



Detailed CTDP Test Plan and Report for Ascom IP-DECT SIP Handset

Test Result	PASS
Test Date	October 2012
Product Name	IP-DECT SIP Handset
Product Version # (must be generally available)	R5.1
CallManager Version X.X(x)	8.6.1
Product Type(Billing, Voice Recording, phone apps etc):	SIP Voice Endpoint
API/Protocol(s) Used	SIP
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Revision History

Revision	Author	Date	Comment
0.1	Gerry Pearson	8/15/2006	Initial draft
0.2	Abelardo Guajardo	9/7/2006	DTMF modifications
0.3	Srikanth Palla	04/24/2008	Updated with test results
0.4	Abelardo Guajardo	01/19/2012	Added three test cases concerning consultative transfer and TLS/SRTP
0.5	Eder Moncada C.	09/21/2012	16 test cases added based on Ascom requirements.

Comment [N1]: Please add a new row with your name & list "Updated Test Results". The final document should not have change bars.

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1 Introduction

This document is the detailed Interoperability Verification Test Plan and Report for **Cisco Unified Communications Manager 8.6** and **IP-DECT Base Station, Ascom R5.1 DECT**. SIP Verification Testing for 3rd party endpoints and Cisco's Unified Communications Manager is performed on-site at tekVizion Labs. SIP Verification Testing tests a single Cisco's Unified Communications Manager version to another single endpoint vendor's specific product version. Verification testing uses tekVizion Labs' SIP Verification Test Plan.

2 Product Overview

Ascom IP-DECT combines the proven DECT standard with VoIP, allowing you to take advantage of both packet data and high-quality voice connections – on the same network. You can look forward to superb quality of service and excellent messaging capabilities in a secure radio environment. And because there's seamless handover, you won't have to worry about interruptions and 'lost' information, which inevitably result in confusion, misunderstanding and irritation.

IP-DECT offers interference free, dedicated and protected frequency, making it exceedingly difficult to hack into. Which means you can look forward to minding your own business – safe in the knowledge that mission sensitive information stays where it belongs.

The Ascom IP-DECT System provides you with a wide range of voice, messaging and personal alarm handsets purpose built and ideal for office, healthcare and industry segments.

3 Executive Summary

The device performed as expected. No critical failures were noted, and **SIP Verification is therefore achieved** as a result of this testing activity.

The following summarizes tekVizion's findings:

Test Failures

No test failures were noted.

Features not supported

- Multiple Lines per Phone
This feature is not supported by the device.
- Call Forking (Bridged Line Appearance)
Communications Manager does not support this feature for 3rd-party devices.

- Authentication on origination
The device does not support authentication on origination.

4 Items Tested/Results Summary

The results of this summary are taken from the Test Cases section. The purpose of this is for CDTP Partner Program Team to review without the need of going into the full detail of the report. Only those test cases that did not pass are listed in this section. The full test case listing, including all passed test cases, can be found in Section 6, "Test Cases".

Table 1 – Test Results Legend

Result	Description
Pass	The test case passed with no exceptions
Fail	The test case failed – details of the failure are noted in the Comments column
N/A	The test case is not applicable to the product under test. Justification must be provided in the Comments column.
N/S	Not supported. While the feature tested by this test case generally would be considered a standard feature for this product category, this specific product (or this specific release) does not support the feature.
N/T	Not tested. The feature is supported by the product under test, but external factors (lab configuration, e.g.) prevented execution of the test. Justification must be provided in the Comments column.
Blocked	Other test case failures prevented the execution of this test. Reference to the corresponding failed test case must be provided in the Comments column.

4.1 Installation, Functional, Negative, and Informational Test Summary

Test Case	Description	Pass/Fail	Comments

4.2 Performance Test Summary

Test Case	Description	Pass/Fail	Comments

4.3 Items Tested

The Following features are testing in this test plan.

Unified Communications Manager Feature	RFC Reference	To Be Tested?
Call Hold and Resume	3261, 3264, 2327, 1889	Yes
Transfer Unattended	3261, 3264, 2327, 1889, 3515, 3420, 3265, 3892	Yes
Transfer Attended	3261, 3264, 2327, 1889, 3515, 3420, 3265, 3892, 3891	Yes
Call Forwarding All	3261, 3264, 2327, 1889	Yes
Call Forwarding No Answer	3261, 3264, 2327, 1889	Yes
Call Forwarding Busy	3261, 3264, 2327, 1889	Yes
Multiple Calls per Line	3261, 3264, 2327, 1889	No
Incoming Call Screening	3261, 3264, 2327, 1889, 3725	Yes
Outgoing Call Screening	3261, 3264, 2327, 1889, 3725	Yes
Calling and Connected Line ID	3261, 3264, 2327, 1889, RemotePartyID	Yes
Calling and Connected Name ID	3261, 3264, 2327, 1889, RemotePartyID	Yes
Message Waiting Indication	3261, 3264, 2327, 1889, 3842	Yes
Three-Way Conference Calling	3261, 3264, 2327, 1889	Yes
Call Forking	3261, 3264, 2327, 1889	No
Speed Dialing	3261, 3264, 2327, 1889	Yes
Multiple Lines per Phone	3261, 3264, 2327, 1889	NO

4.4 Items Not Tested

Features that are specific to the internals of the 3rd party product or any features not listed will not be tested.

- Call Forking

- Multi-line phone

- Authentication on origination

- Remote reset / restart

- SRST support

- No load testing on the phone was performed.

4.5 Assumptions

Interoperability of 3rd party products – Testing will cover only features in 3rd party products that result in events to and/or from the Cisco Unified Communications Manager.

5 Test Environment

5.1 Equipment Requirements

Table 1 identifies all equipment/versions used for in this IVT.

Table 1 – Equipment and Product Information

Product	Version	Type	Purpose	Units	Notes
Cisco Products					
Cisco Unified Communications Manager	8.6	MCS7835	Publisher and 2 Subscriber nodes	3	Lab Provided
Cisco 3845 (PSTN GW)			PSTN gateway	1	Lab Provided
Cisco SIP Phones		7965 9971	Endpoint	2	Lab Provided
Cisco SCCP Phones		7975	Endpoint	2	Lab Provided
Unity Voice Mail			Voice Mail Server	5 ports	Lab Provided
3rd Party Products					
Ascom IP-DECT Base Station		Base Station		1	Partner Provided
Ascom DECT Handset		DECT Handset	Device under test	3 handsets, 3 charging bases	Partner Provided
Test Tools					
Wireshark	1.4.9	Software	IP Packet Capture	1	Lab Provided
Compaq Presario V4000		Win XP-Pro Laptop	Packet captures, Communications Manager administrative access, reporting	1	Lab Provided

5.2 3rd Party Supporting Documentation and Urls

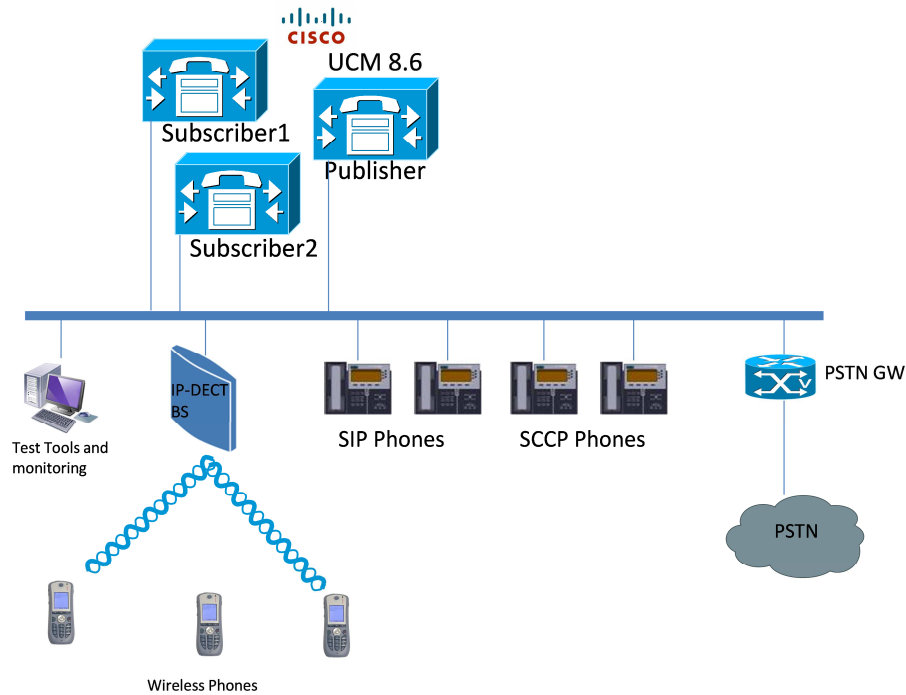
Table 3 – 3rd Party Supporting Documentation

Description	Related url
Website	http://www.ascom.com
Technical Documentation	http://www.ascomwireless.com/support.htm
User Guide	N/A
Administrator Guide	https://www.ascom-ws.com/AscomPartnerWeb/en/startpage/
IVT Questionnaire	Cisco Dashboard
Application Note	N/A

5.3 Test Environment Architecture

The CTDP test beds represented below include the following diagrams to support transit voice calls and subscriber support services. The CTDP test architecture attempts to mirror the CCM design guides functional requirements where possible.

Figure 2 – Test Environment



This test case uses Test Setup #1 configuration. The test uses the Call Manager CCM#1 and CCM#2) with DUT (IP-DECT) 1, (IPDECT) DUT 2, Phone 3 (Cisco 7960 phone), Phone 4 (Cisco 7960 phone) to exercise/test VoIP operations. DUT 1 should have Speakerphone enabled.

6 Test Cases

This section details the tests that will be performed during the testing period.

Refer to table 1 for the definitions of the annotations in the Pass/Fail column.

- IP-DECT – Device Under Test
- CSP – Cisco Skinny Phone
- CSIPP – Cisco SIP Phone

6.1 Installation and Configuration Tests

This phase includes making sure the 3rd Party application installed correctly and that it registered correctly with the Call Manager. These tests will also focus on clean installation, configuration and removal of any software components on the Call Manager server(s).

Test Case	Description	Expected Result	Pass/Fail	Comments
6.1.1	Configuration on the Call Manager of the required parameters to register and connect the devices DUT1 and DUT2.	CCM configured for devices	Pass	
6.1.2	DUT1 registers to CCM; dynamic IP address	Phone registers to CCM	Pass	
6.1.3	DUT2 registers to CCM; static IP address	Phone registers to CCM	Pass	
6.1.4	DUT1 registration challenged by CCM	Phone responds to the challenge	Pass	

6.2 Basic Call Scenarios

The intention of this section is to verify that basic calls can be properly handled between the SIP Phone under test and Cisco Unified Communications Manager. This test includes the validation of the different call stages from setup, alerting, connecting, and tear down, as well as different call scenarios between end points, IP server local or remote extensions and calls to and from PSTN, Cisco SIP and SCCP phones.

Test Case	Description	Expected Result	Pass/Fail	Comments
Station to Station Calls				
6.2.1	IP-DECT to IP-DECT, originator releases call	Two-way voice path, call released properly	Pass	
6.2.1b	IP-DECT to IP-DECT, originator releases call (KPML)	Two-way voice path, call released properly	Pass	
6.2.1c	IP-DECT to IP-DECT, originator releases call (TLS/SRTP)	Two-way voice path, call released properly	Pass	
6.2.2	IP-DECT to IP-DECT, originator abandons call	Terminator stops ringing, originator released properly	Pass	
6.2.3	IP-DECT to IP-DECT, terminator releases	Two-way voice path, call released properly	Pass	
6.2.4	IP-DECT to IP-DECT, terminator busy	Busy tone heard at originator	Pass	
6.2.5	IP-DECT to IP-DECT, unanswered call	Ringling at terminator, ringback at originator, originator released properly	Pass	
6.2.6	IP-DECT, call to unknown number	Treatment heard at originator, originator released properly	Pass	

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Test Case	Description	Expected Result	Pass/Fail	Comments
6.2.7	IP-DECT to CSP, originator releases call	Two-way voice path, call released properly	Pass	
6.2.8	IP-DECT to CSP, terminator releases call	Two-way voice path, call released properly	Pass	
6.2.8b	IP-DECT to CSP, terminator releases call (TLS/SRTP)	Two-way voice path, call released properly	Pass	
6.2.9	CSP to IP-DECT, originator abandons call	Terminator stops ringing, originator released properly	Pass	
6.2.10	CSP to IP-DECT, terminator releases	Two-way voice path, call released properly	Pass	
6.2.10b	CSP to IP-DECT, terminator releases (TLS/SRTP)	Two-way voice path, call released properly	Pass	
6.2.11	IP-DECT to CSP, terminator busy	Busy tone heard at originator	Pass	
6.2.12	IP-DECT to CSP, unanswered call	Ringback at terminator, ringback at originator, originator released properly	Pass	
6.2.13	IP-DECT to CSIPP, originator releases call	Two-way voice path, call released properly	Pass	
6.2.14	IP-DECT to CSIPP, terminator releases call	Two-way voice path, call released properly	Pass	
6.2.14b	IP-DECT to CSIPP, terminator releases call (TLS/SRTP)	Two-way voice path, call released properly	Pass	
6.2.15	CSIPP to IP-DECT, originator abandons call	Terminator stops ringing, originator released properly	Pass	

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Test Case	Description	Expected Result	Pass/Fail	Comments
6.2.16	CSIPP to IP-DECT, terminator releases	Two-way voice path, call released properly	Pass	
6.2.16b	CSIPP to IP-DECT, terminator releases (TLS/SRTP)	Two-way voice path, call released properly	Pass	
6.2.17	IP-DECT to CSIPP, terminator busy	Busy tone heard at originator	Pass	
6.2.18	IP-DECT to CSIPP, unanswered call	Ringling at terminator, ringback at originator, originator released properly	Pass	
6.2.19	IP-DECT to PSTN, originator releases call	Two-way voice path, call released properly	Pass	
6.2.19b	IP-DECT to PSTN, originator releases call (TLS/SRTP)	Two-way voice path, call released properly	Pass	
6.2.20	IP-DECT to PSTN, originator abandons call	Terminator stops ringing, originator released properly	Pass	
6.2.21	IP-DECT to PSTN, terminator releases	Two-way voice path, call released properly	Pass	
6.2.21b	IP-DECT to PSTN, terminator releases (TLS/SRTP)	Two-way voice path, call released properly	Pass	
6.2.22	IP-DECT to PSTN, terminator busy	Busy tone heard at originator	Pass	
6.2.23	IP-DECT to PSTN, unanswered call	Ringling at terminator, ringback at originator, originator released properly	Pass	
6.2.24	IP-DECT to PSTN, call to unknown number	Treatment heard at originator, originator released properly	Pass	

Test Case	Description	Expected Result	Pass/Fail	Comments
6.2.25	PSTN to IP-DECT, PSTN abandons call	Terminator stops ringing, originator released properly	Pass	
6.2.26	PSTN to IP-DECT, terminator releases call	Two-way voice path, call released properly	Pass	
6.2.27	PSTN to IP-DECT, terminator busy	Busy tone heard at originator	Pass	
6.2.28	PSTN to IP-DECT, unanswered call	Ringling at terminator, ringback at originator, originator released properly	Pass	
DTMF Using RFC 2833 (out of band)				
6.2.29	IP-DECT retrieves a voicemail, IP-DECT releases call after sending DTMF tones	Voicemail retrieve successfully	Pass	
6.2.30	IP-DECT retrieves a voicemail, voicemail releases call after receiving DTMF tones	Voicemail retrieve successfully	Pass	VM does not release the call
DTMF Using KPML (out of band)				
6.2.31	IP-DECT retrieves a voicemail, IP-DECT releases call after sending DTMF tones	Voicemail retrieve successfully	Pass	
6.2.32	IP-DECT retrieves a voicemail, voicemail releases call after receiving DTMF tones	Voicemail retrieve successfully	Pass	VM does not release the call

6.3 Cisco Unified Communications Manager Standard SIP Feature Support

The goal of this section is to verify protocol interactions between the device under test and the Cisco Unified Communications Manager standards implementation. Focus is on feature call functionality, call control and other call information support interworking capabilities of the endpoint under test and the Cisco Unified Communications Manager version under test.

