



## **Alcatel-Lucent Application Partner Program Inter-Working Report**

**Partner: CounterPath**  
**Application type: SIP Soft phone on Android™  
and iPhone® client**  
**Application name: Bria Android/iPhone Edition**  
**Alcatel-Lucent Platform: OmniPCX Office™**



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	March 2013
Alcatel-Lucent's representative	Alain Botti
AAPP member representative	Francisco Hong
Alcatel-Lucent Communication Platform	OmniPCX Office
Alcatel-Lucent Communication Platform Release	R900/053.001
AAPP member application version	Android: 2.2.1.56052 iPhone: 2.3.4 build 14905
Application Category	Softphone

Author(s): Alain Botti, Olivier Koenig  
Reviewer(s): Denis Lienhart, Rachid Himmi

## Test results

☐ Passed ☐ Refused ☐ Postponed  
☒ Passed with restrictions

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

## IWR validity extension

None

## AAPP Member Contact Information

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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'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 by Business Partners on the Technical Support page of the Enterprise Business Portal (<https://businessportal.alcatel-lucent.com>) in the Application Partner Interworking Reports corner.

Note: This interworking report does not cover configuration/management and/or mass provisioning of the BRIA SIP soft phone. For any questions related to these topics, please contact CounterPath.

## 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 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:** *Interworking report becomes automatically obsolete when the mentioned product releases are end of life.*

## 3 Limits of the Technical support

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Technical support will be provided only in case of a valid Interworking Report (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

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<b>Application type:</b>	VoIP SIP soft Phone Android Version
<b>Application commercial name:</b>	BRIA SIP Soft Phone Android Version & iPhone version
<b>Application version:</b>	Android 2.2.1.56052 Iphone 2.3.4 build 14905
<b>Interface type :</b>	SIP/Ethernet
<b>Interface version (if relevant):</b>	

### Brief application description:

Alcatel Phones designs, develops, markets and sells corded and cordless fixed-line telephones to telecom operators and to professional and consumer retail sales channels around the world. The excellent reputation of Alcatel Phones in the minds of both consumers and businesspeople is the result of our long history of providing high-quality communication terminals with the features people need and the designs they want.

### Type of application/product:

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**Bria Android Edition**



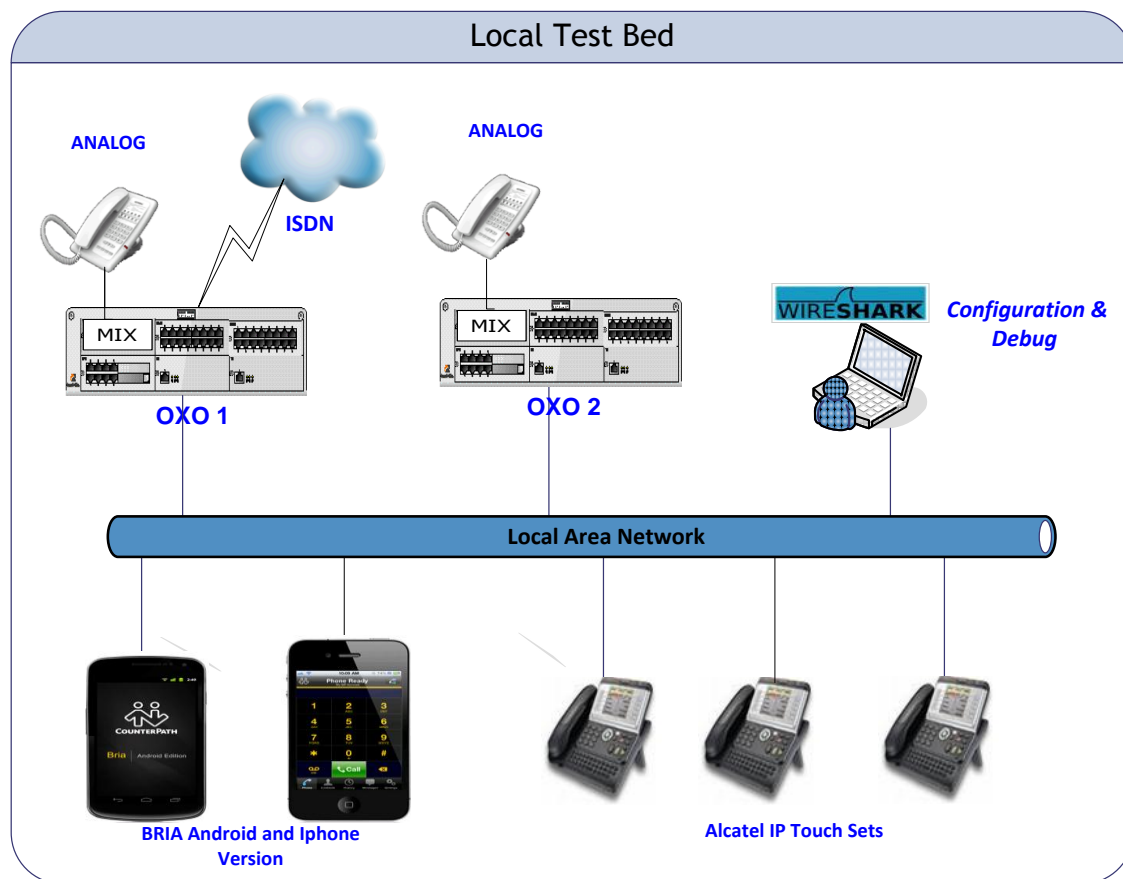
**Bria iPhone Edition**





## 5 Test Environment

Figure 1 Test Environment



## 5.1 Hardware configuration

### Alcatel-Lucent Communication Platform:

- OmniPCX Office Rack
- PowerCPU
- Release: R900/053.001
- OMC: R900/21.1a

### Setup Details:

Setup Information OXO 1	
OXO 1 IP address	10.130.158.48
Domain name	oxoone.testandvalidate.com
Voicemail No	500
Attendant No	0
OXO Extension Details used for test	
IP Touch numbers	226, 229
Bria Android Iphone soft phone number	235 , 236
UA Set No	201
Setup Information OXO 2	
Network OXO address	10.130.158.45
Network OXO Domain name	oxotwo.testandvalidate.com
Network OXO Extension Details used for test	
IP Touch numbers	102,103 & 104
UA Set No	101

### **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 or Analog set.

## 5.2 Software configuration

- **Alcatel-Lucent Communication Platform:** OmniPCX Office R900/053.001
- **Partner Application:** Bria SIP soft phone (Android) 2.2.1.56052  
Bria SIP soft phone (iPhone) 2.3.4 Build 14905

**Note:** Bria Phones are registered in the OmniPCX Office as "Open SIP phone".

## 6 Summary of test results

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### 6.1 Summary of main functions supported

Features	Status	Comments
Initialization including network configuration	OK	
SIP registration	OK	DHCP from OXO is not supported for SIP phones
SIP authentication	OK	
Voice over IP and RTP codec support	OK	
Outgoing Call	OK	
Incoming Call	OK	
Features During Conversation	OK_BUT	Second call could be made directly without hold which will cause the second call to fail with an error message "Internal Server error".
Call Transfer	OK	
Attendant	OK	After call is transferred voice path is not established for attended transfer alone
Voice mail interaction and indication	OK	

### 6.2 Summary of problems

none

### 6.3 Summary of limitations

- DHCP mode is restricted to ALU IP Phones.
- In Conference we are unable to see the other user information other than the one who initiated the conference.
- No count of new messages (voice mails) available on the display of sip phones.
- Call feature activation in the call server (eg CFU/CFB) is not displayed on the SIP device.
- Semi - Attended and blind Transfer are not supported in OXO.
- Second call could be made directly without hold which will cause the second call to fail with an error message "Internal Server error". If first call is held before initiating second call, then Enquiry call is possible (1-144946361/crms421799 )
- Caller identity is not updated after a transfer involving Bria softphone

### 6.4 Notes, remarks

- BRIA SIP Soft phones are registered in the OmniPCX Office as "Open SIP phone".

## 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 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

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	OK	NOK	Comment
1	<b>SIP sets</b>  Configure your SIP sets MCDU number on the OXO as 397, 398 & 399 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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	<b>SIP set registration to OXO in static IP addressing</b>  For this test we will try to register the SIP phone with authentication enabled.  SIP phones 397, 398 & 399 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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3	<b>DHCP registration (with OXO internal DHCP server)</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Restricted to ALE IP phones
4	<b>NTP registration</b>  The SIP phone 399 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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	<b>Support of "423 Interval Too Brief" (1)</b>  The SIP phone 398 is configured with a value lower than 120 seconds. Check the phone registration and display	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6	<b>Signaling TCP-UDP</b>  If applicable configure your SIP set 398 to use the protocol SIP over UDP and other TCP  In the two cases, check the registration and basic calls.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	iPhone: subsequent requests other than Invite (ACK, BYE) are in UDP.

