Test Report

# Detailed End Point IVT Test Plan and Report for Cisco Communications Manager 11 and Ascom IPDect phones



Test Date/ Result (Completed by Cisco or Authorized Test House)	04/28/16 - PASS
Partner Product Name	Ascom IPDECT
Partner Product Type	Wireless communication system
Partner Product Version #	Firmware 8.0
Cisco Product Name	сисм
Cisco Product Version	11.0.1.10000-10
API/Protocol(s) Used	SIP
Date Testing Completed	April 26th, 2016
IVT Contact Email	Johan Andrén / johan.andren@ascom.com

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# **Pre-Testing Information**

The purpose of this section is to gather information about the 3<sup>rd</sup> party Solution Partner Program (SPP) product being submitted for Interoperability Verification Testing (IVT) in support of receiving a Cisco Compatibility logo. The information collected in this section will be used to complete customization of test plan for the product integration with Cisco product(s).

This section must be completed thoroughly to ensure that products features and requirements are properly understood and reflected appropriately in the test plan. *The limits stated in this questionnaire will be tested. Anything (limits, functionality, interfaces) not reported in this document will not be supported.* 

### **IVT Pre-requisites**

The following prerequisites must be complete prior to submitting a request for testing:

- 1) Approved application in SPP for the product pairing being submitted for test.
  - a) Product Pairing = Cisco Product Major Version + Partner Product Major Version
  - b) Cisco Product Major Version must be generally available
  - c) Partner Product Major Version must be generally available
- 2) Any use of Cisco Intellectual Property (proprietary protocols or interface methods) must have been approved by Cisco and have appropriate agreements in place. This is not appliEPle to standard published integration methods. Questions regarding interface methods should be directed to Developer Services or your Cisco Partner Manager.

#### Submission Instructions

Provide the requested information on the following pages for the product being submitted for Interoperability Verification Testing (IVT).

Complete Current Test Request Information, Product Category, and Product Description for all product pairings (Cisco Product + Program Member Product) being submitted. Only requests with all required sections completed

# 1 Interoperability Verification Testing (IVT) Overview

### 1.1 Interoperability Verification Testing Requirement

Successful completion of Endpoint / USB Accessory IVT is required for Partner Products to be designated as "Cisco Compatible" and for Partner Products to be listed in the Cisco Solution Marketplace.

### 1.2 IVT Objectives

The IVT program's objective is to provide verification that 3rd party Partner product(s) meet the following criteria:

- Successfully Integrate and scale as defined by Cisco design guides and 3rd party product specifications
- Install and functionally operate/perform as indicated in collateral and specifications (from integration perspective only)
- Successfully integrate with Cisco products while <u>not adversely affecting</u> Cisco product operation or the integrated solution.
- Use only supported integration methods. Supported integration methods (API's and protocols) can be found on the DevNet web site: <u>https://developer.cisco.com/site/collaboration/overview.gsp</u>

### 1.3 IVT Focus

Testing is focused on integration points of Partner products and Cisco products, not on the Partner product itself, to ensure quality integrations between 3rd party products and Cisco products.

Test categories include:

- Installation and connectivity of partner product
- Validation of integrated features between Cisco product and partner product
- Negative testing (connectivity failure, redundancy, recovery)
- · Performance and load testing of integration points/functionality, using a subset of functional test scenarios

# 2 Instructions

Provide the requested information on the following pages for the product being submitted for Interoperability Verification Testing (IVT).

- Complete Current Test Request Information, Product Category, and Product Description for all product pairings (Cisco Product + Program Partner Product) being submitted. Only requests with all required sections completed will be accepted. Failure to provide this information will result in the request being denied.
- 2) Submission:
  - a) Access your <u>Developer Dashboard</u>, go to the Registered Products Tab and select "Actions" and "Add New IVT Request" next to the product to be submitted for IVT
  - b) Upload this document to the IVT Request, failure to upload this document will result in an incomplete request
  - c) Save using filename: <COMPANY\_PRODUCT\_VX\_X+CISCO\_PRODUCT\_VX\_X>.doc Example Filename: CiscoSystems\_FASTAPP\_V1\_1+ClscoProduct\_1\_0.doc

Click on link below for detailed instructions: http://solutionpartner.cisco.com/documents/8974369/0/DeveloperPartnerGuide.pdf

Help or questions related to SPP Portal, listings or application status::solutionpartnerprogram-support@cisco.com

General Questions: Contact your Cisco representative or send email to ivt\_questions@cisco.com

3 Product and Testing Information

# 3.1 IVT Request info here

Test ID	Solution Name	Cisco Product	Status	Submitted Date	Completed Test Date	Last Modified
4423	Ascom IP-DECT	Cisco Unified Communications Manager - 11.0	Test Lab - Pre Req Confirmed	10/14/2015		04/08/2018

# 4 Test Set Up and Tools

This section refers to the product test tools that have been used during the development testing of the product being submitted for IVT

Question	Response
What if any commercial test tools are used in the development and test of this product	
Can these tools and test scripts for these products be made available to support IVT	
Are there proprietary test tools that could be made available to support IVT	

# 5 Product Platform Description

In the table below, provide specific details on the platform/server that your product resides. If your application is an appliance, it will need to be onsite for testing; otherwise, a VM will be provided for your installation of OS and application.

