

IP Telephony Expert

CERTIFICATION STATEMENT

ILEXIA, independent tests laboratory, certifies the interoperability, using SIP protocol, of:

- ✓ Alcatel-Lucent OmniPCX equipped with IP **Phones**
- ✓ AXIALYS- Public SIP Trunking Service



CERTIFICATION AUTHORITY

ILEXIA, independent tests laboratory specialized in IP Telephony interoperability certification

CERTIFICATION DATE

August 2014

CERTIFICATION SCOPE

This certificate is valid in both the functional scope and the firmware/software release mentioned in this document

VENDOR CERTIFIED



Alcatel-Lucent Omni-PCX Enterprise (OXE) in AXIALYS service provider's environment

PRODUCT CERTIFIED



Alcatel-Lucent Omni-PCX Enterprise OXE R11.0.1 (k1.520.29e)

FUNCTIONAL SCOPE

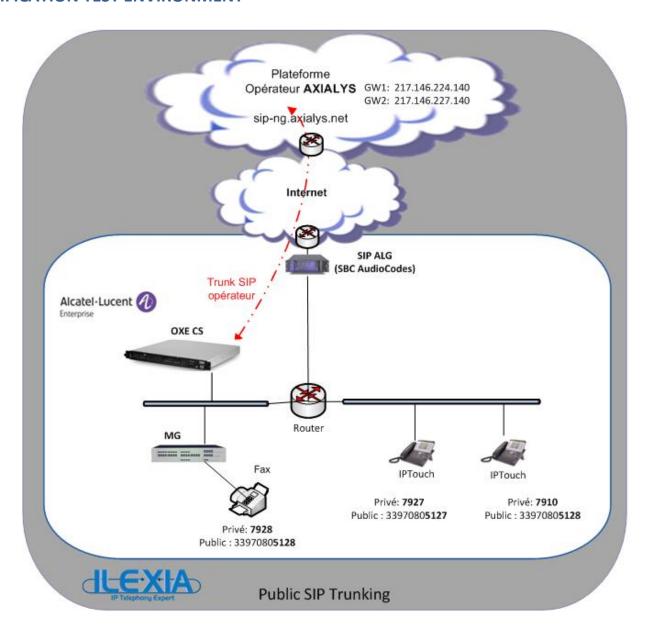
FEATURES CERTIFIED	
Registration/Peering	National/GSM calls
Authentication	CLIP/CLIR
Basic call with IPBX proprietary IP Phone	Messaging
Caller id display	DTMFs handling
Caller id restriction	3 way conferencing
Codecs G.729/G.711	Hold/retrieve
Music on hold	Fax
Transfer (blind and supervised)	Call Forward

LAB COMPONENTS AND SOFTWARE LEVEL

Manufacturer	System Release		Protocol tested
Alcatel-Lucent	OmniPCX Enterprise IPBX	R11.0.1 (K1.520.29e)	SIP
Alcatel-Lucent	Open Touch SBC	OT-SBC R1.0 (6.40AZ.033.005)	SIP
AXIALYS AXIALYS TELECOM BUSINESS SERVICES	Plateforme	n.c	SIP



CERTIFICATION TEST ENVIRONMENT





DETAILED SIP INTEROPERABILITY TESTS RESULTS TABLE

N°	TEST TITLE	DETAILS	RESULT	RESTRICTIONS or COMMENTS
	Basic call setup	Off-net calls		
1	Basic outgoing call to PSTN/national user	Outgoing/Incoming Proper calling number display G.729 or G.711 20 ms as negotiated codec	PASS	-
2	Basic outgoing call to GSM	Proper calling number display G.729 or G.711 20 ms as negotiated codec	PASS	-
3	Basic incoming call from PSTN/national user	Proper calling number display G.729 or G.711 20 ms as negotiated codec	PASS	-
4	Basic incoming call from GSM	Proper calling number display G.729 or G.711 20 ms as negotiated codec	PASS	-
5	Basic outgoing call to PSTN	CLIP/CLIR	PASS	-
6	Basic incoming call to PSTN	CLIP/CLIR	PASS	-
7	Basic with hold/retrieve (MOH)		PASS	-
	Call transfer	Off-net/On-net and Off-net/Off-net		
8	Blind transfer initiated by Alcatel- Lucent IP Phone	Off-net / On-net	PASS	-
9	Blind transfer initiated by Alcatel- Lucent IP Phone	Off-net / Off-net	PASS	-
10	Monitored transfer initiated by Alcatel-Lucent IP-Phone	Off-net / On-net	PASS	-
11	Monitored transfer initiated by Alcatel-Lucent IP-Phone	Off-net / Off-net	PASS	-
	Call forwarding	Off-net/On-net and Off-net/Off-net		
12	Call forwarding by Alcatel-Lucent IP- Phone	Off-net / On-net	PASS	-
13	Call forwarding by Alcatel-Lucent IP- Phone	Off-net / Off-net	PASS	-
14	Call forwarding to integrated Voice Mail (Embedded 4645 VM)	-	PASS	•
	Conferencing	3 way conferencing		
15	Conference initiated by Alcatel- Lucent IP-Phone	Off-net / On-net	PASS	-
16	Conference initiated by Alcatel- Lucent IP-Phone	Off-net / Off-net	PASS	-



