

Alcatel Lucent Application Partner Program Inter-Working Report

Partner: Ascom Application type: VoWiFi handset Application name: Ascom i62 Alcatel-Lucent Platform: OmniPCX Office™

ascom

The product and release listed have been tested with the Alcatel-Lucent Communication Platform and the release specified hereinafter. The tests concern only the inter-working between the AAPP member's product and the Alcatel-Lucent Communication Platform. The inter-working report is valid until the AAPP member's product issues a new major release of such product (incorporating new features or functionality), or until Alcatel-Lucent issues a new major release of such Alcatel-Lucent product (incorporating new features or functionalities), whichever first occurs.

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Certification overview

Date of the certification	May 2014
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Alcatel-Lucent Communication Platform	OmniPCX Office
Alcatel-Lucent Communication Platform Release	R920/041.001
	i62 V5.1.22
AAPP member application version	OAW: 5.0.4.2 with
	AP126/12x
Application Category	Terminals
	Mobility
	DECT / Wi-Fi

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Revision History

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Test results

Passed

Postponed

Passed with restrictions

Refer to the section 6 for a summary of the test results.

Refused

IWR validity extension

None

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1 Introduction

This document is the result of the certification tests performed between the AAPP member's application and Alcatel-Lucent's platform.

It certifies proper inter-working with the AAPP member's application.

Information contained in this document is believed to be accurate and reliable at the time of printing. However, due to ongoing product improvements and revisions, Alcatel-Lucent cannot guarantee accuracy of printed material after the date of certification nor can it accept responsibility for errors or omissions. Updates to this document can be viewed on:

- the Technical Support page of the Enterprise Business Portal (<u>https://businessportal.alcatel-lucent.com</u>) in the Application Partner Interworking Reports corner (restricted to Business Partners)
- the Application Partner portal (<u>https://applicationpartner.alcatel-lucent.com</u>) with free access.

2 Validity of the Inter-Working Report

This inter-working report specifies the products and releases which have been certified.

This inter-working report is valid unless specified until the AAPP member issues a new major release of such product (incorporating new features or functionalities), or until Alcatel-Lucent issues a new major release of such Alcatel-Lucent product (incorporating new features or functionalities), whichever first occurs.

A new release is identified as following:

- a "Major Release" is any x. enumerated release. Example Product 1.0 is a major product release.
- a "Minor Release" is any x.y enumerated release. Example Product 1.1 is a minor product release

The validity of the interworking report can be extended to upper major releases, if for example the interface didn't evolve, or to other products of the same family range. Please refer to the "IWR validity extension" chapter at the beginning of the report.

Note: The inter-working report becomes automatically obsolete when the mentioned product releases are end of life.

3 Limits of the Technical support

Technical support will be provided only in case of a <u>valid Interworking Report</u> (see chapter 2 "Validity of the Interworking Report) and in the scope of the features which have been certified. That scope is defined by the Interworking report via the tests cases which have been performed, the conditions and the perimeter of the testing as well as the observed limitations. All this being documented in the IWR. The certification does not verify the functional achievement of the AAPP member's application as well as it does not cover load capacity checks, race conditions and generally speaking any real customer's site conditions.

Any possible issue will require first to be addressed and analyzed by the AAPP member before being escalated to Alcatel-Lucent.

For any request outside the scope of this IWR, Alcatel-Lucent offers the "On Demand Diagnostic" service where assistance will be provided against payment.

For more details, please refer to Appendix F "AAPP Escalation Process".

3.1 Case of additional Third party applications

In case at a customer site an additional third party application NOT provided by Alcatel-Lucent is included in the solution between the certified Alcatel-Lucent and AAPP member products such as a Session Border Controller or a firewall for example, Alcatel-Lucent will consider that situation as to that where no IWR exists. Alcatel-Lucent will handle this situation accordingly (for more details, please refer to Appendix F "AAPP Escalation Process").

4 Application information

Application type:	VoWiFi handset
Application commercial name:	Ascom i62
Application version:	V 5.1.22
Interface type :	SIP/Ethernet

Brief application description:

The Ascom i62 VoWiFi handset delivers wireless telephony service and integrates smoothly in the Alcatel-Lucent OXO/OAW environment through the standardized SIP and WiFi endpoint interfaces. All telephony features provided by Alcatel-Lucent OXO are available to the Ascom i62 handsets, including Broker call, Transfer, Conference, Waiting, Forwards. The solution also provides attendant calls and access to the OXO Voice mail boxes and DTMF dialing for navigation.

The Alcatel-Lucent OAW infrastructure and Ascom i62 forms a high-performance mobility solution with excellent speech quality and campus-wide handover while maintaining high network security through the use of WPA2 and 802.1X port-based authentication.

Type of application/product:



5 Test Environment



5.1 Hardware configuration

Alcatel-Lucent Communication Platform:

- OmniPCX Office Rack
- > PowerCPU
- Release: R920/041.001
- OMC: R921/25.1a

Setup Details

Setup Information OXO 1					
OXO 1 IP address	10.9.223.49				
Domain name	Oxoone.testandvalidate.com				
Voicemail No	500				
Attendant No	100				
OXO Extension Details used for test					
IP Touch numbers	124,123,122				
Ascom Dir numbers	126,127 ,134				
UA Set No	101				

Setup Information OXO 2					
Network OXO address	10.9.223.251				
Network OXO Domain name	Oxotwo.testandvalidate.com				
Network OXO Extension Details used for test					
Ascom Dir number	333				
IP Touch numbers	324 , 325 , 326				
UA Set No	301				

Note:

1) The Two OXO systems are connected via private SIP Trunk.

2) For some tests we will change the set type from IP Touch to UA set.

5.2 Software configuration

• Alcatel-Lucent Communication Platform: OmniPCX Office R920/041.001

• Partner Application: Ascom V5.1.22

Note: Ascom is registered in the OmniPCX Office as "Open SIP phone".

6 Summary of test results

6.1 Summary of main functions supported

Features	Status	Comments
Initialization including network configuration	OK	
SIP registration	OK	
SIP authentication	<mark>OK</mark>	
Voice over IP and RTP codec support	<mark>0K</mark>	
Outgoing Call	<mark>0K</mark>	
Incoming Call	<mark>0K</mark>	
Features During Conversation	<mark>ok</mark>	
Call Transfer	<mark>0K</mark>	
Attendant	OK	
Voice mail interaction and indication	OK	

6.2 Summary of problems

- > Hold tone is not heard in Ascom when initiated by the other extension in the call.
- The hold reinvite sent by the i62 set is not triggered by OXO due to an OXO nonce caching issue.

6.3 Summary of limitations

- In conference we are unable to see the other user information other than the one who initiated the conference.
- Call feature activation in the call server (CFU/CFB) for SIP extension is not displayed on the Ascom
- > Call back from sip phones is not supported by OXO.
- > MWI is only available from OXO version 920.041.001

6.4 Notes, remarks

> Ascom is registered in the OmniPCX Office as "Open SIP phone".

