

Alcatel-Lucent Application Partner Program Inter-Working Report

Partner: Mediatrix

Application type: Analog equipments SIP Gateway

Application name: Mediatrix 4102 & 4116

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	Roberto Roman
Alcatel-Lucent Communication Platform	OmniPCX Office
Alcatel-Lucent Communication Platform Release	900/042.001
AAPP member application version	Dgw 2.0.24.402
Application Category	Gateway

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Revision History

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Edition 2: minor updates of the document *and firmware update* Dgw 2.0.24.402– *April 2013*

Test results

- ☐ Passed
 ☐ Refused
 ☐ Postponed
☒ Passed with restrictions

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

IWR validity extension

The tests have been performed with Mediatrix 4102 and 4116 gateways. The certification is extended to the following devices powered by the save firmware version:

- Mediatrix 4104 (based on the 4102 results)
- Mediatrix 4108 (based on the 4116 results)
- Mediatrix 4124 (based on the 4116 results)

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1 Introduction

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

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

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

2 Validity of the InterWorking Report

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: *The InterWorking report becomes automatically obsolete when the mentioned product Limits of the Technical support*

3 Limits of the Technical support

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

Application type: Telephone Adapter / VoIP Gateway for Analog equipments

Application commercial name: Mediatrix 4102 and 4116

Application version: Dgw 2.0.24.402

Interface type : SIP/Ethernet

Interface version (if relevant): -

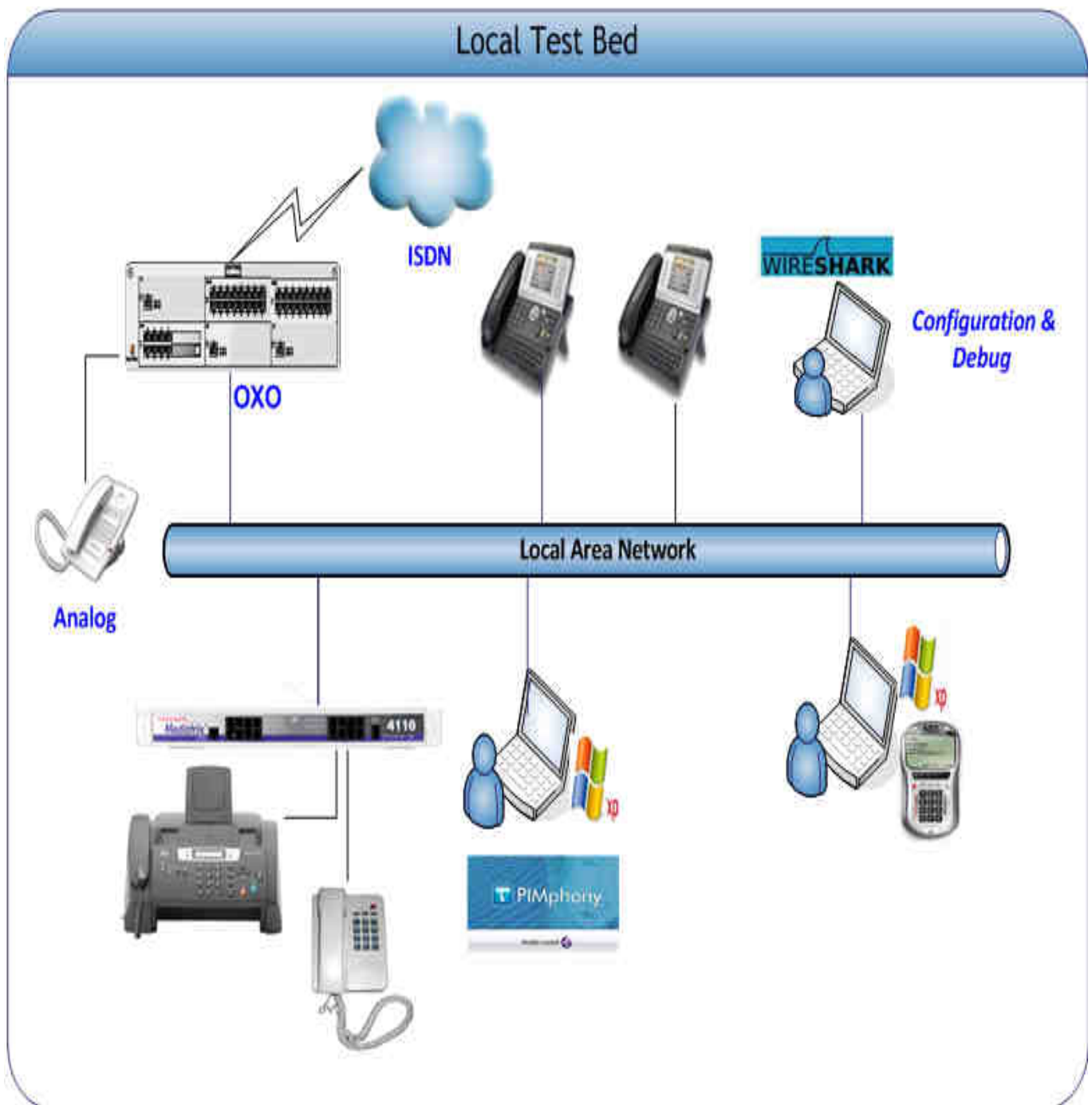
Brief application description:

Mediatrix:

The Mediatrix® 4100 Series provides a solution for the transparent integration of faxes, modems, point of sales and analog phones to IP Communication Systems. The 4100 Series are available in 2, 4, 8, 16 and 24 FXS ports designed to meet the varied application requirements of Service Providers.

The Mediatrix 4100 Series VoIP adaptors are high-quality, cost efficient VoIP gateways connecting small to large branch offices and multi-tenant buildings to an IP network, while preserving existing investments in analog telephones and faxes.

5 Test Environment



Alcatel-Lucent Communication Platform:

- OmniPCX Office Rack
- PowerCPU
- Release: 900/042.001
- OMC: 900/11.1a

Setup Details:

Setup Information OXO 1	
OXO 1 IP address	10.130.158.45
Domain name	Oxo1testing.proservtesting.com
Voicemail numbers	214 -221
Attendant number	200
OXO Extension Details used for test	
IP Touch extension numbers	IPset-1 : 230 IPset-2 : 229 IPset-3 : 231
Analog phone extension numbers	Zset-1 : 208 Zset-1 : 209
OXO fax extension numbers	FAXset-1: 208
Analog gateway fax extension numbers	GWFAset-1 :228

Setup Information OXO 2	
OXO 1 IP address	10.130.158.48
Domain name	Oxo2testing.proservtesting.com
Voicemail number	314
Attendant number	0
OXO Extension Details used for test	
IP Touch extension numbers	IPset-1 :310 IPset-2 : 311 IPset-3 : 312
Analog phone extension numbers	Zset-1 : 325 Zset-1 : 326
OXO fax extension number	FAXset-1: 327
Analog gateway fax extension numbers	GWFAset-1 :328

5.1 Software configuration

- **Alcatel-Lucent Communication Platform:** OmniPCX Office 900/042.001
- **Partner Application:**

Note: Analog phones are registered in the OmniPCX Office as "Open SIP phone".
Fax phones are registered in the OmniPCX Office as "Basic SIP phone".

6 Summary of test results

6.1 Summary of main functions supported

Features	Status	Comments
Initialization including network configuration	OK	
SIP registration	OK	
SIP authentication	OK	
Voice over IP and RTP codec support	OK	
Outgoing Call	OK	
Incoming Call	OK	
Features During Conversation	OK	
Call Transfer	OK	
Attendant	OK	
Voice mail interaction and indication	OK	
Fax test	OK	

6.2 Summary of problems



6.3 Summary of limitations

- DND Option is not available in Mediatrix GUI Interface.
- G723 is not supported by the Gateway
- The Mediatrix 4102 supports the FSK signal to enable the visual indicator and does not provide voltage for the indication. **So message waiting indication will not work in phones which require voltage for the indication with 4102.** Mediatrix 4116 provides both voltage and FSK signal and so MWI will work in this model alone.

6.4 Notes, remarks

- Analog phone are registered in the OmniPCX Office as "Open SIP phone".
- Fax phone are registered in the OmniPCX Office as "Basic 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	Test case 1 <ul style="list-style-type: none"> Action Expected result 	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	Test case 2 <ul style="list-style-type: none"> Action Expected result 	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The application waits for PBX timer or phone set hangs up
3	Test case 3 <ul style="list-style-type: none"> Action Expected result 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Relevant only if the CTI interface is a direct CSTA link
4	Test case 4 <ul style="list-style-type: none"> Action Expected result 	<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 Analog phones tests

In this section analog phones are connected as Open SIP device on OXO through the analog gateway. These phones act as OXO sets, so system features are available (prefix, suffix for example)

8.1.1 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	SIP sets Configure your SIP sets MCDU number on the OXO as Zset-1, Zset-2 & Zset-3 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	SIP set registration to OXO in static IP addressing For this test we will try to register the SIP phone with authentication enabled. SIP phones Zset-1, Zset-2 & Zset-3 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	DHCP registration	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Restricted to ALE IP extensions
3	NTP registration The SIP phone Zset-3 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"/>	NA
4	Support of "423 Interval Too Brief" (1) The SIP phone Zset-2 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"/>	
5	Signaling TCP-UDP If applicable configure your SIP set Zset-2 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"/>	

8.1.2 Audio codec negotiations/ VAD / Framing

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

Phone configuration: configure the analog gateway 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 st codec in the analog gateway Call from SIP Zset-2 to IP Touch IPset-2 Check that the call is established in G711 A-law. Check audio quality Call from IP Touch IPset-2 to SIP Zset-2 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 1 st codec in the analog gateway Call from SIP Zset-2 to IP Touch IPset-2 Check that the call is established in G729 Check audio quality Call from IP Touch IPset-2 to SIP Zset-2 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 st codec in the analog gateway Call from SIP Zset-2 to IP Touch IPset-2 Check that the call is established in G723 Check audio quality Call from IP Touch IPset-2 to SIP Zset-2 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 on Mediatrix gateway
4	Configure Zset-2 to use VAD Configure IP Touch IPset-2 NOT to use VAD Call from SIP Zset-2 to IP Touch IPset-2 Check that the call is established in G711 A-law. Check audio quality Configure SIP Zset-2 to use VAD Configure IP Touch IPset-2 to use VAD Redo the same tests Configure SIP Zset-2 NOT to use VAD Configure IP Touch IPset-2 to use VAD Redo the same tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5	In OXO enable codec pass through for SIP phones Call from SIP Zset-1 to SIP Zset-2 Check that the call is established using G.722 Check audio quality	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	G722 is not available on Mediatrix gateway Tested with G711