Test Case	Description	Expected Result	Pass/Fail	Comments
Call Forward All (CFA)				
6.3.1	IP-DECT to IP-DECT2, Call forwarded to IP-DECT3, Endpoint releases call	Two-way audio, call released properly	Pass	
6.3.2	IP-DECT to IP-DECT2, Call forwarded to IP-DECT3, IP-DECT3 releases call	Two-way audio, call released properly	Pass	
6.3.3	IP-DECT to IP-DECT2, Call forwarded to IP-DECT3, IP-DECT abandons call	Terminator stops ringing, call released properly	Pass	
6.3.4	IP-DECT to IP-DECT2, Call forwarded to IP-DECT3, IP-DECT3 is busy	Originator hears busy tone, call released properly	Pass	
6.3.5	PSTN to IP-DECT, Call forwarded to IP-DECT2, PSTN releases call	Two-way audio, call released properly	Pass	
6.3.6	PSTN to IP-DECT, Call forwarded to IP-DECT2, IP-DECT2 releases call	Two-way audio, call released properly	Pass	
6.3.7	PSTN to IP-DECT, Call forwarded to IP-	Terminator stops ringing, call released	Pass	

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Test Case	Description	Expected Result	Pass/Fail	Comments
	DECT2, PSTN abandons call	properly		
6.3.8	PSTN to IP-DECT, Call forwarded to IP-DECT2, IP-DECT2 is busy	Originator hears busy tone, call released properly	Pass	
6.3.9	IP-DECT to CSP, Call forwarded to IP-DECT2, IP-DECT releases call	Two-way audio, call released properly	Pass	
6.3.10	IP-DECT to CSIPP, Call forwarded to IP-DECT2, IP-DECT releases call	Two-way audio, call released properly	Pass	
6.3.11	IP-DECT to CSP, Call forwarded to IP-DECT2, IP-DECT2 releases call	Two-way audio, call released properly	Pass	
6.3.12	IP-DECT to CSIPP, Call forwarded to IP-DECT2, IP-DECT abandons call	Terminator stops ringing, call released properly	Pass	
6.3.13	IP-DECT to CSP, Call forwarded to IP-DECT2, IP-DECT2 is busy	Originator hears busy tone, call released properly	Pass	
6.3.14	IP-DECT to CSIPP, Call forwarded to IP-DECT2, IP-DECT2 is busy	Originator hears busy tone, call released properly	Pass	
6.3.15	PSTN to IP-DECT, Call forwarded to CSIPP, PSTN releases call	Two-way audio, call released properly	Pass	
6.3.16	PSTN to IP-DECT, Call forwarded to CSP, CSP releases call	Two-way audio, call released properly	Pass	
6.3.17	PSTN to IP-DECT, Call forwarded to	Terminator stops ringing, call released	Pas	

Test Case	Description	Expected Result	Pass/Fail	Comments
	CSIPP, PSTN abandons call	properly		
6.3.18	PSTN to IP-DECT, Call forwarded to CSP, CSP is busy	Originator hears busy tone, call released properly	Pass	
Call Forward on Busy (CFb)				
6.3.19	IP-DECT to IP-DECT2, Call forwarded to IP-DECT3, Endpoint releases call	Two-way audio, call released properly	Pass	
6.3.20	IP-DECT to IP-DECT2, Call forwarded to IP-DECT3, IP-DECT3 releases call	Two-way audio, call released properly	Pass	
6.3.21	IP-DECT to IP-DECT2, Call forwarded to IP-DECT3, IP-DECT abandons call	Terminator stops ringing, call released properly	Pass	
6.3.22	IP-DECT to IP-DECT2, Call forwarded to IP-DECT3, IP-DECT3 is busy	Originator hears busy tone, call released properly	Pass	
6.3.23	PSTN to IP-DECT, Call forwarded to IP-DECT2, PSTN releases call	Two-way audio, call released properly	Pass	
6.3.24	PSTN to IP-DECT, Call forwarded to IP-DECT2, IP-DECT2 releases call	Two-way audio, call released properly	Pass	
6.3.25	PSTN to IP-DECT, Call forwarded to IP-DECT2, PSTN abandons call	Terminator stops ringing, call released properly	Pass	
6.3.26	PSTN to IP-DECT, Call forwarded to IP-	Originator hears busy tone, call released	Pass	

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Test Case	Description	Expected Result	Pass/Fail	Comments
	DECT2, IP-DECT2 is busy	properly		
6.3.27	IP-DECT to CSP, Call forwarded to IP-DECT2, IP-DECT releases call	Two-way audio, call released properly	Pass	
6.3.28	IP-DECT to CSIPP, Call forwarded to IP-DECT2, IP-DECT releases call	Two-way audio, call released properly	Pass	
6.3.29	IP-DECT to CSP, Call forwarded to IP-DECT2, IP-DECT2 releases call	Two-way audio, call released properly	Pass	
6.3.30	IP-DECT to CSIPP, Call forwarded to IP-DECT2, IP-DECT abandons call	Terminator stops ringing, call released properly	Pass	
6.3.31	IP-DECT to CSP, Call forwarded to IP-DECT2, IP-DECT2 is busy	Originator hears busy tone, call released properly	Pass	
6.3.32	IP-DECT to CSIPP, Call forwarded to IP-DECT2, IP-DECT2 is busy	Originator hears busy tone, call released properly	Pass	
6.3.33	PSTN to IP-DECT, Call forwarded to CSIPP, PSTN releases call	Two-way audio, call released properly	Pass	
6.3.34	PSTN to IP-DECT, Call forwarded to CSP, CSP releases call	Two-way audio, call released properly	Pass	
6.3.35	PSTN to IP-DECT, Call forwarded to CSIPP, PSTN abandons call	Terminator stops ringing, call released properly	Pass	
6.3.36	PSTN to IP-DECT, Call forwarded to	Originator hears busy tone, call released	Pass	

Test Case	Description	Expected Result	Pass/Fail	Comments
	CSP, CSP is busy	properly		
Call Forward if No Answer (CFNA)				
6.3.37	IP-DECT to IP-DECT2, Call forwarded to IP-DECT3, Endpoint releases call	Two-way audio, call released properly	Pass	
6.3.38	IP-DECT to IP-DECT2, Call forwarded to IP-DECT3, IP-DECT3 releases call	Two-way audio, call released properly	Pass	
6.3.39	IP-DECT to IP-DECT2, Call forwarded to IP-DECT3, IP-DECT abandons call	Terminator stops ringing, call released properly	Pass	
6.3.40	IP-DECT to IP-DECT2, Call forwarded to IP-DECT3, IP-DECT3 is busy	Originator hears busy tone, call released properly	Pass	
6.3.41	PSTN to IP-DECT, Call forwarded to IP-DECT2, PSTN releases call	Two-way audio, call released properly	Pass	
6.3.42	PSTN to IP-DECT, Call forwarded to IP-DECT2, IP-DECT2 releases call	Two-way audio, call released properly	Pass	
6.3.43	PSTN to IP-DECT, Call forwarded to IP-DECT2, PSTN abandons call	Terminator stops ringing, call released properly	Pass	
6.3.44	PSTN to IP-DECT, Call forwarded to IP-DECT2, IP-DECT2 is busy	Originator hears busy tone, call released properly	Pass	
6.3.45	IP-DECT to CSP, Call forwarded to IP-	Two-way audio, call		

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Test Case	Description	Expected Result	Pass/Fail	Comments
	DECT2, IP-DECT releases call	released properly		
6.3.46	IP-DECT to CSIPP, Call forwarded to IP-DECT2, IP-DECT releases call	Two-way audio, call released properly	Pass	
6.3.47	IP-DECT to CSP, Call forwarded to IP-DECT2, IP-DECT2 releases call	Two-way audio, call released properly	Pass	
6.3.48	IP-DECT to CSIPP, Call forwarded to IP-DECT2, IP-DECT abandons call	Terminator stops ringing, call released properly	Pass	
6.3.49	IP-DECT to CSP, Call forwarded to IP-DECT2, IP-DECT2 is busy	Originator hears busy tone, call released properly	Pass	
6.3.50	IP-DECT to CSIPP, Call forwarded to IP-DECT2, IP-DECT2 is busy	Originator hears busy tone, call released properly	Pass	
6.3.51	PSTN to IP-DECT, Call forwarded to CSIPP, PSTN releases call	Two-way audio, call released properly	Pass	
6.3.52	PSTN to IP-DECT, Call forwarded to CSP, CSP releases call	Two-way audio, call released properly	Pass	
6.3.53	PSTN to IP-DECT, Call forwarded to CSIPP, PSTN abandons call	Terminator stops ringing, call released properly	Pass	
6.3.54	PSTN to IP-DECT, Call forwarded to CSP, CSP is busy	Originator hears busy tone, call released properly	Pass	

Test Case	Description	Expected Result	Pass/Fail	Comments
Call Hold and Resume				
6.3.55	IP-DECT to IP-DECT2. Originator Holds and resumes call	IP-DECT2 hears MOH, 2-way audio resumes	Pass	
6.3.56	IP-DECT to IP-DECT2. Terminator Holds and resumes call	IP-DECT hears MOH, 2-way audio resumes	Pass	
6.3.57	IP-DECT to IP-DECT2. Originator Holds call to answer an incoming call	IP-DECT2 hears MOH, 2-way audio on 2 nd call, 2 nd call properly released, 2-way audio resumes	Pass	
6.3.58	IP-DECT to IP-DECT2. Terminator Holds call to answer an incoming call	IP-DECT hears MOH, 2-way audio on 2 nd call, 2 nd call properly released, 2-way audio resumes	Pass	
6.3.59	IP-DECT to IP-DECT2. Originator Holds to originate a second call	IP-DECT2 hears MOH, 2-way audio on 2 nd call, 2 nd call properly released, 2-way audio resumes	Pass	
6.3.60	IP-DECT to IP-DECT2. Terminator Holds to originate a second call	IP-DECT hears MOH, 2-way audio on 2 nd call, 2 nd call properly released, 2-way audio resumes	Pass	
6.3.61	IP-DECT to IP-DECT2. Originator Holds call, Terminator releases before retrieve	IP-DECT2 hears MOH, IP-DECT2 leg properly released, IP-DECT unable to retrieve, IP-DECT properly released	Pass	
6.3.62	IP-DECT to IP-DECT2. Terminator Holds call, Originator releases before retrieve	IP-DECT hears MOH, IP-DECT leg properly released, IP-DECT2 unable to retrieve, IP-DECT2 properly released	Pass	

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Test Case	Description	Expected Result	Pass/Fail	Comments
6.3.63	PSTN to IP-DECT, Terminator Holds and resumes call	PSTN hears MOH, 2-way audio resumes	Pass	
6.3.64	PSTN to IP-DECT, PSTN Holds and resumes call	IP-DECT hears MOH, 2-way audio resumes	Pass	
6.3.65	PSTN to IP-DECT, terminator Holds call to answer an incoming call	PSTN hears MOH, 2-way audio on 2 nd call, 2 nd call properly released, 2-way audio resumes	Pass	
6.3.66	PSTN to IP-DECT, PSTN Holds call to answer an incoming call	IP-DECT hears MOH, 2-way audio on 2 nd call, 2 nd call properly released, 2-way audio resumes	Pass	Not MOH on IP-DECT
6.3.67	PSTN to IP-DECT, terminator Holds to originate a second call	PSTN hears MOH, 2-way audio on 2 nd call, 2 nd call properly released, 2-way audio resumes	Pass	
6.3.68	PSTN to IP-DECT, PSTN Holds to originate a second call	IP-DECT hears MOH, 2-way audio on 2 nd call, 2 nd call properly released, 2-way audio resumes	Pass	
6.3.69	PSTN to IP-DECT, terminator Holds call, PSTN releases before retrieve	PSTN hears MOH, PSTN leg properly released, IP-DECT unable to retrieve, IP-DECT properly released	Pass	
6.3.70	PSTN to IP-DECT, PSTN Holds call, End Point release before retrieve	IP-DECT hears MOH, IP-DECT leg properly released, PSTN unable to retrieve, PSTN properly released	Pass	
6.3.71	IP-DECT to PSTN, terminator Holds and resumes call	IP-DECT hears MOH, 2-way audio resumes	Pass	

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Test Case	Description	Expected Result	Pass/Fail	Comments
6.3.72	IP-DECT to PSTN, PSTN Holds and resumes call	IP-DECT hears MOH, 2-way audio resumes	Pass	
6.3.73	IP-DECT to PSTN, terminator Holds call to answer an incoming call	IP-DECT hears MOH, 2-way audio on 2 nd call, 2 nd call properly released, 2-way audio resumes	Pass	
6.3.74	IP-DECT to PSTN, PSTN Holds call to answer an incoming call	IP-DECT hears MOH, 2-way audio on 2 nd call, 2 nd call properly released, 2-way audio resumes	Pass	
6.3.75	IP-DECT to PSTN, terminator Holds to originate a second call	IP-DECT hears MOH, 2-way audio on 2 nd call, 2 nd call properly released, 2-way audio resumes	Pass	
6.3.76	IP-DECT to PSTN, PSTN Holds to originate a second call	IP-DECT hears MOH, 2-way audio on 2 nd call, 2 nd call properly released, 2-way audio resumes	Pass	
6.3.77	IP-DECT to PSTN, IP-DECT Holds call, PSTN releases before retrieve	PSTN hears MOH, PSTN leg properly released, IP-DECT unable to retrieve, IP-DECT properly released	Pass	
6.3.78	IP-DECT to PSTN, PSTN Holds call, End Point release before retrieve	IP-DECT hears MOH, IP-DECT leg properly released, PSTN unable to retrieve, PSTN properly released	Pass	
6.3.79	IP-DECT to CSP. Originator Holds and resumes call	CSP hears MOH, 2-way audio resumes	Pass	
6.3.80	IP-DECT to CSP. Terminator Holds and resumes call	IP-DECT hears MOH, 2-way audio resumes	Pass	

