



## ALE Application Partner Program Inter-Working Report

*Partner: **CyberData***  
*Application type: **SIP Phone***  
*Application name: **SIP Talk-Back speaker***  
*Alcatel-Lucent Enterprise Platform:*  
**OmniPCX Enterprise™**



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

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## Certification overview

Date of the certification	January 2018
ALE representative	Frank Gadot
AAPP member representative	Paul Tuttle ptuttle@cyberdata.net
Alcatel-Lucent Enterprise Communication Platform	OmniPCX Enterprise
Alcatel-Lucent Enterprise Communication Platform release	R12.0 (M1.403.18)
AAPP member application release	V11.6.8b07
Application Category	Terminals

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### Revision History

Edition 1: Creation of the document – May 2017  
Edition 2: Added spatial redundancy tests – July 2017  
Edition 3: Update to R12 / Added Spatial redundancy with external DNS / Removed Spatial Redundancy with Alternative DNS – January 2018

## Test results

- ☐ Passed
 ☐ Refused
 ☐ Postponed
   
☒ Passed with restrictions

Refer to the section 4 for a summary of the test results.

## IWR validity extension

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# 1 Introduction

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This document is the result of the certification tests performed between the AAPP member's application and Alcatel-Lucent Enterprise'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, ALE 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 (<https://businessportal.alcatel-lucent.com>) in the Application Partner Interworking Reports corner (restricted to Business Partners)
- the Application Partner portal (<https://applicationpartner.alcatel-lucent.com>) with free access.

## 1.1 Glossary

AAPP	Alcatel-Lucent Application Partner Program	NTP	Network Time Protocol
CFB	Call Forward on Busy	OXE	OmniPCX Enterprise
CFNR	Call Forwarding on No Reply	PBX	private branch exchange
CFU	Call Forwarding Unconditional	PCS	Passive Communication Server
CLIR	Calling Line Identification Restriction	PSTN	Public Switched Telephone Network
DHCP	Dynamic Host Configuration Protocol	RTP	Real-time Transport Protocol
DND	Do Not Disturb	SEPLOS	SIP EndPoint Level Of Service
DNS	Domain Name System	SIP	Session Initiation Protocol
DTMF	Dual-tone multi-frequency	TCP	Transmission Control Protocol
IP	Internet Protocol	UDP	User Datagram Protocol
IWR	Inter-Working Report	VAD	Voice activity detection
MCDU	Multi-Purpose Control and Display Unit	VoIP	Voice over IP
MWI	Message Waiting Indicator		

## 2 Validity of the InterWorking Report

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This InterWorking 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 ALE issues a new major release of such Alcatel-Lucent Enterprise 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 InterWorking report becomes automatically obsolete when the mentioned product releases are end of life.*

## 3 Limits of the Technical support

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For certified AAPP applications, Technical support will be provided within the scope of the features which have been certified in the InterWorking report. The scope is defined by the InterWorking report via the tests cases which have been performed, the conditions and the perimeter of the testing and identified limitations. All those details are documented in the IWR. The Business Partner must verify an InterWorking Report (see above “Validity of the InterWorking Report”) is valid and that the deployment follows all recommendations and prerequisites described in the InterWorking Report.

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 ALE. Access to technical support by the Business Partner requires a valid ALE maintenance contract

For details on all cases (3<sup>rd</sup> party application certified or not, request outside the scope of this IWR, etc.), 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 ALE is included in the solution between the certified Alcatel-Lucent Enterprise and AAPP member products such as a Session Border Controller or a firewall for example, ALE will consider that situation as to that where no IWR exists. ALE will handle this situation accordingly (for more details, please refer to Appendix F “AAPP Escalation Process”).



## 4 Summary of test results

### 4.1 Summary of the main features tested

This section is a summary of the main features tested. This is not a complete description of all the tests performed. If the status is “OK but” or “NOK”, please refer to the below paragraphs or to the detailed test results.

Feature	N/A	OK	OK But	NOK
<b>Connectivity and Setup</b>				
IP network connectivity	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SIP Registration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Duplication and Robustness</b>				
Double CPU, same network	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Erreur ! Source du renvoi introuvable.</b> with External DNS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Audio codecs negotiations/ VAD / Framing</b>				
G 711 A, G 711 $\mu$ support (Uncompressed codec)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Outgoing Calls</b>				
Local/Network calls	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Called party is not available	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Call release	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Call to forwarded user	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OXE features	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Incoming calls</b>				
Local/Network calls	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Call release	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Features during Conversation</b>				
Hold/resume	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DTMF sending	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### 4.2 Summary of problems

When Cyberdata speaker calls out using the optional button and uses a unique FQDN resolution for spatial redundancy use, it does a domain search which takes about 5 seconds, therefore delays the outgoing call. This is a known issue with Cyberdata – The internal ticket is 0002814. If this issue is fixed, a new edition of this document will be released.

### 4.3 Summary of limitations

*CyberData speakerphone only supports G.711 and G.722 codecs.*



## 4.4 Notes, remarks

### **SIP Session Timer:**

The SIP Session Timer (RFC4028) periodically refreshes a SIP session by sending either a repeated INVITE request (RE\_INVITE) or an UPDATE request. In one word, it is a kind of keep alive mechanism which allows proxies to retain a call state when needed.

CyberData speakerphone only supports RE\_INVITE as a session timer method.

The default parameter within the OXE is to send an UPDATE message.

This option can be changed in the SIP GATEWAY settings (SESSION TIMER METHOD). Be careful, this setting will affect all SIP devices in your network.