## 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 BRIA 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	OK	NOK	Comment
1	Select G711 A-law as 1 <sup>st</sup> codec in BRIA Call from SIP 398 to IP Touch 323 Check that the call is established in G711 A-law. Check audio quality  Call from IP Touch 323 to SIP 398 Check that the call is established in G711 A-law. Check audio quality	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	Select G729 as 1st codec in BRIA Call from SIP 398 to IP Touch 323 Check that the call is established in G729 Check audio quality  Call from IP Touch 323 to SIP 398 Check that the call is established in G729 Check audio quality	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3	Select G723 as 1 <sup>st</sup> codec in BRIA Check that the call is established in G723 Check audio quality  Call from IP Touch 323 to SIP 398 Check that the call is established in G723 Check audio quality	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	G723 is not available in both Android and iPhone soft phone
4	<b>Configure 398 to use VAD (to enabled in the client end)</b> <b>Configure IP Touch 323 NOT to use VAD</b>  Call from SIP 398 to IP Touch 323 Check that the call is established in G711 A-law. Check audio quality  <b>Configure SIP 398 to use VAD (to enabled in the client end)</b> <b>Configure IP Touch 323 to use VAD</b> Redo the same tests.  <b>Configure SIP 398 NOT to use VAD</b> <b>Configure IP Touch 323 to use VAD</b> Redo the same tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	It is available on both client and OK

5	<p><b>In OXO enable codec pass through for SIP phones.</b>  <b>Call from SIP 397 to SIP 398</b>  Check that the call is established using G.729  Check audio quality.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p><b>iPhone:</b> Works fine [If two or more codec is said to be supported by other end in a reply to SDP, the update message from Bria was rejected with 488 Not Acceptable Here by OXO.</p>
6	<p><b>In OXO 1 and OXO 2 enable codec pass through for SIP phone ; direct RTP and codec pass through for SIP trunk. G729 is preferred codec in BRIA</b>  <b>Call from SIP 397 to Network SIP 122</b>  Check that the call is established using direct RTP in G729.  Check audio quality.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7	<p><b>In OXO 1 and OXO 2 disable direct RTP and codec pass through for SIP trunk ARS table is configured with "default" codec. G729 is preferred codec in BRIA</b>  <b>Call from SIP 397 to Network SIP 122</b>  Check that the call is established in G711.  Check audio quality</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8	<p><b>In OXO 1 and OXO 2 disable direct RTP and codec pass through for SIP trunk</b>  <b>ARS table is configured with codec G729_30</b>  <b>Default codec in sip phones should be set to G711</b>  <b>Call from SIP 397 to Network SIP 122</b>  Check that the call is established in G729.  Check audio quality</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

## 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 SEPLOS 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	OK	NOK	Comment
1	<b>Call to a local user</b>  With SIP Phone 398 call the IP Touch 322. Check that 322 is ringing. Take the call and check ring back tone audio and display.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	<b>Call to local user with no answer</b>  With SIP Phone 399 call the IP Touch 322. And never take the call. Check time out (if any) and display. Note that 322 don't have a Voice Mail	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>iPhone Version :</b> iPhone Bria to IP Touch: After 2 mins of not answering the call at IP Touch, the iPhone displays Operation timed out and the call gets disconnected at Bria (client returns to idle state). But in IP Touch, the call continues to proceed. When the IP Touch is off hooked, 200 OK and ACK message follows. <b>Android Version :</b> Works fine
3	<b>Call to another SIP set</b>  With the SIP phone 398 call the other SIP Phone 399  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"/>	
4	<b>Call to wrong number</b>  (SIP: "404 Not Found") With the SIP phone 398 call a wrong number Check the ring back tone and display	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	404 not found message is displayed.
5	<b>Call to busy user</b> <b>(SIP: "486 Busy Here")</b>  With the SIP phone 398 call IP Touch 322, take the call and don't hang up. With other SIP phone 399 call 322 which is busy Check the ring back tone and display	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Call from Bria to busy IP Touch set is OK on both edition
6	<b>Call to user in "Out of Service" state</b> <b>(SIP: "480 Temporarily Unavailable")</b>  With the SIP phone 399 call the IP Touch 322 which is in	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	



Test Case Id	Test Case	N/A	OK	NOK	Comment
	“Out of Service State” Check the display and ring back tone				
7	<b>Call to user in “Do not Disturb” (DND) state (SIP: “480 Temporarily not available”)</b>  Dial “*63” on the IP Touch 322 in order to enable the DND. Wait for acknowledgement ring back tone from OXO. With the SIP phone 398 call 322. Check ring back tone and display. Redial *63 on 322 to cancel the DND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	486 Busy here is received
8	<b>Call to local user, immediate forward (CFU). (SIP: “181 Forwarded”)(1)</b>  On IP Touch 322 dial the *61323 (*61 + 323) to activate the CFU. Wait for acknowledgement ring back tone from OXO. With the SIP phone 398 call the 322. Check that 323 is ringing and the display. Take the call check audio and hung up. Dial *60 on 322 for forward cancellation.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Display on BRIA is not updated
9	<b>Call to local user, forward on no reply (CFNR). (1)</b>  On IP Touch 322 configure with OMC the CFNR using dynamic routing to 323. With 398 call the 322. Check that 322 is ringing but don't take the call and wait the time out (about 30 sec). Time out is defined in 322 dynamic routing of Timer 1. After time out check that 323 is ringing and take the call. Check the audio and display.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Display of BRIA is not updated
10	<b>Call to local user, forward on busy (CFB). (1)</b>  On IP Touch 322 dial the *62323 (*62+<target MCDU number>) to activate the CFB. Wait for acknowledgement ring back tone from OXO. With SIP phone 398 call 322 and take the call to make it busy. With other SIP phone 399 call 322. Check that 323 is ringing and take the call. Check the audio and display. Dial *60 on 322 for forward cancellation.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Display of BRIA is not updated
11	<b>Call to external number (Check ring back tone, called party display)</b>  With SIP set 398 dial 9 (9 prefix +external number ) Take the call and check audio, display and call release.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12	<b>SIP session timer expiration: Check if call is maintained or released after the session timer has expired</b>  With SIP set 398 call IP Touch 322. Take the call on 322 and never hang up, wait for time out expiration. Check that call is maintained or release.	<input type="checkbox"/>	<input checked="" 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.

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

Test Case Id	Test Case	N/A	OK	NOK	Comment
1	<b>Local /network call to free SIP terminal</b> <u>Local</u> : with IP Touch 322 call SIP set 398. Check that 398 is ringing and take the call  Check ring back tone and called party display.  <u>Network</u> : with IP Touch 322 call SIP set 123 on another Node. Check that 123 is ringing and take the call.  Check ring back tone and called party display.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	<b>Local/network call to busy SIP terminal</b> <u>Local</u> : With SIP set 399 call other SIP set 398 and take the call to make it busy, don't hang up. With IP Touch 323 call 398 which is busy  Check the ring back tone and display.  <u>Network</u> : With SIP set 398 call SIP set 123 and take the call to make it busy, don't hang up. With 322 call 123 which is busy  Check ring back tone and called party display.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b><u>Android : Works Fine</u></b> <b><u>iPhone : OK_But</u></b> On receiving the second call OXO refuses to place the first call on hold with 603 declined. For third incoming call Bria sends 486 but OXO sends 500 Internal Error for the Caller.
3	<b>Local/network call to unplugged SIP terminal</b> <u>Local</u> : Unplug the 398 SIP set and call it with IP Touch 322.  Check the ring back tone and display  <u>Network</u> : Unplug the SIP set 123 and call it with 322  Check the ring back tone and display	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b><u>Android : Works Fine</u></b> <b><u>iPhone : OK_But</u></b> For call to unplugged SIP Phone, OXO sends 500 Internal Error for the Caller.
4A	<b>Local/network call to SIP terminal in Do Not Disturb (DND) mode</b> <b>By local feature if applicable:</b>  <u>Local</u> : Enable DND on SIP set 398 and call it with IP Touch 322 Check the ring back tone and display Cancel the DND on 398.  <u>Network</u> : Enable DND on SIP set 123 and call it with IP Touch 322 Check the ring back tone and display Cancel the DND on 398.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No DND feature in Bria Soft phone