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Test Case	Description	Expected Result	Pass/Fail	Comments
6.3.81	IP-DECT to CSP. Originator Holds call to answer an incoming call	CSP hears MOH, 2-way audio on 2 nd call, 2 nd call properly released, 2-way audio resumes	Pass	
6.3.82	IP-DECT to CSP. Terminator Holds call to answer an incoming call	IP-DECT hears MOH, 2-way audio on 2 nd call, 2 nd call properly released, 2-way audio resumes	Pass	
6.3.83	IP-DECT to CSP. Originator Holds to originate a second call	CSP hears MOH, 2-way audio on 2 nd call, 2 nd call properly released, 2-way audio resumes	Pass	
6.3.84	IP-DECT to CSP. Terminator Holds to originate a second call	IP-DECT hears MOH, 2-way audio on 2 nd call, 2 nd call properly released, 2-way audio resumes	Pass	
6.3.85	IP-DECT to CSP. Originator Holds call, Terminator releases before retrieve	CSP hears MOH, CSP leg properly released, IP-DECT unable to retrieve, IP-DECT properly released	Pass	
6.3.86	IP-DECT to CSP. Terminator Holds call, Originator releases before retrieve	IP-DECT hears MOH, IP-DECT leg properly released, CSP properly released	Pass	
6.3.87	IP-DECT to CSIPP. Originator Holds and resumes call	CSIPP hears MOH, 2-way audio resumes	Pass	
6.3.88	IP-DECT to CSIPP. Terminator Holds and resumes call	IP-DECT hears MOH, 2-way audio resumes	Pass	
6.3.89	IP-DECT to CSIPP. Originator Holds call to answer an	CSIPP hears MOH, 2-way audio on 2 nd call, 2 nd call properly released, 2-way	Pass	

Test Case	Description	Expected Result	Pass/Fail	Comments
	incoming call	audio resumes		
6.3.90	IP-DECT to CSIPP. Terminator Holds call to answer an incoming call	IP-DECT hears MOH, 2-way audio on 2 nd call, 2 nd call properly released, 2-way audio resumes	Pass	
6.3.91	IP-DECT to CSIPP. Originator Holds to originate a second call	CSIPP hears MOH, 2-way audio on 2 nd call, 2 nd call properly released, 2-way audio resumes	Pass	
6.3.92	IP-DECT to CSIPP. Terminator Holds to originate a second call	IP-DECT hears MOH, 2-way audio on 2 nd call, 2 nd call properly released, 2-way audio resumes	Pass	
6.3.93	IP-DECT to CSIPP. Originator Holds call, Terminator releases before retrieve	CSIPP hears MOH, CSIPP leg properly released, IP-DECT unable to retrieve, IP-DECT properly released	Pass	
6.3.94	IP-DECT to CSIPP. Terminator Holds call, Originator releases before retrieve	IP-DECT hears MOH, IP-DECT leg properly released, CSIPP unable to retrieve, CSIPP properly released	Pass	
Call Waiting				
6.3.95	IP-DECT to IP-DECT2, Call waiting on Originator.	IP-DECT indicates incoming call	Pass	
6.3.96	IP-DECT to IP-DECT2, Call waiting on Terminator.	IP-DECT2 indicates incoming call	Pass	
6.3.97	IP-DECT to PSTN, Call Waiting on Originator.	IP-DECT indicates incoming call	Pass	
6.3.98	PSTN to IP-DECT, Call Waiting on	IP-DECT indicates	Pass	

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Test Case	Description	Expected Result	Pass/Fail	Comments
	Terminator.	incoming call		
6.3.99	IP-DECT to CSP, Call waiting on Originator.	IP-DECT indicates incoming call	Pass	
6.3.100	CSP to IP-DECT, Call waiting on Terminator.	IP-DECT indicates incoming call	Pass	
6.3.101	IP-DECT to CSIPP, Call waiting on Originator.	IP-DECT indicates incoming call	Pass	
6.3.102	CSIPP to IP-DECT, Call waiting on Terminator.	IP-DECT indicates incoming call	Pass	
Blind Call Transfer				
6.3.103	IP-DECT to IP-DECT2, Originator transfer to a second extension	IP-DECT properly released, 2-way audio between IP-DECT2 and extension	Pass	
6.3.104	IP-DECT to IP-DECT2, Originator failed to transfer call to a second extension	IP-DECT properly released, IP-DECT2 receives treatment, IP-DECT2 properly released	Pass	
6.3.105	IP-DECT to IP-DECT2, Originator transfer to a second extension, release before answer	All legs properly released	Pass	
6.3.106	IP-DECT to IP-DECT2, Terminator transfer to a second extension	IP-DECT2 properly released, 2-way audio between IP-DECT and extension	Pass	
6.3.107	IP-DECT to IP-DECT2, Terminator failed to transfer call to a second extension	IP-DECT2 properly released, IP-DECT receives treatment, IP-DECT properly released	Pass	

Test Case	Description	Expected Result	Pass/Fail	Comments
6.3.108	IP-DECT to IP-DECT2, Terminator transfer to a second extension, Originator release before answer	All legs properly released	Pass	
6.3.109	IP-DECT to IP-DECT2, Originator transfer to PSTN	IP-DECT properly released, 2-way audio between IP-DECT2 and PSTN	Pass	
6.3.110	IP-DECT to IP-DECT2, Originator failed to transfer call to PSTN	IP-DECT properly released, IP-DECT2 receives treatment, IP-DECT2 properly released	Pass	
6.3.111	IP-DECT to IP-DECT2, Originator transfer to PSTN, release before answer	All legs properly released	Pass	
6.3.112	IP-DECT to IP-DECT2, Terminator transfer to PSTN	IP-DECT2 properly released, 2-way audio between IP-DECT and PSTN	Pass	
6.3.113	IP-DECT to IP-DECT2, Terminator failed to transfer call to PSTN	IP-DECT2 properly released, IP-DECT receives treatment, IP-DECT properly released	Pass	
6.3.114	IP-DECT to IP-DECT2, Terminator transfer to PSTN, Originator release before answer	All legs properly released	Pass	
6.3.115	PSTN to IP-DECT, terminator transfer to second extension	IP-DECT properly released, 2-way audio between PSTN and extension	Pass	
6.3.116	PSTN to IP-DECT, terminator failed to transfer call	IP-DECT properly released, PSTN receives treatment,	Pass	

Test Case	Description	Expected Result	Pass/Fail	Comments
		PSTN properly released		
6.3.117	PSTN to IP-DECT, terminator transfer, PSTN releases before call is answered	All legs properly released	Pass	
6.3.118	IP-DECT to PSTN, originator transfer to second extension	IP-DECT properly released, 2-way audio between PSTN and extension	Pass	
6.3.119	IP-DECT to PSTN, originator failed to transfer call	IP-DECT properly released, PSTN receives treatment, PSTN properly released	Pass	
6.3.120	IP-DECT to PSTN, originator transfer, PSTN releases before call is answered	All legs properly released	Pass	
6.3.121	IP-DECT to CSP, Originator transfer to a second extension	IP-DECT properly released, 2-way audio between CSP and extension	Pass	
6.3.122	IP-DECT to CSP, Originator failed to transfer call to a second extension	IP-DECT properly released, CSP receives treatment, CSP properly released	Pass	
6.3.123	IP-DECT to CSP, Originator transfer to a second extension, release before answer	All legs properly released	Pass	
6.3.124	IP-DECT to CSP, Terminator transfer to a second extension	CSP properly released, 2-way audio between IP-DECT and extension	Pass	
6.3.125	IP-DECT to CSP, Terminator failed to	CSP properly released, IP-DECT	Pass	CM looks for the destination number before enabling the

Test Case	Description	Expected Result	Pass/Fail	Comments
	transfer call to a second extension	receives treatment, IP-DECT properly released		transfer
6.3.126	IP-DECT to CSP, Terminator transfer to a second extension, Originator release before answer	All legs properly released	Pass	
6.3.127	IP-DECT to CSP, Originator transfer to PSTN	IP-DECT properly released, 2-way audio between CSP and PSTN	Pass	
6.3.128	IP-DECT to CSP, Originator failed to transfer call to PSTN	IP-DECT properly released, CSP receives treatment, CSP properly released	Pass	
6.3.129	IP-DECT to CSP, Originator transfer to PSTN, release before answer	All legs properly released	Pass	
6.3.130	IP-DECT to CSP, Terminator transfer to PSTN	CSP properly released, 2-way audio between IP-DECT and PSTN	Pass	
6.3.131	IP-DECT to CSP, Terminator failed to transfer call to PSTN	CSP properly released, IP-DECT receives treatment, IP-DECT properly released	Pass	CM looks for the destination number before enabling the transfer
6.3.132	IP-DECT to CSP, Terminator transfer to PSTN, Originator release before answer	All legs properly released	Pass	
6.3.133	IP-DECT to CSIPP, Originator transfer to a second extension	IP-DECT properly released, 2-way audio between CSIPP and extension	Pass	
6.3.134	IP-DECT to CSIPP, Originator failed to	IP-DECT properly released, CSIPP	Pass	CM looks for the destination number before enabling the

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Test Case	Description	Expected Result	Pass/Fail	Comments
	transfer call to a second extension	receives treatment, CSIPP properly released		transfer
6.3.135	IP-DECT to CSIPP, Originator transfer to a second extension, release before answer	All legs properly released	Pass	
6.3.136	IP-DECT to CSIPP, Terminator transfer to a second extension	CSIPP properly released, 2-way audio between IP-DECT and extension	Pass	
6.3.137	IP-DECT to CSIPP, Terminator failed to transfer call to a second extension	CSIPP properly released, IP-DECT receives treatment, IP-DECT properly released	Pass	CM looks for the destination number before enabling the transfer
6.3.138	IP-DECT to CSIPP, Terminator transfer to a second extension, Originator release before answer	All legs properly released	Pass	
6.3.139	IP-DECT to CSIPP, Originator transfer to PSTN	IP-DECT properly released, 2-way audio between CSIPP and PSTN	Pass	
6.3.140	IP-DECT to CSIPP, Originator failed to transfer call to PSTN	IP-DECT properly released, CSIPP receives treatment, CSIPP properly released	Pass	
6.3.141	IP-DECT to CSIPP, Originator transfer to PSTN, release before answer	All legs properly released	Pass	
6.3.142	IP-DECT to CSIPP, Terminator transfer to PSTN	CSIPP properly released, 2-way audio between IP-DECT and PSTN	Pass	
6.3.143	IP-DECT to CSIPP, Terminator failed to	CSIPP properly released, IP-DECT	Pass	

Test Case	Description	Expected Result	Pass/Fail	Comments
	transfer call to PSTN	receives treatment, IP-DECT properly released		
6.3.144	IP-DECT to CSIPP, Terminator transfer to PSTN, Originator release before answer	All legs properly released	Pass	
Consultative Call Transfer				
6.3.145	IP-DECT to IP-DECT2, Originator transfer to a second extension	IP-DECT2 receives MOH, 2-way audio IP-DECT to extension, IP-DECT properly released, 2-way audio IP-DECT2 to extension	Pass	
6.3.146	IP-DECT to IP-DECT2, Originator failed to transfer call to a second extension, retrieve call	IP-DECT2 receives MOH, IP-DECT receives treatment, call successfully retrieved with 2-way audio, failed leg properly released	Pass	
6.3.147	IP-DECT to IP-DECT2, Originator transfer to a second extension, release before answer	IP-DECT2 receives MOH, 2-way audio IP-DECT to extension, all call legs properly released	Pass	
6.3.148	IP-DECT to IP-DECT2, Terminator transfer to a second extension	IP-DECT receives MOH, 2-way audio IP-DECT2 to extension, IP-DECT2 properly released, 2-way audio IP-DECT to extension	Pass	
6.3.149	IP-DECT to IP-DECT2, Terminator failed to transfer call to a second extension, retrieve call	IP-DECT receives MOH, IP-DECT2 receives treatment, call successfully retrieved with 2-way audio, failed leg	Pass	

Test Case	Description	Expected Result	Pass/Fail	Comments
		properly released		
6.3.150	IP-DECT to IP-DECT2, Terminator transfer to a second extension, Originator release before answer	IP-DECT receives MOH, 2-way audio IP-DECT2 to extension, all call legs properly released	Pass	
6.3.151	IP-DECT to IP-DECT2, Originator transfer to PSTN	IP-DECT2 receives MOH, 2-way audio IP-DECT to PSTN, IP-DECT properly released, 2-way audio IP-DECT2 to PSTN	Pass	
6.3.152	IP-DECT to IP-DECT2, Originator failed to transfer call to PSTN, retrieve call	IP-DECT2 receives MOH, IP-DECT receives treatment, call successfully retrieved with 2-way audio, failed leg properly released	Pass	
6.3.153	IP-DECT to IP-DECT2, Originator transfer to PSTN, release before answer	IP-DECT2 receives MOH, 2-way audio IP-DECT to PSTN, all call legs properly released	Pass	
6.3.154	IP-DECT to IP-DECT2, Terminator transfer to PSTN	IP-DECT receives MOH, 2-way audio IP-DECT2 to PSTN, IP-DECT2 properly released, 2-way audio IP-DECT to PSTN	Pass	
6.3.155	IP-DECT to IP-DECT2, Terminator failed to transfer call to PSTN, retrieve call	IP-DECT receives MOH, IP-DECT2 receives treatment, call successfully retrieved with 2-way audio, failed leg properly released	Pass	
6.3.156	IP-DECT to IP-DECT2, Terminator transfer to PSTN,	IP-DECT receives MOH, 2-way audio IP-DECT2 to PSTN,	Pass	

Test Case	Description	Expected Result	Pass/Fail	Comments
	Originator release before answer	all call legs properly released		
6.3.157	PSTN to IP-DECT, terminator transfer to second extension	PSTN receives MOH, 2-way audio IP-DECT to extension, IP-DECT properly released, 2-way audio PSTN to extension	Pass	
6.3.158	PSTN to IP-DECT, terminator failed to transfer call	PSTN receives MOH, IP-DECT receives treatment, call successfully retrieved with 2-way audio, failed leg properly released	Pass	
6.3.159	PSTN to IP-DECT, terminator transfer, PSTN releases before call is answered	PSTN receives MOH, 2-way audio IP-DECT to extension, all call legs properly released	Pass	
6.3.160	IP-DECT to PSTN, originator transfer to second extension	PSTN receives MOH, 2-way audio IP-DECT to extension, IP-DECT properly released, 2-way audio PSTN to extension	Pass	
6.3.161	IP-DECT to PSTN, originator failed to transfer call	PSTN receives MOH, IP-DECT receives treatment, call successfully retrieved with 2-way audio, failed leg properly released	Pass	
6.3.162	IP-DECT to PSTN, originator transfer, PSTN releases before call is answered	PSTN receives MOH, 2-way audio IP-DECT to extension, all call legs properly released	Pass	
6.3.163	IP-DECT to CSP, Originator transfer to	CSP receives MOH, 2-way audio IP-DECT to extension, IP-	Pass	