### **Necessary licenses:**

- SIP User (lock 177)
- SIP Gateway (lock 185)
- SIP Extension user (345)

### **IMPORTANT:**

- Some interworking problems were found in previous releases of CyberData. Therefore, it is important to use at least the version mentioned in this document.
- It is important to know that if the Cyberdata speaker is setup with a button, and if it calls an extension with no Associated number, the call will stay in a setup mode (keep ringing, no timeout)
- In the spatial redundancy setup, we are using BIND 9.9.4 as an external DNS (and not the Alternative DNS solution)

## 5 Application information

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**Application family :** SIP overhead speakerphone

**Application commercial name:** SIP Talk-back speaker

**Application version:** v11.6.8b07

**Interface type:** SIP

### Brief application description:

CyberData's new SIP Talk-Back Speaker enables two-way conversations in settings such as classrooms, offices, medical facilities and clinics. By use of remote call button (sold separately, part# 011185), calls to a predetermined extension can be initiated from the room with the speaker. During the active calls, the LED light on the switch can be programmed to blink to show call activity. Alternatively, a call can be placed to the speaker to initiate either a page or two-way conversation.

### Type of application/product:



## 6 Test environment

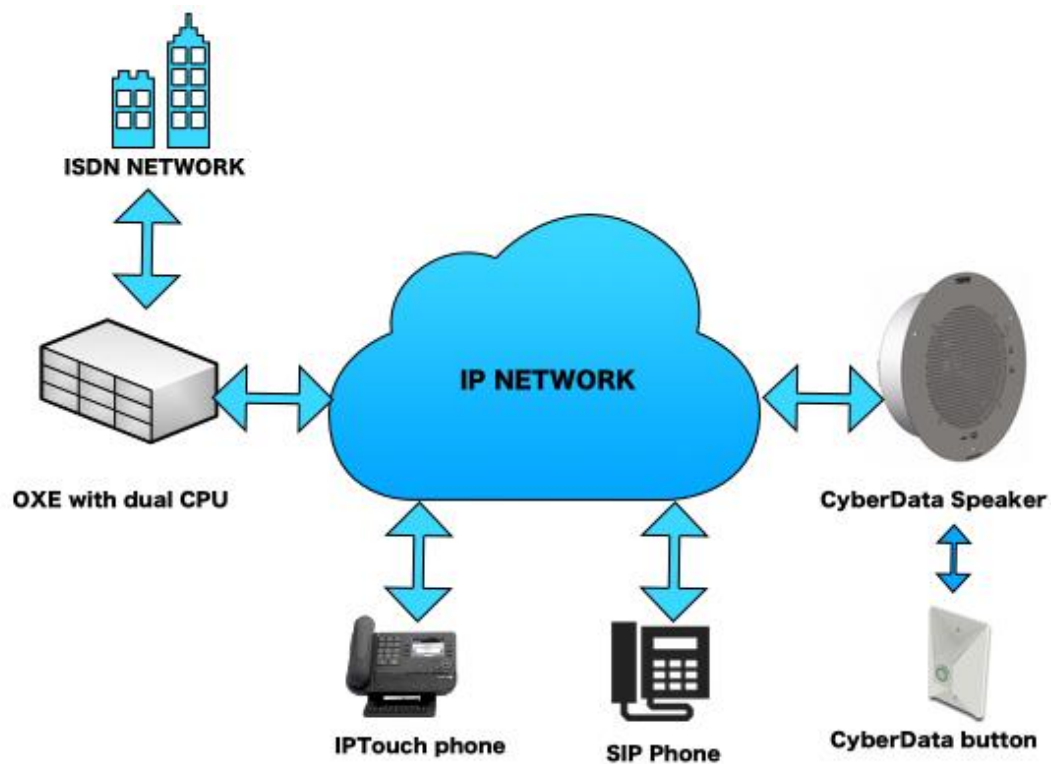


Figure 1 Test environment

## 6.1 Hardware configuration

- **Alcatel-Lucent Communication Platform:**

**Node1:**

- Duplicated call servers, no spatial redundancy

### Setup Details

```
+-----+
| Cr | cpl | cpl type | hw type | cpl state | coupler ID |
|----|----|-----|-----|-----|-----|
| 0 | 6 | App. Server|-----| IN SERVICE | NO PCMS CODE |
| 0 | 10 | App. Server|-----| IN SERVICE | NO PCMS CODE |
+-----+
```

```
+-----+
| Cr | cpl | cpl type | hw type | cpl state | coupler ID |
|----|----|-----|-----|-----|-----|
| 2 | 0 | GD3|-----| IN SERVICE | NO PCMS CODE |
| 2 | 3 | PRA T1|-----| IN SERVICE | NO PCMS CODE |
| 2 | 6 | PRA T1|-----| IN SERVICE | NO PCMS CODE |
+-----+
```

Setup Information when CPUs are on the same network	
Module	Details
Main CPU	10.60.1.10
CPU A	10.60.1.11
CPU B	10.60.1.12
GD	10.60.1.13
Domain Name	main.oxe
IPTouch 4068 / Ext: 1000	10.60.1.21
IPTouch 4038 / Ext: 2000	10.60.1.20
X-LITE Sip Client / Ext: 7000	10.60.1.101
CyberData Speaker V3.1 / Ext: 8000	10.60.1.142