6	<p>In OXO 1 and OXO 2 enable codec pass through for SIP phone ; direct RTP and codec pass through for SIP trunk. G723 is preferred codec in the analog gateway</p> <p>Call from SIP Zset-1 to Network SIP NwkZset-1 Check that the call is established using direct RTP in G723. Check audio quality</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p>G723 is not available on Mediatrix gateway</p> <p>Tested with G729</p>
7	<p>In OXO 1 and OXO 2 disable direct RTP and codec pass through for SIP trunk ARS table is configured with "default" codec. G723 is preferred codec in the analog gateway</p> <p>Call from SIP Zset-1 to Network SIP NwkZset-1 Check that the call is established in G711. Check audio quality</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8	<p>In OXO 1 and OXO 2 disable direct RTP and codec pass through for SIP trunk ARS table is configured with codec G729_30</p> <p>Call from SIP Zset-1 to Network SIP NwkZset-1 Check that the call is established in G729. Check audio quality</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

8.1.3 Outgoing Calls

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

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

Calls to data devices are refused.

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

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

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

Test Case Id	Test Case	N/A	OK	NOK	Comment
1	Call to a local user With SIP Phone Zset-2 call the IP Touch IPset-1. Check that IPset-1 is ringing. Take the call and check ring back tone audio and display.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	Call to local user with no answer With SIP Phone Zset-3 call the IP Touch IPset-1. And never take the call. Check time out (if any) and display. Note that IPset-1 don't have a Voice Mail	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IPset-1 is ringing until Zset-3 releases the call
3	Call to another SIP set With the SIP phone Zset-2 call the other SIP Phone Zset-3 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	Call to wrong number (SIP: "404 Not Found") With the SIP phone Zset-2 call a wrong number Check the ring back tone and display	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5	Call to busy user (SIP: "486 Busy Here") With the SIP phone Zset-2 call IP Touch IPset-1, take the call and don't hang up. With other SIP phone Zset-3 call IPset-1 which is busy Check the ring back tone and display	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6	Call to user in "Out of Service" state (SIP: "480 Temporarily Unavailable") With the SIP phone Zset-3 call the IP Touch IPset-1 which is in "Out of Service State" Check the display and ring back tone	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Test Case Id	Test Case	N/A	OK	NOK	Comment
7	Call to user in "Do not Disturb" (DND) state (SIP: "480 Temporarily not available") Dial "*63" on the IP Touch IPset-1 in order to enable the DND. Wait for acknowledgement ring back tone from OXO. With the SIP phone Zset-2 call IPset-1. Check ring back tone and display. Redial *60 on IPset-1 to cancel the DND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8	Call to local user, immediate forward (CFU). (SIP: "181 Forwarded")(1) On IP Touch IPset-1 dial the *61IPset-2 to activate the CFU. Wait for acknowledgement ring back tone from OXO. With the SIP phone Zset-2 call the IPset-1. Check that IPset-2 is ringing and the display. Take the call check audio and hung up. Dial *60 on IPset-1 for forward cancellation.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9	Call to local user, forward on no reply (CFNR). (1) On IP Touch IPset-1 configure with OMC the CFNR using dynamic routing to IPset-2. With Zset-2 call the IPset-1. Check that IPset-1 is ringing but don't take the call and wait the time out (about 30 sec). Time out is defined in IPset-1 dynamic routing of Timer 1. After time out check that IPset-2 is ringing and take the call. Check the audio and display.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
10	Call to local user, forward on busy (CFB). (1) On IP Touch IPset-1 dial the *62IPset-2 (*62+<target MCDU number>) to activate the CFB. Wait for acknowledgement ring back tone from OXO. With SIP phone Zset-2 call IPset-1 and take the call to make it busy. With other SIP phone Zset-3 call IPset-1. Check that IPset-2 is ringing and take the call. Check the audio and display. Dial *60 on IPset-1 for forward cancellation.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11	Call to external number (Check ring back tone, called party display) With SIP set Zset-2 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	SIP session timer expiration: Check if call is maintained or released after the session timer has expired With SIP set Zset-2 call IP Touch IPset-1. Take the call on IPset-1 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.

8.1.4 Incoming Calls

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

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

Test Case Id	Test Case	N/A	OK	NOK	Comment
1	Local /network call to free SIP terminal <u>Local</u> : with IP Touch IPset-1 call SIP set Zset-2. Check that Zset-2 is ringing and take the call Check ring back tone and called party display. <u>Network</u> : with IP Touch IPset-1 call SIP set NwkZset-2 on another Node. Check that NwkZset-2 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	Local/network call to busy SIP terminal <u>Local</u> : With SIP set Zset-3 call other SIP set Zset-2 and take the call to make it busy, don't hang up. With IP Touch IPset-2 call Zset-2 which is busy Check the ring back tone and display. <u>Network</u> : With SIP set Zset-2 call SIP set NwkZset-2 and take the call to make it busy, don't hang up. With IPset-1 call NwkZset-2 which is busy Check ring back tone and called party display.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3	Local/network call to unplugged SIP terminal <u>Local</u> : Unplug the Zset-2 SIP set and call it with IP Touch IPset-1. Check the ring back tone and display <u>Network</u> : Unplug the SIP set NwkZset-2 and call it with IPset-1 Check the ring back tone and display	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4A	Local/network call to SIP terminal in Do Not Disturb (DND) mode By local feature if applicable: <u>Local</u> : Enable DND on SIP set Zset-2 and call it with IP Touch IPset-1 Check the ring back tone and display Cancel the DND on Zset-2. <u>Network</u> : Enable DND on SIP set NwkZset-2 and call it with IP Touch IPset-1 Check the ring back tone and display Cancel the DND on Zset-2.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	DND Feature is not available in Mediatix