Test Case	Description	Expected Result	Pass/Fail	Comments
	a second extension	DECT properly released, 2-way audio CSP to extension		
6.3.164	IP-DECT to CSP, Originator failed to transfer call to a second extension, retrieve call	CSP receives MOH, IP-DECT receives treatment, call successfully retrieved with 2-way audio, failed leg properly released	Pass	
6.3.165	IP-DECT to CSP, Originator transfer to a second extension, release before answer	CSP receives MOH, 2-way audio IP-DECT to extension, all call legs properly released	Pass	
6.3.166	IP-DECT to CSP, Terminator transfer to a second extension	CSP receives MOH, 2-way audio IP-DECT to extension, IP-DECT properly released, 2-way audio CSP to extension	Pass	
6.3.167	IP-DECT to CSP, Terminator failed to transfer call to a second extension, retrieve call	IP-DECT receives MOH, IP-DECT receives treatment, call successfully retrieved with 2-way audio, failed leg properly released	Pass	CM looks for the destination number before enabling the transfer
6.3.168	IP-DECT to CSP, Terminator transfer to a second extension, Originator release before answer	IP DECT receives MOH, 2-way audio IP-DECT to extension, all call legs properly released	Pass	
6.3.169	IP-DECT to CSP, Originator transfer to PSTN	CSP receives MOH, 2-way audio IP-DECT to PSTN, IP-DECT properly released, 2-way audio CSP to PSTN	Pass	

Test Case	Description	Expected Result	Pass/Fail	Comments
6.3.170	IP-DECT to CSP, Originator failed to transfer call to PSTN, retrieve call	CSP receives MOH, IP-DECT receives treatment, call successfully retrieved with 2-way audio, failed leg properly released	Pass	
6.3.171	IP-DECT to CSP, Originator transfer to PSTN, release before answer	CSP receives MOH, 2-way audio IP-DECT to PSTN, all call legs properly released	Pass	
6.3.172	IP-DECT to CSP, Terminator transfer to PSTN	IP-DECT receives MOH, 2-way audio CSP to PSTN, CSP properly released, 2-way audio IP-DECT to PSTN	Pass	
6.3.173	IP-DECT to CSP, Terminator failed to transfer call to PSTN, retrieve call	IP-DECT receives MOH, CSP receives treatment, call successfully retrieved with 2-way audio, failed leg properly released	Pass	
6.3.174	IP-DECT to CSP, Terminator transfer to PSTN, Originator release before answer	IP-DECT receives MOH, 2-way audio CSP to PSTN, all call legs properly released	Pass	
6.3.175	IP-DECT to CSIPP, Originator transfer to a second extension	CSIPP receives MOH, 2-way audio IP-DECT to extension, IP-DECT properly released, 2-way audio CSIPP to extension	Pass	
6.3.176	IP-DECT to CSIPP, Originator failed to transfer call to a second extension, retrieve call	CSIPP receives MOH, IP-DECT receives treatment, call successfully retrieved with 2-way audio, failed leg properly released	Pass	

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Test Case	Description	Expected Result	Pass/Fail	Comments
6.3.177	IP-DECT to CSIPP, Originator transfer to a second extension, release before answer	CSIPP receives MOH, 2-way audio IP-DECT to extension, all call legs properly released	Pass	
6.3.178	IP-DECT to CSIPP, Terminator transfer to a second extension	CSIPP receives MOH, 2-way audio IP-DECT to extension, IP-DECT properly released, 2-way audio CSIPP to extension	Pass	
6.3.179	IP-DECT to CSIPP, Terminator failed to transfer call to a second extension, retrieve call	IP-DECT receives MOH, CSIPP receives treatment, call successfully retrieved with 2-way audio, failed leg properly released	Pass	
6.3.180	IP-DECT to CSIPP, Terminator transfer to a second extension, Originator release before answer	CSIPP receives MOH, 2-way audio IP-DECT to extension, all call legs properly released	Pass	
6.3.181	IP-DECT to CSIPP, Originator transfer to PSTN	CSIPP receives MOH, 2-way audio IP-DECT to PSTN, IP-DECT properly released, 2-way audio CSIPP to PSTN	Pass	
6.3.182	IP-DECT to CSIPP, Originator failed to transfer call to PSTN, retrieve call	CSIPP receives MOH, IP-DECT receives treatment, call successfully retrieved with 2-way audio, failed leg properly released	Pass	
6.3.183	IP-DECT to CSIPP, Originator transfer to PSTN, release before	CSIPP receives MOH, 2-way audio IP-DECT to PSTN, all	Pass	

Test Case	Description	Expected Result	Pass/Fail	Comments
	answer	call legs properly released		
6.3.184	IP-DECT to CSIPP, Terminator transfer to PSTN	IP-DECT receives MOH, 2-way audio CSIPP to PSTN, CSIPP properly released, 2-way audio IP-DECT to PSTN	Pass	
6.3.185	IP-DECT to CSIPP, Terminator failed to transfer call to PSTN, retrieve call	IP-DECT receives MOH, CSIPP receives treatment, call successfully retrieved with 2-way audio, failed leg properly released	Pass	
6.3.186	IP-DECT to CSIPP, Terminator transfer to PSTN, Originator release before answer	IP-DECT receives MOH, 2-way audio CSIPP to PSTN, all call legs properly released	Pass	
3-Way Conference				
6.3.187	IP-DECT to IP-DECT2, originator bridges to a IP-DECT3.	IP-DECT2 receives MOH, IP-DECT receives ring back, 3-way audio	Pass	
6.3.188	IP-DECT to IP-DECT2, Originator failed to bridged call to a IP-DECT3, retrieve call	IP-DECT2 receives MOH, IP-DECT receives treatment, call successfully retrieved with 2-way audio	Pass	
6.3.189	IP-DECT to IP-DECT2, Originator is the bridge, Terminator release before answer	IP-DECT2 receives MOH, IP-DECT receives ring back, IP-DECT2 properly released, 2-way audio IP-DECT – IP-DECT3 after answer	Pass	
6.3.190	IP-DECT to IP-DECT2, Originator is the bridge, Originator	IP-DECT2 receives MOH, IP-DECT receives ringback,	N/A	Releasing one leg is not implemented

Test Case	Description	Expected Result	Pass/Fail	Comments
	cancel 3 way call, retrieve original call	call successfully retrieved with 2-way audio		
6.3.191	IP-DECT to IP-DECT2, Terminator is the bridge	IP-DECT receives MOH, IP-DECT2 receives ringback, 3-way audio	Pass	
6.3.192	IP-DECT to IP-DECT2, Terminator failed to bridged call, retrieve original call	IP-DECT receives MOH, IP-DECT2 receives treatment, call successfully retrieved with 2-way audio	Pass	
6.3.193	IP-DECT to IP-DECT2, Terminator bridged to a IP-DECT3, Originator releases before answer	IP-DECT receives MOH, IP-DECT2 receives ringback, IP-DECT properly released, 2-way audio IP-DECT2 – IP-DECT3 after answer	Pass	
6.3.194	IP-DECT to IP-DECT2, Originator bridge to PSTN	IP-DECT2 receives MOH, IP-DECT receives ringback, 3-way audio	Pass	
6.3.195	IP-DECT to IP-DECT2, Originator failed to bridge call to PSTN, retrieve call	IP-DECT2 receives MOH, IP-DECT receives treatment, call successfully retrieved with 2-way audio	Pass	
6.3.196	IP-DECT to IP-DECT2, Originator bridge to PSTN, terminator releases before answer	IP-DECT2 receives MOH, IP-DECT receives ring back, IP-DECT2 properly released, 2-way audio IP-DECT – PSTN after answer	Pass	
6.3.197	IP-DECT to IP-DECT2, Terminator bridge to PSTN	IP-DECT receives MOH, IP-DECT2 receives ring back, 3-way audio	Pass	

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Test Case	Description	Expected Result	Pass/Fail	Comments
6.3.198	IP-DECT to IP-DECT2, Terminator failed to bridge call to PSTN, retrieve call	IP-DECT receives MOH, IP-DECT2 receives treatment, call successfully retrieved with 2-way audio	Pass	
6.3.199	IP-DECT to IP-DECT2, Terminator bridge to PSTN, Originator release before answer	IP-DECT receives MOH, IP-DECT2 receives ringback, IP-DECT properly released, 2-way audio IP-DECT2 – PSTN after answer	Pass	
6.3.200	PSTN to IP-DECT, terminator bridge to IP-DECT2	PSTN receives MOH, IP-DECT receives ringback, 3-way audio	Pass	
6.3.201	PSTN to IP-DECT, terminator failed to bridge call	PSTN receives MOH, IP-DECT receives treatment, call successfully retrieved with 2-way audio	Pass	
6.3.202	PSTN to IP-DECT, terminator attempt to bridge, PSTN releases before call is answered	PSTN receives MOH, IP-DECT receives ringback, PSTN properly released, 2-way audio IP-DECT – IP-DECT2 after answer	Pass	
6.3.203	IP-DECT to PSTN, originator bridge to IP-DECT2	PSTN receives MOH, IP-DECT receives ringback, 3-way audio	Pass	
6.3.204	IP-DECT to PSTN, originator failed to bridge call	PSTN receives MOH, IP-DECT receives treatment, call successfully retrieved with 2-way audio	Pass	
6.3.205	IP-DECT to PSTN, originator attempts to bridge call, PSTN releases before call is	PSTN receives MOH, IP-DECT receives ringback, PSTN properly released, 2-	Pass	

Test Case	Description	Expected Result	Pass/Fail	Comments
	answered	way audio IP-DECT – IP-DECT2 after answer		
6.3.206	IP-DECT to CSP, Originator is the bridge	CSP receives MOH, IP-DECT receives ring back, 3-way audio	Pass	
6.3.207	IP-DECT to CSP, Originator failed to bridged call to a IP-DECT2, retrieve call	CSP receives MOH, IP-DECT receives treatment, call successfully retrieved with 2-way audio	Pass	
6.3.208	IP-DECT to CSP, Originator is the bridge, Terminator release before answer	CSP receives MOH, IP-DECT receives ring back, CSP properly released, 2-way audio IP-DECT – IP-DECT2 after answer	Pass	
6.3.209	IP-DECT to CSP, Originator is the bridge, Originator cancel 3 way call, retrieve original call	CSP receives MOH, IP-DECT receives ring back, call successfully retrieved with 2-way audio	N/A	Releasing one leg is not implemented
6.3.210	IP-DECT to CSP, Terminator is the bridge	IP-DECT receives MOH, CSP receives ring back, 3-way audio	Pass	
6.3.211	IP-DECT to CSP, Terminator failed to bridged call, retrieve original call	IP-DECT receives MOH, CSP receives treatment, call successfully retrieved with 2-way audio	Pass	
6.3.212	IP-DECT to CSP, Terminator bridged to a IP-DECT2, Originator releases before answer	IP-DECT receives MOH, CSP receives ring back, IP-DECT properly released, 2-way audio CSP – IP-DECT2 after answer	Pass	
6.3.213	IP-DECT to CSP, Originator bridge to	CSP receives MOH, IP-DECT receives ring back, 3-way	Pass	

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Test Case	Description	Expected Result	Pass/Fail	Comments
	PSTN	audio		
6.3.214	IP-DECT to CSP, Originator failed to bridge call to PSTN, retrieve call	CSP receives MOH, IP-DECT receives treatment, call successfully retrieved with 2-way audio	Pass	
6.3.215	IP-DECT to CSP, Originator bridge to PSTN, terminator releases before answer	CSP receives MOH, IP-DECT receives ring back, CSP properly released, 2-way audio IP-DECT – PSTN after answer	Pass	
6.3.216	IP-DECT to CSP, Terminator bridge to PSTN	IP-DECT receives MOH, CSP receives ring back, 3-way audio	Pass	
6.3.217	IP-DECT to CSP, Terminator failed to bridge call to PSTN, retrieve call	IP-DECT receives MOH, CSP receives treatment, call successfully retrieved with 2-way audio	Pass	
6.3.218	IP-DECT to CSP, Terminator bridge to PSTN, Originator release before answer	IP-DECT receives MOH, CSP receives ringback, IP-DECT properly released, 2-way audio CSP – PSTN after answer	Pass	
6.3.219	IP-DECT to CSIPP, Originator is the bridge	CSIPP receives MOH, IP-DECT receives ringback, 3-way audio	Pass	
6.3.220	IP-DECT to CSIPP, Originator failed to bridged call to a IP-DECT3, retrieve call	CSIPP receives MOH, IP-DECT receives treatment, call successfully retrieved with 2-way audio	Pass	
6.3.221	IP-DECT to CSIPP, Originator is the bridge, Terminator release before	CSIPP receives MOH, IP-DECT receives ringback, CSIPP properly released, 2-way	Pass	

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Test Case	Description	Expected Result	Pass/Fail	Comments
	answer	audio IP-DECT – IP-DECT2 after answer		
6.3.222	IP-DECT to CSIPP, Originator is the bridge, Originator cancel 3 way call, retrieve original call	CSIPP receives MOH, IP-DECT receives ringback, call successfully retrieved with 2-way audio	N/A	Releasing one leg is not implemented
6.3.223	IP-DECT to CSIPP, Terminator is the bridge	IP-DECT receives MOH, CSIPP receives ringback, 3-way audio	Pass	
6.3.224	IP-DECT to CSIPP, Terminator failed to bridged call, retrieve original call	IP-DECT receives MOH, CSIPP receives treatment, call successfully retrieved with 2-way audio	Pass	
6.3.225	IP-DECT to CSIPP, Terminator bridged to a IP-DECT3, Originator releases before answer	IP-DECT receives MOH, CSIPP receives ring back, IP-DECT properly released, 2-way audio CSIPP – IP-DECT2 after answer	Pass	
6.3.226	IP-DECT to CSIPP, Originator bridge to PSTN	CSIPP receives MOH, IP-DECT receives ring back, 3-way audio	Pass	
6.3.227	IP-DECT to CSIPP, Originator failed to bridge call to PSTN, retrieve call	CSIPP receives MOH, IP-DECT receives treatment, call successfully retrieved with 2-way audio	Pass	
6.3.228	IP-DECT to CSIPP, Originator bridge to PSTN, terminator releases before answer	CSIPP receives MOH, IP-DECT receives ring back, CSIPP properly released, 2-way audio IP-DECT – PSTN after answer	Pass	