Setup Information when CPUs are on the spatial redundancy network	
Module	Details
Main CPUA	10.60.1.10
CPU A	10.60.1.11
Main CPUB	10.60.2.10
CPU B	10.60.2.11
GD	10.60.1.13
Domain Name	main.oxe
IPTouch 4068 / Ext: 1000	10.60.1.21
IPTouch 4038 / Ext: 2000	10.60.1.20
X-LITE Sip Client / Ext: 7000	10.60.1.101
CyberData Speaker V3.1 / Ext: 8000	10.60.1.142

## 6.2 Software configuration

- **Alcatel-Lucent Communication Platform:**
  - OmniPCX Enterprise R12.0 / M1.403.18b
- **Application platform:**
  - CyberData Speaker V3.1/ V11.6.8b07



## 7 Test Result Template

The results are presented as indicated in the example below:

Test Case Id	Test Case	N/A	OK	NOK	Comment
1	<b>Test case 1</b> <ul style="list-style-type: none"> <li>Action</li> <li>Expected result</li> </ul>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	<b>Test case 2</b> <ul style="list-style-type: none"> <li>Action</li> <li>Expected result</li> </ul>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The application waits for PBX timer or phone set hangs up
3	<b>Test case 3</b> <ul style="list-style-type: none"> <li>Action</li> <li>Expected result</li> </ul>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Relevant only if the CTI interface is a direct CSTA link
4	<b>Test case 4</b> <ul style="list-style-type: none"> <li>Action</li> <li>Expected result</li> </ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No indication, no error message
...	...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**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 the 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, describe in the field "Comment" 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

Test Case Id	Test Case	N/A	OK	NOK	Comment
1	IP network connectivity				
A	<b>SIP set network setup with a static IP address</b> Configure CyberData Speaker with a static IP address  Check the network connectivity by pinging the phone and display.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B	<b>SIP set network setup with a dynamic IP address</b> Configure CyberData Speaker with a dynamic IP address (given by a DHCP server)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	SIP Registration				
A	<b>SIP registration, using OXE MAIN IP address without authentication</b> CyberData Speaker is configured to register with the main IP address.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B	<b>SIP registration, using OXE as DNS server without authentication</b>  CyberData Speaker DNS servers are configured with node1 primary main IP address as primary DNS server and with node1 secondary main IP address as secondary DNS server.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C	<b>SIP registration, using an External DNS server without authentication</b>  CyberData Speaker is configured with an external DNS server and registers successfully using the MAIN cpu node name.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D	<b>Support of "423 Interval Too Brief" (1)</b> CyberData Speaker is configured with a value lower than OXE SIP Min Expiration Date.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E	<b>SIP registration with authentication</b> For this test, register on a Node with authentication enable (2) Configure the CyberData Speaker with main IP address as SIP registrar.  After make, the same actions with a wrong password and check that the phone is rejected.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3	UDP/TCP signaling				

Test Case Id	Test Case	N/A	OK	NOK	Comment
A	<b>Signaling TCP.</b> Configure your SIP set to use the protocol SIP over TCP  Check the registration, and basic calls.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CyberData speaker only supports UDP
B	<b>Signaling UDP.</b> Configure your SIP set to use the protocol SIP over UDP  Check the registration, and basic calls.  Note: all further tests to be made with UDP	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4	Time synchronization				
A	<b>NTP registration (if applicable)</b> The SIP phone CyberData Speaker configured to retrieve the date and time from the node1 primary main IP address. Check that CyberData Speaker retrieves the right date and time information and displays it.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The time is only available on the web interface

**Notes:**

- (1) On the SIP client, specify a default registration period inferior to that of OXE SIP registrar (configured via mgr under SIP/SIP Registrar/SIP Min Expiration Date). OXE will reject with error "423 Interval Too Brief". Check that SIP set increases registration period accordingly and the registration happens successfully.
- (2) The SIP authentication is configured via mgr under: SIP/SIP Proxy/Minimal authentication method=" SIP None" or" SIP Digest"





## 8.2 Duplication and Robustness

Check how the system will react in case of a CPU reboot, switchover or link failure etc.  
The spatial redundancy test are setup with BIND 9.9.4 as an external DNS (using the new STATIC-STUB feature).

For each configuration, check:

Can new calls to the CyberData Speaker be made immediately after switchover?

Are existing calls maintained after switchover?

Are outgoing calls accepted immediately after switchover?

Test Case Id	Test Case	N/A	OK	NOK	Comment
1	Case simple CPU Redundance (same network)				
A	<b>CPU Reboot</b> Test that the CyberData Phone can receive phone calls right after a bascul, and can also make a phone call with the help of a button (Cyberdata part #011185 Remote call button)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B	<b>Call maintained during bascul</b> Check that a call is maintained during a bascul event	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	Partner SIP endpoint reboot				
A	<b>Partner SIP set reboot</b> Reboot CyberData phone. When it comes back in service, call an extension with the help of the Remote Call Button.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3	Network failure				
A	<b>Temporary Link down between OXE and the partner SIP set</b> Disconnect the link between CyberData phone and OXE. CyberData Phone becomes out of service. When the link comes back up, OXE extension should be able to call right away the phone,	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Test Case Id	Test Case	N/A	OK	NOK	Comment
1	Case of Spatial Redundancy (External DNS)				
A	<b>CPU Reboot</b> Test that the CyberData Phone can receive phone calls right after a bascul, and can also make a phone call with the help of a button (Cyberdata part #011185 Remote call button)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B	<b>Call maintained during bascul</b> Check that a call is maintained during a bascul event	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	Partner SIP endpoint reboot				
A	<b>Partner SIP set reboot</b> Reboot CyberData phone. When it comes back in service, call an extension with the help of the Remote Call Button.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3	Network failure				
A	<b>Temporary Link down between OXE and the partner SIP set</b> Disconnect the link between CyberData phone and OXE. CyberData Phone becomes out of service. When the link comes back up, OXE extension should be able to call right away the phone,	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**NOTE:** In case of spatial redundancy, you have to use a FQDN (Fully Qualified Domain Name) of the oxe in the SIP settings / Primary SIP Server of the Cyberdata speakerphone. This single entry is sufficient if your have your DNS setup correctly.