7 Test Result Template

Test Case Id	Test Case	N/A	ОК	NOK	Comment
1	Test case 1 Action Expected result 		\boxtimes		
2	 Test case 2 Action Expected result 		\boxtimes		The application waits for PBX timer or phone set hangs up
3	Test case 3 Action Expected result 	\boxtimes			Relevant only if the CTI interface is a direct CSTA link
4	 Test case 4 Action Expected result 			\boxtimes	No indication, no error message

The results are presented as indicated in the example below:

Test Case Id: a feature testing may comprise multiple steps depending on its complexity. Each step has to be completed successfully in order to conform to the test.

Test Case: describes the test case with the detail of the main steps to be executed and the expected result

N/A: when checked, means the test case is not applicable in the scope of the application **OK**: when checked, means the test case performs as expected

NOK: when checked, means the test case has failed. In that case, <u>describe in the field "Comment"</u> the reason for the failure and the reference number of the issue either on Alcatel-Lucent side or on Application Partner side

Comment: to be filled in with any relevant comment. Mandatory in case a test has failed especially the reference number of the issue.

8 Test Results

8.1 Connectivity and Setup

These tests shall verify that the different components are properly connected and can communicate together (the external application and the Alcatel-Lucent Communication Platform is connected and the interface link is operational).

Test Case Id	Test Case	N/A	ок	NOK	Comment
1	SIP sets Configure your SIP sets MCDU number on the OXO as 126, 127 & 134 to register with the OXO IP address Check the registration on your sets and the display Note that authentication is disabled for these users, the password doesn't matter.				
2	 SIP set registration to OXO in static IP addressing For this test we will try to register the SIP phone with authentication enabled. SIP phones 126, 127 & 134 are configured with a static IP address of OXO. Check the phone registration and display. Redo the same test on one IP phone with a wrong password and check that the phone is rejected. 				
3	DHCP registration (with OXO internal DHCP server)	\boxtimes			
4	NTP registration The SIP phone 134 is configured to retrieve the date and time from the OXO IP address. Check the phone retrieves the right date and time information and displays it.				
5	Support of "423 Interval Too Brief" (1) The SIP phone 127 is configured with a value lower than 120 seconds. Check the phone registration and display				
6	Signaling TCP-UDP If applicable configure your SIP set 127 to use the protocol SIP over UDP and other TCP In the two cases, check the registration and basic calls.				

8.2 Audio codec negotiations/ VAD / Framing

These tests check that the phones are using the configured audio parameters (codec, VAD, framing).

Phone configuration: configure Ascom to use G.722, G.711 A-law, G.711 mu-law, G.729, G.723 in this order (unless otherwise stated).

Configure IP Touch with codec G.711 and to NOT use VAD (unless otherwise stated).

Test Case Id	Test Case	N/A	ок	NOK	Comment
1	Select G711 A-law as 1 st codec in Ascom Call from SIP 127 to IP Touch 123 Check that the call is established in G711 A-law. Check audio quality Call from IP Touch 123 to SIP 127 Check that the call is established in G711 A-law. Check audio quality				
2	Select G729 as 1st codec in Ascom Call from SIP 127 to IP Touch 123 Check that the call is established in G729 Check audio quality Call from IP Touch 123 to SIP 127 Check that the call is established in G729 Check audio quality				
3	Select G723 as 1st codec in Ascom Check that the call is established in G723 Check audio quality Call from IP Touch 123 to SIP 127 Check that the call is established in G723 Check audio quality				G723 is not available in Ascom
4	Configure 127 to use VAD Configure IP Touch 123 NOT to use VAD Call from SIP 127 to IP Touch 123 Check that the call is established in G711 A-law. Check audio quality Configure SIP 127 to use VAD Configure IP Touch 123 to use VAD Redo the same tests Configure SIP 127 NOT to use VAD Configure IP Touch 123 to use VAD Redo the same tests				
5	In OXO enable codec pass through for SIP phones Call from SIP 126 to SIP 127 Check that the call is established using G.722 Check audio quality				

6	In OXO 1 and OXO 2 enable codec pass through for SIP phone; direct RTP and codec pass through for SIP trunk. G722 is preferred codec in Ascom Call from SIP 126 to Network SIP 324 Check that the call is established using direct RTP in G722. Check audio quality		
7	In OXO 1 and OXO 2 disable direct RTP and codec pass through for SIP trunk ARS table is configured with "default" codec. G722 is preferred codec in Ascom Call from SIP 126 to Network SIP 324 Check that the call is established in G711. Check audio quality		
8	In OXO 1 and OXO 2 disable direct RTP and codec pass through for SIP trunk ARS table is configured with codec G729_30 Call from SIP 126 to Network SIP 324 Check that the call is established in G729. Check audio quality		

8.3 Outgoing Calls

The calls are generated to several users belonging to the same network.

Called party can be in different states: free, busy, out of service, do not disturb, etc.

Calls to data devices are refused.

Points to be checked: tones, voice during the conversation, display (on caller and called party), hang-up phase.

OXO prefixes are mandatory for several tests of this section. For more information refer to the appendix C.

Note: dialing will be based on direct dialing number but also using programming numbers on the SIP phone (if available).

Test Case Id	Test Case	N/A	ок	NOK	Comment
1	Call to a local user With SIP Phone 127 call the IP Touch 124. Check that 124 is ringing. Take the call and check ring back tone audio and display.				
2	Call to local user with no answer With SIP Phone 134 call the IP Touch 124. And never take the call. Check time out (if any) and display. Note that 124 don't have a Voice Mail				124 is ringing until 134 releases the call
3	Call to another SIP set With the SIP phone 127 call the other SIP Phone 134 Check the display and audio during all steps (dialing, ring back tone, conversation, and release).				
4	Call to wrong number (SIP: "404 Not Found") With the SIP phone 127 call a wrong number Check the ring back tone and display				"Invalid number" is displayed on the phone.
5	Call to busy user (SIP: "486 Busy Here") With the SIP phone 127 call IP Touch 124, take the call and don't hang up. With other SIP phone 134 call 124 which is busy Check the ring back tone and display				
6	Call to user in "Out of Service" state (SIP: "480 Temporarily Unavailable") With the SIP phone 134 call the IP Touch 124 which is in "Out of Service State" Check the display and ring back tone				No response message is displayed