Test Case	Description	Expected Result	Pass/Fail	Comments
6.3.229	IP-DECT to CSIPP, Terminator bridge to PSTN	IP-DECT receives MOH, CSIPP receives ring back, 3-way audio	Pass	
6.3.230	IP-DECT to CSIPP, Terminator failed to bridge call to PSTN, retrieve call	IP-DECT receives MOH, CSIPP receives treatment, call successfully retrieved with 2-way audio	Pass	
6.3.231	IP-DECT to CSIPP, Terminator bridge to PSTN, Originator release before answer	IP-DECT receives MOH, CSIPP receives ringback, IP-DECT properly released, 2-way audio CSIPP – PSTN after answer	Pass	
Calling Line Identification				
6.3.232	IP-DECT to IP-DECT2, Calling Line identification type I	Calling Line ID presented at terminator	Pass	
6.3.233	IP-DECT to CSP, Calling Line identification type I	Calling Line ID presented at terminator	Pass	
6.3.234	IP-DECT to CSIPP, Calling Line identification type I	Calling Line ID presented at terminator	Pass	
6.3.235	CSIPP to IP-DECT2, Calling Line identification type I	Calling Line ID presented at terminator	Pass	
6.3.236	CSP to IP-DECT2, Calling Line identification type I	Calling Line ID presented at terminator	Pass	
6.3.237	IP-DECT to PSTN, Calling Line identification type I	Calling Line ID presented at terminator	Pass	
6.3.238	PSTN to IP-DECT, Calling Line identification type I	Calling Line ID presented at terminator	Pass	

Test Case	Description	Expected Result	Pass/Fail	Comments
6.3.239	IP-DECT to IP-DECT2, Type II on terminator, call in progress between two end points	Calling Line ID presented at terminator	Pass	
6.3.240	IP-DECT to IP-DECT2, Type II on originator, call in progress between two end points	Calling Line ID presented at terminator	Pass	
6.3.241	IP-DECT to IP-DECT2, Type II on originator, call in progress between End point and PSTN	Calling Line ID presented at terminator	Pass	
6.3.242	IP-DECT to IP-DECT2, Type II on terminator, call in progress between PSTN and End point	Calling Line ID presented at terminator	Pass	
6.3.243	IP-DECT to IP-DECT2, Calling Line identification type I Restricted	Calling Line ID <i>not</i> presented at terminator	Pass	
6.3.244	IP-DECT to CSP, Calling Line identification type I Restricted	Calling Line ID <i>not</i> presented at terminator	Pass	
6.3.245	IP-DECT to CSIPP, Calling Line identification type I Restricted	Calling Line ID <i>not</i> presented at terminator	Pass	
6.3.246	CSIPP to IP-DECT2, Calling Line identification type I Restricted	Calling Line ID <i>not</i> presented at terminator	Pass	
6.3.247	CSP to IP-DECT2, Calling Line identification type I Restricted	Calling Line ID <i>not</i> presented at terminator	Pass	

Test Case	Description	Expected Result	Pass/Fail	Comments
6.3.248	Multiline IP-DECT (single line presented, others not) to IP-DECT Line Presented (Calling party)	Calling Line ID presented at terminator	N/A	Multiline is not supported by IP-DECT IP-DECT cannot restrict Calling Line Identification.
6.3.249	Multiline IP-DECT (single line presented, others not) IP-DECT to IP-DECT Name Presented (Calling Party)	Calling Name presented at terminator	N/A	Multiline is not supported by IP-DECT IP-DECT cannot restrict Calling Line Identification.
6.3.250	Multiline IP-DECT (single line presented, others not) IP-DECT to IP-DECT line and Name Presented (Calling Party)	Calling Line ID and Calling Name presented at terminator	N/A	Multiline is not supported by IP-DECT IP-DECT cannot restrict Calling Line Identification.
6.3.251	Multiline IP-DECT (single line presented, others not) IP-DECT to IP-DECT Line restricted (Calling Party)	Calling Line ID <i>not</i> presented at terminator	N/A	Multiline is not supported by IP-DECT IP-DECT cannot restrict Calling Line Identification.
6.3.252	Multiline IP-DECT (single line presented, others not) IP-DECT to IP-DECT Name restricted (Calling Party)	Calling Name <i>not</i> presented at terminator	N/A	Multiline is not supported by IP-DECT IP-DECT cannot restrict Calling Line Identification.
6.3.253	Multiline IP-DECT (single line presented, others not) IP-DECT to IP-DECT Line and Name restricted (Calling Party)	Calling Line ID and Name <i>not</i> presented at terminator	N/A	Multiline is not supported by IP-DECT IP-DECT cannot restrict Calling Line Identification.
6.3.254	Call Forward (IP-DECT to IP-DECT2, forwarded to IP-	Calling Line ID presented at IP-DECT3	Pass	

Test Case	Description	Expected Result	Pass/Fail	Comments
	DECT3)			
6.3.255	Call Transfer (IP-DECT to IP-DECT2, originator transfer to IP-DECT3)	Calling Line ID presented at IP-DECT3	Pass	
6.3.256	Call Transfer (IP-DECT to IP-DECT2, terminator transfer to IP-DECT3)	Calling Line ID presented at IP-DECT3	Pass	
Calling Name Presentation				
6.3.257	IP-DECT to IP-DECT2, Calling Party Name	Calling Name presented at terminator	Pass	
6.3.258	IP-DECT to IP-DECT2, Calling Party Name Restricted	Calling Name <i>not</i> presented at terminator	N/A	IP-DECT cannot restrict Calling Line Identification.
6.3.259	IP-DECT to CSP, Calling Party Name	Calling Name presented at terminator	Pass	
6.3.260	IP-DECT to CSP, Calling Party Name Restricted	Calling Name <i>not</i> presented at terminator	N/A	IP-DECT cannot restrict Calling Line Identification
6.3.261	IP-DECT to CSIPP, Calling Party Name	Calling Name presented at terminator	Pass	
6.3.262	IP-DECT to CSIPP, Calling Party Name Restricted	Calling Name <i>not</i> presented at terminator	N/A	IP-DECT cannot restrict Calling Line Identification.
6.3.263	CSP to IP-DECT, Calling Party Name	Calling Name presented at terminator	Pass	
6.3.264	CSP to IP-DECT, Calling Party Name Restricted	Calling Name <i>not</i> presented at terminator	N/A	IP-DECT cannot restrict Calling Line Identification.
6.3.265	CSIPP to IP-DECT, Calling Party Name	Calling Name presented at terminator	Pass	

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Test Case	Description	Expected Result	Pass/Fail	Comments
6.3.266	CSIPP to IP-DECT, Calling Party Name Restricted	Calling Name <i>not</i> presented at terminator	N/A	IP-DECT cannot restrict Calling Line Identification.
6.3.267	IP-DECT to PSTN, Calling Party Name	Calling Name presented at terminator	Pass	
6.3.268	PSTN to IP-DECT, Calling Party Name	Calling Name presented at terminator	Pass	
6.3.269	Multiline IP-DECT (single line presented, others not) to IP-DECT Line Presented (Calling party)	Calling Line ID presented at terminator	N/A	Multiline is not supported by IP-DECT
6.3.270	Multiline IP-DECT (single line presented, others not) IP-DECT to IP-DECT Name Presented (Calling Party)	Calling Name presented at terminator	N/A	Multiline is not supported by IP-DECT
6.3.271	Multiline IP-DECT (single line presented, others not) IP-DECT to IP-DECT line and Name Presented (Calling Party)	Calling Line ID and Calling Name presented at terminator	N/A	Multiline is not supported by IP-DECT
6.3.272	Multiline IP-DECT (single line presented, others not) IP-DECT to IP-DECT Line restricted (Calling Party)	Calling Line ID <i>not</i> presented at terminator	N/A	Multiline is not supported by IP-DECT
6.3.273	Multiline IP-DECT (single line presented, others not) IP-DECT to IP-DECT Name restricted (Calling Party)	Calling Name <i>not</i> presented at terminator	N/A	Multiline is not supported by IP-DECT

Test Case	Description	Expected Result	Pass/Fail	Comments
6.3.274	Multiline IP-DECT (single line presented, others not) IP-DECT to IP-DECT Line and Name restricted (Calling Party)	Calling Line ID and Calling Name <i>not</i> presented at terminator	N/A	Multiline is not supported by IP-DECT
6.3.275	Call Forward (IP-DECT to IP-DECT2, forwarded to IP-DECT3)	Calling Name presented at IP-DECT3	Pass	
6.3.276	Call Transfer (IP-DECT to IP-DECT2, originator transfer to IP-DECT3)	Calling Name presented at IP-DECT3	Pass	
6.3.277	Call Transfer (IP-DECT to IP-DECT2, terminator transfer to IP-DECT3)	Calling Name presented at IP-DECT3	Pass	
Multiple Lines per Phone				
6.3.278	IP-DECT1 line 1 calls IP-DECT2 line 1, IP-DECT1 line 2 calls IP-DECT2 line 2, etc. (all IP-DECT1 lines occupied). Alternate between calls.	2-way audio on each call. Held calls receive MOH. Connected Line ID and Name display reflects current call.	N/A	Multiline is not supported by IP-DECT
6.3.279	IP-DECT line 1 calls CSP, IP-DECT line 2 calls CSP, etc. (all IP-DECT1 lines occupied). Alternate between calls.	2-way audio on each call. Held calls receive MOH. Connected Line ID and Name display reflects current call.	N/A	Multiline is not supported by IP-DECT
6.3.280	IP-DECT line 1 calls CSIPP, IP-DECT line 2 calls CSIPP, etc. (all IP-DECT1 lines occupied). Alternate between calls.	2-way audio on each call. Held calls receive MOH. Connected Line ID and Name display reflects current call.	N/A	Multiline is not supported by IP-DECT
6.3.281	IP-DECT2 calls IP-DECT1 line 1, CSP	2-way audio on each call. Held calls	N/A	Multiline is not supported by IP-DECT

Test Case	Description	Expected Result	Pass/Fail	Comments
	calls IP-DECT1 line 2, CSIPP calls IP-DECT1 line 3, PSTN calls IP-DECT1 line 4. Alternate between calls. All originators release.	receive MOH. Calling Line ID and Name display reflects current call. All calls properly released.		.
6.3.282	IP-DECT1 line 1 calls IP-DECT2, IP-DECT1 line 2 calls CSP, IP-DECT1 line 3 calls CSIPP, IP-DECT1 line 4 calls PSTN. Alternate between calls. All originators release.	2-way audio on each call. Held calls receive MOH. Connected Line ID and Name display reflects current call. All calls properly released.	N/A	Multiline is not supported by IP-DECT .
6.3.283	Line Busy: CFWD Busy Line 1 to Line 2, CFWD Busy Line 2 to Line 3, Line 1 in call with Line 2, CSP calls Line 1	2-way audio between CSP and Line 3.	N/A	Multiline is not supported by IP-DECT .
6.3.284	CSP calls IP-DECT line 1. CSIPP calls IP-DECT line 2. Place line 1 on hold, answer line 2. Bring line 1 into conference.	3-way audio between parties.	N/A	Multiline is not supported by IP-DECT .
6.3.285	CSP calls IP-DECT line 1. Blind transfer to line 2. Pick up line 2.	Line 1 properly released. 2-way audio with Line 2.	N/A	Multiline is not supported by IP-DECT .
6.3.286	MWI – Single line: leave VMAIL on line 2, retrieve and delete line 2 VMAIL	Line 2 message waiting is indicated, indicator cleared when VMAIL deleted	N/A	Multiline is not supported by IP-DECT .
6.3.287	MWI – All lines: leave VMAIL on all lines, retrieve and delete each	MWI consistent with voice mail state per line.	N/A	Multiline is not supported by IP-DECT .

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Test Case	Description	Expected Result	Pass/Fail	Comments
6.3.288	IP-DECT1 to IP-DECT2, IP-DECT3 Call Forking – IP-DECT2 Answers	2-way audio, IP-DECT3 ring stop	N/A	IP-DECT does not support call Forking
6.3.289	IP-DECT1 to IP-DECT2, IP-DECT3 Call Forking – IP-DECT3 Answers	2-way audio, IP-DECT2 ring stop	N/A	IP-DECT does not support call Forking
6.3.290	IP-DECT1 to IP-DECT2, CSIPP Call Forking – IP-DECT2 Answers.	2-way audio, CSIPP ring stop	N/A	IP-DECT does not support call Forking
6.3.291	IP-DECT1 to IP-DECT2, CSIPP Call Forking – CSIPP Answers.	2-way audio, IP-DECT2 ring stop	N/A	IP-DECT does not support call Forking
6.3.292	IP-DECT1 to IP-DECT2, CSP Call Forking – IP-DECT2 Answers.	2-way audio, CSP ring stop	N/A	IP-DECT does not support call Forking
6.3.293	IP-DECT1 to IP-DECT2, CSP Call Forking – CSP Answers.	2-way audio, IP-DECT2 ring stop	N/A	IP-DECT does not support call Forking
6.3.294	IP-DECT1 to IP-DECT2, IP-DECT3 Call Forking, Race condition– IP-DECT2 and IP-DECT3 Answer	2-way audio, other phone ring stop	N/A	IP-DECT does not support call Forking
6.3.295	IP-DECT1 to IP-DECT2, CSIPP Call Forking, Race condition– IP-DECT2 and CSIPP Answer	2-way audio, other phone ring stop	N/A	IP-DECT does not support call Forking
6.3.296	IP-DECT1 to IP-DECT2, CSP Call Forking, Race condition– IP-DECT2	2-way audio, other phone ring stop	N/A	IP-DECT does not support call Forking

Test Case	Description	Expected Result	Pass/Fail	Comments
	and CSP Answer			
6.3.297	IP-DECT1 to IP-DECT2, IP-DECT3 Call Forking –IP-DECT2 CFWD all to IP-DECT3. IP-DECT3 Answers	Only IP-DECT3 rings, 2-way audio IP-DECT1 to IP-DECT3	N/A	IP-DECT does not support call Forking
6.3.298	IP-DECT1 to IP-DECT2, IP-DECT3 Call Forking –IP-DECT2 Busy. IP-DECT3 Answers	Only IP-DECT3 rings, 2-way audio IP-DECT1 to IP-DECT3	N/A	IP-DECT does not support call Forking
6.3.299	Call Forking – Multiline IP-DECT	Two lines on IP-DECT ring, 2-way audio on answered line, ring stop on other line	N/A	IP-DECT does not support call Forking
6.3.300	Call Forking – Multicall IP-DECT (Call waiting)	Call waiting indication on in-use line, 2-way audio on answered line, call waiting indication ends when call answered	N/A	IP-DECT does not support call Forking
Message Waiting Indicator				
6.3.301	Call IP-DECT, leave voice mail	MWI activated	Pass	
6.3.302	Retrieve only voice mail	MWI cleared	Pass	
6.3.303	Call IP-DECT, leave 2 voice mails, retrieve one, hang up, retrieve second voice mail, hang up	MWI activates with first voice mail, stays active after first retrieve, clears after second retrieve	Pass	
6.3.304	Active call, second inbound call goes to VM, leave voice mail	MWI activates while in call	Pass	
Speed Dial				
6.3.305	Speed dial max digits	INVITE sent with all	Pass	