### 8.3 Audio codecs negotiations/ VAD / Framing

CyberData Speakerphone can be setup to either ONE or ALL 3 codecs at the same time (there is no in between):

- PCMU/G.711 $\mu$ -law
- PCMA/G.711A-law
- G.722

Test Case Id	Test Case	N/A	OK	NOK	Comment
1	G 711 A, G 711 $\mu$ support (Uncompressed codec)				
A	<p>Call from CyberData to OXEset-1 (intra-domain) Check that the call is established using direct RTP in G711 A-law. Check audio quality</p> <p>Call from OXEset-1 to CyberData (intra-domain) Check that the call is established using direct RTP in G711 A-law. Check audio quality</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B	<p>Set system law = <math>\mu</math>-law Configure the phone to use G.711 <math>\mu</math>-law, G.711 A-law, G.729, in this order</p> <p>Call from CyberData to OXEset-1 (intra-domain) Check that the call is established using direct RTP in G711 <math>\mu</math>-law. Check audio quality</p> <p>Call from OXEset-1 to CyberData (intra-domain) Check that the call is established using direct RTP in G711 <math>\mu</math>-law. Check audio quality</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	Voice Activity Detection				



Test Case Id	Test Case	N/A	OK	NOK	Comment
A	<p><b>Configure CyberData Speaker to use VAD</b> <b>Configure OXEset-1 NOT to use VAD</b></p> <p><b>Call from CyberData Speaker to OXEset-1 (intra-domain)</b> Check that the call is established using direct RTP in G711 A-law. Check audio quality</p> <p><b>Call from OXEset-1 to CyberData Speaker (intra-domain)</b> Check that the call is established using direct RTP in G711 A-law. Check audio quality</p> <p><b>Configure CyberData Speaker to use VAD</b> <b>Configure OXEset-1 to use VAD</b></p> <p>Redo the same tests</p> <p><b>Configure CyberData Speaker NOT to use VAD</b> <b>Configure OXEset-1 to use VAD</b></p> <p>Redo the same tests</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CyberData speaker has no VAD option.
B	<p><b>Configure CyberData Speaker to use VAD</b> <b>Configure OXEset-2 NOT to use VAD</b></p> <p><b>Call from CyberData Speaker to OXEset-2 (extra-domain)</b> Check that the call is established using direct RTP in G729. Check audio quality</p> <p><b>Call from OXEset-2 to CyberData Speaker (extra-domain)</b> Check that the call is established using direct RTP in G729. Check audio quality</p> <p><b>Configure CyberData Speaker to use VAD</b> <b>Configure OXEset-2 to use VAD</b></p> <p>Redo the same tests</p> <p><b>Configure CyberData Speaker NOT to use VAD</b> <b>Configure OXEset-2 to use VAD</b></p> <p>Redo the same tests</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	With VAD activated on the OXE side, calls worked both way.
4	Packet framing				

Test Case Id	Test Case	N/A	OK	NOK	Comment
A	<p><b>Configure CyberData Speaker to use framing=30ms (G.711)</b></p> <p>Call from CyberData Speaker to OXEset-1 (intra-domain) Check that the call is established using direct RTP in G711 A-law. Check audio quality</p> <p>Call from OXEset-1 to CyberData Speaker (intra-domain) Check that the call is established using direct RTP in G711 A-law. Check audio quality</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Packet framing not configurable on CyberData speakerphone
B	<p><b>Configure CyberData Speaker to use framing=30ms (G.729)</b></p> <p>Call from CyberData Speaker to OXEset-2 (extra-domain) Check that the call is established using direct RTP in G729. Check audio quality</p> <p>Call from OXEset-2 to CyberData Speaker (extra-domain) Check that the call is established using direct RTP in G729. Check audio quality</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Packet framing not configurable on CyberData speakerphone

**Notes:**

- (1) The law choice is configured via mgr under: System/Other System Param./System Parameters/Law="A Law" or "Mu Law"
- (2) The compression codec choice is configured via mgr under: System/Other System Param./Compression Parameters/Compression Type="G 723" or "G 729"

## 8.4 Outgoing Calls

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

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

By default, all phones are multiline set with two lines.

**NOTE: It is only possible to call from the CyberData Speakerphone if the REMOTE CALL BUTTON is installed and programmed. (Part #011185)**

Test Case Id	Test Case	N/A	OK	NOK	Comment
1	Local/Network calls				
A	<b>Call to a local user</b> With CyberData Speaker call the OXE phone OXEset-1.  Check that OXEset-1 is ringing. On CyberData Speaker check the ring back tone. On both sets check display (name and extension number) Answer the call and check audio and display.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D	<b>Call to another SIP set</b> With the CyberData Speaker call the SIPset-2  Check the display and audio during all steps (dialing, ring back tone, conversation, and release).	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
E	<b>Call to a local user with SIP proxy Authentication</b> Check that CyberData Speaker sip set configured with authentication.  With CyberData Speaker call NwkSIPset-2.  Answer the call, check audio and display.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
F	<b>Call to external number (via T2 loopback)</b> (Check ring back tone, called party display) With CyberData Speaker dial OXEset-1 though DPT1 board  Check that OXEset-1 is ringing. Answer the call and check audio, display and call release.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
G	<b>SIP session timer expiration</b> Check if call is maintained after the session timer expiration: If possible, configure the "Session timer" on CyberData Speaker to 120 seconds.  With CyberData Speaker call OXEset-1. Answer the call on OXEset-1 and never hang up, wait for session timer expiration.  Check that call is maintained.  Configure the "Session timer" on CyberData Speaker to the default value.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SIP Session timer expiration is not configurable.