Test Case Id	Test Case	N/A	ок	NOK	Comment
7	Call to user in "Do not Disturb" (DND) state (SIP: "480 Temporarily not available") Dial "*63" on the IP Touch 124 in order to enable the DND. Wait for acknowledgement ring back tone from OXO. With the SIP phone 127 call 124. Check ring back tone and display.				User busy status is displayed if voice mail is disbled.
8	Call to local user, immediate forward (CFU). (SIP: "181 Forwarded")(1) On IP Touch 124 dial the *61123 (*61 + 123) to activate the CFU. Wait for acknowledgement ring back tone from OXO. With the SIP phone 127 call the 124. Check that 123 is ringing and the display. Take the call check audio and hung up. Dial *60 on 124 for forward cancellation.				The user information is shown properly
9	Call to local user, forward on no reply (CFNR). (1) On IP Touch 124 configure with OMC the CFNR using dynamic routing to 123. With 127 call the 124. Check that 124 is ringing but don't take the call and wait the time out (about 30 sec). Time out is defined in 124 dynamic routing of Timer 1. After time out check that 123 is ringing and take the call. Check the audio and display.				The user information is shown properly
10	Call to local user, forward on busy (CFB). (1) On IP Touch 124 dial the *62123 (*62+ <target MCDU number>) to activate the CFB. Wait for acknowledgement ring back tone from OXO. With SIP phone 127 call 124 and take the call to make it busy. With other SIP phone 134 call 124. Check that 123 is ringing and take the call. Check the audio and display. Dial *60 on 124 for forward cancellation.</target 				
11	Call to external number (Check ring back tone, called party display) With SIP set 127 dial 9 (9 prefix +external number) Take the call and check audio, display and call release.				
12	SIP session timer expiration: Check if call is maintained or released after the session timer has expired With SIP set 127 call IP Touch 124. Take the call on 124 and never hang up, wait for time out expiration. Check that call is maintained or release.				

Notes:

(1) For test cases with call to forwarded user: User is forwarded to another local user. Special case of forward to Voice Mail is tested in another section.

8.4 Incoming Calls

Calls will be generated using the numbers or the name of the SIP user. SIP terminal will be called in different states: free, busy, out of service, forward. The states are to be set by the appropriate system prefixes unless otherwise noted. Points to be checked: tones, voice during the conversation, display (on caller and called party), hang-up phase.

Network calls are made using SIP private trunk established between two OXO's. OXO prefixes are mandatory for several tests of this section. For more information refer to the appendix C.

Test Case Id	Test Case	N/A	ок	NOK	Comment
1	Local /network call to free SIP terminal Local: with IP Touch 124 call SIP set 127. Check that 127 is ringing and take the call Check ring back tone and called party display.				
	<u>Network</u> : with IP Touch 124 call SIP set 323 on another Node. Check that 323 is ringing and take the call. Check ring back tone and called party display.				
2	Local/network call to busy SIP terminalLocal:With SIP set 134 call other SIP set 127 and takethe call to make it busy, don't hang up.With IP Touch 123 call 127 which is busyCheck the ring back tone and display.Network:With SIP set 127 call SIP set 123 and take thecall to make it busy, don't hang up.With 324 call 127 which is busyCheck ring back tone and called party display.				
3	Local/network call to unplugged SIP terminalLocal: Unplug the 127 SIP set and call it with IP Touch124.Check the ring back tone and displayNetwork: Unplug the SIP set 123 and call it with 124Check the ring back tone and display				Call to SIP phone is not routed to its VMU until OXO detects SIP phone is unregistered (after register time out)
4A	Local/network call to SIP terminal in Do Not Disturb (DND) mode By local feature if applicable: Local: Enable DND on SIP set 127 and call it with IP Touch 124 Check the ring back tone and display Cancel the DND on 127. <u>Network</u> : Enable DND on SIP set 123 and call it with IP Touch 124 Check the ring back tone and display Cancel the DND on 127.				

Test Case Id	Test Case	N/A	ОК	NOK	Comment	
	By system feature					
	Local: Enable DND on SIP set 127 using the *63 prefix. Wait for acknowledgement ring back tone from OXO.					
4B	With IP Touch 124 call 127 Check the ring back tone and display Cancel the DND on 127 using *63 prefix.					
	<u>Network</u> : Enable DND on SIP set 123 using the *63 prefix. Wait for acknowledgement ring back tone from OXO.					
	With IP Touch 124 call 123 Check the ring back tone and display Cancel the DND on 123 using * 60 prefix. Local/network/SIP call to SIP terminal in immediate					
5A	By local feature if applicable: Local: On SIP set 127 enable CFU to IP Touch 124 With SIP set 134 call 127. Check that 124 is ringing. Take the call and check audio and display. Disable CFU on 127. Network: On SIP set 123 enable CFU to IP Touch 102. With SIP set 127 call 123. Check that 102 is ringing. Take the call and check audio and display. Disable CFU on 127. Network: On SIP set 123 enable CFU to IP Touch 102. With SIP set 127 call 123. Check that 102 is ringing. Take the call and check audio and display. Disable CFU on 123.					
	By system feature:					
5B	Local: On SIP set 127 enable CFU to IP Touch 124 using *61124 prefix (*61 + <target mcdu="" number="">). Wait for acknowledgement ring back tone from OXO. With SIP set 134 call 127. Check that 124 is ringing. Take the call and check audio and display. Disable CFU on 127 using *60 prefix. <u>Network</u>: On SIP Set 123 enable CFU to IP Touch 102 using *61122 prefix (*61 + <target mcdu="" number="">). Wait for acknowledgement ring back tone from OXO. With SIP Set 134 call 123. Check that 102 is ringing. Take the call and check audio and display.</target></target>					
	Disable CFU on 123 using *60 prefix.					
В	Local/network/SIP call to SIP terminal in immediateforward (CFU) to network number:By local feature if applicable:Local: On SIP Set 134 enable CFU to SIP Set122.WithSIP set 127 call 134. Check that 122 is ringing.Take the call and check audio and display.Disable CFU on 134.Network: On SIP Set 127 enable CFU to IP Touch 102.With SIP Set 123 call 127. Check that 102 is ringing.Take the call and check audio and display.Disable CFU on 127.					

Test Case Id	Test Case	N/A	ок	NOK	Comment
	By system feature:				
6В	Local: On SIP Set 127 enable CFU to SIP Set 122 using *61122 prefix (*61 + <target mcdu="" number="">). Wait for acknowledgement ring back tone from OXO. With SIP set 134 call 127. Check that 122 is ringing. Take the call and check audio and display. Disable CFU on 127 using *60 prefix.</target>		X		
	<u>Network</u> : On SIP Set 127 enable CFU to IP Touch 102 using *61102 prefix (*61 + <target mcdu="" number="">). Wait for acknowledgement ring back tone from OXO. With SIP Set 123 call 127. Check that 102 is ringing. Take the call and check audio and display.</target>				
	Disable CFU on 127 using *60 prefix. Local/network/SIP call to SIP terminal in immediate forward (CFU) to another SIP user				
7A	By local feature if applicable: Local: On SIP set 127 enable CFU to SIP set 122. With 134 call 127. Check that 122 is ringing. Take the call and check audio and display. Disable CFU on 127. Network: On SIP set 127 enable CFU to IP Touch 103. With SIP Set 122 call 127. Check that 103 is ringing. Take the call and check audio and display.				
	By system feature:				
78	Local: On SIP Set 134 enable CFU to SIP Set 122 using *61122 prefix (*61 + <target mcdu="" number="">). Wait for acknowledgement ring back tone from OXO. With SIP Set 127 call 134. Check that 122 is ringing. Take the call and check audio and display. Disable CFU on 134 using *60 prefix. <u>Network</u>: On SIP Set 134 enable CFU to IP Touch 103 using *61123 prefix (*61 + <target mcdu="" number="">). Wait for acknowledgement ring back tone from OXO. With SIP Set 122 call 134. Check that 103 is ringing. Take the call and check audio and display.</target></target>				CFU is activated and working in the call server but OXO returns a SIP msg "487 Request Terminated".
	Local call to SIP terminal in "forward on busy" (CFB)				
8A	state: By local feature if applicable On SIP Set 127 enable CFB to IP Touch 124 With 127 call the voice mail at 500 to make it busy. With SIP Set 134 call 127 which is busy. Check that 124 is ringing Take the call and check audio and display.				Call waiting has to be disabled in Ascom device
	Disable CFU on 127.				