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Test Case	Description	Expected Result	Pass/Fail	Comments
	(25)	25 digits		
6.3.306	Configure and use a speed dial assigned to a 25 digit number, with external access number prefix (9).	INVITE sent with all digits	Pass	
6.3.307	Speed dial min digits (4 digit ext):	INVITE sent with all digits	Pass	
6.3.308	Configure and use a speed dial to a 4 digit number	INVITE sent with all digits	Pass	
6.3.309	Speed dial no entry	Call does not originate	Pass	
6.3.310	Max Speed dial entries. Use first and last entries, and one other	All speed dial entries populated and usable	Pass	
6.3.311	Exceed Max Speed Dial entries.	Entry n+1 rejected, all other entries remain intact and usable	N/A	
6.3.312	Re-assign existing speed dial to new number (25 digit to 4 digit)	Number successfully changed and usable	Pass	
6.3.313	Delete Speed Dial Entry.	Number no longer usable. Remaining entries unchanged.	Pass	
6.3.314	Reset phone	Speed dial configuration persists through reset	N/A	
6.3.315	Power cycle phone	Speed dial configuration persists through power cycle	Pass	
Consultative Transfer & TLS/SRTP				
6.3.316	CSP calls DECT1, DECT1 calls DECT2, DECT1 XFERs to CSP	CSP receives MOH, 2-way audio IP-DECT to IP-DECT1, IP-	Pass	

Test Case	Description	Expected Result	Pass/Fail	Comments
		DECT2 properly released, 2-way audio IP-DECT2 to CSP		
6.3.317	CSIPP calls DECT1, DECT1 calls DECT2, DECT1 XFERs to CSIPP	CSIP receives MOH, 2-way audio IP-DECT1 IP-DECT2, IP-DECT properly released, 2-way audio IP-DECT2 CSIPP extension	Pass	
6.3.318	PSTN calls DECT1, DECT1 calls DECT2, DECT1 XFERs to PSTN	PSTN receives MOH, 2-way audio IP-DECT to IP-DECT2 , IP-DECT properly released, 2-way audio IP-DECT2 to PSTN	Pass	

6.4 System Control and Verification

These tests are executed to determine the impact on calls, the Communications Manager and the 3rd party application when combinations of the aforementioned fail by power failure or network connectivity problems. Testing robustness of the application through hardware and software fault insertion i.e. failover/failback.

Test Case	Description	Expected Result	Pass/Fail	Comments
Registration and Digest Authentication (Basic)				
6.4.1	IP-DECT Authenticated on Registration (name only) (Positive)	IP-DECT registers successfully	Pass	
6.4.2	IP-DECT Authenticated on Registration (name Only) (Negative)	IP-DECT registration rejected, retries	Pass	
6.4.3	IP-DECT Authenticated on	IP-DECT registers	Pass	

Test Case	Description	Expected Result	Pass/Fail	Comments
	Registration (name and password) (Positive)	successfully		
6.4.4	IP-DECT Authenticated on Registration (name and password) (Negative)	IP-DECT registration rejected, retries	Pass	
6.4.5	IP-DECT Authenticated on Origination	IP-DECT resends INVITE with Authorization header, successfully originates call	Pass	
6.4.6	IP-DECT Re-Registers before Registration Time Expires	Re-registration successful, IP-DECT can originate calls	Pass	
6.4.7	IP-DECT Responds to Keep-Alive	IP-DECT maintains registration	Pass	
6.4.8	Restart IP-DECT phone remotely	IP-DECT restarts and registers successfully	N/A	
6.4.9	IP-DECT Multiline registration	All lines register successfully and can originate calls	N/A	
6.4.10	Loses network connection then re-connected	IP-DECT can originate calls after registration	Pass	

6.5 SIP Endpoint Functionality Verification

These tests are executed to verify specific information about the third-party product to Cisco. This is in relation to the IVT Questionnaire supplied by the vendor

Test Case	Description	Expected Result	Pass/ Fail	Comments
Voice Codec Support				
6.5.1	G.711 μ -law		Pass	
6.5.2	G.711 A-law		Pass	
6.5.3	G.723		Pass	
6.5.4	G.729		Pass	
6.5.5	Packetization period		Pass	
6.5.6	Codec negotiation		Pass	
6.5.7	Midcall codec renegotiation		N/A	
General Phone Functions				
6.5.8	Phone display (missed calls, called numbers, received calls)		Pass	
6.5.9	All visible buttons and soft keys function as labeled		Pass	
6.5.10	User configuration options		N/A	
General Dial Services				
6.5.11	Redial simple		Pass	
6.5.12	Last Call Return		Pass	
SRTP				
6.5.13	Configure SRTP on CUCM IP-DECT to SCCP phone		Pass	
6.5.14	IP-DECT to SIP phone		Pass	

Test Case	Description	Expected Result	Pass/Fail	Comments
6.5.15	SCCP to IP-DECT		Pass	
6.5.16	SIP to IP-DECT		Pass	

6.6 Support for SIP-based FRC's and Drafts

The goal of this section is to verify specific features and functions based on SIP related RFCs and draft specifications. These tests only apply to those features that are supported.

All calls should stay connected for at least the duration of the "session" timer.

Test Case	Description	Expected Result	Pass/Fail	Comments
Diversion Header Indication Support				
6.6.1	ISDN to SIP, GW sends INVITE with Diversion info, CFU		Pass	
6.6.2	ISDN to SIP, GW sends INVITE with Diversion info, CFTOD		N/A	CFTOD not available
6.6.3	ISDN to SIP, GW sends INVITE with Diversion info, CFB		Pass	
6.6.4	ISDN to SIP, GW sends INVITE with Diversion info, CFNA		Pass	
6.6.5	ISDN to SIP, GW sends INVITE with Diversion info, CFUNV		N/A	CFUNV not available
6.6.6	SIP to ISDN, Call Manger sends INVITE with Diversion info, CFU		Pass	

Test Case	Description	Expected Result	Pass/Fail	Comments
6.6.7	SIP to ISDN, CallManger sends INVITE with Diversion info, CFTOD		N/A	CFTOD not available
6.6.8	SIP to ISDN, CallManger sends INVITE with Diversion info, CFB		Pass	
6.6.9	SIP to ISDN, CallManger sends INVITE with Diversion info, CFNA		Pass	
6.6.10	SIP to ISDN, CallManger sends INVITE with Diversion info, CFUNV		N/A	CFUNV not available
Privacy Headers, Remote-Party-ID Headers				
6.6.11	PSTN to IP-DECT, GW sends INVITE with Remote-Party-ID Header		Pass	
6.6.12	IP-DECT to PSTN, GW sends INVITE with Remote-Party-ID Header		Pass	

6.7 Reliability and Stability

The vendor's product will be tested for general products reliability, stability and redundancy capabilities. Tests will verify the ability of the product to support Communications Manager redundancy, architecture, and stability with repetitive calls (simultaneously or independent) in a constant manner with various hold times of up to 24 hours without any operational defects or loss of audio quality. The goal for these tests is to make sure the phone has some mechanism that in case of a "SUB" failure, it can re-register to the other "SUB", without any manual intervention.

Test Case	Description	Expected Result	Pass/Fail	Comments
Primary Call Control Failure				
6.7.1	IP-DECT Registers with secondary server when the primary is unavailable		Pass	
6.7.2	IP-DECT re-Registered when primary is back in service		Pass	
6.7.3	Multi-line IP-DECT Registers with secondary server when the primary is unavailable		N/A	
6.7.4	Multi-line IP-DECT re-Registered when primary is back in service		N/A	
6.7.5	Basic call, IP-DECT uses secondary server when primary is unavailable		Pass	
6.7.6	Call to PSTN using secondary server when primary is unavailable		Pass	
6.7.7	Call from PSTN, call is terminated by secondary when primary is unavailable		Pass	
6.7.8	Active call, failover occurs		Pass	
6.7.9	Failover occurs during call setup		Pass	
6.7.10	IP-DECT Registers with SRST server when the CCM is unavailable		N/A	SRST Not supported

Test Case	Description	Expected Result	Pass/Fail	Comments
6.7.11	IP-DECT re-Registered when CCM is back on service		N/A	
6.7.12	Basic call, IP-DECT uses SRST server when CCM is unavailable		N/A	
6.7.13	Call to PSTN using SRST server when CCM is unavailable		N/A	
6.7.14	Call from PSTN, call is terminated by SRST when CCM is unavailable		N/A	
6.7.15	Active call, failover occurs		N/A	
Recovery from Loss of Power				
6.7.16	Remove power from IP-DECT with active call	Call lost, device recovers and can originate / terminate new calls when power restored without test engineer intervention	Pass	
Recovery from Loss of Uplink Connectivity				
6.7.17	Network Bounce – IP-DECT idle	LAN connection loss/recovery within 10 seconds	Pass	
6.7.18	Network outage – IP-DECT idle	LAN connection loss/recovery within 3 minutes	Pass	
6.7.19	Network Bounce – Multi-line IP-DECT	LAN connection loss/recovery within 10 seconds	N/A	IP-DECT HS not supports multiple lines
6.7.20	Network outage – Multi-line IP-DECT	LAN connection loss/recovery within 3 minutes	N/A	

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Test Case	Description	Expected Result	Pass/Fail	Comments
6.7.21	Network Bounce – IP-DECT in-call	LAN connection loss/recovery within 10 seconds	Pass	
6.7.22	Network outage – IP-DECT in-call	LAN connection loss/recovery within 3 minutes	Pass	
6.7.23	Network Bounce – IP-DECT with call on-hold	LAN connection loss/recovery within 10 seconds	Pass	
6.7.24	Network outage – IP-DECT with call on-hold	LAN connection loss/recovery within 3 minutes	Pass	
6.7.25	Network Bounce – IP-DECT in ring state	LAN connection loss/recovery within 10 seconds	Pass	Phone keeps ringing If the call is answered the 200 OK is not received
6.7.26	Network outage – IP-DECT in ring state	LAN connection loss/recovery within 3 minutes	Pass	Phone keeps ringing

7 ASCOM Three-party services, In-Call/Out-of-Call Menu

7.1 Portable menu – Conferencing Main, add and remove participants

Test Case	Description	Expected Result	Pass/Fail	Comments
7.1	To verify that it's possible to start a conference call and that participants can be added or leave conference call		Pass	Not possible to remove participants from the originator. Participants can drop the call.

Purpose

To verify that it's possible to start a conference call and that participants can be added or leave conference call.

Requirements

IPDECTR5.1-01.00020-00 Conferencing

IPDECTR5.1-01.00021-00 Conference Tone

IPDECTR5.1-01.00022-00 Remove last conference participant

Preconditions and configuration

- General pre-conditions.
- Ascom IP-DECT Devices are required (i.e. not Third-Party SIP Device)
- Requires Cisco license (Cisco version 7.1.5 or later)
- Conference call enabled and assigned a code in IP-DECT supplementary services
- 'Maximum Ad Hoc Conference' should be set to 5 in Cisco PBX
- Use the in-call menu item in the portable to hold and resume calls, to start a conference and add or remove participants from conference call.
- 5 portables subscribed – PP1, PP2, PP3, PP4, PP5

Test Instruction

Step	Action	Expected result
1	PP1 call PP2. PP2 must answer.	Call is connected
2	PP1 put PP2 on hold and call PP3. PP3 must answer.	Call is connected
3	Let PP1 start a CUCM hosted conference.	<ul style="list-style-type: none"> • PP1, PP2 and PP3 are added to a conference call. • Verify that a conference add warning tone is played to the participants. • Verify that that conversation can be made. • Voice quality must be acceptable. • Verify that PP1, PP2 and PP3 displays correct called party information.

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4	Let PP1 put conference call on hold and call PP4. PP4 must answer.	Call is connected
5	Let PP1 add PP4 to conference call	<ul style="list-style-type: none"> • PP4 is added to conference call. • Verify that a conference add warning tone is played to the participants. • Verify that conversation can be made in all directions. • Voice quality must be acceptable. • Verify that PP1, PP2, PP3 and PP4 displays correct called party information.
6	Let PP1 put conference call on hold and call PP5. PP5 must answer.	Call is connected
7	Let PP1 add PP5 to conference call	<ul style="list-style-type: none"> • PP5 is added to conference call. • Verify that a conference add warning tone is played to the participants. • Verify that that conversation can be made in all directions. • Voice quality must be acceptable. • Verify that PP1, PP2, PP3, PP4 and PP5 displays correct called party information.
8	Let PP1 remove the last added conference participant (PP5)	<ul style="list-style-type: none"> • Verify that a conference remove warning tone is played to the participants. • PP5 is removed from conference call. • Call is disconnected on PP5 side. • Verify that that conversation can be made in all directions.
9	Let PP1 remove the last added conference participant (PP4)	<ul style="list-style-type: none"> • Verify that a conference remove warning tone is played to the participants. • PP4 is removed from conference call. • Call is disconnected on PP4 side. • Verify that that conversation can be made in all directions.
10	Let PP1 once again put conference call on hold, call PP4 and add it to conference call.	As stated
11	Let PP4 hang up	<ul style="list-style-type: none"> • Verify that a conference remove warning tone is played to the participants. • PP4 is removed from conference call. • Call is disconnected on PP4 side. • Verify that that conversation can be made in all directions.
12	Let PP3 hang up	<ul style="list-style-type: none"> • Verify that a conference remove warning tone is played to the participants. • Verify that call between PP1 and PP2 is still

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		connected but conference call is ended.
13	In Cisco PBX set the 'Maximum Ad Hoc Conference' to 3 and save	<ul style="list-style-type: none"> As stated
14	Let PP1 set up a conference call with PP2 and PP3	<ul style="list-style-type: none"> Conference active
15	Try to add a fourth member to the conference	<ul style="list-style-type: none"> Should not be accepted, since limit is set to 3 in Cisco
16	Repeat test with PP1 as fixed phone	<ul style="list-style-type: none"> Outcome as previous steps

7.2 Portable menu – Conferencing, advanced Ad Hoc Conference

Test Case	Description	Expected Result	Pass/Fail	Comments
7.2	To verify that if the organizer leaves the conference, the other members should be able to add more members to conference call.		Pass	

Purpose

To verify that if the organizer leaves the conference, the other members should be able to add more members to conference call.