Test Case Id	Test Case	N/A	OK	NOK	Comment
4B	<p>By system feature</p> <p><u>Local</u>: Enable DND on SIP set Zset-2 using the *63 prefix.. Wait for acknowledgement ring back tone from OXO.</p> <p>With IP Touch IPset-1 call Zset-2 Check the ring back tone and display Cancel the DND on Zset-2 using *63 prefix.</p> <p><u>Network</u>: Enable DND on SIP set NwkZset-2 using the *63 prefix. Wait for acknowledgement ring back tone from OXO.</p> <p>With IP Touch IPset-1 call NwkZset-2 Check the ring back tone and display Cancel the DND on NwkZset-2 using * 60 prefix.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5A	<p>Local/network/SIP call to SIP terminal in immediate forward (CFU) to local user:</p> <p>By local feature if applicable: <u>Local</u>: On SIP set Zset-2 enable CFU to IP Touch IPset-1 With SIP set Zset-3 call Zset-2. Check that IPset-1 is ringing. Take the call and check audio and display.</p> <p>Disable CFU on Zset-2.</p> <p><u>Network</u>: On SIP set NwkZset-2 enable CFU to IP Touch NwkIPset-1. With SIP set Zset-2 call NwkZset-2. Check that NwkIPset-1 is ringing. Take the call and check audio and display.</p> <p>Disable CFU on NwkZset-2.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5B	<p>By system feature:</p> <p><u>Local</u>: On SIP set Zset-2 enable CFU to IP Touch IPset-1 using *61IPset-1 prefix (*61 + <target MCDU number>). Wait for acknowledgement ring back tone from OXO. With SIP set Zset-3 call Zset-2. Check that IPset-1 is ringing. Take the call and check audio and display.</p> <p>Disable CFU on Zset-2 using *60 prefix.</p> <p><u>Network</u>: On SIP Set NwkZset-2 enable CFU to IP Touch NwkIPset-1 using *61 + <target MCDU number>. Wait for acknowledgement ring back tone from OXO. With SIP Set Zset-3 call NwkZset-2. Check that NwkIPset-1 is ringing. Take the call and check audio and display.</p> <p>Disable CFU on NwkZset-2 using *60 prefix.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Test Case Id	Test Case	N/A	OK	NOK	Comment
B	<p>Local/network/SIP call to SIP terminal in immediate forward (CFU) to network number: By local feature if applicable:</p> <p><u>Local:</u> On SIP Set Zset-3 enable CFU to SIP Set NwkZset-1. With SIP set Zset-2 call Zset-3. Check that NwkZset-1 is ringing. Take the call and check audio and display.</p> <p>Disable CFU on Zset-3.</p> <p><u>Network:</u> On SIP Set Zset-2 enable CFU to IP Touch NwkIPset-1. With SIP Set NwkZset-2 call Zset-2. Check that NwkIPset-1 is ringing. Take the call and check audio and display.</p> <p>Disable CFU on Zset-2.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6B	<p>By system feature:</p> <p><u>Local:</u> On SIP Set Zset-2 enable CFU to SIP Set NwkZset-1 using *61NwkZset-1 prefix (*61 + <target MCDU number>). Wait for acknowledgement ring back tone from OXO. With SIP set Zset-3 call Zset-2. Check that NwkZset-1 is ringing. Take the call and check audio and display.</p> <p>Disable CFU on Zset-2 using *60 prefix.</p> <p><u>Network:</u> On SIP Set Zset-2 enable CFU to IP Touch NwkIPset-1 using *61 + <target MCDU number>. Wait for acknowledgement ring back tone from OXO. With SIP Set NwkZset-2 call Zset-2. Check that NwkIPset-1 is ringing. Take the call and check audio and display.</p> <p>Disable CFU on Zset-2 using *60 prefix.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7A	<p>Local/network/SIP call to SIP terminal in immediate forward (CFU) to another SIP user</p> <p>By local feature if applicable: <u>Local:</u> On SIP set Zset-2 enable CFU to SIP set NwkZset-1. With Zset-3 call Zset-2. Check that NwkZset-1 is ringing. Take the call and check audio and display.</p> <p>Disable CFU on Zset-2.</p> <p><u>Network:</u> On SIP set Zset-2 enable CFU to IP Touch NwkIPset-3. With SIP Set NwkZset-1 call Zset-2. Check that NwkIPset-3 is ringing. Take the call and check audio and display.</p> <p>Disable CFU on Zset-2.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Test Case Id	Test Case	N/A	OK	NOK	Comment
7B	<p>By system feature:</p> <p><u>Local</u>: On SIP Set Zset-3 enable CFU to SIP Set NwkZset-1 using *61 + <target MCDU number>. Wait for acknowledgement ring back tone from OXO. With SIP Set Zset-2 call Zset-3. Check that NwkZset-1 is ringing. Take the call and check audio and display.</p> <p>Disable CFU on Zset-3 using *60 prefix.</p> <p><u>Network</u>: On SIP Set Zset-3 enable CFU to IP Touch NwkIPset-3 using *61 + <target MCDU number>. Wait for acknowledgement ring back tone from OXO. With SIP Set NwkZset-1 call Zset-3. Check that NwkIPset-3 is ringing. Take the call and check audio and display.</p> <p>Disable CFU on Zset-3 using *60 prefix</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8A	<p>Local call to SIP terminal in “forward on busy” (CFB) state: By local feature if applicable</p> <p>On SIP Set Zset-2 enable CFB to IP Touch IPset-1 With Zset-2 call the voice mail to make it busy. With SIP Set Zset-3 call Zset-2 which is busy. Check that IPset-1 is ringing Take the call and check audio and display.</p> <p>Disable CFU on Zset-2.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8B	<p>By system feature:</p> <p>On SIP Set Zset-2 enable CFB to IP Touch IPset-1 using *62 + <target MCDU number>. Wait for acknowledgement ring back tone from OXO. With Zset-2 call the voice mail to make it busy. With SIP Set Zset-3 call Zset-2 which is busy. Check that IPset-1 is ringing Take the call and check audio and display.</p> <p>Disable CFB on Zset-2 using *60 prefix.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9A	<p>Local call to SIP terminal in “forward on no reply” (CFNR) By local feature if applicable</p> <p>On SIP Set Zset-3 enable CFNR to IP Touch IPset-1 With SIP Set Zset-2 call Zset-3. Check that Zset-3 is ringing and don’t take the call, wait for time out (about 30 seconds).</p> <p>After time out expiration the IPset-1 is ringing, take the call and check audio and display.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9B	<p>By system feature</p> <p>CNFR via prefix not available on OXO (dynamic routing has to be used)</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Test Case Id	Test Case	N/A	OK	NOK	Comment
10	Call to busy user, Call waiting. (Camp-on), local feature if applicable: With SIP Set Zset-2 call other SIP Set Zset-3 (multiline set) to make it busy, take the call and don't hang up. With IP Touch IPset-2 call Zset-3 (on Zset-3 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"/>	Busy tone is heard
11	External call to SIP terminal. Check that external call back number is shown correctly: With SIP Set Zset-3 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"/>	External number is shown correctly in the external device
12	Calling Line Identity Restriction (CLIR): Local call to SIP terminal. On IP Touch IPset-2 enable mask Identity and call SIP Set Zset-3 in order to hide IPset-2 identity. Check that Zset-3 is ringing, take the call and check that IPset-2 identity is hidden.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13	Display: Call to free SIP terminal (Analog Phone connected behind the Sip Gateway) from IP Touch user with a name containing non-ASCII characters (eg éëèèèè). Check that SIP set is ringing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
14	Display: Call from IP Touch to SIP (Analog Phone connected behind the Sip Gateway) which has the name containing non-ASCII characters, eg &@(#?+)=. Check that SIP set is ringing	<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 IPset-1 call the sequential hunt group MCDU number 328 Check that Zset-2 is ringing Take the call and don't hang up. And with IP Touch IPset-2 call the sequential hunt group MCDU number 328 Check that IPset-2 is ringing Take the call and don't hang up. And with SIP Set Zset-1 call the sequential hunt group MCDU number 328 Check that Zset-3 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 IPset-1 call the cyclic hunt group MCDU number IPset-2</p> <p>Check that 301 is ringing</p> <p>Take the call and hang up.</p> <p>And with IPset-1 call the cyclic hunt group MCDU number IPset-2</p> <p>Check that Zset-3 is ringing</p> <p>Take the call and hang up.</p> <p>And with SIP Set Zset-1 call the cyclic hunt group MCDU number IPset-2</p> <p>Check that Zset-2 is ringing</p> <p>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 IPset-2 call IP Touch IPset-1 which is in MultiSet with SIP Set Zset-3.</p> <p>Check that Zset-3 and IPset-1 both ringing.</p> <p>Take the call from Zset-3 and check that IPset-1 stop ringing.</p> <p>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.

8.1.5 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	Hold and resume with local feature (if applicable) With Zset-3 call IPset-1 take the call, check audio and display. With Zset-3 put IPset-1 on hold check tones and display on both and resume the call. With IPset-1 put Zset-3 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"/>	
1B	Enquiry call to another local user (if applicable) Distant user is put on hold with local feature With Zset-3 (multi-lines) call IPset-2 and take the call. IPset-1 will be put on hold when making second call to IPset-2 Put IPset-2 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"/>	
1C	Broker request, toggle back and forth between both lines with local feature (if applicable) With Zset-3 switch between IPset-1 and IPset-2 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"/>	
1D	Release first call. Keep second call. Hang up IPset-1 and only Zset-3 and IPset-2 are in call Check that Zset-3 & IPset-2 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3	Three party conferences initiated from OXO set With IPset-1 call Zset-2, take the call and don't release it. With IPset-1 call IPset-2, take the call and don't release it too. With IPset-1 start a conference. Check that IPset-1, IPset-2 and Zset-2 are in conference. Check audio and display.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4A	Three party conferences initiated from SIP set with local feature (if applicable) With Zset-2 call IPset-1 take the call and don't release it.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Test Case Id	Test Case	N/A	OK	NOK	Comment
	<p>With Zset-2 call IPset-2, take the call and don't release it too.</p> <p>With Zset-2 start a conference by the local feature</p> <p>Check that IPset-1, IPset-2 and Zset-2 are in conference. Check audio and display.</p>				
4B	<p>Three party conferences initiated from SIP set with OXO feature</p> <p>With Zset-2 call IPset-1 takes the call and don't release it.</p> <p>With Zset-2 call IPset-2, take the call and don't release it too.</p> <p>With Zset-2 start a conference by the OXO feature</p> <p>Check that IPset-1, IPset-2 and Zset-2 are in conference. Check audio and display.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Conference feature is not supported within call server for SIP device
5	<p>Meet Me conference</p> <p>With Zset-3 call the Meet me Conference bridge dialing prefix 68 and follow instruction to open the bride.</p> <p>With Zset-2 join the conference bridge by dialing prefix 69 and enter access code.</p> <p>With IPset-1 join the conference bridge by dialing prefix 69 and enter access code.</p> <p>Check that IPset-1, Zset-2 and Zset-3 are in conference.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

8.1.6 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	
2	Ext Call	SIP	OXO	OK	
3	Ext Call	SIP	Ext Call	OK	
4	SIP	SIP	SIP	OK	
5	SIP	OXO	OXO	OK	
6	Ext Call	OXO	SIP	OK	
7	SIP	OXO	SIP	OK	

8.1.7 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	SIP set call to attendant From SIP set Zset-2 dial "9" (attendant call prefix) Check audio and display	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	2nd incoming call while in conversation with attendant While SIP set Zset-2 is in conversation with the attendant, from IP Touch IPset-2 call Zset-2 Check audio and display	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3	SIP set call to attendant, attendant transfers to OXO set, semi-attended From SIP set Zset-2 dial "9" (attendant call prefix) and answer. Attendant transfer semi-attended to IP Touch IPset-2 Answer the call and check audio and display	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4	SIP set call to attendant, attendant transfers to OXO set, attended From SIP set Zset-2 dial "9" (attendant call prefix) and answer Attendant transfer attended to IP Touch IPset-2 Check audio and display	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5	OXO set calls to attendant, attendant transfers to SIP set, attended From IP Touch IPset-2 dial "9" (attendant call prefix) and answer Attendant transfer attended to SIP set Zset-2 Check audio and display	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6	External ISDN Call to attendant, attendant transfers to SIP set, attended ISDN incoming call to the attendant. From the attendant call SIP set Zset-2 and transfer attended Check audio and display	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7	SIP set call to attendant, attendant transfers to External From SIP set Zset-2, 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"/>	

8.1.8 Voice Mail

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

Voice mail service is enabled on SIP sets Zset-2, Zset-3 and OXO IPset-1.

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 Zset-3 call the Voice Mail 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 Zset-2 call the Voice Mail.</p> <p>Follow the instructions in order to send a voice message in SIP set Zset-3 boxes.</p> <p>Check that the MWI on Zset-3 is activated.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p>4102: the Mediatrix 4102 supports the FSK signal to enable the visual indicator and does not provide voltage for the indication. So message waiting indication will not work in phones which require voltage for the indication.</p> <p>4116: OK</p>
3	<p>Message consultation</p> <p>With SIP set Zset-3 call the Voice Mail.</p> <p>Follow the instructions in order to listen your voice message leaved during the previous test. Check that you can listen it and delete.</p> <p>Check that MWI display is disabled on Zset-3 after message cancellation.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p>Message can be consulted</p> <p>No message waiting indication</p>
4	<p>SIP call to a OXO user forwarded to Voice Mail</p> <p>Forward the IP Touch IPset-1 to Voice Mail by dialing *61 prefix + <Voice Mail number>.</p> <p>With SIP set Zset-3 call IPset-1 and check that you are immediately forwarded to Voice Mail.</p> <p>Check that you can leave a message</p> <p>On IPset-1 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 Zset-3 to Voice Mail by dialing *61 prefix + <Voice Mail number>.</p> <p>With IP Touch IPset-1 call Zset-3 and check that you are immediately forwarded to Voice Mail.</p> <p>Check that you can leave a message</p> <p>On Zset-3 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.