	Minimum Configuration Server Requirements	Maximum Configuration Server Requirements	OS and Version
CPU			
Disk			
Memory			
Max Users supported			

# 5.1 Product Deployment Description

Provide the following information about the product and integration. Each of the items below is **required in order to proceed with test scheduling**.

# 5.2 Product Description

The Ascom IP-DECT is a wireless communication system that supports telephony, personal alarm and messaging for professional users. The multi-cellular structure makes it possible to scale and deploy the IP-DECT system for uninterrupted service throughout an enterprise campus.

Ascom IP-DECT key features consists of

- High quality telephony
- Interactive messaging
- Personal alarm with a dedicated button
- Push-To-Talk
- Location with DECT base stations and beacons
- Centralized Management
- Scalable from 1 1 000 000 users

- Interference-free communication in a dedicated frequency band
- Dedicated alarm channel
- Integrates to CUCM with SIP, to provide a feature-rich telephony solution

#### **Product Integration Diagram** 5.3 **Cisco Unified Communications Manager Business Edition 6000 Business Edition 7000** ASCOM VoWiFi Myco & ASCOM IP-DECT IP-DECT Legacy Base Stations Bas Statio SIP, Secure SIP, sco Compatib KPML LAN IP-DECT SIP, CC) Gateway cisco Compi **IP** Phone ASCOM UNITE **Applications XML Messaging Suite** Con Con **Cisco Wireless LAN UNITE Connectivity Manager** ECG for Cisco

### 5.4 Product Integrated Use Cases

Ascom IP-DECT will be used for wireless telephony, personal alarm, messaging, Push-To-Talk and positioning services with CUCM, BE6000 and BE7000 in enterprise customer deployments.

# 6 Test Plan

#### 6.1 Introduction

This document is the detailed Interoperability Verification Test Plan and Report for Cisco Unified Communications Manager and Endpoint/USB Accessory partner product.

### 6.2 Entry Criteria

Before testing can begin 3rd party partner shall run this entire test plan in their lab and verify the results. If there are any test cases not supported, not applicable or are not successful, the partner should consult with IVT program team. Once testing has been initiated, the device under test is considered frozen for compatibility testing purposes. No

software/firmware load can be changed during the testing period. However, configuration can be modified to accommodate testing.

#### 6.3 Exit Criteria

To be deemed certified as configured, the devices under test should have zero severity 1 and severity 2 defects and up to two severity 3 defects.

If a severity 1 or 2 failure occurs, irrespective of whom is responsible for the problem (Cisco or the 3rd party product), the testing is considered unsuccessful.

Severity		Description
1	Catastrophic	Common circumstance causes the entire system or a major subsystem to stop working affects other areas/devices no workaround
2	Severe	Important functions are unusable does not affect other areas/devices no workaround
3	Moderate	Very unusual circumstances cause failure minor feature doesn't work at all there's a low impact workaround

#### Table 1. Defect Severity Level

If any tests fail, the configuration will be verified to resolve the issue. If the issue cannot be resolved, the tester will attempt to continue testing if possible. If the testing is blocked due to this issue, then testing is considered complete and the devices under test will not receive a Compatibility Logo.

#### The following procedures are followed when testing fails:

- Preliminary analysis is made to determine the source of the problem. If the problem is related to a device under test, then the problem is reported to that partner. If the problem is deemed Cisco related, the problem will be reported to Cisco, but the partner is responsible to open a case with Cisco Developer Services. Partner should provide the Developer Services case number to the test team so they can document it in the report.
- If testing can continue past this failure, the other test cases will be tested and verified for pass or fail. If the testing cannot progress past this problem, testing will be halted and a final test report submitted to Partner and Cisco.
- All problems and resolutions encountered during testing are documented in the final test report
- If a severity 1 failure occurs, irrespective of whom is responsible for the problem (Cisco or the 3<sup>rd</sup> party product), the testing is considered unsuccessful.

Any deviations of the test execution or problem acceptance are documented in the test report. The Cisco approval process may increase/decrease the severity level of the defect after the test cycle if considered necessary.

# 7 Executive Summary

Short summary of the test effort, summarizing the lab findings during testing.

The following summarizes results:

- Test Case Failures:
  - o None.
- Features Not Supported:
  - o Direct transfer
  - o Barge
  - o cBarge
  - o Shared lines
  - o Multiple lines
  - o Extension Mobility feature
  - o Video calling
  - o DUT as an Authenticated phone
  - o Join across lines
  - o Hotline
  - o iDivert
  - Notifying CUCM about a malicious call
  - o Mobile connect
  - o Mobile Voice Access (MVA)
  - o Enterprise Feature Access (EFA)
- Test Cases that are Not Applicable:
  - o None
- Test Cases that were Not Executed:
  - o None
- Observations:
  - While doing URI based calling, the DUT won't be able to display CLID if the calling party has alphabets in the directory URI field. The DUT can only present CLID with number in the directory URI field.
  - When DUT tried to do a blind transfer to an invalid number, the procedure in the test case expects the phone which is doing transfer to drop and the initial party would hear reorder tone, but in this case after the transferring the call from the DUT to an invalid number, the call fails and the phone doing the transfer will be connected with the initial party.
  - For callback feature, DUT won't be able use the softkey from CUCM, but this test case was tested with a DUT feature which does a similar functionality.
  - DUT cannot be assigned with DND softkey from CUCM, however the same functionality was tested by putting the DUT in silent mode.