Test Case Id	Test Case	N/A	OK	NOK	Comment
H	<b>Call to wrong number</b> (SIP: "404 Not Found") With the CyberData Speaker call a wrong number which is not in the dialing plan.  Check the ring back tone and display.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	Local/Network calls – called party is not available				
A	<b>Call to local user with no answer</b> With CyberData Speaker call the OXE phone OXEset-1. And never answer the call. Check time out and display.  Note that OXEset-1 don't have a Voice Mail	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	With the button feature, it is possible to hang up during the call process as long as the binary is at least v11.6.8b07
B	<b>Call to busy user</b> (SIP: "486 Busy Here") With CyberData Speaker call OXEset-1, answer the call, and don't hang up. With SIPset-2 call OXEset-1, answer the call, and don't hang up.  With SIPset-3 call OXEset-1 which is busy  Check the ring back tone and display.  With OXEset-1 call CyberData Speaker, answer the call, and don't hang up. With SIPset-2 call CyberData Speaker, answer the call, and don't hang up.  With SIPset-3 call CyberData Speaker which is busy  Check the ring back tone and display.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	OXE sends 183/SessionProgress/ is busy  Then 487/RequestTerminated
C	<b>Call to user in "Out of Service" state</b> (SIP: "480 Temporarily Unavailable") Disconnect SIPset-2 and wait for SIP deregister With CyberData Speaker call SIPset-2 which is in "Out of Service State"  Check the display and ring back tone.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D	<b>Call to user in "Do not Disturb" (DND) state</b> (SIP: "183 Session progress"): Dial "42" (Do not disturb prefix) on the OXEset-1 in order to enable the DND. Wait for acknowledgement from OXE With the CyberData Speaker call the OXEset-1.  Check ring back tone and display.  Redial 42 on OXEset-1 to cancel the DND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CyberData speakerphone will hear twice "The party you are calling is unavailable, please call again later" then the OXE will hang up the communication.
3	Call release				

Test Case Id	Test Case	N/A	OK	NOK	Comment
A	<b>Call release during an outgoing call, release done by the partner SIP set</b>				
	With CyberData Speaker call OXEset-1 and don't answer the call.  With CyberData Speaker, release the call during the ringing period. Check that OXEset-1 plays a release tone and goes in idle mode after some seconds	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	This is only possible
5	Call to a forwarded user				
A	<b>Call to local user, immediate forward (CFU).</b> (SIP: "302 Moved Temporarily")(1)  On OXEset-1 dial Immediate forward prefix. After the voice guide, enter SIPset-2 <target MCDU number> to activate the CFU. Wait for acknowledgement from OXE.  With CyberData Speaker call the OXEset-1. Check that SIPset-2 is ringing and the display. Answer the call check audio and hung up.  Dial 41 (Forward cancellation prefix) on OXEset-1 for forward cancellation.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>Call to local user, forward on no reply (CFNR). (1)</b>  On OXEset-1 dial the 53 (Forward on no reply prefix) After the voice guide, enter SIPset-2 (<target MCDU number>) to activate the CFNR. Wait for acknowledgement from OXE.  With CyberData Speaker call the OXEset-1. Check that OXEset-1 is ringing but don't answer the call and wait the time out (about 30 sec).  After time out check that SIPset-2 is ringing and answer the call.  Check the audio and display.  Dial 41 (Forward cancellation prefix) on OXEset-1 for forward cancellation.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	



Test Case Id	Test Case	N/A	OK	NOK	Comment
C	<b>Call to local user, forward on busy (CFB). (1)</b>  On OXEset-1 dial the 54 (Forward on busy prefix). After the voice guide, enter SIPset-2 (<target MCDU number>) to activate the CFB. Wait for acknowledgement from OXE.				
	With SIPset-2 call OXEset-1 and answer the call. With SIPset-3 call OXEset-1 and answer the call to make it busy.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	With CyberData Speaker call OXEset-1.				
	Check that SIPset-2 is ringing and answer the call. Check the audio and display.				
	Dial 41 (Forward cancellation prefix) on OXEset-1 for forward cancellation.				
6	OXE features (Call back, voice mail deposit)				
A	<b>Call Back on free set</b> From CyberData Speaker call OXEset-1 Dial "5" (Call Back suffix) while OXEset-1 is ringing and release the call. Activate the call back from OXEset-1. Check that CyberData Speaker is ringing, answer the call and check audio + display.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
B	<b>Voice mail deposit</b> From CyberData Speaker call OXEset-1 Dial "6" (Voice Mail deposit suffix) while OXEset-1 is ringing. Leave a message when connected to the voice mail and release the call. Check the voice message on OXEset-1.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**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.