Test Case Id	Test Case	N/A	OK	NOK	Comment
4B	<p><b>By system feature</b></p> <p><u>Local</u>: Enable DND on SIP set 398 using the *63 prefix. Wait for acknowledgement ring back tone from OXO.</p> <p>With IP Touch 322 call 398 Check the ring back tone and display Cancel the DND on 398 using *63 prefix.</p> <p><u>Network</u>: Enable DND on SIP set 123 using the *63 prefix. Wait for acknowledgement ring back tone from OXO.</p> <p>With IP Touch 322 call 123</p> <hr/> <p>Check the ring back tone and display Cancel the DND on 123 using * 60 prefix.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p><b>Android</b> : Works fine</p> <p><b>iPhone</b> : 500 internal server error is displayed when we dial *63. For Local OXO set receives 486 busy here but the network OXO set receives 500 internal server errors.</p>
5A	<p><b>Local/network/SIP call to SIP terminal in immediate forward (CFU) to local user:</b></p> <p><b>By local feature if applicable:</b> <u>Local</u>: On SIP set 398 enable CFU to IP Touch 322 With SIP set 399 call 398. Check that 322 is ringing. Take the call and check audio and display.</p> <p>Disable CFU on 398.</p> <p><u>Network</u>: On SIP set 123 enable CFU to IP Touch 102. With SIP set 398 call 123. Check that 102 is ringing. Take the call and check audio and display.</p> <p>Disable CFU on 123.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p><b>Android &amp; iPhone</b> : Called extension number is not updated at the caller end</p>
5B	<p><b>By system feature:</b></p> <p><u>Local</u>: On SIP set 398 enable CFU to IP Touch 322 using *61322 prefix (*61 + &lt;target MCDU number&gt;). Wait for acknowledgement ring back tone from OXO. With SIP set 399 call 398. Check that 322 is ringing. Take the call and check audio and display.</p> <p>Disable CFU on 398 using *60 prefix.</p> <p><u>Network</u>: On SIP Set 123 enable CFU to IP Touch 102 using *61122 prefix (*61 + &lt;target MCDU number&gt;). Wait for acknowledgement ring back tone from OXO. With SIP Set 399 call 123. Check that 102 is ringing. Take the call and check audio and display.</p> <p>Disable CFU on 123 using *60 prefix.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Test Case Id	Test Case	N/A	OK	NOK	Comment
6A	<p><b>Local/network/SIP call to SIP terminal in immediate forward (CFU) to network number:</b>  <b>By local feature if applicable:</b></p> <p><u>Local:</u> On SIP Set 399 enable CFU to SIP Set122. With SIP set 398 call 399. Check that 122 is ringing.  Take the call and check audio and display.</p> <p>Disable CFU on 399.</p> <p><u>Network:</u> On SIP Set 398 enable CFU to IP Touch 102. With SIP Set 123 call 398. Check that 102 is ringing.  Take the call and check audio and display.</p> <p>Disable CFU on 398.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p><b><u>Android &amp; iPhone :</u></b>  Called extension number is not updated at the caller end</p>
6B	<p><b>By system feature:</b></p> <p><u>Local:</u> On SIP Set 398 enable CFU to SIP Set 122 using *61122 prefix (*61 + &lt;target MCDU number&gt;).  Wait for acknowledgement ring back tone from OXO.  With SIP set 399 call 398. Check that 122 is ringing.  Take the call and check audio and display.</p> <p>Disable CFU on 398 using *60 prefix.</p> <p><u>Network:</u> On SIP Set 398 enable CFU to IP Touch 102 using *61102 prefix (*61 + &lt;target MCDU number&gt;).  Wait for acknowledgement ring back tone from OXO.  With SIP Set 123 call 398. Check that 102 is ringing.  Take the call and check audio and display.</p> <p>Disable CFU on 398 using *60 prefix.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7A	<p><b>Local/network/SIP call to SIP terminal in immediate forward (CFU) to another SIP user</b></p> <p><b>By local feature if applicable:</b>  <u>Local:</u> On SIP set 398 enable CFU to SIP set 122 With 399 call 398. Check that 122 is ringing.  Take the call and check audio and display.</p> <p>Disable CFU on 398.</p> <p><u>Network:</u> On SIP set 398 enable CFU to IP Touch 103. With SIP Set 122 call 398. Check that 103 is ringing.  Take the call and check audio and display.</p> <p>Disable CFU on 398.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p><b><u>Android &amp; iPhone :</u></b>  Called extension number is not updated at the caller end</p>

Test Case Id	Test Case	N/A	OK	NOK	Comment
7B	<p><b>By system feature:</b></p> <p>Local: On SIP Set 399 enable CFU to SIP Set 122 using *61122 prefix (*61 + &lt;target MCDU number&gt;). Wait for acknowledgement ring back tone from OXO. With SIP Set 398 call 399. Check that 122 is ringing. Take the call and check audio and display.</p> <p>Disable CFU on 399 using *60 prefix.</p> <p>Network: On SIP Set 399 enable CFU to IP Touch 103 using *61123 prefix (*61 + &lt;target MCDU number&gt;). Wait for acknowledgement ring back tone from OXO. With SIP Set 122 call 399. Check that 103 is ringing. Take the call and check audio and display. Disable CFU on 399 using *60 prefix</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8A	<p><b>Local call to SIP terminal in "forward on busy" (CFB) state:</b> <b>By local feature if applicable</b></p> <p>On SIP Set 398 enable CFB to IP Touch 322 With 398 call the voice mail at 500 to make it busy. With SIP Set 399 call 398 which is busy. Check that 322 is ringing Take the call and check audio and display.</p> <p>Disable CFU on 398.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No Local forward Feature
8B	<p><b>By system feature:</b></p> <p>On SIP Set 398 enable CFB to IP Touch 322 using *62322 prefix (*62 + &lt;target MCDU number&gt;). Wait for acknowledgement ring back tone from OXO. With 398 call the voice mail at 500 to make it busy. With SIP Set 399 call 398 which is busy. Check that 322 is ringing Take the call and check audio and display.</p> <p>Disable CFB on 398 using *60 prefix.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9A	<p><b>Local call to SIP terminal in "forward on no reply" (CFNR)</b> <b>By local feature if applicable</b></p> <p>On SIP Set 399 enable CFNR to IP Touch 322 With SIP Set 398 call 399. Check that 399 is ringing and don't take the call, wait for time out (about 30 seconds).</p> <p>After time out expiration the 322 is ringing, take the call and check audio and display.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No Local forward Feature
9B	<p><b>By system feature:</b></p> <p>On SIP Set 399 enable CFNR to IP Touch 322 With SIP Set 398 call 399. Check that 399 is ringing and don't take the call, wait for time out (about 30 seconds).</p> <p>After time out expiration the 322 is ringing, take the call and check audio and display.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Test Case Id	Test Case	N/A	OK	NOK	Comment
10	<b>Call to busy user, Call waiting.</b> (Camp-on), local feature if applicable: With SIP Set 398 call other SIP Set 399 (multiline set) to make it busy, take the call and don't hang up.  With IP Touch 323 call 399 (on 399 camp-on feature is enabled). Check the Call waiting or ring back tones and display	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11	<b>External call to SIP terminal.</b> Check that external call back number is shown correctly: With SIP Set 399 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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12	<b>Calling Line Identity Restriction (CLIR): Local call to SIP terminal.</b> On IP Touch 323 enable mask Identity and call SIP Set 399 in order to hide 323 identity. Check that 399 is ringing, take the call and check that 323 identity is hidden.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Android & iPhone: Number displayed as 'Anonymous'
13	Display: Call to free SIP terminal from IP Touch user with a name containing non-ASCII characters (eg éëèèèè). Check caller display.  Check that SIP set is ringing and check on its display that the characters are correctly printed.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
15	SIP set is part of a sequential hunt group (1). Call to hunt group. Check call/release. With IP Touch 322 call the sequential hunt group MCDU number 328 Check that 398 is ringing Take the call and don't hang up.  And with IP Touch 323 call the sequential hunt group MCDU number 328 Check that 323 is ringing Take the call and don't hang up.  And with SIP Set 397 call the sequential hunt group MCDU number 328 Check that 399 is ringing Take the call and don't hang up.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Test Case Id	Test Case	N/A	OK	NOK	Comment
16	<p>SIP set is part of a cyclic hunt group (2). Call to hunt group. Check call/release.</p> <p>With IP Touch 322 call the cyclic hunt group MCDU number 323. Check that 301 is ringing. Take the call and hang up.</p> <p>And with 322 call the cyclic hunt group MCDU number 323. Check that 399 is ringing. Take the call and hang up.</p> <p>And with SIP Set 397 call the cyclic hunt group MCDU number 323. Check that 398 is ringing. Take the call and don't hang up.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
17	<p>SIP set is declared as a MultiSet. Call to main set and see if twin set rings. Take call with twin set.</p> <p>With IP Touch 323 call IP Touch 322 which is in MultiSet with SIP Set 399. Check that 399 and 322 both ringing.</p> <p>Take the call from 399 and check that 322 stop ringing. Check audio and display.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**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	OK	NOK	Comment
1A	<b>Hold and resume with local feature</b> (if applicable) With 399 call 322 take the call, check audio and display.  With 399 put 322 on hold check tones and display on both and resume the call.  With 322 put 399 on hold check tones and display on both and resume the call.  Keep this call for the next test.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	When IP Touch puts Bria on hold, no hold tone is heard at its end.
1B	<b>Enquiry call to another local user</b> (if applicable) Distant user is put on hold with local feature  With 399 (multi-lines) call 323 and take the call. 322 will be put on hold when making second call to 323  Put 323 on hold and check tones and display on both.  Keep these two calls for the next test.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>Android &amp; iPhone:</b> OK_BUT In Bria, Second call could be made directly without hold which will cause the second call to fail with an error message "Internal Server error". If first call is held before initiating second call, then Enquiry call is possible. 1-144946361/crms421799 Same issue on iPhone.
1C	<b>Broker request, toggle back and forth between both lines with local feature</b> (if applicable)  With 399 switch between 322 and 323 lines.  Check the tones and display on sets on hold state.  Keep these two calls for the next test.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>Android &amp; iPhone:</b> In OK_BUT In Bria, Second call could be made directly without hold which will cause the second call to fail with an error message "Internal Server error". If first call is held before initiating second call, then Enquiry call is possible. 1-144946361/crms421799
1D	Release first call. Keep second call. Hang up 322 and only 399 and 323 are in call Check that 399 & 323 are still in a call, check display.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	Repeat the test 1C to 1D but using the call server feature	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hold, enquiry, broker call functionality is not supported within call server for SIP device