# 8 Testing Details

### 8.1 Items Tested

Features that are specific in this section are the high level categories the testing will focus on.

- 3<sup>rd</sup> Party installation, configuration and validation
- Security Requirements
- Functional testing of the various features interfacing through the 3rd party product to the Cisco product
- Negative tests in relation to service outages, restarts, bad files etc.

### 8.2 Items Not Tested

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

#### 8.3 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 product.

### 8.4 Administration, Testing and Debugging tools

Tools used/required – Identify any tools required by 3<sup>rd</sup> party (partner under test). Also add Trace and Debug settings here.

Product Name	Version	Туре	Purpose	Units	Notes				
Test Tools									
	<u>'</u>		3rd Party Tools						
Unity Connectivity Manager	5.6.2	Management tool	Provisioing features on the IP Dect phones	1					
			Debug Tools						
Wireshark	1.10.5	Network Protocol Analyzer	Packect capture on the network wire	1					
RTMT	11		Logs from CUCM	1					

#### Table 2. Administration, Testing and Debugging Tools

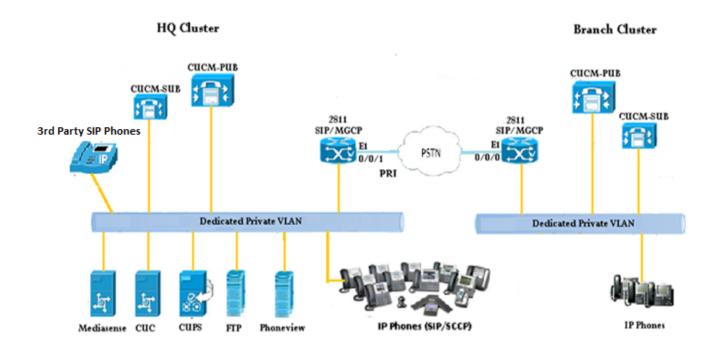
# 8.5 Equipment Requirements

Table below identifies all equipment/versions used in this IVT.

Product	Version	Units	Description
CUCM	11.0	2 PUB & 4 SUB	Local and Remote CUCM Clusters
Cisco 3845		1	PSTN Gateways
IP Phones		5	7975,7961, 8851, 8861, 8945,9951,9971,DX650
DUT(s)		3 or more	2 IPBS2
			2 d81
			1 d61

#### Table 3. Sandbox Topology Components

# 8.6 Lab Network Topology



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## 8.7 Test Case Result Reporting

#### Table 4. Test Results Legend

Result	Description
Pass (P)	The test case passed with no exceptions
Fail (F)	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. Provide justification 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 (B)	Other test case failures prevented the execution of this test. Reference the failed test case in the "Comments" column.

# 9 Test Cases

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This section details the tests that will be performed during the testing period. Partner is responsible for identifying any features or functions not supported covered in the test cases prior to start of testing

# 9.1 Endpoint IVT Workflow & Test Case Mapping

Test Work Flow Sections	Test Case #	Total Tests	A/M
Endpoint Registration & Validation (Step 1 & 2)	EP-1	1	М
Functional Tests (Step 3)	EP-2 → EP-45	44	М
Negative Tests (Step 4)	EP-46 → EP-50	5	М
Miscellaneous Tests (Step 5)	EP-51 <b>→</b> EP-56	6	М

# Run "Step 1\_Endpoint\_Registration" command to register endpoints. Run "Step 2\_Record\_Connectivity\_Validation" command after verifying the endpoints are registered with the correct network and load information.

### 9.2 Integration Test

Test is focused on ensuring that the 3<sup>rd</sup> party product (DUT) is registered with Call Manager successfully

Test Case #	EP-1	Category	Connect <b>→</b> Validate					F	RFC_Sta	andard	Y
Objective	Verify 3 <sup>rd</sup> party	endpoints (D	UT) are registered i		-	ully					
			Pre-Test	Condi	tions						
<ul><li>Local CUCM</li><li>Remote CUC</li><li>CUCM Admir</li></ul>	Cluster <b>→</b> NPA-N M Cluster <b>→</b> NPA- istration GUI: <u>htt</u> N Router setup to	XX → 410-44 -NXX → 322-2 ps://X.X.X.X: DEP_IVT Lat	234-XXXX <u>8443</u> (X.X.X.X= CUC	M-PUI							
	Test P	rocedure			Expected Results	5					
<ul> <li>DUT:7</li> <li>DUT:7</li> </ul>	UT in remote CU hdpoint Registrati evice_Status" cm h DUT(s) to chec settings to verify cluster, change I ol→ep_pool M cluster, change (s) a softkey tem	ICM cluster ion" cmd to r id to check r k for dial tone network and DN of DUT(s the DN of DUT plate of "SIP ) as follows:	registration status load information to 7100 & 7101 to 8000 _EP_Usert		<ul> <li>DUT(s) goes the CUCM Administry DUT(s) are in 'DUT(s) have a Dial tone played</li> <li>DUT(s) networn (VLAN, DNS, IDUT(s) Phone</li> <li>DUT(s) Phone</li> <li>DUT(s) DN character and DUT(s) softkey</li> <li>Users associated</li> </ul>	stration Registe DN ass d when k data i DHCP, <sup>-</sup> Load v anged to v templa	.GUI dis ered" sta signed phone g s correc TFTP, C version is o procee ate upda	play the te goes off t: UCM) s correc ed with t ted to "S	DUT(s -hook t est case SIP_EP_	) :s	5
local CUCM ( • To register er	Cluster adpoints to remote ess of remote CL	e CUCM clus JCM to DUT	register endpoints to t <mark>er, manually enter t</mark>								
	Т	est Results:	Comments			P	F	N/A	N/S	N/T	В
						Х					