## 8.5 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.

Test Case Id	Test Case	N/A	OK	NOK	Comment
1	Local/ISDN calls				
A	<b>Local / ISDN call to free SIP terminal</b> <u>Local</u> : with OXEset-1 call CyberData Speaker. Check that CyberData Speaker is ringing and answer the call  Check ring back tone, audio and called party display.  PSTN: with OXEset-1 call CyberData Speaker by dialing through PSTN. Check that CyberData Speaker is ringing and answer the call.  Check ring back tone, audio and called party display.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B	<b>Local / ISDN call to busy SIP terminal</b> <u>Local</u> : Make CyberData Speaker busy by making a call. With OXEset-1 call CyberData.  PSTN: While CyberData Speaker is busy, call it through a PSTN line.  Check ring back tone, and called party display.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C	<b>Local/network call to unplugged SIP terminal</b> <u>Local</u> : Unplug the CyberData Speaker SIP set and call it with OXEset-1.  Check the ring back tone and display	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	



Test Case Id	Test Case	N/A	OK	NOK	Comment
E	<b>SIP session timer expiration</b> Check if call is maintained after the session timer expiration: Configure the "Session timer" on OXE to 120 seconds (3).  With OXEset-1 call CyberData Speaker. Answer the call on CyberData Speaker and never hang up, wait for session timer expiration.  Check that call is maintained.  Configure the "Session timer" on OXE to the default value : 1800 seconds (3).	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	OXE needs to be configured to send UPDATES instead of default RE_INVITE
3	Call release				
A	<b>Call release during an incoming call, release done by the partner SIP set</b>  With OXEset-1 call CyberData Speaker and don't answer the call.  With CyberData Speaker, reject the call during the ringing period. Check that OXEset-1 plays a release tone and goes in idle mode after some seconds	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CyberData Speakerphone will not reject an incoming call. (This is the way it is supposed to work)
B	<b>Call release during an incoming call, release done by the OXE set</b>  With OXEset-1 call CyberData Speaker and don't answer the call.  With OXEset-1, release the call during the ringing period. Check that CyberData Speaker plays a release tone and goes in idle mode after some seconds	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CyberData Speaker tries to pick up the call, but since a SIP leg transaction does not exist, it will hang up shortly after.

**Notes:**

- (2) The SIP "Session timer" is configured via mgr under : SIP/SIP Gateway/ Session (value is in seconds)



## 8.6 Features during Conversation

Features during conversation between OXE 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.

OXE SEPLOS prefixes are mandatory for several tests of this section. For more information refer to the appendix E.

Test Case Id	Test Case	N/A	OK	NOK	Comment
1	Hold/resume				
A	<b>Hold and resume in case of a single call (by local feature if applicable)</b>  With CyberData speaker call OXEset-1 Answer the call, check audio and display.  With OXEset-1 put CyberData Speaker on hold with "Hold" key, check tones and display on both sets, then press again "Hold" key to resume the call (applicable if Hold Key is provided by the SIP set)  On OXEset-1 put SIPset-4 on hold then resume.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	Call release				
A	<b>Call release during conversation, release done by the partner SIP set</b>  With CyberData Speaker call OXEset-1 Answer the call, check audio and display.  With CyberData Speaker, release the call. Check that OXEset-1 plays a release tone and goes in idle mode after some seconds	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B	<b>Call release during conversation, release done by the OXE set</b> With CyberData Speaker call OXEset-1 Answer the call, check audio and display.  With OXEset-1, release the call. Check that CyberData Speaker plays a release tone and goes in idle mode after some seconds	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4	DTMF sending				
A	<b>Sending DTMF</b> Configure CyberData Speaker to receive DTMF using RFC 2833  From OXE, Call CyberData speakerphone and enter the 4 digits security code in order to be able to announce a message.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

## 9 Appendix A : AAPP member's Application description

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Sip settings to connect to the OXE (as a SIP Extension)

### SIP Settings

Enable SIP operation:	<input checked="" type="checkbox"/>
Register with a SIP Server:	<input checked="" type="checkbox"/>
Use Cisco SRST:	<input type="checkbox"/>
Primary SIP Server:	10.60.1.10
Primary SIP User ID:	8000
Primary SIP Auth ID:	8000
Primary SIP Auth Password:	....

Button setup:

## Button Settings

Button Installed: ☒

Activate Relay On Button Press: ☐

Relay On Button Press Duration:

Button Lit when Idle: ☒

Button Brightness (0-255):

Play Ringback Tone: ☐

Enable Push to Talk: ☐

Prevent Call Termination: ☐

Blink button LED on monitor call ☐

## Button Settings

Dial Out Extension:

Extension ID:

Auto-Answer incoming calls setting:

## Misc Settings

Device Name:	CyberData V3.1 Speaker
Auto-Answer Incoming Calls:	<input checked="" type="checkbox"/>
Beep on Init:	<input type="checkbox"/>
Beep on Page:	<input type="checkbox"/>
Disable HTTPS (NOT recommended):	<input type="checkbox"/>
Dual Speakers:	<input type="checkbox"/>
RGB Strobe:	Not installed

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

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No requirement.