Test Case Id	Test Case	N/A	OK	NOK	Comment
3	<b>Three party conferences initiated from OXO set</b> With 322 call 398, take the call and don't release it.  With 322 call 324, take the call and don't release it too.  With 322 start a conference?  Check that 322, 323 and 398 are in conference. Check audio and display.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SIP device display is not updated when OXO users initiate the conference
4A	<b>Three party conferences initiated from SIP set with local feature (if applicable)</b>  With 398 call 322 take the call and don't release it.  With 398 call 323, take the call and don't release it too.  With 398 start a conference by the local feature  Check that 322, 323 and 398 are in conference. Check audio and display.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Display on IP Touch sets doesn't show that there is a conference. Bria does not have Conference feature. Instead there is a feature to merge which merges the RTP internally rather than using signaling.
4B	<b>Three party conferences initiated from SIP set with system feature</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	<b>Meet Me conference</b>  With 399 call the Meet me Conference bridge dialing prefix 68 and follow instruction to open the bride.  With 398 join the conference bridge by dialing prefix 69 and enter access code.  With 322 join the conference bridge by dialing prefix 69 and enter access code.  Check that 322, 398 and 399 are in conference.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

## 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
	A	B	C		
	Transferee	Transferor	Transfer Target		
1	OXO	SIP	OXO	OK	First call is held before initiating second call only then Enquiry call and transfer is possible.
2	Ext Call	SIP	OXO	OK	Same as point 1
3	Ext Call	SIP	Ext Call	OK	Same as point 1
4	SIP	SIP	SIP	OK	Same as point 1
5	SIP	OXO	OXO	OK	
6	Ext Call	OXO	SIP	OK	
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	OK	NOK	Comment
1	<b>SIP set call to attendant</b> From SIP set 398 dial "9" (attendant call prefix)Check audio and display	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	<b>2<sup>nd</sup> incoming call while in conversation with attendant</b> While SIP set 398 is in conversation with the attendant, from IP Touch 323 call 398 Answer the call and check audio and display	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Attendant call gets "603 declined" from OXO after receiving the first call.
3	<b>SIP set call to attendant, attendant transfers to OXO set, semi-attended</b> From SIP set 398 dial "9" (attendant call prefix) and answer.  Attendant transfer semi-attended to IP Touch 323 Answer the call and check audio and display	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4	<b>SIP set call to attendant, attendant transfers to OXO set, attended</b> From SIP set 398 dial "9" (attendant call prefix) and answer  Attendant transfer attended to IP Touch 323 Check audio and display	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5	<b>OXO set calls to attendant, attendant transfers to SIP set, attended</b> From IP Touch 323 dial "9" (attendant call prefix) and answer  Attendant transfer attended to SIP set 398 Check audio and display	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6	<b>External ISDN Call to attendant, attendant transfers to SIP set, attended</b> ISDN incoming call to the attendant.  From the attendant call SIP set 398 and transfer attended Check audio and display	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7	<b>SIP set call to attendant, attendant transfers to External</b> From SIP set 398, 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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

## 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 398, 399 and OXO 322.

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	OK	NOK	Comment
1	<p>Password modification</p> <p>With SIP set 399 call the Voice Mail at 500 and follow the Voice guide in order to modify the default password.</p> <p>When modification is accepted hang-up.</p> <p>Recall the voice mail and try to log with a wrong password. Check the rejection.</p> <p>Recall the voice mail and try to log with the right password. Check the service access.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	<p>Message display activation, MWI (1):</p> <p>With SIP set 398 call the Voice Mail at 500.</p> <p>Follow the instructions in order to send a voice message in SIP set 399 boxes.</p> <p>Check that the MWI on 399 is activated.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3	<p>Message consultation</p> <p>With SIP set 399 call the Voice Mail at 500.</p> <p>Follow the instructions in order to listen your voice message leaved during the previous test. Check that your can listen it and delete.</p> <p>Check that MWI display is disabled on 399 after message cancellation.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4	<p>SIP call to a OXO user forwarded to Voice Mail</p> <p>Forward the IP Touch 322 to Voice Mail by dialing *61500 (*61 prefix + &lt;Voice Mail number&gt;).</p> <p>With SIP set 399 call 322 and check that you are immediately forwarded to Voice Mail.</p> <p>Check that you can leave a message</p> <p>On 322 disable Voice Mail forwarding with *60 prefix.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5	<p>OXO set call to a SIP user forwarded to Voice Mail</p> <p>Forward the SIP set 399 to Voice Mail by dialing *61500 (*61 prefix + &lt;Voice Mail number&gt;).</p> <p>With IP Touch 322 call 399 and check that you are immediately forwarded to Voice Mail.</p> <p>Check that you can leave a message</p> <p>On 399 disable Voice Mail forwarding with *60 prefix.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

### Notes:

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

Show the SIP set will react in case of a OXO reboot, Ethernet link failure.

Test Case Id	Test Case	N/A	OK	NOK	Comment
1	<b>OXO Reboot</b>				
	Establish an incoming ISDN call with SIP set-1.				
	Reboot the OXO.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	When the OXO is up again, re-establish an incoming ISDN call with SIPset-1 and check the audio.				
2	<b>Ethernet link failure</b>				
	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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Reconnect the Ethernet link of SIP set-1.				
	Re-establish an incoming ISDN call with SIP set-1 and check the audio.				

## 8.9 Integration with GSM call

The aim is to verify the interactions between GSM and SIP call.

Test Case Id	Test Case	N/A	OK	NOK	Comment
<b>1</b>	Incoming/Outgoing SIP call while in GSM call				
<b>A</b>	<b>Incoming SIP call</b> Perform a GSM call to a public extension from SIPset-1. From SIPset-2, try to call SIPset-1. Check that the SIP call is refused and SIPset-1 stays in conversation in GSM mode.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The call is notified as missed call
<b>B</b>	<b>Outgoing SIP call</b> Perform a GSM call to a public extension from SIPset-1. From SIPset-1, try to call SIPset-2. Check that the SIP call is refused and SIPset-1 stays in conversation in GSM mode.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	A popup appears: outgoing SIP call is impossible while in GSM call.
<b>2</b>	Incoming/Outgoing GSM call while in SIP call				
<b>A</b>	<b>Incoming GSM call</b> From SIPset-1, call SIPset-2. Receive a GSM call from a public extension to SIPset-1. Check that the SIP call is put on hold.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The SIP call is put on hold
<b>B</b>	<b>Outgoing GSM call</b> From SIPset-1, call SIPset-2. Perform a GSM call to a public extension from SIPset-1. Check that the SIP call is put on hold.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The SIP call is put on hold

## 8.10 Wifi infrastructure

The following tests have been done using a Sony Xperia S running Android 2.3.7 operating system and an iPhone 4S with iOS 5. The results should change depending on the Android version/integration deployed on the mobile device.

The tests have been done with Alcatel OmniAccess Wireless Lan solution. The OAW controllers versions were 5.0.3.0. These controllers operate with access points AP125.

### 8.10.1 Security – Android/iPhone association

#### 8.10.1.1 Ciphering modes testing

The aim is to verify that Android/iphone phones can associate to an AP with the following security:

- None
- WPA-PSK / TKIP
- WPA2-PSK / AES

Then a basic call is made.

#### Test description:

Configure the SSID and the phone with the tested security. The phone is powered on and a basic call is performed.

#### Test results:

Test Case Id	Test Case	N/A	OK	NOK	Comment
1	Association				
A	<b>No security</b> Associate SIPset-1 and SIPset-2 with on an SSID with no security. Make a basic call between SIPset-1 and SIPset-2.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B	<b>WPA-PSK/TKIP security</b> Associate SIPset-1 and SIPset-2 with on an SSID with WPA-PSK/TKIP security. Make a basic call between SIPset-1 and SIPset-2.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C	<b>WPA2-PSK/AES security</b> Associate SIPset-1 and SIPset-2 with on an SSID with WPA2-PSK/AES security. Make a basic call between SIPset-1 and SIPset-2.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

### 8.10.1.2 Omni Access ALG SIP firewall

The aim is to verify the compatibility of the Omni Access Wireless switch SIP firewall ALG and the Android/iphone phones.