8.1.9 Defence

Checks how 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	OXO Reboot				
	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-2 and check the audio.				
2	Ethernet link failure				
	Establish an incoming ISDN call with SIP set-1.				
	Disconnect the Ethernet link of SIP set-1.				
	Check that the incoming call is presented to the attendant.	<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.				

8.1 Fax tests

In this section fax modules are connected as Basic SIP device on OXO though the analog gateway. These fax modules are limited to G711 pass-through (G711 transparency) sending method. The OmniPCX Office does not support T.38 protocol on SIP subscriber.

All tests performed in this chapter are made exclusively with G711.

8.1.1 Basic Fax Tests

8.1.1.1 Test objectives

These tests shall verify that the basic communication between FAX can be made on different conditions.

8.1.1.2 Authentication between GATEWAY Fax and OmniPCX Office

Description: Check the behavior of GATEWAY endpoints registration without/with authentication

Test Case Id	Test Case	N/A	OK	NOK	Comment
1	Register with no authentication On OXO and on the analog gateway, configure GWFAXset-1 and GWFAXset-2 registration with no authentication. Check registration.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	Fax sending with no authentication Send a fax from an FAXset-1 to GWFAXset-1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3	Fax receiving with no authentication Send a fax from GWFAXset-1 to FAXset-1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4	Register with authentication On OXO and on the analog gateway, configure GWFAXset-1 and GWFAXset-2 registration with digest authentication mode. Check registration.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5	Fax receiving with authentication Send a fax from an FAXset-1 to GWFAXset-1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6	Receiving fax with authentication Send a fax from GWFAXset-1 to FAXset-1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7	Register time out On the analog gateway, configure 120 seconds as registration period. Wait for a registration timeout and check that the gateway registers again	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

8.1.1.3 Basic communication between Gateway fax and External fax

Description: Check the behavior of a basic fax transmission

Test Case Id	Test Case	N/A	OK	NOK	Comment
1	Fax sending to an external fax Send a fax from an External fax to GWFAXset-1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	Fax receiving to an external fax Send a fax from GWFAXset-1 to an External fax	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

8.1.1.4 Loop-back communication from GATEWAY Fax to GATEWAY Fax through OmniPCX Office.

Description: Check the behavior of loop-back fax transmission

Test Case Id	Test Case	N/A	OK	NOK	Comment
1	Send a fax between two gateway fax devices Send a fax from GWFAXset-1 to GWFAXset-2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	Send a fax between two gateway fax devices via PSTN T0 Send a fax from GWFAXset-1 to GWFAXset-2 via PSTN with T0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

8.1.1.5 Multiple pages exchanged between GATEWAY Fax and OmniPCX Office.

Description: Check the behavior of multiple page fax transmission

Test Case Id	Test Case	N/A	OK	NOK	Comment
1	Fax receiving with 5 pages Send a fax (5pages) from FAXset-1 to GWFAXset-1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	Fax sending with 5 pages Send a fax (5 pages) from GWFAXset-1 to FAXset-1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3	Fax receiving with 5 pages from an external fax Send a fax (5pages) from an external fax device to GWFAXset-1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4	Fax sending with 5 pages to an external fax Send a fax (5pages) from GWFAXset-1 to an external fax device	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5	Fax sending with 5 pages to an between two gateway fax devices Send a fax (5 pages) from GWFAXset-1 to GWFAXset-2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6	Fax sending with 5 pages to an between two gateway fax devices via PSTN Send a fax (5 pages) from GWFAXset-1 to GWFAXset-2 via PSTN with T0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

8.1.2 Surveillance/Recovery

8.1.2.1 Test objectives

These tests shall verify that the basic communication between faxes can be made when the network or equipments are stressed.

8.1.2.2 Perturbations

Description: Check the solution behaviors when network is perturb

Test Case Id	Test Case	N/A	OK	NOK	Comment
1	Fax receiving stop after the first page Send a fax from FAXset-1 to GWFAXset-1. Stop the transmission after sending the first page. Check the fax receiving is correctly stopped.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	Fax sending stop after the first page Send a fax from GWFAXset-1 to FAXset-1. Stop the transmission after sending the first page. Check the fax sending is correctly stopped.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3	Fax receiving when busy Send one fax from FAXset-1 to GWFAXset-1 Send one fax from FAXset-2 to GWFAXset-1 Check the FAXset-2 receives a busy tone.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4	Fax sending when no answer Send one fax from GWFAXset-1 to FAXset-1. Verify that the behavior is correct when there is no answer	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

8.1.2.3 OmniPCX Office system phones call GATEWAY Fax

Description: Check the behavior when a phone calls the GATEWAY Fax

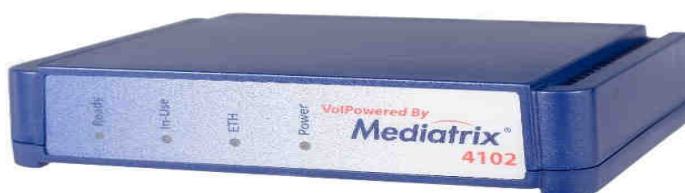
Test Case Id	Test Case	N/A	OK	NOK	Comment
1	Fax receiving stop after the first page Make a call from the Ipset-1 to the GWFAXset-1, verify that the call is released after a time out Verify that no issues are generated	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

9 Appendix A: AAPP member's Application Description

Mediatrix 41xx

The Mediatrix Series Analog VoIP Gateways are cost-effective, best-of-breed technology products. These stand-alone analog VoIP Gateways provide superior voice technology for connecting legacy telephones, fax machines and PBX systems with IP-based telephony networks, as well as for integration with new IP-based PBX systems. These products are designed and tested to be fully interoperable with leading Soft switches, SIP servers and H.323

Mediatrix Gateway 4102



Mediatrix Gateway 4116



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

Here the configuration of Mediatrix 4102 & 4116 is provided in both GUI and INI formats

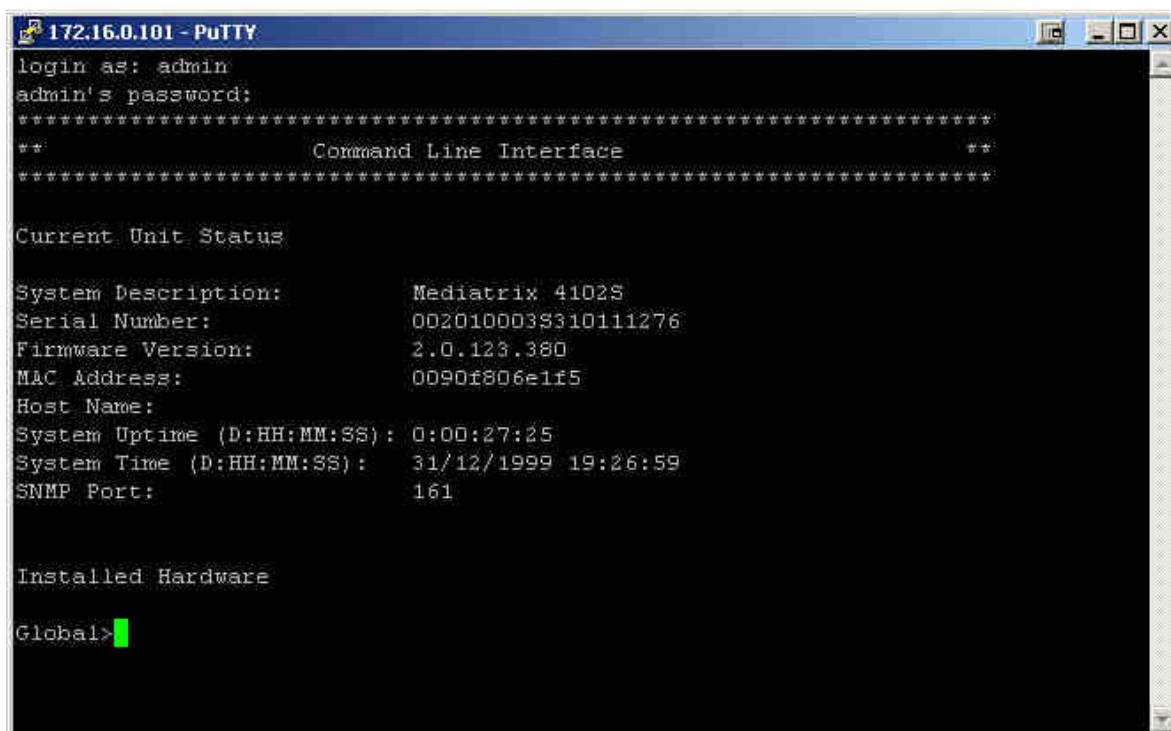
Section 1: Configurations done at Mediatrix 4102 & 4116 GUI based

Notes:

Apart from those parameters that are highlighted/shown here, all other parameters remain at default values.

Both 4102 and 4116 has the same GUI interface apart from the User authentication page as the number of user that can be connected and registered in 4116 is more.