# 11 Appendix C: Alcatel-Lucent Enterprise Communication Platform: configuration requirements

## **Configurations done in OXE:**

SIP TRUNK:

```
Review/Modify: Trunk Groups

Overflow trunk group No. : -1
Tone on seizure + False
Private Trunk Group + False
Q931 Signal variant + ABC-F
SS7 Signal variant + No variant
Number Of Digits To Send : 0
Channel selection type + Quantified
Auto.DTMF dialing on outgoing call + YES
T2 Specification + SIP
Homogenous network for direct RTP + NO
Public Network COS : 31
DID transcoding + False
Can support UUS in SETUP + True
Associated Ext SIP gateway : -1

Implicit Priority

Activation mode : 0
Priority Level : 0

Preempter + NO
Incoming calls Restriction COS : 10
Outgoing calls Restriction COS : 10
Callee number mpt1343 + NO
Overlap dialing + NO
Call diversion in ISDN + NO
```

```

Review/Modify: Trunk Groups
Node Number (reserved) : 1
Trunk Group ID : 300

Trunk Group Type + T2
Trunk Group Name : SIP GW ABC
UTF-8 Trunk Group Name : Sip Internal Gateway ABC-F
Number Compatible With : -1
Remote Network : 14
Shared Trunk Group + False
Special Services + Nothing
Node number : 1
Transcom Trunk Group + False
Auto.reserv.by Attendant + False
Overflow trunk group No. : -1
Tone on seizure + False
Private Trunk Group + False
Q931 Signal variant + ABC-F
SS7 Signal variant + No variant
Number Of Digits To Send : 0
Channel selection type + Quantified
Auto.DTMF dialing on outgoing call + YES
T2 Specification + SIP
Homogenous network for direct RTP + NO
Public Network COS : 31
DID transcoding + False
Can support UUS in SETUP + True

```

## SIP GATEWAY:

```

Review/Modify: SIP Gateway
Node Number (reserved) : 1
Instance (reserved) : 1
Instance (reserved) : 1

SIP Subnetwork : 14
SIP Trunk Group : 300
IP Address : 10.60.1.10
Machine name - Host : node000000
SIP Proxy Port Number : 5060
SIP Subscribe Min Duration : 20
SIP Subscribe Max Duration : 86400
Session Timer : 180
Min Session Timer : 90
Session Timer Method + RE_INVITE
DNS local domain name : lab.fg
DNS type + DNS A
SIP DNS1 IP Address : 10.60.1.5
SIP DNS2 IP Address : -----
SDP in 18x + True
CAC SIP-SIP + False
INFO method for remote extension + False
Dynamic Payload type for DTMF : 97

```



## 12 Appendix D: AAPP member's escalation process

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**Contact:**

CyberData Corporation  
3 Justin Court  
Monterey, CA 93940 USA  
[www.CyberData.net](http://www.CyberData.net)  
Phone: 800-CYBERDATA (800-292-3732)  
Fax: 831-373-4193

**Sales:**

Sales 831-373-2601, Extension 334

**Technical  
Support**

The fastest way to get technical support for your VoIP product is to submit a VoIP Technical Support Form at the following website  
<http://support.cyberdata.net/>

The Support Form initiates a ticket which CyberData uses for tracking customer requests. Most importantly, the Support Form tells us which PBX system and software version that you are using, the make and model of the switch, and other important information. This information is essential for troubleshooting. Please also include as much detail as possible in the **Comments** section of the Support Form.

Phone: (831) 373-2601, Extension 333

## 13 Appendix E: AAPP program

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### 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 Enterprise's product family. The program provides tools and support for developing, verifying and promoting compliant third-party applications that complement Alcatel-Lucent Enterprise's product family. ALE facilitates market access for compliant applications.

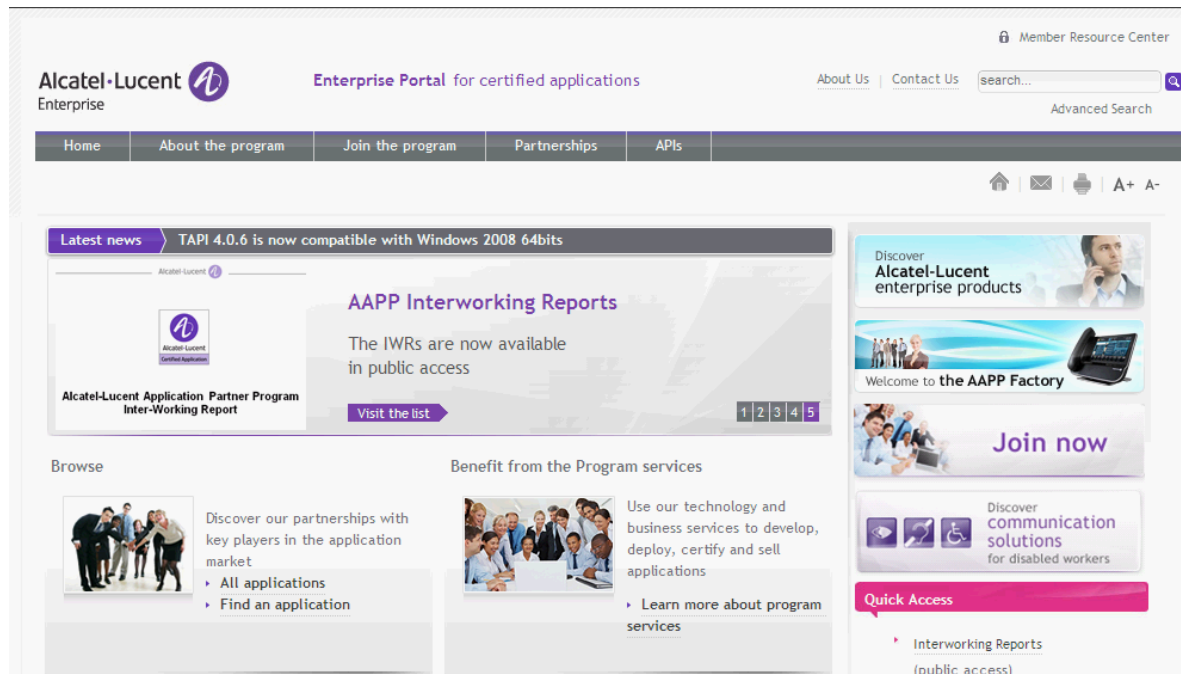
The Alcatel-Lucent Application Partner Program (AAPP) has two main objectives:

- **Provide easy interfacing for Alcatel-Lucent Enterprise communication products:** Alcatel-Lucent Enterprise'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 Enterprise products.
- **Test and verify a comprehensive range of third-party applications:** to ensure proper inter-working, ALE tests and verifies selected third-party applications that complement its portfolio. Successful candidates, which are labelled Alcatel-Lucent Enterprise 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.