#### Test description:

The OAW is configured to give the Android/iphone phones a role with the following security policies:

Id	Source	Destination	Service	Action
1	Any	Any	Dhcp	Permit
2	User	CS(proxy SIP)	Svc-sip-udp	Permit
3	CS(proxy Sip)	User	Svc-sip-udp	Permit
4	User	NTP server	Svc-ntp	Permit
5	Any	Any	Icmp	Permit

The phone is powered on. It should be ready to do or receive a call. It is correctly registered on the Sip registrar. Incoming and outgoing calls are performed.

Verify that the firewall ALG SIP opens the RTP and RTCP ports correctly and that the voice data path session is labeled with the "V" (like Voice).

#### Test results:

Test Case Id	Test Case	N/A	OK	NOK	Comment
1	ALG SIP				
A	<b>ALG SIP. Power on the phone</b> Activate the autostart feature on Bria Android/iphone application. Power-on SIPset-1 and check that SIPset-1 is registered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B	<b>ALG SIP. Basic calls</b> Make a basic call between SIPset-1 and SIPset-2.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C	<b>ALG SIP. Advanced telephony services</b> Make a basic call between SIPset-1 and SIPset-2. From SIPset-2 call SIPset-3. From SIPset-2, transfer SIPset-1 to SIPset-3.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	



## 8.10.2 Voice quality

### 8.10.2.1 Speech quality

This test aims at checking the voice quality between two sets and one of them is a SIP set

Test Case Id	Test Case	N/A	OK	NOK	Comment
1	Speech quality				
A	<b>Call to the SIP set in Active mode</b> From <b>SIPset-1</b> call <b>OXOset-1</b> . Check the subjective quality of the voice on both directions.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B	<b>Call from theSIP set in Active mode</b> From <b>OXOset-1</b> call <b>SIPset-1</b> . Check the subjective quality of the voice on both directions.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C	<b>Call to theSIP set in U-APSD mode</b> From <b>SIPset-1</b> call <b>OXOset-1</b> . Check the subjective quality of the voice on both directions.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
D	<b>Call from theSIP set in U-APSD mode</b> From <b>SIPset-1</b> call <b>OXOset-1</b> . Check the subjective quality of the voice on both directions.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

### 8.10.2.2 Roaming

The aim is to determine the subjective voice disturbance during a roaming.

This test will be performed in:

WPA2-PSK / AES on 2.4 GHz (802.11 b/g/n)

WPA2-PSK / AES on 5 GHz (802.11 a/n)

#### Test description

2 APs are on the same channel and connected to the same OAW or on a Master/local configuration. Several handovers are performed between these 2 APs. We check the subjective voice disturbance.

#### Test results:

Test Case Id	Test Case	N/A	OK	NOK	Comment
1	Handover				
A	<b>Handover in call between 2 APs connected to the same OAW.</b> Security: WPA2-PSK/AES on 2.4 GHz (802.11 b/g/n) From <b>SIPset-1</b> call <b>DXOset-1</b> . Perform the handover. Check the audio disturbance during the handover.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No loss of voice
B	<b>Roaming in call between 2 APs connected to different OAWs. Controllers are declared as Master/Local.</b> Security: WPA2-PSK/AES on 2.4 GHz (802.11 b/g/n) From <b>SIPset-1</b> call <b>DXOset-1</b> . Perform the handover. Check the audio disturbance during the handover.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	RTP port range must be opened on OAW firewall. If not, the RTP flows are dropped on the OAW.
C	<b>Handover in call between 2 APs connected to the same OAW.</b> Security: WPA2-PSK/AES on 5 GHz (802.11 a/n) From <b>SIPset-1</b> call <b>DXOset-1</b> . Perform the handover. Check the audio disturbance during the handover.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No heard loss of voice
D	<b>Roaming in call between 2 APs connected to different OAWs. Controllers are declared as Master/Local.</b> Security: WPA2-PSK/AES on 5 GHz (802.11 a/n) From <b>SIPset-1</b> call <b>DXOset-1</b> . Perform the handover. Check the audio disturbance during the handover.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	RTP port range must be opened on OAW firewall. If not, the RTP flows are dropped on the OAW.

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

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### Counterpath Bria Android version :



### Configure SIP phone setting

The settings are configured in the Android phone (Samsung S2) through the GUI

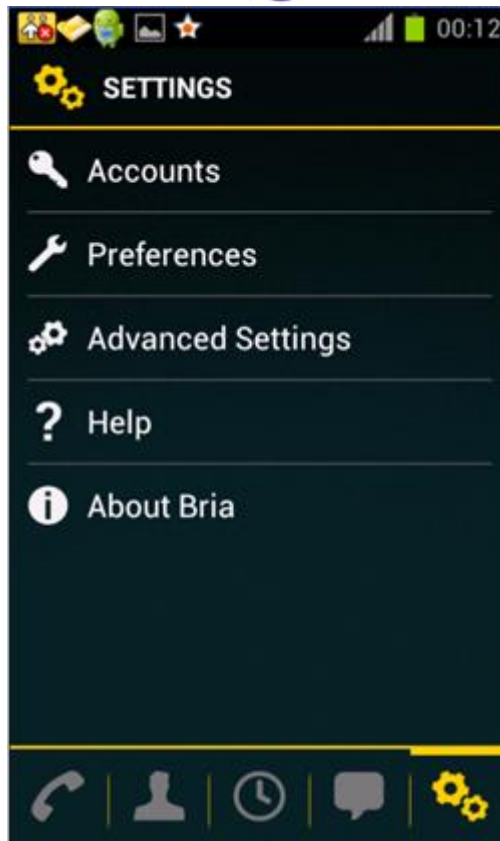
## 10 Appendix B: AAPP member's: Application Configuration Requirements

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Dial page:



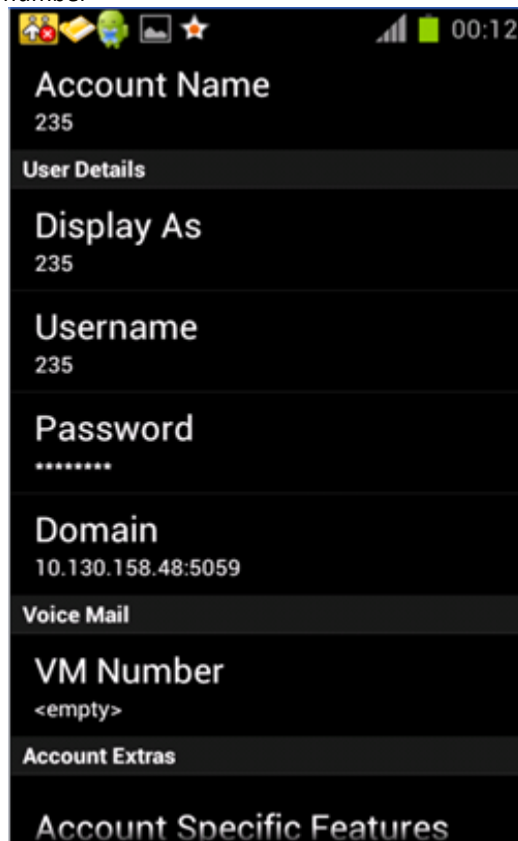
Settings section:

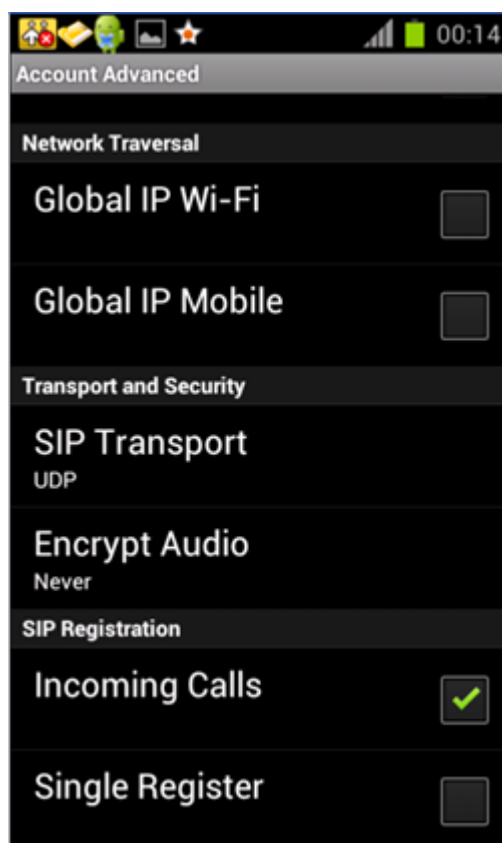


#### SIP account creation:

The SIP account should be configured and activated with the following parameters:

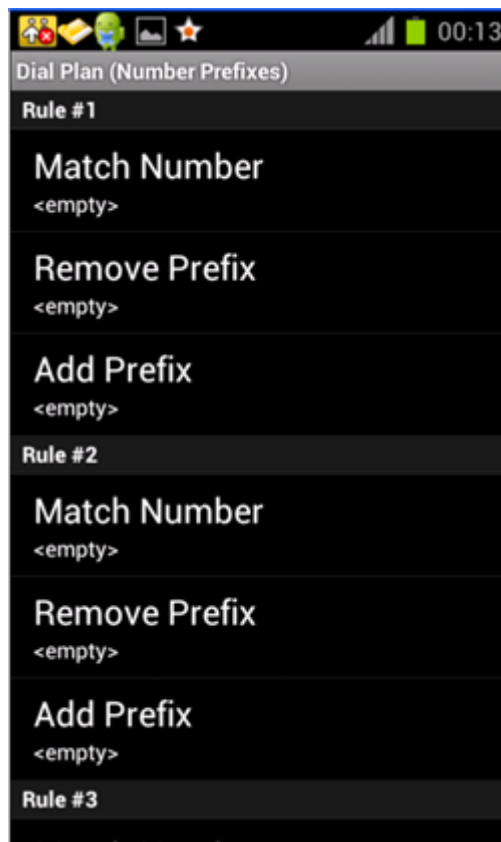
- Account name
- User name
- User password
- SIP domain (SIP proxy/registrar)
- System voice mail directory number





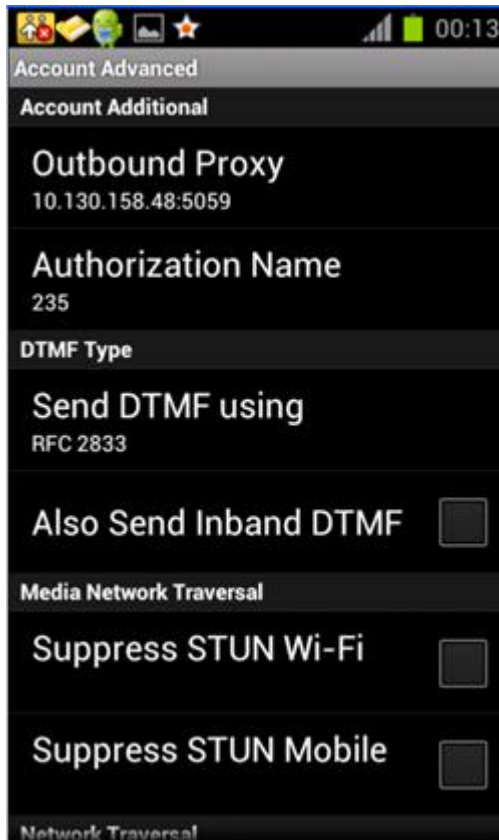
### Dial plan adjustment:

A dial plan should be added attached to the SIP account to adapt a public number to the private enterprise dial plan. For example, if your company extensions numbers match this template 03906xxxxx where xxxxx is your private directory number on OXO, you can add the following rule to remove the prefix '03906'. With this rule you can adjust your mobile phonebook to the company private extensions plan.



#### **Advanced parameters – network traversal strategy:**

To disable STUN or ICE traversal method in your local company network, the network traversal strategy should be configured in the advanced parameters section.

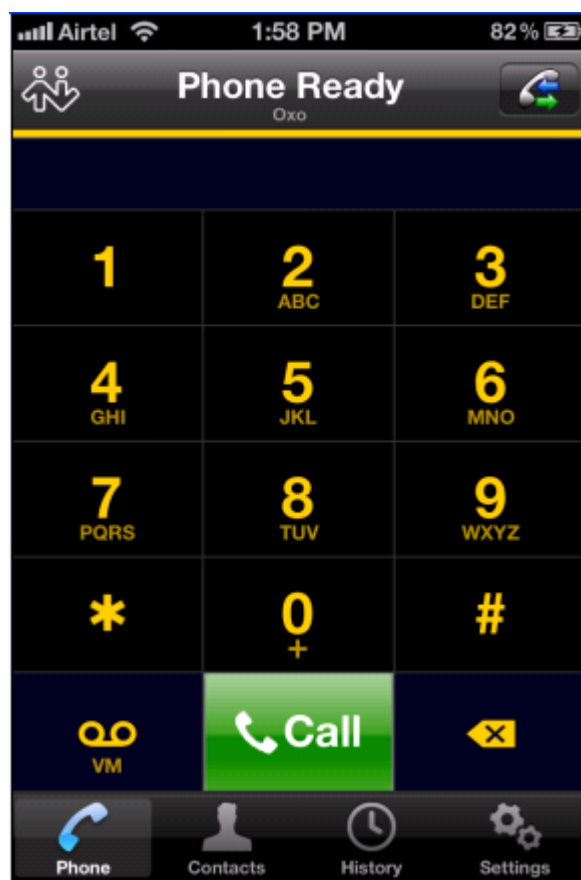


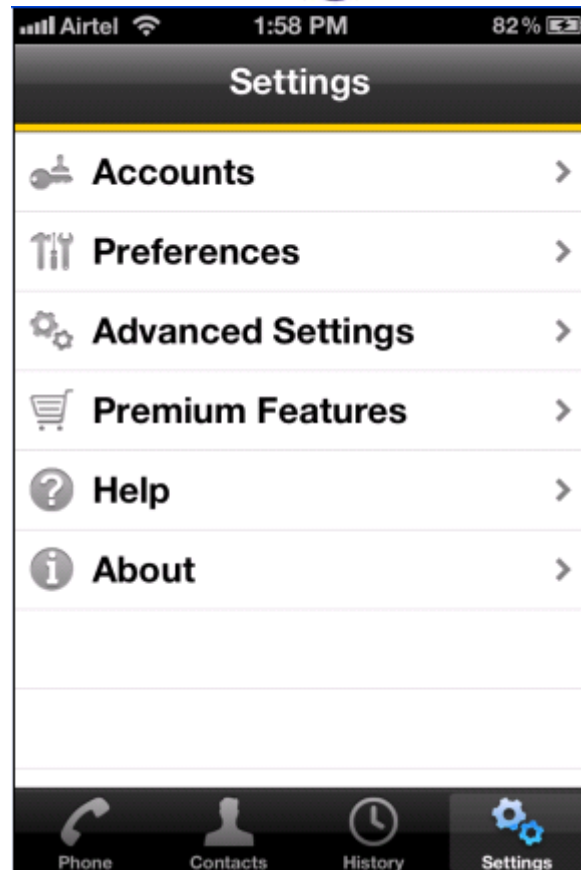
#### **Advanced parameters – codec options:**

The codec list should be configured in the advanced parameter section.



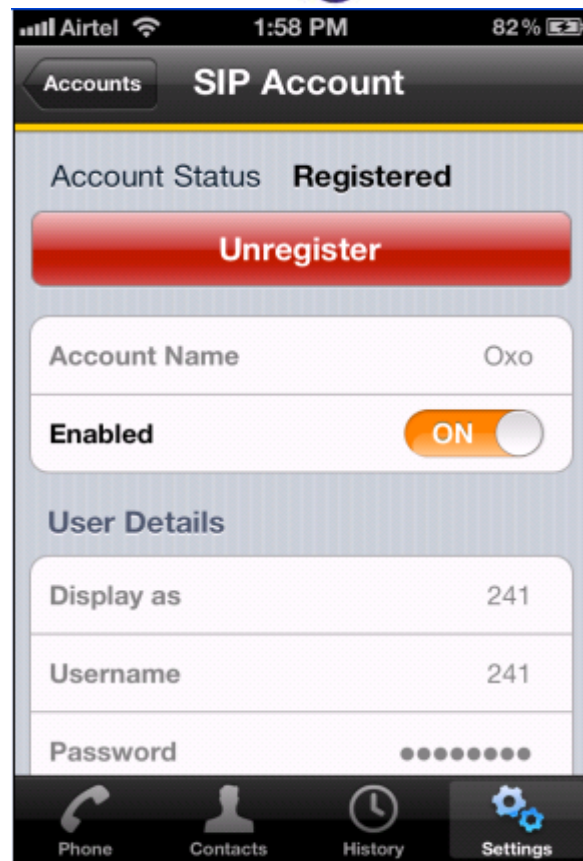


**IPHONE :****Dial page:****Settings section:**

**SIP account creation:**

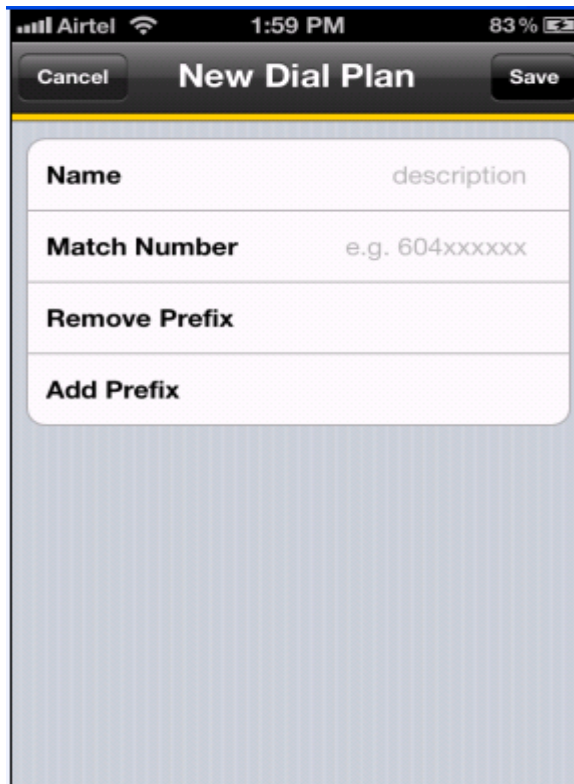
The SIP account should be configured and activated with the following parameters:

- Account name
- User name
- User password
- SIP domain (SIP proxy/registrar)
- System voice mail directory number



### Dial plan adjustment:

A dial plan should be added attached to the SIP account to adapt a public number to the private enterprise dial plan. For example, if your company extensions numbers match this template 03906xxxxx where xxxxx is your private directory number on OXO, you can add the following rule to remove the prefix '03906'. With this rule you can adjust your mobile phonebook to the company private extensions plan.



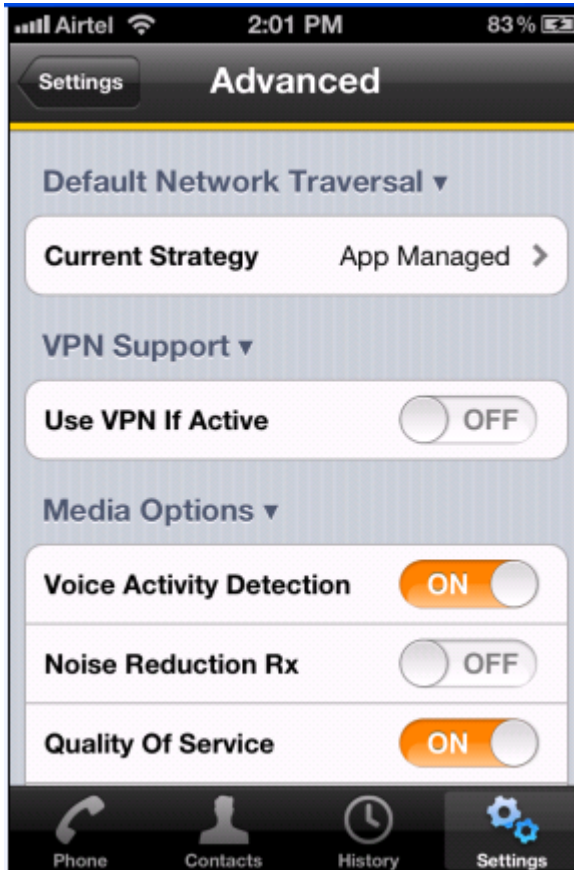
The screenshot shows a mobile application interface for creating a new dial plan. The status bar at the top indicates the carrier is 'Airtel', there is a Wi-Fi connection, the time is 1:59 PM, and the battery is at 83%. The app title is 'New Dial Plan'. Below the title bar, there are four input fields:

- Name**: A text field with a placeholder 'description'.
- Match Number**: A text field with a placeholder 'e.g. 604xxxxxx'.
- Remove Prefix**: A text field.
- Add Prefix**: A text field.

At the bottom of the screen, there are 'Cancel' and 'Save' buttons.

#### **Advanced parameters – network traversal strategy:**

To disable STUN or ICE traversal method in your local company network, the network traversal strategy should be configured in the advanced parameters section.



#### **Advanced parameters – codec options:**

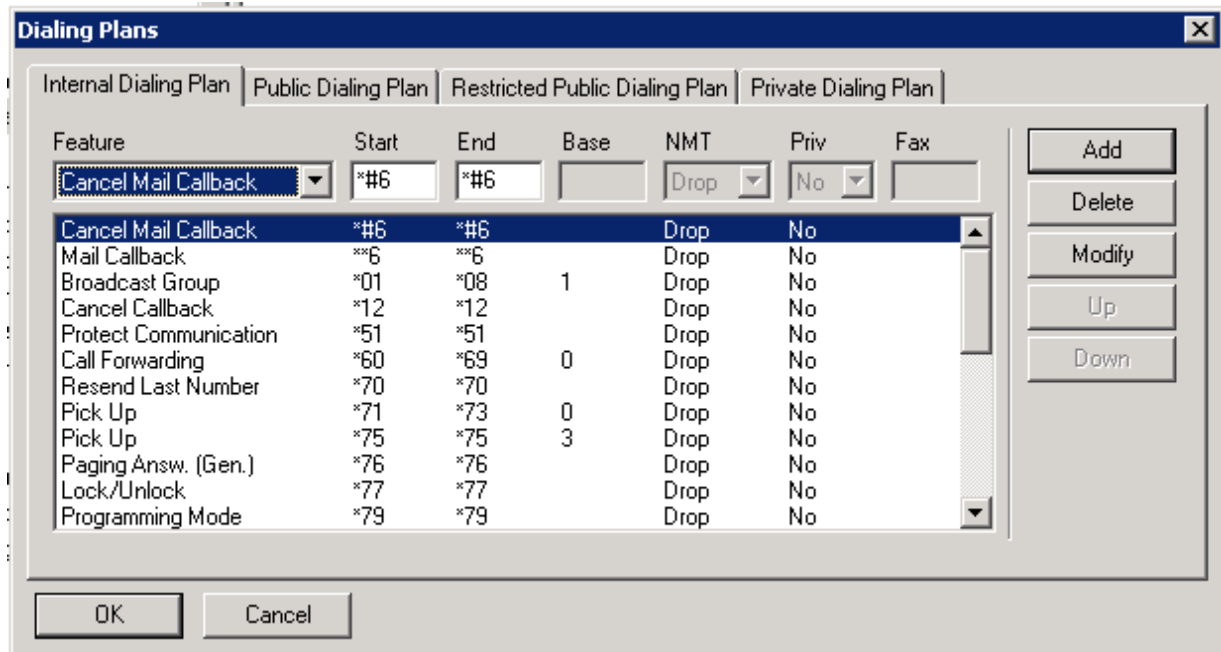
The codec list should be configured in the advanced parameter section.



## 11 Appendix C: Alcatel-Lucent Platform: Configuration Requirements

### OXO Configuration

#### 1. Dialing Plan:



Feature	Start	End	Base	NMT	Priv	Fax
Cancel Mail Callback	*#6	*#6		Drop	No	
Mail Callback	**6	**6		Drop	No	
Broadcast Group	*01	*08	1	Drop	No	
Cancel Callback	*12	*12		Drop	No	
Protect Communication	*51	*51		Drop	No	
Call Forwarding	*60	*69	0	Drop	No	
Resend Last Number	*70	*70		Drop	No	
Pick Up	*71	*73	0	Drop	No	
Pick Up	*75	*75	3	Drop	No	
Paging Answ. (Gen.)	*76	*76		Drop	No	
Lock/Unlock	*77	*77		Drop	No	
Programming Mode	*79	*79		Drop	No	

#### 2. DNS/DHCP Configuration:

LAN / IP Configuration

LAN Configuration

Boards

IP Addresses for PPP

Routing

Priority Mapping

DNS/DHCP

Data Traffic

☒ On normal LAN (802.3 frames)

☐ Use priority without VLAN (802.1p, VLAN ID=0)

☐ Use VLAN (802.1p, 802.1Q)

VLAN ID

2

Network IP Address

10

130

158

0

IP Subnet Mask

255

255

255

0

Default Router Address

10

130

158

100

☐ Use Management IP Address

Management IP Address

Router IP address/Domain name

☐ Use Internet Access Board as Default Router

Voice Traffic

☒ Use the same LAN/VLAN as Data Traffic

☐ Use a separate VLAN

VLAN ID

3

Network IP Address

IP Subnet Mask

Default Router Address

Please verify IP addresses on next tab.