Test Case Id	Test Case	N/A	ок	NOK	Comment
	By system feature:				
8B	On SIP Set 127 enable CFB to IP Touch 124 using *62124 prefix (*62 + <target mcdu="" number="">). Wait for acknowledgement ring back tone from OXO. With 127 call the voice mail at 500 to make it busy. With SIP Set 134 call 127 which is busy. Check that 124 is ringing Check the Call waiting or ring back tones and display Disable CFB on 127 using *60 prefix.</target>				
	Local call to SIP terminal in "forward on no reply" (CENR)				
9A	By local feature if applicable On SIP Set 134 enable CFNR to IP Touch 124 With SIP Set 127 call 134. Check that 134 is ringing and don't take the call, wait for time out (about 30 seconds).				
	After time out expiration the 124 is ringing, take the call and check audio and display.				
	By system feature				
9B	CNFR via prefix not available on OXO (dynamic routing has to be used)				
10	Call to busy user, Call waiting. (Camp-on), local feature if applicable: With SIP Set 127 call other SIP Set 134 (multiline set) to make it busy, take the call and don't hang up. With IP Touch 123 call 134 (on 134 camp-on feature is enabled).				
11	External call to SIP terminal. Check that external call back number is shown correctly: With SIP Set 134 dial 9 + target MCDU number. Check that external is ringing and the external call number is shown correctly Take the call and check audio, display and call release.				
12	Calling Line Identity Restriction (CLIR): Local call to SIP terminal. On IP Touch 123 enable mask Identity and call SIP Set 134 in order to hide 123 identity. Check that 134 is ringing, take the call and check that 123 identity is hidden.				Identity secrecy to be enabled in Features
13	Display: Call to free SIP terminal from IP Touch user with a name containing non-ASCII characters (eg éëêèè). Check caller display. Check that SIP set is ringing and check on its display that the characters are correctly printed.				
14	Display: Call from IP Touch to SIP which has the name containing non-ASCII characters, eg &@(#+)=. Check caller display. Check that SIP set is ringing and check that the characters are correctly printed.				

Test Case Id	Test Case	N/A	ОК	NOK	Comment
15	SIP set is part of a sequential hunt group (1). Call to hunt group. Check call/release. With IP Touch 124 call the sequential hunt group MCDU number 328 Check that 127 is ringing Take the call and don't hang up. And with IP Touch 123 call the sequential hunt group MCDU number 328 Check that 123 is ringing Take the call and don't hang up. And with SIP Set 126 call the sequential hunt group MCDU number 328 Check that 134 is ringing Take the call and don't hang up.				
16	SIP set is part of a cyclic hunt group (2). Call to hunt group. Check call/release. With IP Touch 124 call the cyclic hunt group MCDU number 123 Check that 126 is ringing Take the call and hang up. And with 124 call the cyclic hunt group MCDU number 123 Check that 134 is ringing Take the call and hang up. And with SIP Set 126 call the cyclic hunt group MCDU number 123 Check that 127 is ringing Take the call and don't hang up.				
17	SIP set is declared as a MultiSet. Call to main set and see if twin set rings. Take call with twin set. With IP Touch 123 call IP Touch 124 which is in MultiSet with SIP Set 134. Check that 134 and 124 both ringing. Take the call from 134 and check that 124 stop ringing. Check audio and display.				

Notes:

(1) Sequential Hunt Group behavior: the endpoint n+1 is ringing **only** if the endpoint n is now in call (busy).

(2) Cyclic Hunt Group behavior: the endpoint n+1 is ringing if previously the endpoint n has been reached (ringing only or in call). The actual state of the n endpoint doesn't matter.

8.5 Features during Conversation

Features during conversation between local user and SIP user must be checked.

Check that right tones are generated on the SIP phone. A multiline SIP set is mandatory for tests 2, 3, 4 and 8.

OXO prefixes are mandatory for several tests of this section. For more information refer to the appendix C.

Test Case Id	Test Case	N/A	ок	NOK	Comment
1A	 Hold and resume with local feature (if applicable) With 134 call 124 take the call, check audio and display. With 134 put 124 on hold check tones and display on both and resume the call. With 124 put 134 on hold check tones and display on both and resume the call. Keep this call for the next test. 				When we initiate hold from other user to Ascom phone, there is no hold tone heard on Ascom. The hold reinvite sent by the i62 is not triggered by OXO due to an OXO nonce caching issue.
1B	Enquiry call to another local user (if applicable) Distant user is put on hold with local feature With 134 (multi-lines) call 123 and take the call. 124 will be put on hold when making second call to 123 Put 123 on hold and check tones and display on both. Keep these two calls for the next test.				
1C	 Broker request, toggle back and forth between both lines with local feature (if applicable) With 134 switch between 124 and 123 lines. Check the tones and display on sets on hold state. Keep these two calls for the next test. 				
1D	Release first call. Keep second call. Hang up 124 and only 134 and 123 are in call Check that 134 & 123 are still in a call, check display.				
2	Repeat the test 1C to 1D but using the call server feature	\boxtimes			Hold, enquiry, broker call functionality are not supported within call server for SIP extension
3	Three party conferences initiated from OXO set With 124 call 127, take the call and don't release it. With 124 call 122, take the call and don't release it too. With 124 start a conference. Check that 124, 123 and 127 are in conference. Check audio and display.				SIP extension display is not updated when OXO users initiate the conference

Test Case Id	Test Case	N/A	ок	NOK	Comment
4A	Three party conferences initiated from SIP set with local feature (if applicable) With 127 call 124, take the call and don't release it. With 127 call 123, take the call and don't release it too. With 127 start a conference by the local feature Check that 124,123 and 127 are in conference. Check audio and display.				Display on IP Touch sets doesn't show the second user in the conference initiated on the SIP extension.
4B	Three party conferences initiated from SIP set with OXO feature	\boxtimes			Conference feature is not supported within call server for SIP device.
5	Meet Me conference With 134 call the Meet me Conference bridge dialing prefix 68 and follow instruction to open the bride. With 127 join the conference bridge by dialing prefix 69 and enter access code. With 124 join the conference bridge by dialing prefix 69 and enter access code. Check that 124, 127 and 134 are in conference.				

8.6 Call Transfer

During the consultation call step, the transfer service can be requested and must be tested. Several transfer services exist: Unattended Transfer, Semi-Attended Transfer and Attended Transfer.