Tests in this section requires RPC tool to remotely control Cisco IP Phones for manual calls. Follow instructions highlighted in green in each test case before execution. It is important to restore endpoints to it's original state in some test cases before proceeding to next test case. Run "Step 3: Record\_Functional\_Test\_Execution" command after executing all tests in this section Retrieve CDR(s) in CUCM to validate calls

### 9.3 Entrance Tests

Tests will be focused on features and the operational behavior of the 3<sup>rd</sup> party product (DUT) to ensure it corresponds to its design specifications.

Test Case #	EP-2	Category	Entrance Test: In	tra-Cluster Calls			RF	C_Stan	dard	Y
Objective	Verify intra-clust	er calls betw	een DUT, SCCP ar	d SIP endpoints						
			Pre-Test	Conditions						
Configure Au     La     ► La	aunch RDP → Option ccess RPC Server v to remotely control	ack on an RE ns <b>→</b> Local Re /ia RDP I IP Phones :	OP Session for a PC esources →Settings	accessing RPC Tool →Play on this compu	ter	er to L	ab Guide	for insti	ructions)	)
	Test Pr	ocedure		Expected Res	sults					
2. 7101 dials 10 3. Select "Head 4. Enter "Play:A 5. 7101 speaks 6 Repeat steps 7. Repeat steps 8. Calling & Call 9 Retrieve CDR	reYouThere.raw" 8 "Testing1234"→100 2-5 with Calling DN 2-5 with Calling DN led party release ca from CUCM ng, Called, Duration	nd answer ca hit "Send" o 00 on-hook a J:2000 & Cal J:7101 & Cal Ils alternative	all using RPC on the Command Lir after 60s led DN;7100 led DN;2000 ely	<ul> <li>Calling and</li> <li>DUT recei</li> <li>Phone on</li> <li>symb</li> <li>7100 &amp; 71</li> <li>1000 &amp; 20</li> <li>Audio for F</li> <li>4 calls terr</li> <li>4 CDR(s)</li> </ul>	01 hear "Are 00 hear "Tes RPC phones ninate norma	rties h ) s "mo e you 1 sting 1 heard ally	ear ring-b onitoring a There" 234" I on pc ru	oack and	nessage	with
CDR field				Call 1	Call 2	2	Call	4	Cal	l 5
callingPartyNum	nber			7100	7101		710	1	200	00
OriginalCalledPa	artyNumber			7101	1000		200	0	710	00
finalCalledParty	Number			7101	1000		200	0	710	00
origCause_Valu	e			16	0		16		0	
destCause_Valu	le			0	16		0		16	6
duration				30	60		60		60	)
					-	· · · ·				
	Те	st Results:	Comments		P	F	N/A	N/S	N/T	В

Note:

- In RPC Tool, if any of the Phones used in test case is in un-registered state, use any available registered IP Phones. Phone displays without a DN assigned are un-registered.
- Refer to Lab Guide for instructions on:
  - CDR Retrieval from CUCM
  - Honeview User Guide
  - 4 2-Way Audio Path Validation

# 9.4 Features and Services

Objective			Functional Test: Inter-C					<u></u>	andard	
	Verify inter-clus	ter calls betwe	een DUT(s), SCCP and S	IP endpoints						
			Pre-Test Cond	litions						
Remote CUCI	DUT(s):7100 & M →DUT:8000; S o remotely contro	CCP:5200; S								
	Test P	rocedure		Expected Result	S					
1. 7100 dials 234 2. 7101 dials 234 3. Select "Headpt 4. Enter "Play:Are 5. 7101 speaks "T 6. Repeat steps 2 7. Calling & Calle 8. Retrieve CDR f 9. Check Calling, Cause Codes	5200→Select 520 one" icon YouThere.raw" a esting1234" →52 -5 with Calling DI d party release ca rom CUCM	00 and answe and hit "Send" 200 on-hook N:7101 & Call alls alternative	r call using RPC on the Command Line after 60s ed DN;6200 ly	<ul> <li>3 calls establis</li> <li>Calling and Ca</li> <li>DUT receives</li> <li>Phone on RPC</li> <li>symbol</li> <li>7100 &amp; 8000 f</li> <li>5200 &amp; 6200 f</li> <li>Audio for RPC</li> <li>3 calls termina</li> <li>3 CDR(s) retri</li> <li>Selected fields</li> </ul>	alled Pa Caller IE C display near "Are pear "Tes phones ate norm eved	rties hea ) /s "mon e you Th sting 12 ; heard o ally	ar ring-b nitoring a nere" 34" on PC ru	oack and	nessage	e with
	Т	est Results: (	Comments		Р	F	N/A	N/S	N/T	В
					Х					