## 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>



## 13.2 Enterprise.Alcatel-Lucent.com

You can access the Alcatel-Lucent Enterprise website at this URL: <http://www.enterprise.alcatel-lucent.com/>

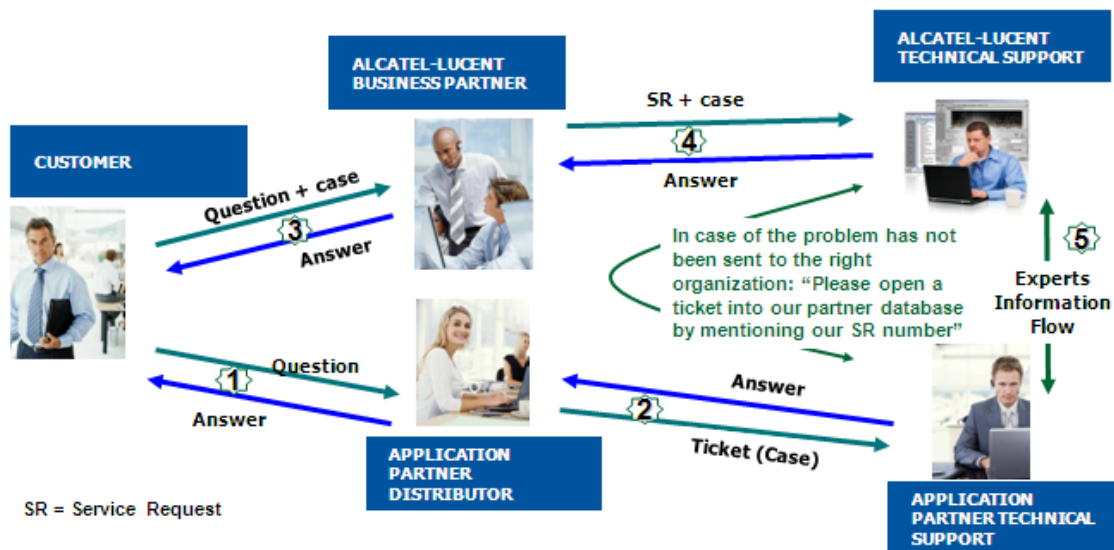
## 14 Appendix F: AAPP Escalation process

### 14.1 Introduction

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

The principle is that ALE 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, ALE and the Application Partner, are engaged as following:



(\*) The Application Partner Business Partner can be a Third-Party company or the ALE 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, ALE and the Application Partner, are engaged:

Case 1: the responsibility can be established 100% on ALE side.

In that case, the problem must be escalated by the ALE Business Partner to the ALE 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 ALE Business Partner will escalate the problem to the ALE Support Center only if the Application Partner has demonstrated with traces a problem on the ALE side or if the Application Partner (not the Business Partner) needs the involvement of ALE

In that case, the ALE Business Partner must provide the reference of the Case Number on the Application Partner side. The Application Partner must provide to ALE the results of its investigations, traces, etc, related to this Case Number.

ALE 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, ALE offers the “On Demand Diagnostic” service where ALE will provide 8 hours assistance against payment .

**IMPORTANT NOTE 1:** The possibility to configure the Alcatel-Lucent Enterprise PBX with ACTIS quotation tool in order to interwork with an external application is not the 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: <https://applicationpartner.alcatel-lucent.com>) or Enterprise Business Portal (Url: [Enterprise Business Portal](#)) web sites.

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

## 14.3 Escalation in all other cases

For non-certified AAPP applications, no valid InterWorking Report is available and the integrator is expected to troubleshoot the issue. If the ALE Business Partner finds out the reported issue is

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maybe due to one of the Alcatel-Lucent Enterprise solutions, the ALE Business Partner opens a ticket with ALE Support and shares all trouble shooting information and conclusions that shows a need for ALE to analyze.

Access to technical support requires a valid ALE maintenance contract and the most recent maintenance software revision deployed on site. The resolution of those non-AAPP solutions cases is based on best effort and there is no commitment to fix or enhance the licensed Alcatel-Lucent Enterprise software.

For information, for non-certified AAPP applications and if the ALE Business Partner is not able to find out the issues, ALE offers an "On Demand Diagnostic" service where assistance will be provided for a fee.



## 14.4 Technical support access

The ALE **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): <http://applicationpartner.alcatel-lucent.com>
- e-Support from the ALE Business Partners Web site (if registered Alcatel-Lucent Enterprise Business Partners): <https://businessportal2.alcatel-lucent.com> click under "Contact us" the eService Request link
- e-mail: [Ebg\\_Global\\_Supportcenter@al-enterprise.com](mailto:Ebg_Global_Supportcenter@al-enterprise.com)
- Fax number: +33(0)3 69 20 85 85
- Telephone numbers:

ALE Business Partners Support Center for countries:

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

For other countries:

English answer: + 1 650 385 2193  
 French answer: + 1 650 385 2196  
 German answer: + 1 650 385 2197  
 Spanish answer: + 1 650 385 2198

END OF DOCUMENT