Requirements

IPDECTR5.1-01.00020-00 Conferencing
IPDECTR5.1-01.00021-00 Conference Tone

Preconditions and configuration

General pre-conditions.

Ascom IP-DECT Devices are required (Not Third-Party SIP Device)

Requires Cisco license (Cisco version 7.1.5 or later)

Conference call enabled and assigned a code in IP-DECT supplementary services

'Advanced Ad Hoc Conference Enabled' should be set to True in Cisco PBX

Use the in-call menu item in the portable to hold and resume calls, to start a conference and add or remove participants from conference call.

4 portables subscribed – PP1, PP2, PP3, PP4

Test Instruction

Step	Action	Expected result
1	PP1 call PP2. PP2 must answer.	Call is connected
2	Let PP1 put PP2 on hold and call	Call is connected

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	PP3. PP3 must answer.	
3	Let PP1 start a CUCM hosted conference.	<ul style="list-style-type: none"> • PP1, PP2 and PP3 are added to a conference call. • Verify that a conference add warning tone is played to the participants. • Verify that that conversation can be made. • Voice quality must be acceptable. • Verify that PP1 and PP2 displays correct called party information.
4	Let PP1 put conference call on hold and call PP4. PP4 must answer.	Call is connected
5	Let PP1 add PP4 to conference call	<ul style="list-style-type: none"> • PP4 is added to conference call. • Verify that a conference add warning tone is played to the participants. • Verify that that conversation can be made in all directions. • Voice quality must be acceptable. • Verify that PP1, PP2, PP3 and PP4 displays correct called party information.
6	Let PP1 hang up.	<ul style="list-style-type: none"> • Verify that a conference remove warning tone is played to the participants. • PP1 is removed from conference call. • Call is disconnected on PP1 side. • Verify that that conversation can be made in all directions.
7	Let PP2 put conference on hold and call PP1. PP1 must answer.	Call is connected
8	Let PP2 add PP1 to conference call	<ul style="list-style-type: none"> • PP1 is added to conference call. • Verify that a conference add warning tone is played to the participants. • Verify that that conversation can be made in all directions. • Voice quality must be acceptable. • Verify that PP1, PP2, PP3 and PP4 displays correct called party information.
9	Let portables end conference call by all hanging up.	Conference call is ended.
10	Repeat test with PP1 as fixed phone	Outcome as previous steps

7.3 Portable menu – Meet me Conferencing

Test Case	Description	Expected Result	Pass/Fail	Comments
7.3	To verify that it's possible to start a conference call and that participants can call the conference number and be added automatically.		Pass	

Purpose

To verify that it's possible to start a conference call and that participants can call the conference number and be added automatically.

Requirements

IPDECTR5.1-01.00020-00 Conferencing
 IPDECTR5.1-01.00021-00 Conference Tone
 Preconditions and configuration

General pre-conditions.

Ascom IP-DECT Devices are required (i.e. not Third-Party SIP Device)
 Requires Cisco license (Cisco version 7.1.5 or later)
 Conference call enabled and assigned a code in IP-DECT supplementary services
 'Maximum Ad Hoc Conference' should be set to 5 in Cisco PBX
 The conferencing numbers that can be used can be found in the in 'Call routing'/'Meet me number plan/pattern' in Cisco PBX
 Use the out-of-call menu item in the portable to activate a conference call
 5 portables subscribed – PP1, PP2, PP3, PP4, PP5

Test Instruction

Step	Action	Expected result
1	Let PP1 start a conferencing call from the out-of-call menu.	Conference call started
2	Let PP2 call the conference number	<ul style="list-style-type: none"> • PP1 and PP2 are added to a conference call. • Verify that a conference add warning tone is played to the participants. • Verify that that conversation can be made. • Voice quality must be acceptable. • Verify that PP1, PP2 and PP3 displays correct called party information.
3	Let PP3 call the conference number	<ul style="list-style-type: none"> • PP1, PP2 and PP3 are participating in the conference call. • Verify that a conference add warning tone is played to the participants. • Verify that that conversation can be made. • Voice quality must be acceptable. • Verify that PP1, PP2 and PP3 displays correct called party information.

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4	Hang up on PP1	<ul style="list-style-type: none"> • Call is disconnected • Verify that conference call is still active for PP2 and PP3
5	Let PP1 call the conference number again	<ul style="list-style-type: none"> • PP1, PP2 and PP3 are participating in the conference call. • Verify that a conference add warning tone is played to the participants. • Verify that that conversation can be made. • Voice quality must be acceptable. • Verify that PP1, PP2 and PP3 displays correct called party information.
6	Hang up on PP1 and PP2	<ul style="list-style-type: none"> • Calls are disconnected • Verify that conference call is still active for PP3
7	Hang up on PP3	<ul style="list-style-type: none"> • Call is disconnected • Conference is ended
8	Repeat test with PP1 as fixed phone	<ul style="list-style-type: none"> • Outcome as previous steps

7.4 Portable menu – CCBS

Test Case	Description	Expected Result	Pass/Fail	Comments
7.4	To verify that portable receives a call back when initiating the call back functionality in the in-call menu		Pass	

Purpose

To verify that portable receives a call back when initiating the call back functionality in the in-call menu

Requirements

IPDECTR5.1-01.00030-00 CCBS
 IPDECTR5.1-01.00032-00 Call Back Confirmation
 IPDECTR5.1-01.00033-00 Execution of Call Back

Preconditions and configuration

- General pre-conditions.
- If Ascom IP-DECT Devices are required during test, Cisco Licenses are needed (Cisco version 7.1.5 or later)
- If Third-Party SIP Device are required during test, Cisco licenses are not needed
- CCBS enabled in IP-DECT supplementary services
- Ensure that CW is inactive
- Use the in-call/out-of-call menu item to initiate call back
- 2 portables subscribed – PP1, PP2



Test Instruction

Step	Action	Expected result
1	Let PP1 call PP2 when PP2 is busy in another call	As stated
2	Let PP1 initiate the call back functionality	Verify that PP1 receives a call back confirmation message (and alert)
3	Let PP2 end call and become idle	<ul style="list-style-type: none"> Verify that PP1 starts to alert and that a call back tone is played. Verify that correct calling party information is displayed in PP1
4	Let PP1 answer the call	<ul style="list-style-type: none"> Verify that PP2 receives a call back and starts to alert. Verify that correct calling party information is displayed in PP2
5	Let PP2 answer call	<ul style="list-style-type: none"> Call is connected and conversation can be made. Voice quality must be acceptable. Displays of portables show correct call party information.

Step	Action	Expected result
6	Repeat step 1-3 but this time decline the incoming call in step 4.	<ul style="list-style-type: none"> PP1 becomes idle Verify that PP2 does not receive a call back from PP1

Step	Action	Expected result
7	Repeat step 1-3 but this time do not answer the incoming call in step 4.	<ul style="list-style-type: none"> PP1 becomes idle after some time Verify that PP2 does not receive a call back from PP1
8	Repeat test with PP2 as fixed phone	Outcome as previous steps

7.5 Portable menu – CCNR

Test Case	Description	Expected Result	Pass/Fail	Comments
7.5	To verify that portable receives a call back when initiating the call back functionality in the in-call menu		Pass	

Purpose

To verify that portable receives a call back when initiating the call back functionality in the in-call menu

Requirements

IPDECTR5.1-01.00031-00 CCNR
 IPDECTR5.1-01.00032-00 Call Back Confirmation
 IPDECTR5.1-01.00033-00 Execution of Call Back

Preconditions and configuration

- General pre-conditions.
- If Ascom IP-DECT Devices are required during test, Cisco Licenses are needed (Cisco version 7.1.5 or later)
- If Third-Party SIP Device are required during test, Cisco licenses are not needed
- CCNR enabled in IP-DECT supplementary services
- Ensure that CW is inactive
- Use the in-call/out-of-call menu item to initiate call back
- 2 portables subscribed – PP1, PP2

Test Instruction

Step	Action	Expected result
1	Let PP1 call PP2. Do not answer on PP2.	As stated
2	Let PP1 initiate the call back functionality	Verify that PP1 receives a call back confirmation message (and alert)
3	Let PP2 call another portable and shortly after hang up to become idle (will trigger call to PP1)	<ul style="list-style-type: none"> • Verify that PP1 starts to alert and that a call back tone is played. • Verify that correct calling party information is displayed in PP1
4	Let PP1 answer the call	<ul style="list-style-type: none"> • Verify that PP2 receives a call back and starts to alert. • Verify that correct calling party information is displayed in PP2
5	Let PP2 answer call	<ul style="list-style-type: none"> • Call is connected and conversation can be made. • Voice quality must be acceptable. • Displays of portables show correct call party information.

Step	Action	Expected result
6	Repeat step 1-3 but this time decline the incoming call in step 4.	<ul style="list-style-type: none"> • PP1 becomes idle • Verify that PP2 does not receive a call back from PP1

Step	Action	Expected result
7	Repeat step 1-3 but this time do not answer the incoming call in step 4.	<ul style="list-style-type: none"> • PP1 becomes idle after some time • Verify that PP2 does not receive a call back from PP1
8	Repeat test with PP2 as fixed phone	Outcome as previous steps

7.6 Portable menu – Repeated Call Back

Test Case	Description	Expected Result	Pass/Fail	Comments
7.6	To verify that portable receives a call back when initiating the call back functionality in the in-call menu		Pass	

Purpose

To verify that portable receives a call back when initiating the call back functionality in the in-call menu

Requirements

IPDECTR5.1-01.00030-00 CCBS

IPDECTR5.1-01.00032-00 Call Back Confirmation

IPDECTR5.1-01.00033-00 Execution of Call Back

Preconditions and configuration

- General pre-conditions.
- If Ascom IP-DECT Devices are required during test, Cisco Licenses are needed (Cisco version 7.1.5 or later)
- If Third-Party SIP Device are required during test, Cisco licenses are not needed
- CCBS enabled in IP-DECT supplementary services
- Ensure that CW is inactive
- Use the in-call/out-of-call menu item to initiate call back
- 2 portables subscribed – PP1, PP2

Test Instruction

Step	Action	Expected result
1	Let PP1 call PP2 when PP2 is busy in another call	As stated
2	Let PP1 initiate the call back functionality	Verify that PP1 receives a call back confirmation message (and alert)
3	Let PP2 end call and become idle	<ul style="list-style-type: none"> • Verify that PP1 starts to alert and that a call back tone is played. • Verify that correct calling party information is displayed in PP1
4	Let PP2 be busy in another call once again	As stated
5	Let PP1 answer the call	<ul style="list-style-type: none"> • Verify that PP2 does not receive a call back and that a busy tone is heard in PP1 • Verify that correct calling party information is displayed in PP1
6	Let PP1 initiate the call back functionality	Verify that PP1 receives a call back confirmation message (and alert)
7	Let PP2 end call and become idle	<ul style="list-style-type: none"> • Verify that PP1 starts to alert and that a call back

		tone is played.
		<ul style="list-style-type: none"> Verify that correct calling party information is displayed in PP1
8	Let PP1 answer the call	<ul style="list-style-type: none"> Verify that PP2 receives a call back and starts to alert. Verify that correct calling party information is displayed in PP2
9	Let PP2 answer call	<ul style="list-style-type: none"> Call is connected and conversation can be made. Voice quality must be acceptable. Displays of portables show correct call party information.
10	Let portables end call	Call is ended
11	Repeat test with PP2 as fixed phone	Outcome as previous steps

7.7 Portable menu – New Call Back cancel old

Test Case	Description	Expected Result	Pass/Fail	Comments
7.7			Pass	

Purpose

To verify that portable receives a call back when initiating the call back functionality in the in-call menu. Furthermore, if portable initiate call back and then initiate it again against a new handset, the call back against the first handset is cancelled.

Requirements

IPDECTR5.1-01.00030-00 CCBS
IPDECTR5.1-01.00032-00 Call Back Confirmation
IPDECTR5.1-01.00033-00 Execution of Call Back

Preconditions and configuration

- General pre-conditions.
- If Ascom IP-DECT Devices are required during test, Cisco Licenses are needed (Cisco version 7.1.5 or later)
- If Third-Party SIP Device are required during test, Cisco licenses are not needed
- CCBS enabled in IP-DECT supplementary services
- Ensure that CW is inactive
- Use the in-call/out-of-call menu item to initiate call back
- 3 portables subscribed – PP1, PP2, PP3

Test Instruction

Step	Action	Expected result
1	Let PP1 call PP2 when PP2 is busy in another call	As stated
2	Let PP1 initiate the call back functionality	Verify that PP1 receives a call back confirmation message (and alert)

3	Let PP1 call PP3 when PP3 is busy in another call	As stated
4	Let PP1 initiate the call back functionality	Verify that PP1 receives a call back confirmation message (and alert)
5	Let PP2 end call and become idle	Verify that PP1 does not start to alert since call back is cancelled
6	Let PP3 end call and become idle	<ul style="list-style-type: none"> Verify that PP1 starts to alert and that a call back tone is played. Verify that correct calling party information is displayed in PP1
7	Let PP1 answer the call	<ul style="list-style-type: none"> Verify that PP3 receives a call back and starts to alert. Verify that correct calling party information is displayed in PP1
8	Let PP3 answer the call	<ul style="list-style-type: none"> Call is connected and conversation can be made. Voice quality must be acceptable. Displays of portables show correct call party information.
9	Let portables end call	Call is ended
10	Repeat test with PP2 as fixed phone	Outcome as previous steps

7.8 Portable menu – Cancel Call Back

Test Case	Description	Expected Result	Pass/Fail	Comments
7.8	To verify is possible to cancel an activated Call Back		Pass	

Purpose

To verify is possible to cancel an activated Call Back

Preconditions and configuration

- General pre-conditions.
- If Ascom IP-DECT Devices are required during test, Cisco Licenses are needed (Cisco version 7.1.5 or later)
- If Third-Party SIP Device are required during test, Cisco licenses are not needed
- Call Back enabled in IP-DECT supplementary services
- Ensure that CW is inactive
- Use the in-call/out-of-call menu item to initiate call back
- 2 portables subscribed – PP1, PP2

Test Instruction

Step	Action	Expected result
1.	Let PP1 call PP2 when PP2 is	As stated

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	busy in another call	
2.	Let PP1 initiate the call back functionality	Verify that PP1 receives a call back confirmation message (and alert)
3.	Let PP1 deactivate the Call Back by stating the code found in suppl. Serv. in IP-DECT	
4.	Let PP2 end call and become idle	<ul style="list-style-type: none"> Verify that PP1 does not start to alert since call back is cancelled
5.	Repeat test with PP2 as fixed phone	Outcome as previous steps

7.9 Portable menu – Abbreviated Dialing

Test Case	Description	Expected Result	Pass/Fail	Comments
7.9	To verify that it's possible to enter an abbreviated number and initiate a call to the number that matches the abbreviated number		N/A	Not implemented

Purpose

To verify that it's possible to enter an abbreviated number and initiate a call to the number that matches the abbreviated number

Requirements

IPDECTR5.1-01.00040-00 Abbreviated Dialing
IPDECTR5.1-01.00041-00 Abbreviated Number Configuration

Preconditions and configuration

- General pre-conditions.
- Ascom IP-DECT Devices are required during test
- Cisco Licenses are needed (Cisco version 7.1.5 or later)
- Abbreviated Dialing enabled in IP-DECT supplementary services
- Abbreviated number configured in Cisco PBX
- Use the in-call/out-of-call menu item to select the abbreviated number
- 2 portables subscribed – PP1, PP2

Test Instruction

Step	Action	Expected result
1	Let PP1 select out-of-call menu and select the abbreviated number belonging to PP2	PP2 starts alerting.