Audio, tones and display must be checked.

We use the following scenario, terminology and notation:

There are three actors in a given transfer event:

- A *Transferee*: the party being transferred to the Transfer Target.
- B Transferor: the party doing the transfer.
- C Transfer Target: the new party being introduced into a call with the Transferee.

There are three sorts of transfers in the SIP world:

- **Unattended Transfer** or *Blind transfer*: The Transferor provides the Transfer Target's contact to the Transferee. The Transferee attempts to establish a session using that contact and reports the results of that attempt to the Transferor.
- Semi-Attended Transfer or Transfer on ringing:
- 1. A (Transferee) calls B (Transferor).
- 2. B (Transferor) calls C (Transfer Target). A is on hold during this phase. C is in ringing state (does not pick up the call).
- 3. B executes the transfer. B drops out of the communication. A is now in contact with C, in ringing state. When C picks up the call it is in conversation with A.
- Attended Transfer or Consultative Transfer or Transfer in conversation:
 - 1. A (Transferee) calls B (Transferor).
 - 2. B (Transferor) calls C (Transfer Target). A is on hold during this phase. C picks up the call and goes in conversation with B.
 - 3. B executes the transfer. B drops out of the communication. A is now in conversation with C.

Note: Unattended and Semi Attended transfer are not supported for SIP phones on OmniPCX Office.

In the below table, SIP means a partner SIP set, OXO means a proprietary OXO (Z/UA/IP) set, Ext. Call means an External Call, ISDN for example.

Test	Action			Result	Comment
	А	В	С		
	Transferee	Transferor	Transfer Target		
1	OXO	SIP	OXO	<mark>0K</mark>	
2	Ext Call	SIP	OXO	<mark>0K</mark>	
3	Ext Call	SIP	Ext Call	<mark>0</mark> K	
4	SIP	SIP	SIP	<mark>0</mark> K	
5	SIP	OXO	OXO	<mark>0K</mark>	
6	Ext Call	OXO	SIP	<mark>0K</mark>	
7	SIP	OXO	SIP	OK	

8.7 Attendant

An attendant console is defined on the system. Call going to and coming from the attendant console are tested.

Test Case Id	Test Case	N/A	ок	NOK	Comment
1	SIP set call to attendant From SIP set 127 dial "9" (attendant call prefix) Check audio and display				Display on 127 shows internal number/name of Attendant extension
2	2 nd incoming call while in conversation with attendant While SIP set 127 is in conversation with the attendant, from IP Touch 123 call 127 Answer the call and check audio and display				
3	SIP set call to attendant, attendant transfers to OXO set, semi-attended From SIP set 127 dial "9" (attendant call prefix) and answer. Attendant transfer semi-attended to IP Touch 123 Answer the call and check audio and display				
4	SIP set call to attendant, attendant transfers to OXO set, attended From SIP set 127 dial "9" (attendant call prefix) and answer Attendant transfer attended to IP Touch 123 Check audio and display				
5	OXO set calls to attendant, attendant transfers to SIP set, attended From IP Touch 123 dial "9" (attendant call prefix) and answer Attendant transfer attended to SIP set 127 Check audio and display				
6	External ISDN Call to attendant, attendant transfers to SIP set, attended ISDN incoming call to the attendant. From the attendant call SIP set 127 and transfer attended Check audio and display				
7	SIP set call to attendant, attendant transfers to External From SIP set 127, dial "9" (attendant call prefix) and answer From the attendant, call an external ISDN destination and transfer semi-attended Answer and check audio and display.				

8.8 Voice Mail

Voice Mail notification, consultation and password modification must be checked. MWI (Message Waiting Indication) has to be checked.

The default Voice Mail number is 500, and this service is enabled on SIP sets 127, 134 and OXO 124.

For these tests, DTMF sending (RFC 2833) has to be validated in order to use Voice Mail menu.

Test Case Id	Test Case	N/A	ок	NOK	Comment
	Password modification With SIP set 134 call the Voice Mail at 500 and follow the Voice guide in order to modify the default password.				
1	When modification is accepted hang-up.				
	Recall the voice mail and try to log with a wrong password. Check the rejection.				
	Recall the voice mail and try to log with the right password. Check the service access.				
2	Message display activation, MWI (1): With SIP set 127 call the Voice Mail at 500. Follow the instructions in order to send a voice message in SIP set 134 boxes.				MWI is only available from OXO version 920.041.001
	Check that the MWI on 134 is activated.				
3	With SIP set 134 call the Voice Mail at 500. Follow the instructions in order to listen your voice message leaved during the previous test. Check that you can listen it and delete. Check that MWI display is disabled on 134 after				
	message cancellation.				
4	SIP call to a OXO user forwarded to Voice Mail Forward the IP Touch 124 to Voice Mail by dialing *61500 (*61 prefix + <voice mail="" number="">). With SIP set 134 call 124 and check that you are immediately forwarded to Voice Mail. Check that you can leave a message On 124 disable Voice Mail forwarding with *60</voice>				
	prefix.				
5	OXO set call to a SIP user forwarded to Voice Mail Forward the SIP set 134 to Voice Mail by dialing *61500 (*61 prefix + <voice mail="" number="">). With IP Touch 124 call 134 and check that you are immediately forwarded to Voice Mail. Check that you can leave a message</voice>				
	On 134 disable Voice Mail forwarding with *60 prefix.				

Notes:

(1) On SIP sets, in order to enable the MWI feature, you have to configure the Voice Mail number.

8.9 Defence

Checks how the SIP set will react in case of an OXO reboot, Ethernet link failure.

Test Case Id	Test Case	N/A	ок	NOK	Comment
1	OXO Reboot Establish an incoming ISDN call with SIP set-1. Reboot the OXO.				
	When the OXO is up again, re-establish an incoming ISDN call with SIPset-1 and check the audio.				
2	Ethernet link failure Establish an incoming ISDN call with SIP set-1. Disconnect the Ethernet link of SIP set-1. Check that the incoming call is presented to the attendant. Reconnect the Ethernet link of SIP set-1. Re-establish an incoming ISDN call with SIP set-1 and check the audio.				ISDN call is rerouted to attendant after register time-out

9 Appendix A: AAPP member's Application Description

The Ascom i62 VoWiFi handset delivers wireless telephony service and integrates smoothly in the Alcatel-Lucent OXE/OAW environment through the standardized SIP and WiFi endpoint interfaces. All telephony features provided by Alcatel-Lucent OXE SEPLOS (SIP Endpoint Level of Service) are available to the Ascom i62 handsets, including Broker call, Transfer, Conference, Call back, Waiting, Forwards, in intra-node and inter-nodes communications. The solution also provides attendant calls and access to the OXE Voice mail boxes and DTMF dialing for navigation.

The Alcatel-Lucent OAW infrastructure and Ascom i62 forms a high-performance mobility solution with excellent speech quality and campus-wide handover while maintaining high network security through the use of WPA2 and 802.1X port-based authentication.