N°	TEST TITLE	DETAILS	RESULT	RESTRICTIONS or COMMENTS
	DTMFs handling			
17	DTMF (RFC 4733/RFC 2833)	-	PASS	-
18	DTMF InBand	-	N.A	Not supported by ALE OXE for public SIP Trunking
	Fax services			
19	Outgoing Fax	Fax (T.38)	N.A	Not supported by AXIALYS
20	Incoming Fax	Fax (T.38)	N.A	Not supported by AXIALYS
21	Outgoing Fax	Fax (G.711 Passthrough)	PASS	-
22	Incoming Fax	Fax (G.711 Passthrough)	PASS	-

TABLE LEGEND	
ALU	Alcatel-Lucent
DTMF	Digital Tone Multi Frequency
PASS	Test passed successfully
NOK	Test passed successfully with
	restriction/clarification
КО	Tests failed
N/A	Not Applicable or not testable
	because not available or not
	supported on the system
SIP	Session Initiation Protocol

Since 2002, ILEXIA is an independent laboratory specialized in testing and validating IP Telephony systems in numerous environments (enterprises, operators). Our goal is to validate the compatibility of enterprise and service provider IP telephony products.

The tests & validations that we undertake rely heavily on our LABORATORY equipped with up to date telecommunication systems used in both enterprise and Service Provider market.

Our engineers have been trained and certified on the different IP Telephony products available, and have acquired a complete and detailed understanding of the protocols used for IP Telephony such as: H.323, SIP, MGCP, H.248, MEGACO, RTP, SDP, SIP/CSTA, 802.1X,LLDP,LDAP,...

In this way, we provide different testing sessions for various customers (Manufacturers, Operators, Distributors, as well as for Businesses and Local governing entities).

The advantages of ILEXIA Interoperability certification

- √ Field Expertise on implementation of business trunking offer
- ✓ An "all inclusive" offer (equipment, services and resources)
- ✓ The constant update of our IP telephony solutions (including IPBX, application server, gateways, IP Phones,) and a guarantee of performance with the latest software releases
- ✓ Adaptability to different customers situations (WAN, MAN and LAN multi-sites architecture, IPBX specific software version, interaction with external applications, ...)
- ✓ Very competitive prices including the provisioning of equipment to be tested
- ✓ A recognized know-how
- ✓ A rapid response to requests for certification
- ✓ Consulting support to product development from design phase to production



Equipments available in ILEXIA LABORATORY for interoperability certification

Aastra 800 - Aastra 5000

Aastra Unified Communication Platform (UCP)

Alcatel OmniPCX Enterprise & Office

Avaya / Nortel Communication Server 1000 / S8500

Asterisk

Acme Packet SBC

Audiocodes gateways and E-SBC

Cisco Unified Communication Manager

Cisco Unified Presence Server

Cisco Unity Messaging System

Cisco Unified Communication Manager Express / UC500

Comverse NeoXBC

Comverse IMS softswitch

Cycos MRS

IBM Sametime and Sametime Unified Telephony

Ingate SIParator

Microsoft Lync

NET VX Voice Exchange gateway

OneAccess Gateway

SIP Express Router

Siemens HiPath 8000 / Open Scape (Voice, Video,...)

Testing equipment in ILEXIA LABORATORY for interoperability certification

Spirent Abacus 5000

Tektronix Spectra 2

Functionality usually certified

Registration process

Basic call (incoming and outgoing)

OnHold/Resume

Speed Call List

Missed, received and placed call list

Multi-line

Multiple lines appearance

Music on Hold

Management DTMF (access to voice servers)

Name Display

Call Transfer with and without consultation

Forwarding (all types)

Voicemail (storage, consultation, notification)

Message Waiting indication

Conference

Fax handling (T38, T30)

Distinctive ringing (internal and external call)

Call admission control

Audio codec selection (G.729, G.711 and G.722)

Video codec selection (H.261 - H.263 - H.264)

Hot Desking

Call park

Campon

Click to call

Management of potential situations of failure (failure to VPN access, network and service platform)

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