Test Case #	EP-4	Category	Functional Test: Off-N	et Calls				F	RFC_Sta	andard	Y
Objective	Verify basic call	s between DL	IT(s) and PSTN endpoir	nts							
			Pre-Test Con	ditions							
<ul> <li>Remote CUC</li> <li>PSTN: 210-22</li> </ul>	<ul> <li>→ DUT(s):7100 &amp;</li> <li>M → DUT:8000;</li> <li>22-5400 (SIP);</li> <li>to remotely contro</li> </ul>		e:2102225401;								
	Test P	Procedure		Expe	cted Result	ts					
<ol> <li>Select "Headp</li> <li>Enter "Play:Ard</li> <li>7100 speaks "</li> <li>Repeat steps1 DN:94104447"</li> <li>Retrieve CDR</li> <li>Check Calling, Cause Codes</li> </ol>	hone" icon eYouThere.raw" ai Testing1234" →21 -4 with Calling DN 101 from CUCM Serve Called, Duration,	nd hit "Send" 102225400 on 1:2102225400 er Origination &	& Called	<ul> <li>Ca</li> <li>DI</li> <li>Pi</li> <li>71</li> <li>21</li> <li>Au</li> <li>2</li> <li>2</li> </ul>	Calls establi alling and C. UT receives none on RP( symbol 100 & 7101 I 102225400 I udio for RPC Calls termin CDR(s) retri elected field	alled P Caller C displa hear "A nears "1 C phone ate nor ieved	arties h ID ays "mo re you T esting ' s heard mally	ear ring nitoring here" 1234" on PC	-back ar active" running	messag	e with
	Te	est Results: (	Comments			Р	F	N/A	N/S	N/T	В
						х					

Test Case #	EP-5	Category	Functional Test: SIP	URI			RF	C_Stan	dard	Y
Objective	Verify intra-clust	ter SIP URI ca	alls between DUT and	SIP endpoints						
			Pre-Test Co	onditions						
<ul> <li>Configure Sp</li> <li>De</li> <li>De</li> <li>▷</li> <li>De</li> <li>RPC is used</li> </ul>	eed Dial on button vice→Phone→710 vice→Phone→710 vice→Phone→200 to remotely control	a 3 for 7100, 7 00 <b>→</b> Add new 01 <b>→</b> Add new 00 <b>→</b> Add new I IP Phones: 2	101, 2000: SD→ <u>dutuser02@abc.ir</u> SD→ <u>dutuser01@abc</u> 2000;	c on both fields				_	<u>c</u> );	
	Test Pro	ocedure		Expected Results						
2. 7101 goes on- 3. 2000 hits Sper 4. 2000 goes on- 5. 7101 hits Sper 6. 7101 goes on- 7. Retrieve CDR	ed Dial button 3 ➔ hook after 30s ed Dial button 3➔2	•7100 answers 2000 answers er	S	<ul> <li>DUT(s) receives</li> <li>3 calls establish</li> <li>3 calls terminate</li> <li>3 CDR(s) retrieve</li> <li>Selected fields in</li> </ul>	with 2 w normally ed	ay audio y				
	Те	est Results: (	Comments	<u>.</u>	Р	F	N/A	N/S	N/T	В
					Х					

Test Case #	EP-6	Category	Functional Test	: SIP URI				RF	C_Stan	dard	Υ
Objective	Verify inter-clus	ster SIP URI c	alls between DUT	and SIP endpo	nts						
			Pre-Te	st Conditions							
<ul> <li>Remote CU0</li> <li>Configure Spin</li> <li>De</li> <li>De</li> <li>De</li> <li>RPC is used</li> </ul>	→ DUT(s):7100 (I CM→ DUT : 8000 ( beed Dial on buttor svice → Phone → 71 svice → Phone → 71 svice → Phone → 62 to remotely contro URI on device page	(URI: rdutuser( n 3 for 7100, 100 <b>→</b> Add new 101 <b>→</b> Add new 200 <b>→</b> Add new ol IP Phones: 2	01@abc.inc); SIP 7101 & 6200: • SD→ tdutuser01 • SD→ tcuser20@ • SD→ dutuser01( 2000 & 6200;	:6200 (URI: <u>rcus</u> <u>@abc.inc</u> on both <u>@abc.inc</u> on both <u>@abc.inc</u> on bot	er20@abc.i th fields fields n fields	<u>inc</u> );				. <u>inc</u> );	
	Test Pr	rocedure		Expecte	d Results						
2. 8000 goes on 3. 7101 hits Spe 4. 6200 goes on 5. 6200 hits Spe 6. 7100 goes on 7. Retrieve CDF	ed Dial button 3→ -hook after 30s ed Dial button 3→ -hook after 30s t from CUCM Serv g, Called, Duration	<ul> <li>6200 answers</li> <li>7100 answers</li> <li>∕er</li> </ul>	5	<ul> <li>3 cal</li> <li>3 cal</li> <li>3 CD</li> </ul>	s) receive C s establish v s terminate R(s) retrieve ted fields in	with 2 wa normally ed	,				
	Т	est Results:	Comments			Р	F	N/A	N/S	N/T	В