10 Appendix B: Configuration requirements of the AAPP member's application

Ascom i62:

Ascom requires Win PDM software for configuration.



To configure the device we need to create a number in the WIN PDM software as below.

👩 Test - WinPDM		2-1- e e 5	1	-			23
File Device Num	ber Template Options	Help					
Devices Numbers	Templates						
New Edit Delete							
Device types:	Search for:	in: Descript	tion 👻 Sha	ow all			
(All)	Description Number	Device type Paramet [Device ID	O Status	Saved La	st Login Last run	
162 Taiker	134	162 Talk	00125160500	- Sunchronized	✓ 201	14-03-0	
	127	i62 Talk New numbers	and the second second	chronized	✓ 201	14-03-0	- 1
		Device type: Parameter version: Template: Prefix Single Call n Range Start Stop	i62 Talker 14.269 None x: 134 number:				
			OK Car	ncel			

After creation of a number the SIP parameters of the extension have to be configured.

The extension must have parameters of the extension created in the OXO.

Test - WinPDN	1 ber Templa	te Ontions	Help	-		-	-		1 4	_ 0 _	×
Devices Numbers	Templates	te options	Theip								
	remplates										
New Edit Delete											
Device types:	Search for:			in: Descr	iption 👻	Show all					
(All)	Description	Number	Device type	Paramet	Device ID	0	Status	Saved	Last Login	Last run	
i62 Talker		127	i62 Talker	14.269	00013E160EF6		Synchronized	✓	2014-03-0		
		134	New	14.960	<u></u>		Synchronized	\checkmark			
			Telle								
			Cult param	eters							
			Edit descrip	tion							
				ates							
			Copy								
			Kename								
			Export								
			Save								
			Delete		_						
			Run templa	ate							
			Use as tem	plate	_						
			Go to devic	e							
			Associate v	vith device	_						
			Export cont	tacts							
											-
1 item selected						_					///

Network settings

dit parameters for 134			x
Device type: i62 Talker			
Parameter version: 14.269			
Network	Name	Value	
Network A	Network name DHCP mode	Off (static mode)	0
Network D	Phone IP address Subnet mask	10.9.223.59 255.255.255.0	0
	Default gateway Primary DNS	10.9.223.100 10.9.223.49	0
Presence Location	Secondary DNS 802.11 protocol	0.0.0.0 802.11b/g/n	0
wwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwww	SSID Security mode	Open	000
Headset	802.11b/g/n channels Advanced: 802.11 channels	All	00
	World mode regulatory domain Transmission power	ETSI Automatic	0
	IP DSCP for voice IP DSCP for signaling	0x2E (46) - Expedited Forwar 0x1A (26) - Assured Forwardi	0
	TSPEC Call Admission Control Transmit gratuitous ARP	Off No	8
	Deauthenticate on roam Roaming methodology	No 802.11 roaming	0
	Maximum transfer unit Aruba 800 controller compability	1400 No	8
		OK Cance	4

SIP Account Settings:

Network General	Name	Value	
 Network General Network A Network B Network C Network D Device Audio Presence Location VoIP General H.323 SIP Customization Headset User Profiles Shortcuts 	Name SIP Transport Outbound proxy mode Primary SIP proxy Secondary SIP proxy Listening port SIP proxy ID SIP proxy password Send DTMF using RFC 2833 or Hold type Registration identity Authentication identity Call forward locally MOH locally Hold on Transfer Direct signaling SIP Register Expiration SIP Message behavior	Value UDP No 10.9.223.49:5059 5060 10.9.223.49:5059 5060 10.9.223.49:5059 ####################################	

Voice mail configuration



134 is the SIP OXO extension number, 67 is the "Mailing" prefix After configuring the parameters insert the Ascom device in the USB dongle connected to the PC and in the displayed menu we need to associate the created number to the device to apply the settings to the device.

Device Wizard
Welcome to the Found Device Wizard
WinPDM has detected a i62 Talker device with parameter version 14.269
What do you wish to do with this device?
Associate with number
Associate this device with an available number.
🔘 Run template
There are no compatible templates for this device.
Edit parameters
Edit parameters on this device.
Do nothing
Close this dialog without any further actions.
Click Next to continue
Next > Cancel

After associating to the number the appropriate Device ID should appear next the number in the table shown below. The device will reboot and come in service if the setting are correct.

👩 Test - WinPDM			E - 10-		-	_	-			
<u>File</u> <u>D</u> evice <u>N</u> um	ber <u>T</u> emp	late Options	<u>H</u> elp							
Devices Numbers	Templates									
New Edit Delete										
Device types:	Se <u>a</u> rch for	:		in: Descr	ription 👻 She	o <u>w</u> all				
(All)	Description	Number	Device type	Paramet	Device ID	0	Status	Saved	Last Login	Last run
i62 Talker		127	IUZ TAINCI	17.205	000132100210		Synchronized	v	2017-03-0	A
		134	i62 Talker	14.269	00013E160F00	\checkmark	Synchronized	\checkmark	2014-03-0	SIP
	-									

Software upgrade

👩 Test - WinPD	M	11-11-1		S. S. Lanca	-	1.4		ΩΣ	3
<u>File D</u> evice <u>N</u> u	mber <u>T</u> emplate	Option <u>s</u> <u>H</u> elp							
Devices Number	rs Templates								
Delet Upgrade s	oftware Caucel								
Device types:	Search for:		in: La	atest number 👻 Sho	<u>w</u> all				
(All)	Description	Device ID	Device type	Software version	Parameter version	Upgrade	Online	Lat	
i62 Talker		00013E160EFF	i62 Talker	5.1.22	14.269			126	
		00013E160EF6	i62 Talker	5.1.22	14.269			127	
		00013E160F00	i62 Talker	5.1.22	14.269		\checkmark	134	
		Upgrade softw evice type: i62 Tr mported	are alker <u>A</u> vailable files: [/	Ascom_i62_Talker_v5.1.22.bin	• Import OK Cance	× .			

Place the device in dongle select upgrade in the menu and flashing process will start and status can be seen as below.

