3.2)
	 Grupo Universal	TC2228 (R10.3)	TC2489 (R2.2)	● R3.2 (MA)
	 LCR.com	TC2224 (R10.3)	TC2360 (R2.2)	TC2831 (R3.2)
	 Telefonica (movistar)	TC1997 (R10.0)	● R2.2 (MA)	● R3.2 (MA)
	 Premium Max	TC2041 (R10.0)	● R2.2 (MA)	● R3.2 (MA)
	 Sarenet (Sarevoz)	TC2240 (R10.3)	● R2.2 (MA)	● R3.2 (MA)
	 Sisnet			TC2738 (R3.2)
	 TBC	TC2468 (R10.3)	● R2.2 (MA)	TC2832 (R3.2)
	 Telecable			TC2727 (R3.2)
	 VozTelecom	TC2090 (R10.1)	TC2410 (R2.2)	● R3.2 (MA)
Sweden	 ZeroVOZ	TC2270 (R10.3)	● R2.2 (MA)	● R3.2 (MA)
	 TDC	TC2043 (R10.0)	● R2.2 (MA)	● R3.2 (MA)
Switzerland	 Telia (Sip Entry)	TC2354 (R10.3)	TC2373 (R2.0)	● R3.2 (MA)
	 Peoplefone	TC2089 (R10.1)	● R2.2 (MA)	TC2833 (R3.2)
	 SIPCall.Ch			TC2834 (R3.2)

	 Sunrise	TC2398 (R10.3)	● R2.2 (MA)	● R3.2 (MA)
	 Ticino.com		TC2374 (R2.0)	● R3.2 (MA)
	 upc cablecom business UPC Cablecom (Remote Hosted NAT - TOPO C)	TC2168 (R10.2)	● R2.2 (MA)	● R3.2 (MA)
United Kingdom	 FREE TO PERFORM 9 Group Telecomm.			TC2807 (R3.2)
	 Gamma (Router with SIP-ALG - TOPO B)	TC2215 (R10.2)	● R2.2 (MA)	● R3.2 (MA)
	 Gamma (OXO Static NAT - TOPO D)	TC2331 (R10.3)	TC2561 (R2.2)	TC2740 (R3.2)
	 Talk Talk		TC2463 (R2.2)	TC2835 (R3.2)
	 Voiceflex	TC2091 (R10.1)	TC2329 (R2.0)	TC2846 (R3.2)
	 VoiceHost (OXO Static NAT - TOPO D)			TC2751 (R3.2)
	 Antel	TC2567 (R10.3)	● R2.2 (MA)	● R3.2 (MA)
USA	 Akabis			TC2739 (R3.2)
	 bandwidth.com			TC2847 (R3.2)
	 CCI NETWORK SERVICES CCI Networks			TC2848 (R3.2)
	 clearfly Clearfly		TC2328 (R2.0)	● R3.2 (MA)

	 Rise Broadband	TC2136 (R10.1)	● R2.2 (MA)	● R3.2 (MA)
	 Saddleback Comm.			TC2849 (R3.2)
	 Securenet		TC2511 (R2.2)	● R3.2 (MA)
	 Sotel		TC2450 (R2.2)	● R3.2 (MA)

5 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
Canada	FGL Telecom	Tests in progress
France	Avelia	Task planned, tests not started yet
	Next-Operateur	Task planned, tests not started yet
	Netiwan	Task planned, tests not started yet
	Stella Telecom	Task planned, tests not started yet
	Wixip	Tests in progress
Germany	Global Connect	Task planned, tests not started yet
	Stadtwerke Wunsiedel	Tests in progress
	VSE Net Gmbh	Task planned, tests not started yet
Ghana	MTN	Tests in progress
Hungary	UPC	Tests in progress
Italy	Bell International	Tests in progress
Mauritius	Mauritius Telecom	Task planned, tests not started yet
Malaysia	Telekom Malaysia	Tests in progress
Netherlands	Mobicom	Tests in progress
Poland	3S-sat	Task planned, tests not started yet
	Itel	Tests in progress
Spain	Alisys	Tests in progress
	Euskaltel	Tests in progress
Taiwan	Chungwa Telecom	Task planned, tests not started yet
Thailand	Nation Telecom	Task planned, tests not started yet
UK	British Telecom	Tests in progress
	Nasstar (Topo D)	Tests in progress

6 Aborted Projects

The following Public Operators were either:

- In the scope, but the approval project was finally cancelled.
- Already approved, but finally ended.

Country	SIP Provider	Status	ALE Reference
Germany	Ewe Tel (Remote Hosted NAT-TOPO C)	Provider's commercial offer is Phased Out <i>(November 2021)</i>	TC2539 (R3.0) TC2764 (R3.2)
Germany	Ewe Tel (Router with SIP-ALG - TOPO B)	Provider's commercial offer is Phased Out <i>(November 2021)</i>	
Greece	Supervoice	Cancelled by BP	

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 [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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