1. Accessing the Mediatrix 4102 CLI Interface (via SSH)



```
172.16.0.101 - PuTTY
login as: admin
admin's password:
*****
**                  Command Line Interface                  **
*****

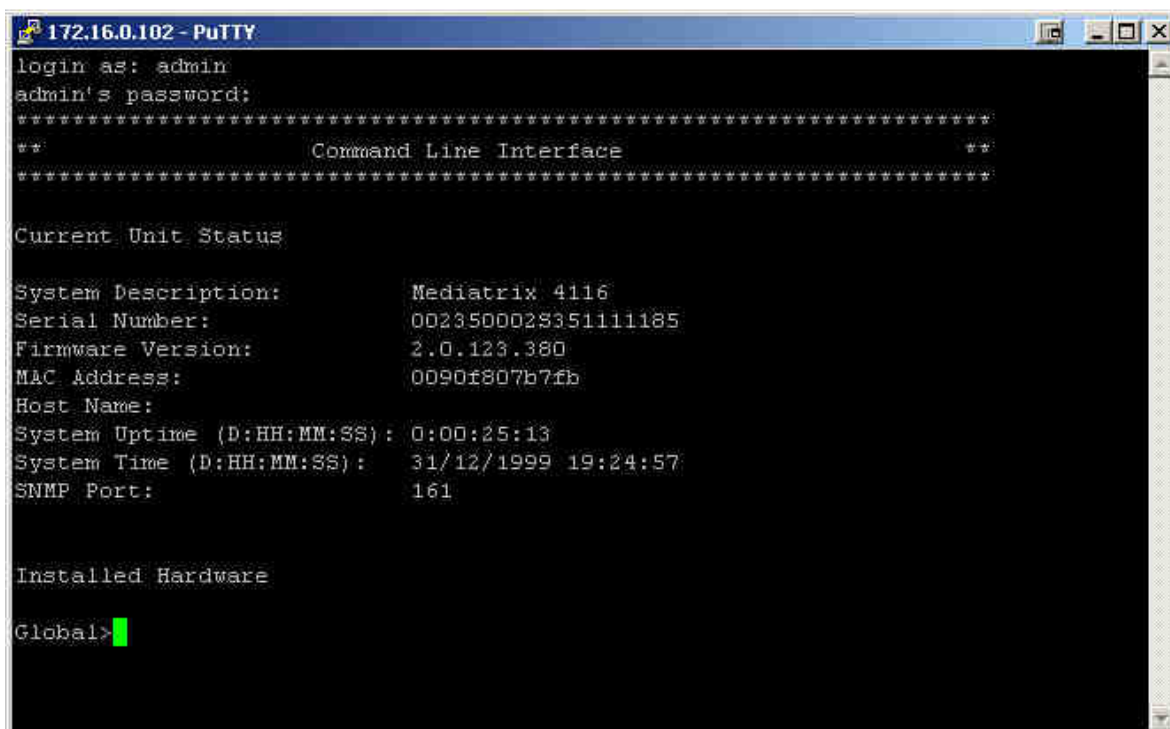
Current Unit Status

System Description:      Mediatrix 4102S
Serial Number:          002010003S310111276
Firmware Version:       2.0.123.380
MAC Address:            0090f806e1f5
Host Name:
System Uptime (D:HH:MM:SS): 0:00:27:25
System Time (D:HH:MM:SS):  31/12/1999 19:26:59
SNMP Port:              161

Installed Hardware

Global>
```

2. Accessing the Mediatrix 4116 CLI Interface (via SSH)



```

172.16.0.102 - PuTTY
login as: admin
admin's password:
*****
**                  Command Line Interface                  **
*****

Current Unit Status

System Description:      Mediatrix 4116
Serial Number:          002350002S351111185
Firmware Version:       2.0.123.380
MAC Address:            0090f807b7fb
Host Name:
System Uptime (D:HH:MM:SS): 0:00:25:13
System Time (D:HH:MM:SS):  31/12/1999 19:24:57
SNMP Port:              161

Installed Hardware

Global>
  
```

3. Set Variables through the CLI in the Mediatrix 4102

```

Global>
Global>set SipEp.InteropSdpDetectPeerDirectionAttributesupportEnable = "Disable"

Global>set SipEp.InteropOnholdSdpStreamDirection = "Sendonly"

Global>set SipEp.InteropOnholdAnswerSdpStreamDirection = "Inactive"

Global>set SipEp.InteropEscapePoundInSipUriUsername = "Enable"

Global>set SipEp.InteropSipContactDisplayNamePresence = "Disable"
  
```

4. Set variables through the CLI in the Mediatrix 4116

```

Global>set SipEp.InteropSdpDetectPeerDirectionAttributeSupportEnable = "Disable"

Global>set SipEp.InteropOnHoldSdpStreamDirection = "Sendonly"

Global>set SipEp.InteropOnHoldAnswerSdpStreamDirection = "Inactive"

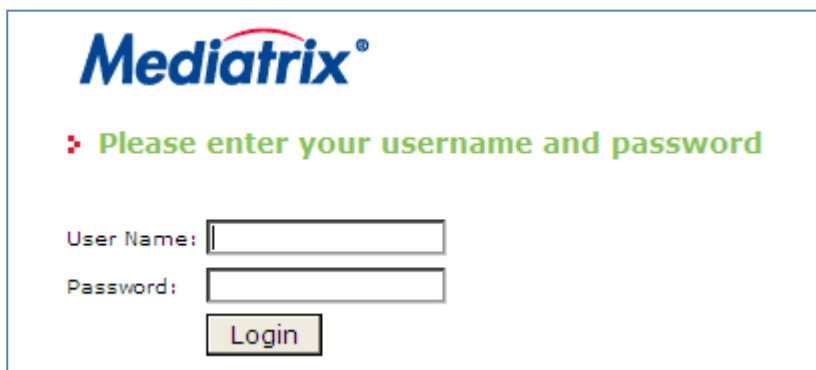
Global>set SipEp.InteropEscapePoundInSipUriUsername = "Enable"

Global>set Pots.FxsDefaultVisualmessageWaitingIndicatorType = "FskAndVoltage"

Global>set SipEp.InteropSipContactDisplayNamePresence = "Disable"
  
```

The parameter “SIPep.InteropSipContactDisplayNamePresence” should be disabled in order to get a proper display in the Iptouch phones. If not disabled the extension numbers of the mediatrix SIP extension cannot be seen.

5. Accessing web Interface of Mediatrix 4102 & 4116



Mediatrix®

❖ Please enter your username and password

User Name:

Password:

Login

6. Home Page of Mediatrix 4102

❖ Information

Current Status	
System Description:	Mediatrix 4102S
Firmware:	Dgw 2.0.123.380
Profile:	4102-MX-D2000-104
MAC Address:	0090f806a188
Serial Number:	002010002S343100005
System Uptime (D:HH:MM:SS):	4:08:14:31
System Time (DD/MM/YYYY HH:MM:SS):	05/01/2000 03:14:04

Home Page of Mediatrix 4116

Current Status	
System Description:	Mediatrix 4116
Firmware:	Dgw 2.0.123.380
Profile:	4108-16-24-MX-D2000-104
MAC Address:	0090f807f5ad
Serial Number:	002350002S333121338
System Uptime (D:HH:MM:SS):	4:07:13:47
System Time (DD/MM/YYYY HH:MM:SS):	05/01/2000 02:13:32

7. Network page of Mediatrix 4102 & 4116

Status

Interfaces Status						
Name	Link	IP Address	Default Router	VLAN Override	Status	
Uplink	lan	10.130.158.57/24	10.130.158.100	Disable	Active	

Host Status

General Configuration:

IPv4 Automatic Configuration Interface:

Uplink

IPv6 Automatic Configuration Interface:

UplinkV6

Host Name Configuration

Host Name:

Domain Name:

(none)

Default Gateway Configuration

IPv4 Default Gateway:

10.130.158.100

IPv6 Default Gateway:

0.0.0.0

DNS Configuration
































SNTP Configuration

SNTP Host:

Advanced IP Routes					
Priority	Source Address	Source Link	Forward To Network	Status	
No custom route currently applied in the routing table					

IPv4 Routes				
Link	Destination	Gateway	Protocol	
lan	10.130.158.0/24	0.0.0.0	Kernel	
lan	0.0.0.0/0	10.130.158.100	Static	

8. User Services of Mediatrix 4102 & 4116

User Service	Status	Startup Type	Action	Comment
Basic Network Interface (BNI):	Started	Auto	  	
Call Routing (CROUT):	Started	Auto	  	
Call Detail Record (CDR):	Stopped	Manual	  	
Command Line Interface (CLI):	Started	Auto	  	
DHCP Server (DHCP):	Stopped	Manual	  	
Endpoint Administration (EPADM):	Started	Auto	  	
Endpoint Services (EPSERV):	Started	Auto	  	
IP Routing (IPROUTING):	Started	Auto	  	
Local Firewall (LFW):	Started	Auto	  	
Link Layer Discovery Protocol (LLDP):	Stopped	Manual	  	
Media IP Transport (MIPT):	Started	Auto	  	
Music On Hold (MOH):	Started	Auto	  	
Network Address Translation (NAT):	Stopped	Manual	  	
Network Firewall (NFW):	Stopped	Manual	  	
Notifications and Logging Manager (NLM):	Started	Auto	  	
Network Traffic Control (NTC):	Stopped	Manual	  	
Plain Old Telephony System (POTS):	Started	Auto	  	
SIP Endpoint (SIPEP):	Started	Auto	  	
Simple Network Management Protocol (SNMP):	Started	Auto	  	
Telephony Interface (TELIF):	Started	Auto	  	
Web (WEB):	Started	Auto	  	

Registrations

Endpoints Registration Status				
Endpoint	User Name	Gateway Name	Registrar	Status
Port01	129	default	10.130.158.48:5059	Registered
Port02	130	default	10.130.158.48:5059	Registered
Port03	131	default	10.130.158.48:5059	Registered

Endpoints Messaging Subscription Status				
Endpoint	User Name	Gateway Name	Messaging Host	MWI Status
Port01	129	default	10.130.158.48:5059	Subscribed
Port02	130	default	10.130.158.48:5059	Subscribed
Port03	131	default	10.130.158.48:5059	Subscribed

Unit Registration Status			
User Name	Gateway Name	Registrar	Status

Endpoints Registration					
Endpoint	User Name	Friendly Name	Register	Messaging	Gateway Name
Port01	<input type="text" value="129"/>	<input type="text" value="129"/>	<input type="button" value="Enable"/> <input type="button" value="▼"/>	<input type="button" value="Enable"/> <input type="button" value="▼"/>	<input type="button" value="all"/> <input type="button" value="▼"/>
Port02	<input type="text" value="130"/>	<input type="text" value="130"/>	<input type="button" value="Enable"/> <input type="button" value="▼"/>	<input type="button" value="Enable"/> <input type="button" value="▼"/>	<input type="button" value="all"/> <input type="button" value="▼"/>
Port03	<input type="text" value="131"/>	<input type="text" value="131"/>	<input type="button" value="Enable"/> <input type="button" value="▼"/>	<input type="button" value="Enable"/> <input type="button" value="▼"/>	<input type="button" value="all"/> <input type="button" value="▼"/>
Port04	<input type="text"/>	<input type="text"/>	<input type="button" value="Disable"/> <input type="button" value="▼"/>	<input type="button" value="Disable"/> <input type="button" value="▼"/>	<input type="button" value="all"/> <input type="button" value="▼"/>
Port05	<input type="text"/>	<input type="text"/>	<input type="button" value="Disable"/> <input type="button" value="▼"/>	<input type="button" value="Disable"/> <input type="button" value="▼"/>	<input type="button" value="all"/> <input type="button" value="▼"/>