👩 Test - WinPDM				5 5 mm	-	1.4			٢
<u>File Device Num</u>	ber <u>T</u> emplate	Option <u>s</u> <u>H</u> elp							
Devices Numbers	Templates								
P D									
Delete Upgrade sof	tware Cancel								
Device types:	Search for:		in: La	atest number 🔹 Sho	o <u>w</u> all				
(All)	Description	Device ID	Device type	Software version	Parameter version	Upgrade	Online	Lat	
8118 i62 Talkor		00013E112377	8118	4.2.2	14.112				
IO2 Talker		00013E160EFF	i62 Talker	5.1.22	14.269			126	
		00013E160EF6	i62 Talker	5.1.22	14.269			127	
		00013E160F00	i62 Talker	5.1.22	14.269	68%	\checkmark		

11 Appendix C: Alcatel-Lucent Communication Platform: configuration Requirements

OXO Configuration

1. Dialing Plan

			Nun	nbering	Plans			×
Internal Numbering Plan	Public Number	ing Plan	Restricted I	^P ublic Num	bering Plan	Private N	umbering Plan	
Function Secondary Trunk Grou Room Status Set Replace Set Retrieve Attendant Call Subscriber Subscriber Secondary Trunk Grou Hunting Group Mailing ACD Prefix Main Trunk Group	Start P ▼ 300 *85 *870 *880 0 100 200 0 300 P 400 500 67 680 9	End 399 *85 *870 *880 0 199 299 399 434 525 67 681 9	Base ARS 0 100 200 ARS 1 500 0 0	NMT Keep Drop Drop Drop Drop Drop Drop Drop Dro	Priv Yes V No No No No No No No No No No	Fax	SIP Acc.Index	Add Delete Modify Up Down
	ncel							

2. DNS/DHCP Configuration

LAN Co	onfiguration	Boards	IP Addresses for PPP
Routir	ng	Priority Mapping	DNS/DHCP
) omain Na	me Servers		
DNS 1			10.9.223.23
			10.0.000.04
DNS 2			10.3.223.24
	8		
Range	Start IP Address	End IP Address	Subnet Mask
Range	Start IP Address	End IP Address	Subnet Mask 255.255.255.0
Range 1 2	Start IP Address	End IP Address 10.9.223.60	Subnet Mask 255.255.255.0 255.255.255.0
Range 1 2 3	Start IP Address	End IP Address 10.9.223.60	Subnet Mask 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0
Range 1 2 3 4	Start IP Address	End IP Address 10.9.223.60	Subnet Mask 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0
Range 1 2 3 4 OmniSwiti	Start IP Address	End IP Address 10.9.223.60	Subnet Mask 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0
Range 1 2 3 4 OmniSwite Enable	Start IP Address	End IP Address 10.9.223.60	Subnet Mask 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0 MAC/IP
Range 1 2 3 4 OmniSwite Enable Range	Start IP Address 10. 9.223. 50 ch: DHCP IP Range	End IP Address 10.9.223.60 End IP Address	Subnet Mask 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0 255.255.255.0 Subnet Mask

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3. Trunk Configuration

VoIP: Parameters	x
General Gateway DSP DHCP Fax SIP SIP Phone Codecs	
Number of VoIP-Trunk Channels 30 ♥ Number of VoIP-Subscriber Channels 18 IP Quality of Service 10111000 DIFFSERV_PHB_EF ♥ VoIP Protocol SIP IP To Trunks Codec pass-through for SIP trunks IP Codec pass-through for SIP trunks Codec pass-through for SIP phones IP G711 codec for Music on Hold and preannouncement IP G711 codec for Music on Hold and preannouncement	
OK Cancel	

	Т	runk Groups	: Details	x
Index 2	No. Type 400 See	e Na quential	me	
Phy. Add.	Асс. Туре	Identifier	No of Chan.	Add
95-001-01	VolP	V001	30	Delete
				Modify
				Up
				Down
				Link-Cat.
ОК	Cancel			

4. Trunk Access

	L	ist of Access	es	×
 Phy. Add. 02-009-01 02-010-01 02-011-01 02-012-01 95-001-01 	O Acc. Type T0 T0 T0 T0 VolP	Identifier N001 N002 N003 N004 V001	No of Chan. 2 2 2 30	Delete
Return				

5. ARS Configuration

омс	Automatic	: Routing	: Prefix	kes								
OMC ^	Activation	Network	Prefix	Ranges	Substitute	TrGpList	Called(ISVPN/H450)	User comment	Destination	IP Type	IP Address	Hostnar
	Yes	priv	3	00-99	3	1	hom	c	SIP Gate	Static	10.9.226.251	
est test												
- 🍏 Customer/Supplier Info												
🔣 Installation typical												
■ 03 Numbering ■												
- Features in Conversation												
DDI Number Modification Ta												
- Splitting Table												
- End of Dialing Table												
- Automatic Routing Selection												
- Automatic Routing: Prefi												
Gateway Parameters												
SIP Accounts												
SID Dublic Numbering												

6. SIP Set Configuration

Subscrib	er		x
Phy. Add. 94-008-01		Keys	V 24
Name		Features	Password
Dir. Numbers		Metering	ISDN
Int. No. L 134	More	Pers SPD	Services
Secondary sets			Mar
Associated set		Spa Diai	MISC.
Terminal		Barring	Diversion
IP/SIP Parameters	x	Dyn. Rout.	Sel.Divers
IP Parameters SIP Parameters		DECT/PWT	Hotel
		IP/SIP	Appoint.
SIP password Percent		Cent.Serv	Mailbox
110300		Mobility	Reset
✓ SIP authentication			
_			
		Physical in service	
		SIF negistration UK	
		Out of Service (log	ically)
OK Cancel			

7. Lists of OXO prefixes used in tests

ternal Numbering Plan Publ	ic Numbe	ring Plan	Restricted F	Public Nun	nbering Plan	Private N	umbering Plan	
unction	Start	End	Base	NMT	Priv	Fax	SIP Acc.Index	Add
Mailing 🗸 🗸	67	67		Drop	∨ No	\sim	\sim	Dalata
Subscriber	100	199	100	Drop	No			Delete
Secondary Trunk Group	200	299	ABS	Keen	Yes		<u>^</u>	Modifu
Subscriber	300	349	300	Drop	No			mouny
Secondary Trunk Group	400	434	1	Drop	No			Up
Hunting Group	500	525	500	Drop	No			
Appointment	60	60		Drop	No			Down
Pick Up	65	65	3	Drop	No			
Account Code New	66	66	1000	Drop	No			
Mailing	67	67		Drop	No			
ACD Prefix	680	681	0	Drop	No			
Programming Mode	70	70		Drop	No			
Ріск Ор	1	73	U	Dtob	NO		*	

12 Appendix D: AAPP member's Escalation Process

The following list of contacts can be used to escalate possible issues according to the country:

	Technical Manager/			
Company/Country	.	e-mail		
	Service Manager			
Ascom AG, Wireless Solutions, CH	Christoph Gsell	christoph.gsell@ascom.ch		
Ascom Tateco AS, NO	Morten S. Pettersen	Morten.Pettersen@ascom.no		
Ascom Nira BV, NL	Kees Voorwinden	Kees.Voorwinden@ascom.nl		
Ascom Nira BV, NL	Jacques Koring	Jacques.Koring@ascom.nl		
Ascom Tele-Nova Ltd, UK	Adrian Davenport	Adrian.Davenport@ascomtelenova.co.uk		
Ascom Wireless Solutions Inc., USA	Tim Overstreet	Tim.Overstreet@ascomwireless.com		
Ascom France, FR	Jose Rodrigues	jose.rodrigues@ascom.fr		
Ascom Danmark, DK	Jaap Bootsman	Jaap.bootsman@ascom.dk		
Ascom Germany GmbH, DE	Hermann Füg	Hermann.Fueg@ascom.de		
Ascom NV/SA, BE	Kees Voorwinden	Kees.Voorwinden@ascom.nl		
Ascom Austria, AT	Bernhard Muller	Bernhard.muller@ascom.com		
Ascom Sverige, SE	Charlotta Nordelöf	Charlotta.nordelöf@ascom.se		
Exhibo SpA, IT	Domenico Pirillo	domenico.pirillo@exhibo.it		
International	Marko Savinainen	marko.savinainen@ascom.se		

13.1 Alcatel-Lucent Application Partner Program (AAPP)

The Application Partner Program is designed to support companies that develop communication applications for the enterprise market, based on Alcatel-Lucent's product family. The program provides tools and support for developing, verifying and promoting compliant third-party applications that complement Alcatel-Lucent's product family. Alcatel-Lucent facilitates market access for compliant applications.