Test Case #	EP-7	Category	Functional Test:	FA			RFO	C_Standa	rd Y
Objective	Verify "CFA" ca	lls between D	UT(s), SCCP, SIP		nts				
<ul> <li>Remote CUC</li> <li>PSTN: 210-22</li> <li>Enable CFA for</li> <li>Dev</li> </ul>	or DN(s): vice→Phone→71( vice→Phone→71( vice→Phone→80( vice→Phone→52( vice→Phone→20( vice→Phone→21(	CCP:5200; S 00+CFA+10 01+CFA+22 00+CFA+62 00+CFA+44 00+CFA+22 00+CFA+22	1000; SIP:2000; IP:6200; 2000 (SCCP) 348000 (DUT) 200 (SIP) 147101 (DUT)	<u>Conditions</u> 200, 2102225400;					
	Test Pro	ocedure		Expected Re	sults				
2. 8000 dials 444 3. 7101 dials 234 4.7101 dials 234 6. 7101 dials 234 6. 7101 goes on- 7. 7101 dials 921 8. 2102225400 g 9. 2102225400 d 10. 8000 goes on 11. Retrieve CDF 12. Check Calling Cause Codes <b>Note:</b> Upon test completing yellow before p	5200→7100 on-h hook 02225400→7100 oes on-hook after ials 94104447101 h-hook after 30 sec from CUCM g, Called, Duration coceeding to next ation GUI:	vers → 1000 o vers → 7101 o ook - hears b answers 30s → 8000 answ cs , Origination o A" feature for test case	n-hook after 30s n-hook after 30s usy tone ers	<ul> <li>Call forwa</li> <li>Call estab</li> <li>Call estab</li> <li>Call termin</li> <li>Call forwa</li> <li>Call estab</li> <li>Call forwa</li> <li>Call estab</li> <li>Call forwa</li> <li>Call on 71</li> <li>Call estab</li> <li>Call estab</li> <li>Call estab</li> <li>Call forwa</li> <li>Call estab</li> <li>Call forwa</li> <li>Call estab</li> <li>Call estab</li> <li>Call estab</li> <li>Call forwa</li> <li>Call estab</li> <li>Call forwa</li> <li>Call forwa</li> <li>Call forwa</li> <li>Call estab</li> <li>Call estab</li> </ul>	ones displays rd to 8000 an lish between nate normally rd to 1000 an lish between nate normally rd to 6200 an lish between rd to 7101 an rd to 8000 an clish between rd to 7101 an rd to 8000 an s busy tone a 01 terminate rd to 7100 an lish between yrd to 8000 an en 2102252 nate normally retrieved CDR(s) fields	d phone ri 7100 & 80 d phone ri 8000 & 10 d phone ri 7101 & 62 d phone ri 7101& 800 d phone ri 7101& 710 d phone ri 7101& 710 d phone ri 7101& 710	ings 000 with ings 000 with 200 with ings eturns b e call ings 00 with ings 00 with 200 with 200	2-way aud 2-way aud 2-way aud 2-way aud busy tone 2-way aud	dio dio io
	Τε	est Results: (	Comments		P X	F	N/A	N/S I	N/T B
					^				