11. Codecs Selection in Mediatrix 4102 & 4116 web page

Codecs

Select Endpoint:

Codec	Voice	Data	Advanced
G.711 a-Law	<input type="button" value="Enable"/> <input type="button" value="▼"/>	<input type="button" value="Enable"/> <input type="button" value="▼"/>	<input type="button" value="Edit"/>
G.711 u-Law	<input type="button" value="Enable"/> <input type="button" value="▼"/>	<input type="button" value="Enable"/> <input type="button" value="▼"/>	<input type="button" value="Edit"/>
G.726 16Kbps	<input type="button" value="Enable"/> <input type="button" value="▼"/>		<input type="button" value="Edit"/>
G.726 24Kbps	<input type="button" value="Enable"/> <input type="button" value="▼"/>		<input type="button" value="Edit"/>
G.726 32Kbps	<input type="button" value="Enable"/> <input type="button" value="▼"/>	<input type="button" value="Enable"/> <input type="button" value="▼"/>	<input type="button" value="Edit"/>
G.726 40Kbps	<input type="button" value="Enable"/> <input type="button" value="▼"/>	<input type="button" value="Enable"/> <input type="button" value="▼"/>	<input type="button" value="Edit"/>
G.729	<input type="button" value="Enable"/> <input type="button" value="▼"/>		<input type="button" value="Edit"/>
T.38		<input type="button" value="Disable"/> <input type="button" value="▼"/>	<input type="button" value="Edit"/>
Clear Mode	<input type="button" value="Disable"/> <input type="button" value="▼"/>	<input type="button" value="Disable"/> <input type="button" value="▼"/>	<input type="button" value="Edit"/>
Clear Channel	<input type="button" value="Disable"/> <input type="button" value="▼"/>	<input type="button" value="Disable"/> <input type="button" value="▼"/>	<input type="button" value="Edit"/>
X CCD	<input type="button" value="Disable"/> <input type="button" value="▼"/>	<input type="button" value="Disable"/> <input type="button" value="▼"/>	<input type="button" value="Edit"/>

Generic Voice Activity Detection (VAD)	
Enable (G.711 and G.726):	<input type="button" value="Conservative"/> <input type="button" value="▼"/>

Su

Codecs

Select Endpoint:

Jitter Buffer	
Level:	<input type="text" value="Normal"/>
Voice Call	
Minimum:	<input type="text" value="30"/>
Maximum:	<input type="text" value="125"/>
Data Call	
Playout Type:	<input type="text" value="Fixed"/>
Minimum:	<input type="text" value="0"/>
Nominal:	<input type="text" value="67"/>
Maximum:	<input type="text" value="135"/>

DTMF Transport	
Transport Method:	<input type="text" value="Out-of-Band using RTP"/>
SIP Transport Method:	<input type="text" value="Draft Choudhuri SIP Info Digit 00"/>
Payload Type:	<input type="text" value="101"/>

Machine Detection	
CNG Tone Detection:	<input type="text" value="Enable"/>
CED Tone Detection:	<input type="text" value="Enable"/>
V.21 Modulation Detection:	<input type="text" value="Enable"/>
Behavior On CED Tone Detection:	<input type="text" value="Passthrough"/>

Base Ports	
RTP:	<input type="text" value="5004"/>
SRTP:	<input type="text" value="5004"/>
T.38:	<input type="text" value="6004"/>

Submit

12. Country Settings in Mediatix 4102 & 4116 web page

Misc

Country	
Country Selection:	<input type="text" value="UK1"/>

Submit

13. DTMF Maps in Mediatrix 4102 & 4116 web page

DTMF Maps

DTMF Map: Allowed

General Configuration								
First DTMF Timeout	Inter DTMF Timeout	Completion Timeout	Digit Detection (FXS/FXO)					
20000	3000	60000	When Pressed	Edit Endpoints				

Allowed DTMF Map								
Index	Enable	Apply To	Endpoints	Suggestions	DTMF Map	Transformation	Target	Emergency
1	Enable	Unit		--- Suggestion ---	x.#	x{#}		Disable
2	Enable	Unit		--- Suggestion ---	*xx	x		Disable
3	Enable	Unit		--- Suggestion ---	x.T	x		Disable
4	Enable	Unit		--- Suggestion ---	x.T	x		Disable
5	Enable	Unit		--- Suggestion ---	x.T	x		Disable
6	Enable	Unit		--- Suggestion ---	x.T	x		Disable
7	Enable	Unit		--- Suggestion ---	x.T	x		Disable
8	Enable	Unit		--- Suggestion ---	x.T	x		Disable
9	Enable	Unit		--- Suggestion ---	x.T	x		Disable
10	Enable	Unit		--- Suggestion ---	x.T	x		Disable

[Submit](#)

14. Call Forward options in Mediatrix 4102 & 4116

⋮

Call Transfer	
Blind Transfer Activation:	Enable
Attended Transfer Activation:	Enable
Call Waiting	
Call Waiting Activation:	Enable
Cancel DTMF Map:	
Conference	
Conference Activation:	Enable
Delayed Hotline	
Delayed Hotline Activation:	Disable
Delayed Hotline Condition:	FirstDtmfTimeout
Delayed Hotline Target:	
Direct IP Address Call	
Direct IP Address Call Activation:	Disable
Hold	
Hold Activation:	Enable
Second Call	
Second Call Activation:	Enable

Firmware Upgrade

Firmware upgrade procedure

Management >> Firmware Upgrade

Firmware Upgrade

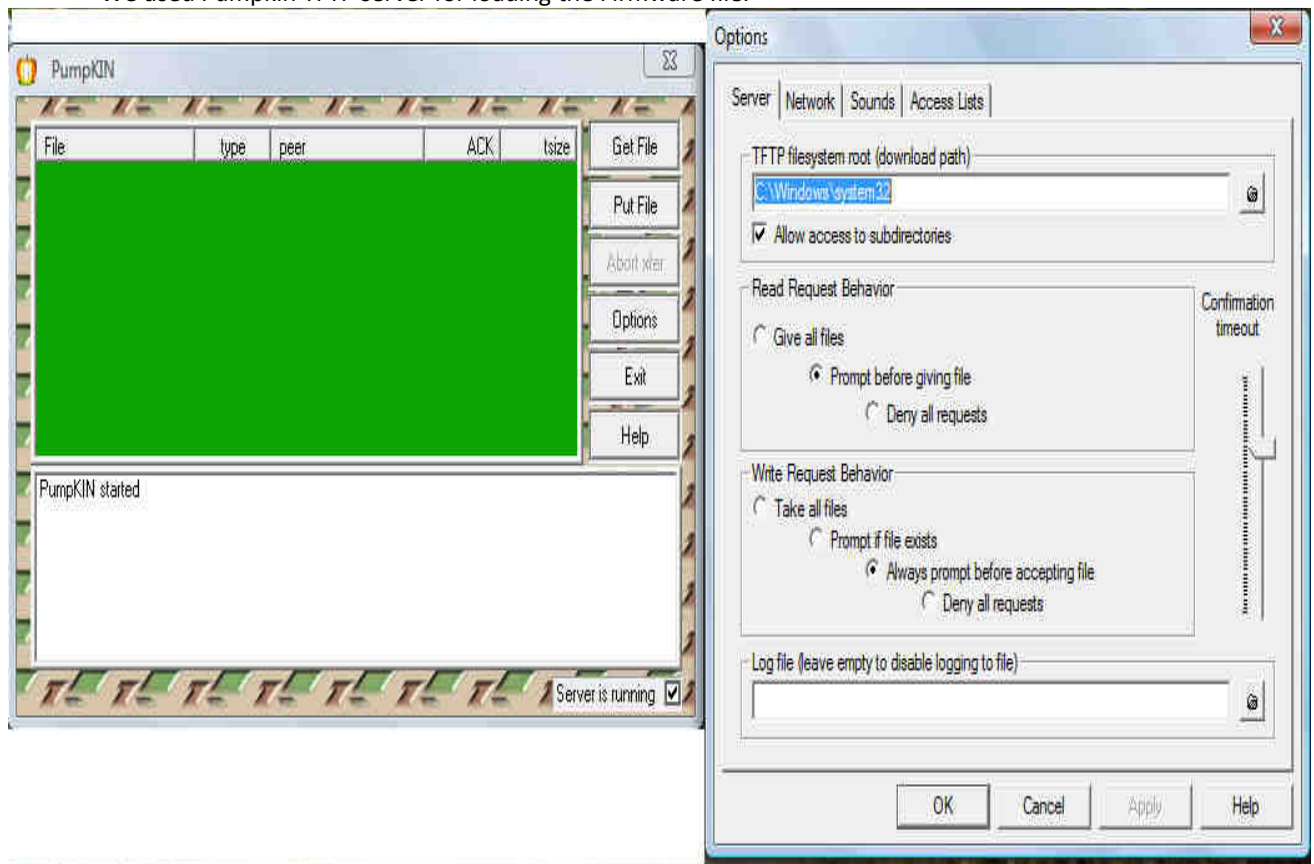
Status	
Firmware Pack Updater Status:	Idle
Last Installation Result:	Success
Last Successful Installation:	2000-01-27 00:04:26

Firmware Packs Installed				
Name	Version	Profile	Bank	
Dgw	2.0.123.380	4108-16-24-MX-D2000-104	Main - In Use	Factory Reset
Dgw	2.0.23.338	4108-16-24-MX-D2000-104	Recovery	Rollback

Firmware Packs Configuration	
Language:	English
Version:	
Automatic Restart Enable:	Disable
Automatic Restart Grace Delay (minutes):	0
Firmware Pack 1:	Dgw
Firmware Pack 2:	
Firmware Pack 3:	
Firmware Pack 4:	
Firmware Pack 5:	

Transfer Configuration	
Transfer Protocol:	TFTP
Host Name:	10.130.159.9
Location:	
User Name:	admin
Password:	*****

- Select the transfer protocol as TFTP as in the above picture
- Provide the IP address of the TFTP server in which the Firmware file is loaded.
- We used Pumpkin TFTP server for loading the Firmware file.