OK

Cancel



### 3. Trunk Configuration:

**VoIP: Parameters**

General Gateway DSP DHCP Fax SIP SIP Phone

Number of VoIP-Trunk Channels

Number of VoIP-Subscriber Channels

IP Quality of Service

VoIP Protocol

☒ RTP Direct

☒ Codec pass-through for SIP trunks

☒ Codec pass-through for SIP phones

OK Cancel

**Trunk Groups: Details**

Index	No.	Type	Name
<input type="text" value="2"/>	<input type="text" value="400"/>	<input type="text" value="Serial"/>	<input type="text" value="VOIP"/>

Phy. Add.	Acc. Type	Identifier	No of Chan.
95-001-01	VoIP	V001	<input type="text" value="8"/>

Add Delete Modify Up Down Link-COS

OK Cancel

#### 4. Trunk Access:

**List of Accesses**

<input checked="" type="radio"/> Phy. Add.	<input type="radio"/> Acc. Type	Identifier	No of Chan.
02-009-01	T0	N001	2
02-010-01	T0	N002	2
02-011-01	T0	N003	2
02-012-01	T0	N004	2
03-001-01	Lig. analog.	L001	1
03-002-01	Lig. analog.	L002	1
03-003-01	Lig. analog.	L003	1
03-004-01	Lig. analog.	L004	1
95-001-01	VoIP	V001	8

Buttons: Delete, Details, Return

#### 5. Network Call Configuration:

Automatic Routing: Prefixes											
Acti...	Ne...	Pr...	Ra...	Substi...	TrGp...	Calle...	User ...	Destination	IP Type	IP Address	Hostname
Yes	priv	1	00-99	1	1	hom	OXO2	SIP Gate...	Static	10.130.158.45	I

#### 6. SIP Set Configuration:

**User**

Phy. Add.

Name

Dir. Numbers

Int. No.

Secondary sets

Terminal

Original Type

Temporary Type

Mode

Buttons: Keys, V 24, Features, Password, Counting, ISDN, Pers. SPD., Services, Spd Dial, Misc., Restr/Barring, Diversion, Dyn. Rout., Set Divers, DECT/PWT, Hotel, Appoint., Mailbox, Reset

**Feature Rights**

Phy. Add.	No.	Terminal	Name
94-010-01	235	Open SIP Phone	BR1A

Feature Rights Part 1

<input checked="" type="checkbox"/> Camp-on Allowed	<input type="checkbox"/> Paging
<input type="checkbox"/> Camp-on Protection	<input checked="" type="checkbox"/> Selective Diversion
<input type="checkbox"/> Conference	<input type="checkbox"/> External Diversion
<input type="checkbox"/> Callback (automatic)	<input type="checkbox"/> Barge-in Allowed
<input checked="" type="checkbox"/> Name Display	<input type="checkbox"/> Barge-in Protection
<input checked="" type="checkbox"/> Call Pickup Allowed	<input type="checkbox"/> Warn tone Protection
<input type="checkbox"/> UUS Allowed	<input type="checkbox"/> Identity Masked
<input type="checkbox"/> Activate Meet Me Conf.	<input type="checkbox"/> WAN API Access
<input type="checkbox"/> My IC Web Office Support	<input type="checkbox"/> Video Support

Buttons: OK, Cancel, Part 2

## 7. Lists of OXO prefixes used in tests

Dialing Plans

Internal Dialing Plan

Public Dialing Plan

Restricted Public Dialing Plan

Private Dialing Plan

Feature	Start	End	Base	NMT	Priv	Fax
Cancel Mail Callback	*#6	*#6		Drop	No	
Mail Callback	**6	**6		Drop	No	
Broadcast Group	*01	*08	1	Drop	No	
Cancel Callback	*12	*12		Drop	No	
Protect Communication	*51	*51		Drop	No	
Call Forwarding	*60	*69	0	Drop	No	
Resend Last Number	*70	*70		Drop	No	
Pick Up	*71	*73	0	Drop	No	
Pick Up	*75	*75	3	Drop	No	
Paging Answ. (Gen.)	*76	*76		Drop	No	
Lock/Unlock	*77	*77		Drop	No	
Programming Mode	*79	*79		Drop	No	

Add

Delete

Modify

Up

Down

OK

Cancel

Dialing Plans

Internal Dialing Plan

Public Dialing Plan

Restricted Public Dialing Plan

Private Dialing Plan

Feature	Start	End	Base	NMT	Priv	Fax
Secondary Trunk Group	400	434	1	Drop	No	
Set Retrieve	*880	*880		Drop	No	
Attendant Call	0	0	0	Drop	No	
User	200	299	100	Drop	No	
User	300	399	300	Drop	No	
Secondary Trunk Group	400	434	1	Drop	No	
Hunt Group	500	525	500	Drop	No	
Mailing	67	67		Drop	No	
ACD Prefix	680	681	0	Drop	No	
Activate Meet Me	69	69	0	Drop	No	
Join Meet Me	70	70	0	Drop	No	
Common Speed Dial	8000	8999	0	Drop	No	
Main Trunk Group	9	9	0	Drop	No	

Add

Delete

Modify

Up

Down

OK

Cancel

Dialing Plans

Internal Dialing Plan

Public Dialing Plan

Restricted Public Dialing Plan

Private Dialing Plan

Feature	Start	End	Base	NMT	Priv	Fax
Secondary Trunk Group	500	534	1	Drop	No	
Pickup Parked Call	73	73	0	Drop	No	
Pick Up	74	74	0	Drop	No	
Mailing	75	75		Drop	No	
Common Speed Dial	8000	8399	0	Drop	No	
ACD Prefix	840	841	0	Drop	No	
Set Replace	877	877		Drop	No	
Set Retrieve	878	878		Drop	No	
Call Forwarding	88	88	7	Drop	No	
Programming Mode	89	89		Drop	No	
Main Trunk Group	9	9	0	Drop	No	
Call Forwarding	A	A	1	Drop	No	
Cancel Callback	B	B		Drop	No	

Add

Delete

Modify

Up

Down

OK

Cancel

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

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General support can be contacted by email at : [support@counterpath.com](mailto:support@counterpath.com)

The support can also be reached by using the webpage: <http://www.counterpath.com/support.html>

For more information please refer to your software support agreement.

## 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'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.

#### Web site

The Application Partner Portal is a website dedicated to the AAPP members and potential candidates. It can be accessed at this URL: <http://applicationpartner.alcatel-lucent.com>

### 13.2 Alcatel-Lucent.com

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

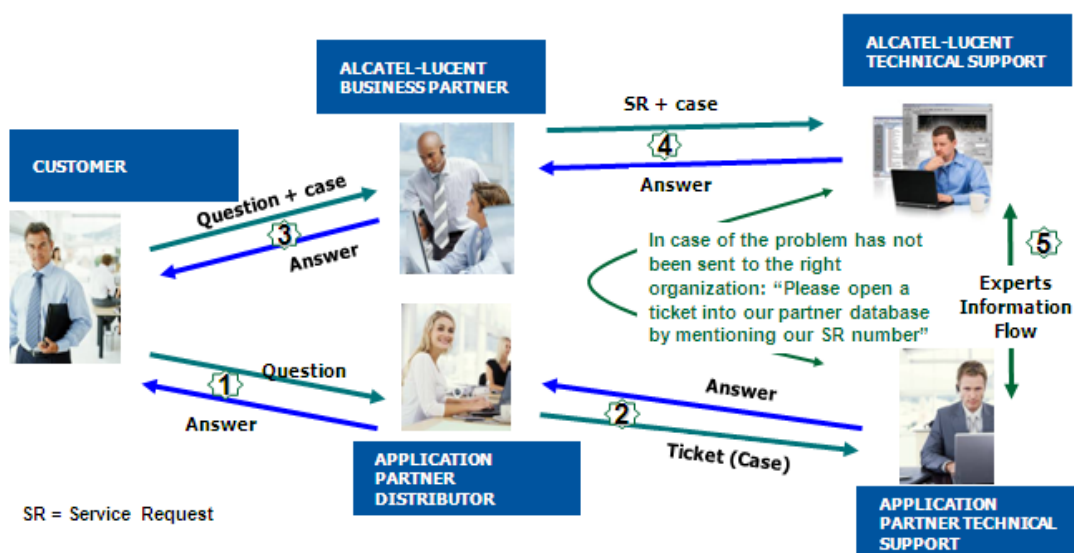
## 14 Appendix F: AAPP Escalation process

### 14.1 Introduction

The purpose of this appendix is to define the escalation process to be applied by the 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 has demonstrated with traces a problem on the Alcatel-Lucent side or if the Application Partner (not the Business Partner) needs the involvement of Alcatel-Lucent.

In that case, the Alcatel-Lucent Business Partner must provide the reference of the Case Number on the Application Partner side. 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 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://private.applicationpartner.alcatel-lucent.com>) or Enterprise Business Portal (Url: [Enterprise Business Portal](#)) 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”)
2. The 3<sup>rd</sup> party company is referenced as AAPP participant 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 3<sup>rd</sup> party company is NOT referenced as AAPP participant

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): <http://applicationpartner.alcatel-lucent.com>
- e-Support from the Alcatel-Lucent Business Partners Web site (if registered Alcatel-Lucent Business Partners): <https://businessportal.alcatel-lucent.com> click under "Let us help you" the *eService Request* link
- e-mail: [Ebg\\_Global\\_Supportcenter@alcatel-lucent.com](mailto:Ebg_Global_Supportcenter@alcatel-lucent.com)
- 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	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