The Alcatel-Lucent Application Partner Program (AAPP) has two main objectives:

- **Provide easy interfacing for Alcatel-Lucent communication products**: Alcatel-Lucent's communication products for the enterprise market include infrastructure elements, platforms and software suites. To ensure easy integration, the AAPP provides a full array of standards-based application programming interfaces and fully-documented proprietary interfaces. Together, these enable third-party applications to benefit fully from the potential of Alcatel-Lucent products.
- Test and verify a comprehensive range of third-party applications: to ensure proper inter-working, Alcatel-Lucent tests and verifies selected third-party applications that complement its portfolio. Successful candidates, which are labelled Alcatel-Lucent Compliant Application, come from every area of voice and data communications.

The Alcatel-Lucent Application Partner Program covers a wide array of third-party applications/products designed for voice-centric and data-centric networks in the enterprise market, including terminals, communication applications, mobility, management, security, etc.

13.2 Web site

The Application Partner Portal is a website dedicated to the AAPP program and where the InterWorking Reports can be consulted. Its access is free at http://applicationpartner.alcatel-lucent.com



13.3 Alcatel-Lucent.com

You can access the Alcatel-Lucent website at this URL: http://www.Alcatel-Lucent.com/

14.1 Introduction

The purpose of this appendix is to define the escalation process to be applied by the Alcatel-Lucent Business Partners when facing a problem with the solution certified in this document.

The principle is that Alcatel-Lucent Technical Support will be subject to the existence of a valid InterWorking Report within the limits defined in the chapter "Limits of the Technical support".

In case technical support is granted, Alcatel-Lucent and the Application Partner are engaged as following:



(*) The Application Partner Business Partner can be a Third-Party company or the Alcatel-Lucent Business Partner itself

14.2 Escalation in case of a valid Inter-Working Report

The InterWorking Report describes the test cases which have been performed, the conditions of the testing and the observed limitations.

This defines the scope of what has been certified.

If the issue is in the scope of the IWR, both parties, Alcatel-Lucent and the Application Partner, are engaged:

- Case 1: the responsibility can be established 100% on Alcatel-Lucent side. In that case, the problem must be escalated by the ALU Business Partner to the Alcatel-Lucent Support Center using the standard process: open a ticket (eService Request –eSR)
- Case 2: the responsibility can be established 100% on Application Partner side. In that case, the problem must be escalated directly to the Application Partner by opening a ticket through the Partner Hotline. In general, the process to be applied for the Application Partner is described in the IWR.
- Case 3: the responsibility can not be established. In that case the following process applies:
 - The Application Partner shall be contacted first by the Business Partner (responsible for the application, see figure in previous page) for an analysis of the problem.
 - The Alcatel-Lucent Business Partner will escalate the problem to the Alcatel-Lucent Support Center only if the Application Partner <u>has demonstrated with traces a problem</u> <u>on the Alcatel-Lucent side</u> or if the Application Partner (not the Business Partner) <u>needs</u> <u>the involvement of Alcatel-Lucent</u>.

In that case, <u>the Alcatel-Lucent Business Partner must provide the reference of the Case</u> <u>Number on the Application Partner side</u>. The Application Partner must provide to Alcatel-Lucent the results of its investigations, traces, etc, related to this Case Number.

Alcatel-Lucent reserves the right to close the case opened on his side if the investigations made on the Application Partner side are insufficient or do not exist.

Note: Known problems or remarks mentioned in the IWR will not be taken into account.

For any issue reported by a Business Partner outside the scope of the IWR, Alcatel-Lucent offers the "On Demand Diagnostic" service where Alcatel-Lucent will provide 8 hours assistance against payment.

IMPORTANT NOTE 1: The possibility to configure the Alcatel-Lucent PBX with ACTIS quotation tool in order to interwork with an external application is not guarantee of the availability and the support of the solution. The reference remains the existence of a valid InterWorking Report.

Please check the availability of the Inter-Working Report on the AAPP (URL: <u>https://private.applicationpartner.alcatel-lucent.com</u>) or Enterprise Business Portal (Url: <u>Enterprise</u> <u>Business Portal</u>) web sites.

IMPORTANT NOTE 2: Involvement of the Alcatel-Lucent Business Partner is mandatory, the access to the Alcatel-Lucent platform (remote access, login/password) being the Business Partner responsibility.

14.3 Escalation in all other cases

These cases can cover following situations:

- 1. An InterWorking Report exist but is not valid (see Chap 2 "Validity of an Interworking Report")
- The 3rd party company is referenced as <u>AAPP participant</u> but there is no official InterWorking Report (no IWR published on the Enterprise Business Portal for Business Partners or on the Alcatel-Lucent Application Partner web site) ,
- 3. The 3rd party company is NOT referenced as <u>AAPP participant</u>

In all these cases, Alcatel-Lucent offers the "On Demand Diagnostic" service where Alcatel-Lucent will provide 8 hours assistance against payment.

14.4 Technical support access

The Alcatel-Lucent **Support Center** is open 24 hours a day; 7 days a week:

- e-Support from the Application Partner Web site (if registered Alcatel-Lucent Application Partner): <u>http://applicationpartner.alcatel-lucent.com</u>
- e-Support from the Alcatel-Lucent Business Partners Web site (if registered Alcatel-Lucent Business Partners): <u>https://businessportal.alcatel-lucent.com</u> click under "Let us help you" the *eService Request* link
- e-mail: <u>Ebg_Global_Supportcenter@alcatel-lucent.com</u>
- Fax number: +33(0)3 69 20 85 85
- Telephone numbers:

Alcatel-Lucent Business Partners Support Center for countries:

Country	Supported language	Toll free number
France		
Belgium	French	
Luxembourg	7	
Germany		
Austria	German	
Switzerland		
United Kingdom		
Italy		
Australia		
Denmark	7	
Ireland		
Netherlands		+800-00200100
South Africa		
Norway		
Poland	English	
Sweden		
Czech Republic	7	
Estonia	7	
Finland		
Greece	7	
Slovakia	7	
Portugal	_	
Spain	Spanish	

For other countries:

English answer	+ 1 650 385 2193
Erench answer:	+ 1 650 385 2196
German answer:	$\pm 1.650.385.2100$
Sponish onewer:	
Spanish answer.	+ 1 000 000 2190

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