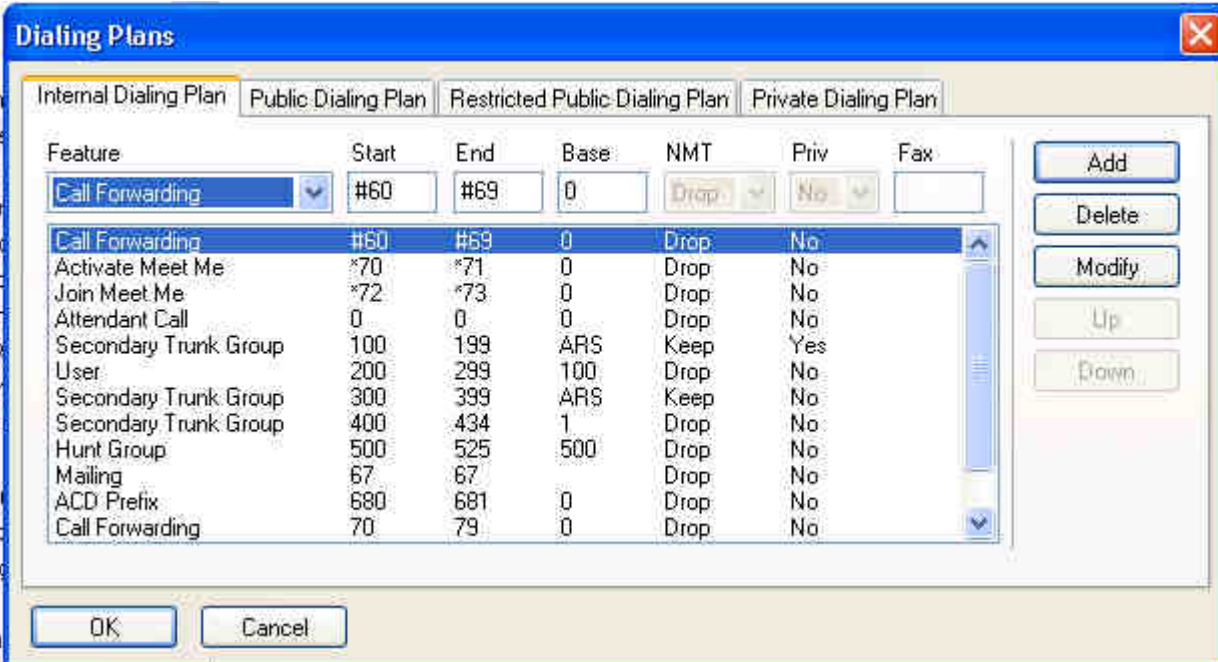
We need to copy the Firmware file to the TFTP server download path and start the server. After that we need to click on submit & install in the GUI page of 4102 or 4116.

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

OXO Specific Configuration

These configurations are not specific to the gateway device. The settings given below are common OXO configuration (Trunk configuration is required for network calls)

Dialing Plan



Feature	Start	End	Base	NMT	Priv	Fax
Call Forwarding	#60	#69	0	Drop	No	
Call Forwarding	#60	#69	0	Drop	No	
Activate Meet Me	*70	*71	0	Drop	No	
Join Meet Me	*72	*73	0	Drop	No	
Attendant Call	0	0	0	Drop	No	
Secondary Trunk Group	100	199	ARS	Keep	Yes	
User	200	299	100	Drop	No	
Secondary Trunk Group	300	399	ARS	Keep	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	
Call Forwarding	70	79	0	Drop	No	

Trunk Configuration:

VoIP: Parameters

General Gateway DSP DHCP Fax SIP SIP Phone

Number of VoIP-Trunk Channels: 2

Number of VoIP-Subscriber Channels: 14

IP Quality of Service: 00000000 DIFFSERV_PHB_BE

VoIP Protocol: SIP

☒ RTP Direct

☒ Codec pass-through for SIP trunks

☒ Codec pass-through for SIP phones

OK Cancel

Trunk Groups: Details

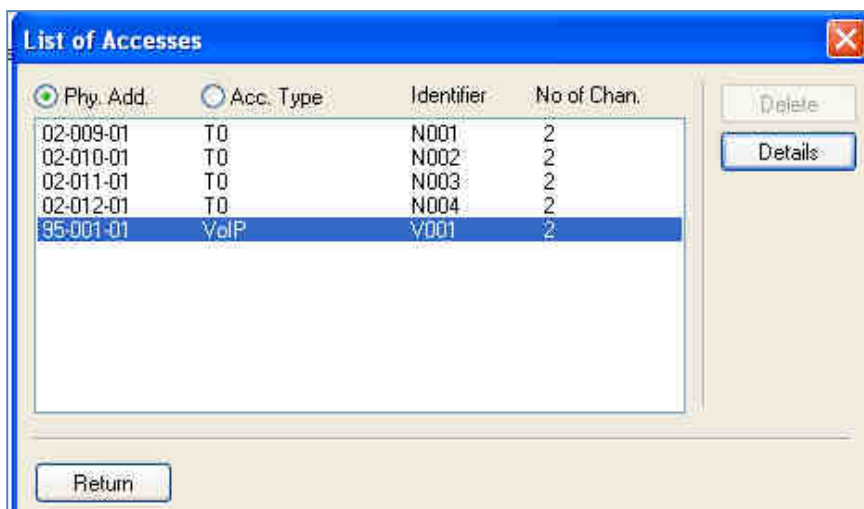
Index	No.	Type	Name
2	400	Serial	VOIP

Phy. Add.	Acc. Type	Identifier	No of Chan.
95-001-01	VoIP	V001	2

Add
Delete
Modify
Up
Down
Link-COS

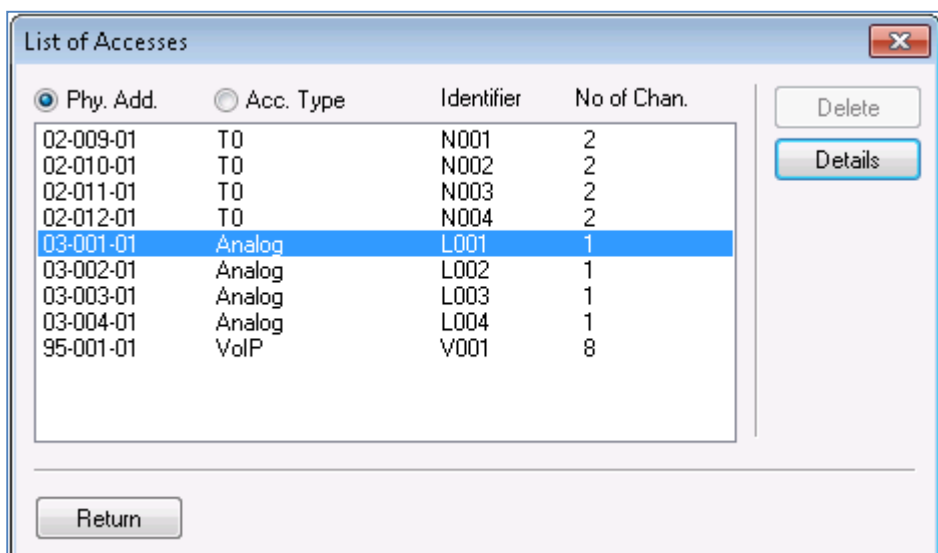
OK Cancel

Trunk Access:



<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
95-001-01	VoIP	V001	2

Buttons: Delete, Details, Return



<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	Analog	L001	1
03-002-01	Analog	L002	1
03-003-01	Analog	L003	1
03-004-01	Analog	L004	1
95-001-01	VoIP	V001	8

Buttons: Delete, Details, Return

Network Call Configuration:

Automatic Routing: Prefixes											
Activation	Network	Prefix	Ranges	Substitute	TrGpList	Called(15VPN/H450)	Use...	Destination	IP T...	IP Address	Hostname
Yes	priv	1	00-99	1	1	hom	OX02	SIP Gateway	Static	10.130.158.88	

Fax calls

For Fax calls we need to configure the sip user as Basic SIP phone.

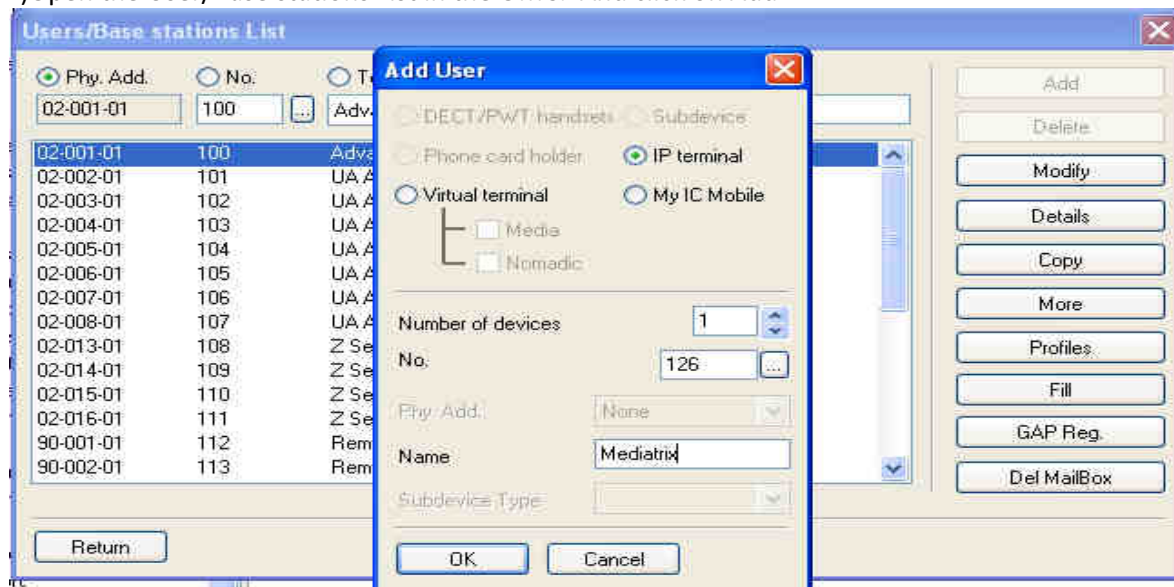
Normal calls

For normal calls we need to configure the sip users as Open SIP phone.