Test Case #	EP-8	Category	Functional						RF	C_Stanc	lard	Y
Objective	Verify "CFNA" o	calls between										
Remote CUC     Voicemail and     Enable CFNA     De	→DUT(s):7100 & 7 M→DUT:8000; S0 d Call Waiting disa for DN(s): vice→Phone→710 vice→Phone→710 vice→Phone→200 vice→Phone→200 to remotely control	CCP:5200 SII bled for all D 00 CFNA 01 CFNA 00 CFNA 00 CFNA 00 CFNA 00 CFNA	1000; SIP:2( 2:6200; N(s) Device 1000 (SCCF 2348000 (D 6200 (SIP) 4447101 (D 2348000 (D	→Phone→ ) UT) UT) UT) UT)	DN <b>→</b> Line <b>→</b> Vo Ca					ısy Trigg	er <b>→</b> 1;	
	Test Pro	ocedure			Expected Re	sults						
2. 7100 goes on- 3. 8000 dials 444 4. 1000 goes on- 5. 7101 dials 234 6. 7101 goes on- 7.7101 dials 2000 8. 6200 answers 9. 8000 dials 520 10. 8000 goes or 12. Retrieve CDF 13. Check Calling Cause Codes Note: Upon test completing of the second seco	7100 → 7100 does hook after 30s 8000 → 8000 does hook after 30s 0 → 2000 does not call 0 → 5200 does not n-hook - hears bus h-hook & from CUCM g, Called, Duration s etion, remove "CFI proceeding to next	anot answer answer answer 800 t answer 71 sy tone n, Origination NA" feature for test case	♦1000 answ ♦6200 answ 10 does not 01 does not & Termination r devices hi	vers answer answer on	<ul> <li>Call forwa</li> <li>Call estab</li> <li>Call termin</li> <li>Call forwa</li> <li>Call estab</li> <li>Call termin</li> <li>Call forwa</li> <li>Call forwa</li> <li>Call estab</li> <li>Call termin</li> <li>Call forwa</li> <li>Call estab</li> <li>Call termin</li> <li>Soloo hear</li> <li>Call on 62</li> <li>Call forwa</li> <li>Call estab</li> <li>Call termin</li> <li>Call forwa</li> <li>Selected forma</li> </ul>	lish betw nate nor rd to 10 lish betw nate nor rd to 62 lish betw nate nor rd to 62 lish betw nate nor rs busy t 00 term rd to 71 lish betw nate nor rd to 80 retrieved	veen 7 <sup>-</sup> mally 00 after veen 80 mally 00 after veen 7 <sup>-</sup> mally 00 after veen 7 <sup>-</sup> mally 00 after veen 7 <sup>-</sup> mally 00 after d	100 & 8 r ring tir 200 & 1 r ring tir 101 & 6 r ring tir 101 & 62 d termir pormally r ring tir 101 & 71 r ring tir	000 with neout 200 with neout 200 with neout 100 with neout	n 2-way a n 2-way a 2-way a	audio audio udio	
	Те	est Results:	Comments				Р	F	N/A	N/S	N/T	В
							Х					

Test Case #	EP-9	Category	Functional	Test: CFB	}					RF	C_Stan	dard	Y
Objective	Verify "CFB" ca	lls between D	)UT(s), SCC	P and SIP	endp	oints							
			P	<mark>re-Test Co</mark>	onditi	ons							
<ul> <li>Remote CUC</li> <li>Voicemail and</li> <li>Enable CFB fr</li> <li>Dev</li> <li></li></ul>	→DUT(s):7100 & M →DUT:8000; S d Call Waiting disa or DN(s): vice→Phone→711 vice→Phone→710 vice→Phone→620 vice→Phone→100 to remotely contro	CCP:5200; S bled for all D 00→CFB→11 01→CFB→22 00→CFB→62 00→CFB→44 00→CFB→22	iIP:6200; Ns 000 (SCCP) 348000 (DU 200 (SIP) 447101(DUT 348000 (DU	T) [) T)	00;								
	Test Pro	ocedure			Exp	pected Res	ults						
2. 7100 dials 710 3. 5200 dials 800 4. 7100 dials 710 5. 5200 goes on- 6. 7100 dials 100 7. 7101 goes on- 8. 2000 dials 100 9. 5200 dials 800 10. 7101 dials 100 11. 1000 goes on 12. 1000 dials 62 13. 7100 dials 23 14. 2000 dials 73 15. 7100 dials 23 16. 2000 & 6200 17. Retrieve CDF 18. Check Calling cause codes <b>Note:</b> Upon test completing in yellow before pro- CUCM Administration	0→8000 answers hook 0→1000 answers 0→8000 answers 00→7101 on-hoo hook 00→6200 answer 46200→7101 answer 46200→7101 answer 46200→7101 answer 46200→7100 goe goes on-hook & from CUCM g, Called, Duratior matches the calls	<ul> <li>→7100 on-hd</li> <li>→ hears busy</li> <li>→7100 on-hd</li> <li>k - hears bus</li> <li>s</li> <li>swers → 7101</li> <li>s</li> <li>s on-hook -h</li> <li>a, origination a</li> <li>3" feature for test case</li> </ul>	v tone bok after 30s sy tone on-hook afte hears busy t & terminatior devices high	s er 30s cone n		Call establi Call forwar Call establi 7100 termin Call establi 7100 hears 5200 termin Call establi 7101 termin Call establi 7101 termin Call establi 7101 hears 1000 termin Call establi 7101 termin Call establi 7101 termin Call establi 7101 hears 2000 & 620 Call establi 2000 & 710 12 CDR(s) Selected for	d to 800 ish betw nate ca ish betw s busy t nate ca ish betw nate ca ish betw s busy t nate ca ish betw d to 711 ish betw d to 711 ish betw s busy t 00 term ish betw 01 term	00 and veen 7 <sup>-</sup> II veen 52 one an II 00 and veen 7 II veen 20 veen 52 one an II veen 10 01 and veen 7 <sup>-</sup> II veen 20 one an inate ci veen 20 one an	phone i 100 & 8 200 & 8 d releas phone i 100 & 8 200 & 1 200 & 8 d releas 000 & 6 phone i 100 & 7 000 & 7 d releas all 2000 & 7 all	rings 000 with se call rings 000 with 000 with 000 with se call 200 with rings 101 with 101 with se call 100 with	1 2-way 1 2-way 1 2-way 1 2-way 1 2-way 1 2-way 1 2-way 1 2-way	audio audio audio audio audio audio audio	
	Те	est Results:	Comments		<u></u>			Р	F	N/A	N/S	N/T	В
								Х					