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2	Let PP2 answer call	<ul style="list-style-type: none"> • Call is connected and conversation can be made. • Voice quality must be acceptable. • Displays of portables show correct call party information.
3	End call	Call ended
4	Repeat test with PP2 as fixed phone	Outcome as previous steps

7.10 Portable menu – Call Park

Test Case	Description	Expected Result	Pass/Fail	Comments
7.10	To verify that it's possible to park an active call		Pass	CM does not notify to users, Cisco bug number:

Purpose

To verify that it's possible to park an active call

Requirements

- IPDECTR5.1-01.00060-00 Call Park
- IPDECTR5.1-01.00061-00 Call Park Confirmation
- IPDECTR5.1-01.00063-00 Call Park Retrieve

Preconditions and configuration

- General pre-conditions.
- Ascom IP-DECT Devices are required during test
- Cisco Licenses are needed (Cisco version 7.1.5 or later)
- Call Park enabled in IP-DECT supplementary services
- Call Park configured in Cisco PBX
- Use the in-call/out-of-call menu item to park a call
- 3 portables subscribed – PP1, PP2 and PP3

Test Instruction

Step	Action	Expected result
1	Let PP1 call PP2. PP2 must answer.	Call connected
2	Let PP1 park the active call with PP2	<ul style="list-style-type: none"> • Call is disconnected. • PP1 receives a popup display displaying information with the parking lot number usage. • PP2 hears music on hold and the park number is populated in the display
3	Let PP3 retrieve the parked call	<ul style="list-style-type: none"> • Call is connected and conversation can be made. • Voice quality must be acceptable.

		<ul style="list-style-type: none"> Displays of portables show correct call party information.
4	Let PP3 park the active call with PP2	<ul style="list-style-type: none"> Call is disconnected. PP3 receives a popup display displaying information with the parking lot number usage.
5	Let PP1 retrieve the parked call	<ul style="list-style-type: none"> Call is connected and conversation can be made. Voice quality must be acceptable. Displays of portables show correct call party information.
6	End call	Call ended
7	Let PP1 try to retrieve the call parked in step 4	Call cannot be connected since there is no call parked at that specific parking lot
8.	Repeat test with PP2 as fixed phone	Outcome as previous steps

7.11 Portable menu – Call Park during Call on Hold

Test Case	Description	Expected Result	Pass/Fail	Comments
7.11	To verify that it's possible to park an active call while another call is put on hold		Pass	

Purpose

To verify that it's possible to park an active call while another call is put on hold

Requirements

IPDECTR5.1-01.00060-00 Call Park
 IPDECTR5.1-01.00061-00 Call Park Confirmation
 IPDECTR5.1-01.00063-00 Call Park Retrieval
 IPDECTR5.1-01.00010-00 Hold and resume
 IPDECTR5.1-01.00011-00 Music on hold

Preconditions and configuration

- General pre-conditions.
- Ascom IP-DECT Devices are required during test
- Cisco Licenses are needed (Cisco version 7.1.5 or later)
- Call Park enabled in IP-DECT supplementary services
- Call Park configured in Cisco PBX
- Use the in-call/out-of-call menu item to park a call
- 4 portables subscribed – PP1, PP2, PP3 and PP4

Test Instruction

Step	Action	Expected result
1	Let PP1 call PP2. PP2 must	Call connected

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	answer.	
2	Let PP1 put call with PP2 on hold.	<ul style="list-style-type: none"> • PP2 is put on hold. • PP2 hears on hold music and the display indicates that it is on hold • Communication has been interrupted. Neither party can hear the other party.
3	Let PP1 call PP3. PP3 must answer.	Call connected
4	Let PP1 park the active call with PP3	<ul style="list-style-type: none"> • Call is disconnected. • PP1 receives a popup display displaying information with the parking lot number usage. • PP3 hears music on hold and the park number is populated in the display
5	Let PP1 retrieve the call on hold (PP2)	<ul style="list-style-type: none"> • Call is connected between PP1 and PP2 and conversation can be made. • Displays of portables show correct call party information.
6	Let PP4 retrieve the parked call	<ul style="list-style-type: none"> • Call is connected with PP3 and conversation can be made. • Voice quality must be acceptable. • Displays of portables show correct call party information.
7	End calls on all portables	Calls ended
8	Repeat test with PP3 as fixed phone	Outcome as previous steps

7.12 Portable menu – Directed Call Park

Test Case	Description	Expected Result	Pass/Fail	Comments
7.12	To verify that it's possible to park a call at a specified parking lot. This is not possible to do with any call on hold		Pass	

Purpose

To verify that it's possible to park a call at a specified parking lot. This is not possible to do with any call on hold.

Requirements

- IPDECTR5.1-01.00062-00 Directed Call Park
- IPDECTR5.1-01.00063-00 Call Park Retrieve

Preconditions and configuration

- General pre-conditions.
- If Ascom IP-DECT Devices are required during test, Cisco Licenses are needed (Cisco version 7.1.5 or later)



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- If Third-Party SIP Devices are required during test, Cisco licenses are not needed
- Call Park configured in Cisco PBX (Directed Call Park Configuration)
- Use the in-call/out-of-call menu item to park a call
- 3 portables subscribed – PP1, PP2 and PP3.

Test Instruction

Step	Action	Expected result
1	Let PP1 call PP2. PP2 must answer.	<ul style="list-style-type: none"> • Call connected
2	Let PP1 put the call with PP2 on hold by manually selecting the item in the in-call menu.	<ul style="list-style-type: none"> • PP2 hears music on hold
3	Let PP1 call a specific parking lot number (allowed sequence should be stated in the PBX).	<ul style="list-style-type: none"> • Call with specific parking lot is connected
4	Transfer call with PP2 to the specified parking lot number by pressing R4.	<ul style="list-style-type: none"> • Call with PP1 is disconnected and handset becomes idle • PP2 has been parked. Parking lot number stated in PP2 display
	Let PP3 retrieve the parked call by stating the same parking lot number as in step 3 (*Retrieval prefix + parking lot number).	<ul style="list-style-type: none"> • Call is connected with PP2 and conversation can be made. • Voice quality must be acceptable. • Displays of portables show correct call party information.
4	End calls on all portables	Calls ended
5	Repeat test with PP2 as fixed phone	Outcome as previous steps

7.13 Portable menu – Call Pickup Own Group (non-auto mode)

Test Case	Description	Expected Result	Pass/Fail	Comments
7.13	To verify that it's possible to pickup a call belonging to the same Call Pickup Group.		Pass	Ascom devices are not being notified. Patch needed to CUCM. Bug number form Cisco: CSCtz41502

Purpose

To verify that it's possible to pickup a call belonging to the same Call Pickup Group.

Requirements

- IPDECTR5.1-01.00050-00 Own Group Pickup
- IPDECTR5.1-01.00051-00 Non-auto Mode Pickup

Preconditions and configuration

- General pre-conditions.
- Ascom IP-DECT Devices are required during test
- Cisco Licenses are needed (Cisco version 7.1.5 or later)
- Call Pickup enabled in IP-DECT supplementary services
- 3 portables subscribed – PP1, PP2, PP3
- Use the in-call/out-of-call menu item
- All portables added to same group in Cisco PBX

Test Instruction

Step	Action	Expected result
1	Let PP1 call PP2. PP2 must not answer.	<ul style="list-style-type: none"> • PP2 starts alerting. • After a while a popup display message with information about the call is presented on PP3 together with an audio indication.
2	Let PP3 pickup the call with PP1	<ul style="list-style-type: none"> • Call is redirected to PP3 and starts to alert with correct calling party information.
3	Answer the incoming call on PP1	<ul style="list-style-type: none"> • Call is connected with PP1 and conversation can be made. • Voice quality must be acceptable. • Displays of portables show correct call party information.
4	End call	Call is disconnected
5	Let PP1 call PP2. PP2 must not answer.	PP2 starts alerting.
	Let PP3 pickup the call with PP1 before the popup display message is presented	Call is redirected to PP3 and starts to alert with correct calling party information.
6	Answer the incoming call on PP1	<ul style="list-style-type: none"> • Call is connected with PP1 and conversation can be made. • Voice quality must be acceptable. • Displays of portables show correct call party information.
7	End call	Call is disconnected
8	Repeat test with PP1 as fixed phone	Outcome as previous steps

7.14 Portable menu – Call Pickup Group (non-auto mode)

Test Case	Description	Expected Result	Pass/Fail	Comments
7.14	To verify that it's possible to pickup a call belonging to a different Call Pickup Group		Pass	

Purpose

To verify that it's possible to pickup a call belonging to a different Call Pickup Group

Requirements

IPDECTR5.1-01.00053-00 Group Pickup
IPDECTR5.1-01.00051-00 Non-auto Mode Pickup

Preconditions and configuration

- General pre-conditions.
- Ascom IP-DECT Devices are required during test
- Cisco Licenses are needed (Cisco version 7.1.5 or later)
- Call Pickup enabled in IP-DECT supplementary services
- Use the in-call/out-of-call menu item
- 3 portables subscribed – PP1, PP2, PP3
- PP1 and PP2 added to Group 1 in Cisco PBX
- PP3 added to Group 2 in Cisco PBX

Test Instruction

Step	Action	Expected result
1	Let PP1 call PP2. PP2 must not answer.	PP2 starts alerting.
2	Let PP3 pickup the call with PP1 (enter Group Number in out-of-call Menu)	Call is redirected to PP3 and starts to alert with correct calling party information.
3	Answer the incoming call on PP1	<ul style="list-style-type: none"> • Call is connected with PP1 and conversation can be made. • Voice quality must be acceptable. • Displays of portables show correct call party information.
4	End call	Call is disconnected
5	Repeat test with PP1 as fixed phone	Outcome as previous steps

7.15 Portable menu – Call Pick up Other Group (non-auto mode)

Test Case	Description	Expected Result	Pass/Fail	Comments
7.15			Pass	

Purpose

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To verify that it's possible to pickup a call belonging to a Call Pickup Group associated with your own group.

Requirements

IPDECTR5.1-01.00054-00 Other Group Pickup
IPDECTR5.1-01.00051-00 Non-auto Mode Pickup

Preconditions and configuration

- General pre-conditions.
- Ascom IP-DECT Devices are required during test
- Cisco Licenses are needed (Cisco version 7.1.5 or later)
- Call Pickup enabled in IP-DECT supplementary services
- 3 portables subscribed – PP1, PP2, PP3
- Use the in-call/out-of-call menu item
- PP1 and PP2 added to Group 1 in Cisco PBX
- PP3 added to Group 2 in Cisco PBX
- Make sure Group 1 and Group 2 are associated groups in Cisco PBX

Test Instruction

Step	Action	Expected result
1	Let PP1 call PP2. PP2 must not answer.	PP2 starts alerting.
2	Let PP3 pickup the call with PP1 (enter Group Number in out-of-call Menu)	Call is redirected to PP3 and starts to alert with correct calling party information.
3	Answer the incoming call on PP1	<ul style="list-style-type: none">• Call is connected with PP1 and conversation can be made.• Voice quality must be acceptable.• Displays of portables show correct call party information.
4	End call	Call is disconnected
5	Repeat test with PP3 as fixed phone	Outcome as previous steps

7.16 Portable menu – Directed Call Pickup (non-auto group)

Test Case	Description	Expected Result	Pass/Fail	Comments
7.16			Pass	

Purpose

To verify that it's possible to pickup a call belonging to a Call Pickup Group associated with your own group. It should be possible to enter the number of the ringing phone and pickup the call from that number.

Requirements

IPDECTR5.1-01.00055-00 Directed Call Pickup
IPDECTR5.1-01.00051-00 Non-auto Mode Pickup



Preconditions and configuration

- General pre-conditions.
- Ascom IP-DECT Devices are required during test
- Cisco Licenses are needed (Cisco version 7.1.5 or later)
- Call Pickup enabled in IP-DECT supplementary services
- 3 portables subscribed – PP1, PP2, PP3
- Use the in-call/out-of-call menu item
- PP1 and PP2 added to Group 1 in Cisco PBX
- PP3 added to Group 2 in Cisco PBX
- Make sure Group 1 and Group 2 are associated groups in Cisco PBX

Test Instruction

Step	Action	Expected result
1	Let PP1 call PP2. PP2 must not answer.	PP2 starts alerting.
2	Let PP3 pickup the call with PP1 (enter number on the phone that is ringing in out-of-call Menu)	Call is redirected to PP3 and starts to alert with correct calling party information.
3	Answer the incoming call on PP1	<ul style="list-style-type: none"> • Call is connected with PP1 and conversation can be made. • Voice quality must be acceptable. • Displays of portables show correct call party information.
4	End call	Call is disconnected
5	Repeat test with PP3 as fixed phone	Outcome as previous steps

7.17 Portable menu – Auto Mode Pickup

Test Case	Description	Expected Result	Pass/Fail	Comments
7.17	To verify that it's possible to pick up a call in auto mode, i.e. to connect directly with the incoming call from portable		Pass	

Purpose

To verify that it's possible to pick up a call in auto mode, i.e. to connect directly with the incoming call from portable

Requirements

IPDECTR5.1-01.00052-00 Auto Mode Pickup

Preconditions and configuration



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- General pre-conditions.
- Ascom IP-DECT Devices are required during test
- Cisco Licenses are needed (Cisco version 7.1.5 or later)
- Auto mode has to be set in Cisco since non-auto mode is default
- Call Pickup enabled in IP-DECT supplementary services
- Use the in-call/out-of-call menu item
- 3 portables subscribed – PP1, PP2, PP3
- PP1, PP2 and PP3 added to Group 1 in Cisco PBX
-

Test Instruction

Step	Action	Expected result
1.	Let PP1 call PP2. PP2 must not answer.	PP2 starts alerting.
2.	Let PP3 pickup the call with PP1 (Auto Mode)	<ul style="list-style-type: none">• Call is connected with PP1 and conversation can be made.• Voice quality must be acceptable.• Displays of portables show correct call party information.
3.	End call	Call is disconnected
4.	Repeat test with PP1 as fixed phone	Outcome as previous steps