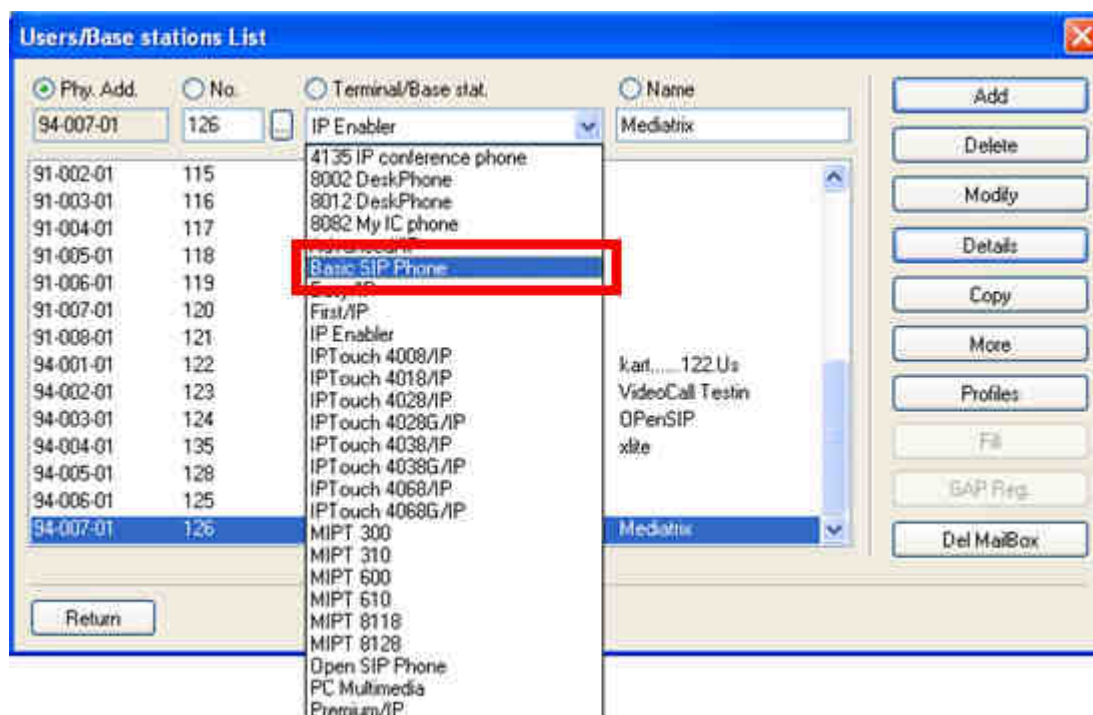
SIP Gateway Specific Configuration

Below configuration is required for registering the analog devices behind the gateway with the OXO.

1) Open the User/Base stations List in the OMC. And click on Add



2) After creation of the user modify the (extension number) IP enabler to Basic sip phone from for the fax calls.



User

Phy. Add: 94-007-01

Name: Mediatrix

Ext. Numbers

Int. No.: 126 [More]

Secondary sets: []

Terminal

Original Type: Basic SIP Phone

Temporary Type: []

Model: []

Language: English (USA) [v]

Software Version: []

BootLoader Version: []

Data Version: []

Hardware Number: []

Serial Number: []

Localization Version: []

Customization Version: []

Virtual terminal: ☐ Media []

Entity: Entity1 [v]

OK Cancel

Key: V-24

Features: Password

Counting: ISDN

Perf. SPD: Services

Spd Dial: Misc

Rest/Baring: Diversion

Dyn. Flout: Set Direct

DECT/PhT: Hotel

IP/SIP: Appear

Ext. Serv: MailBox

Mobility: Reset

Physical out-of-service
Set Not Connected

☐ Out-of-Service (logically)

3) For other tests configure the user (extension number) to Open SIP phone as below.

Users/Base stations List

Phy. Add. No. Terminal/Base stat. Name

Phy. Add.	No.	Terminal/Base stat.	Name
94-008-01	127	IP Enabler	Mediatrix2
91-003-01	116	4135 IP conference phone	
91-004-01	117	8002 DeskPhone	
91-005-01	118	8012 DeskPhone	
91-006-01	119	8082 My IC phone	
91-007-01	120	Advanced/IP	
91-008-01	121	Basic SIP Phone	
94-001-01	122	Easy/IP	
94-002-01	123	First/IP	
94-003-01	124	IP Enabler	
94-004-01	135	IPTouch 4008/IP	
94-005-01	128	IPTouch 4018/IP	
94-006-01	125	IPTouch 4028/IP	
94-007-01	126	IPTouch 4028G/IP	
94-008-01	127	IPTouch 4038/IP	
		IPTouch 4038G/IP	
		IPTouch 4068/IP	
		IPTouch 4068G/IP	
		MIPT 300	
		MIPT 310	
		MIPT 600	
		MIPT 610	
		MIPT 8118	
		MIPT 8128	
		Open SIP Phone	
		PL Multimedia	
		Premium/IP	

Return

Add Delete Modify Details Copy More Profiles Fill GAP Reg Del MailBox

Phy. Add.

94-008-01

Name

Mediatix2

Dir. Numbers

Int. No.

127

More

Secondary sets

Terminal

Original Type

Open SIP Phone

Temporary Tone

MAC Address (hex)

00 00 00 01 27 a4

IP Address

Voice Coding/Decoding

G.711

☒ Echo Cancellation

☐ Voice Active Detection

OK

Cancel

Keys

V.24

Features

Password

Counting

ISDN

Perf. SPD

Services

Spd Dial

Misc.

Restr/Barring

Diversion

Dyn. Rout.

Set Divers

DECT/PwT

Hotel

IP/SIP

Appoint.

Cent. Serv

Mailbox

Mobility

Reset

Physical out-of-service

Set Not Connected

☐ Out-of-Service (logically)

OK

Cancel

12 Appendix D: AAPP member's Escalation Process

12.1.1 Technical Support Process

The following steps must be followed prior to escalating any incident to Mediatrix

- Mediatrix Business Partner and/or customers shall subscribe to a Service Level Agreement (SLA) with Mediatrix in order to benefit from escalation privilege.
- Business Partner will provide 1st and 2nd Level support to their customer base. When a problem is reported by an end user, Business Partner will take steps to isolate the source of the problem.
- Once Business Partner has determined that the problem is related to a Mediatrix unit, they will report the incident through Mediatrix Support Portal (Web interface to Mediatrix ticket management system).
- Mediatrix will ensure that all required information is obtained from Business Partner and will proceed with the analysis.
- Mediatrix will work with Business Partner directly to resolve the issue.
- Escalation process shall be used to promote incident priority if resolution time does not meet agreed or expected Service Level Agreement.
- When escalating by phone incident number must be mentioned.
- In order to trigger the escalation by email the subject field must begin with the word "Escalation (Incident P14-" followed by Mediatrix incident number.

12.1.2 Escalation Table

Step	Action	Prime	Contact
1	Report Incident in Mediatrix Support Portal	Primary Support Engineer	www.mediatrix.com/support_MSP.php
2	Initial Escalation Request	Primary Support Engineer	Tel: +1-819 829-8749 ext: 5 tac@mediatrix.com
3	R&D Escalation	Technical Support Leader	Sylvie Dubois (sdubois@mediatrix.com)
4	Management Level Escalation	Director Support & Services	Stephane Blais (sblais@mediatrix.com)
5	Business & Product Level Escalation	Product Line Manager	MLA_PLM_Mtx@mediatrix.com

13 Appendix E: AAPP program

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/>

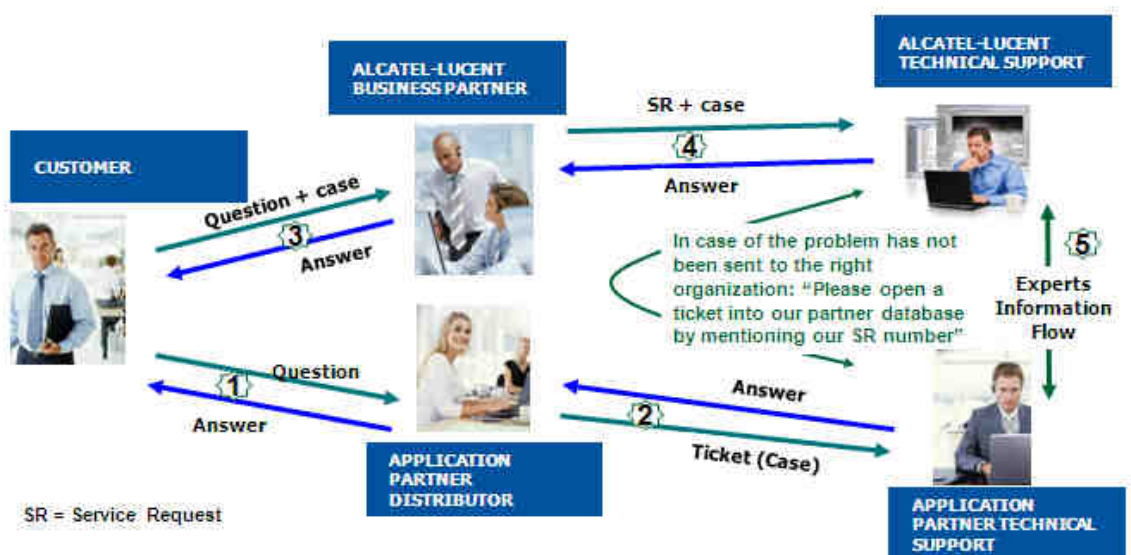
14 Appendix F: AAPP Escalation process

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 **Erreur ! Source du renvoi introuvable.** "Validity of an Interworking Report")
2. The 3rd 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 3rd 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
- 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

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