Test Case #	EP-10	Category	Functional Test: Hold	& Resume	est: Hold & Resume RFC_Standard						
Objective	Verify "Hold & F	Resume" calls	between DUT(s), SIP,		lpoints						
<ul> <li>Remote CUC</li> <li>PSTN:210-22</li> <li>Remove all C</li> <li>Call Waiting e</li> </ul>	FA, CFNA & CFB enabled on all DN( to remotely contro	SCCP:5200; settings on D (s) Device <b>→</b> P I IP Phones:	<u>Pre-Test Cc</u> 1000; SIP:2000; N(s) used in previous hone→DN→Line→Ca 1000, 2000, 21022254	test cases Ill Waiting <b>→</b> Max Calls 00;	<b>→</b> 4; Bu	sy Trigg	ler <b>→</b> 2;				
	Test Pro	ocedure		Expected Results							
2. 7100 hits "Res 3. 7100 dials 234 4. 5200 dials 234 5. 7100 hits "Res 6. 7100 dials 710 7. 7100 dials 234 8. 7101 goes on- 9. 7101 dials 710 10. 7100 goes on 11. 7101 goes-ho 12. Repeat steps 13. Repeat steps 15. Retrieve CDF	ume" after $60s \rightarrow 7$ $1 \rightarrow 7101$ answers $-5200 \rightarrow 5200$ ans hook after 30s $0 \rightarrow 7100$ answers u-hook 10s later work 1-2 for SCCP. Ref 1-2 for SCCP. Ref 1-2 for SIP. Replation 1-2 for PSTN. Ref 1-2 for PSTN. Ref 1-2 for CUCM 3-2 for CUCM 3-2 for CUCM	7100 on-hook wers wers incomin 7100 on-hook ⇒7100 hits " wers → 5200 of ⇒7101 hits " while call is on eplace 7101 with eplace 7100 with	after 30s g call → 8000 on-hold after 30s Hold" after 30s on-hook after 30s Hold" after 30s -hold ith 1000 2000 ith 92102225400	<ul> <li>Call establish be</li> <li>7101 is On-Hold</li> <li>Call resume betx</li> <li>Call terminate no</li> <li>Call establish be</li> <li>8000 is On-Hold</li> <li>Call establish be</li> <li>Call on 5200 tern</li> <li>Call resume betx</li> <li>Call resume betx</li> <li>Call establish be</li> <li>7101 is On-Hold</li> <li>Call establish be</li> <li>5200 terminate no</li> <li>Call resume betx</li> <li>Call resume betx</li> <li>Call establish be</li> <li>5200 terminate of</li> <li>Call resume betx</li> <li>Call establish be</li> <li>5200 terminate of</li> <li>Call establish be</li> <li>7100 is On-Hold</li> <li>7100 is On-Hold</li> <li>7100 terminate of</li> <li>9 CDR(s) retriev</li> <li>Selected fields in</li> </ul>	(MOH) veen 71 prmally tween 7 (MOH) tween 7 ninated veen 71 prmally tween 7 (MOH) tween 7 rmally tween 7	00 & 71 7100 & 8 7100 & 5 normall 00 & 80 7100 & 7 7100 & 5 nally 00 & 71 7101 & 7 ng active	01 3200 with 3200 wi	n 2-way n 2-way 2-way a n 2-way n 2-way n 2-way 2-way a	audio audio udio audio audio udio		
		est Results: (	<b>N</b>		Р	F	N/A	N/S	NI/T	В	
	10	est Results:	Jomments		X	Г	IN/A	IN/3	N/T	D	

Objective       Verify Call Waiting calls between DUT(s). SIP and SCCP endpoints         Pre-Test Conditions       Pre-Test Conditions <ul> <li>Local CUCM &gt; DUT(s):7100 &amp; 7101; SCCP:1000; SIP:200;</li> <li>Remote CUCM &gt; DUT(s): Device &gt; Phone &gt; DN &gt; Line &gt; Call Waiting &gt; Max. Calls &gt; 4; Busy Trigger &gt; 2;</li> <li>RPC is used to remotely control IP Phones: 1000, 2000, 5200, 6200;</li> </ul> <ul> <li>Total dials 7101 &gt; 7101 answers</li> <li>S000 dials 444-7100 &gt; 7100 answers incoming call</li> <li>1000 dials 7101 &gt; 7101 answers incoming call</li> <li>1000 dials 7101 &gt; 7101 answers</li> <li>Call establish between 7100 &amp; 87001 with 2-way audio</li> <li>7100 dials 1000 &gt; 7100 answers incoming call</li> <li>1000 dials 1000 &gt; 7100 answers incoming call</li> <li>1000 dials 1000 &gt; 7100 answers</li> <li>Call establish between 7100 &amp; 8000 with 2-way audio</li> <li>7100 answers incoming call</li> <li>2000 dials 444-7101 &gt; 7101 answers</li> <li>S200 dials 444-71</li></ul>	Test Case #	EP-11	Category	Functional	Test: Call	Waiting				RF	C_Stan	dard	Y
<ul> <li>Local CUCM→DUT(s):7100 &amp; 7101; SCCP:1000; SIP:2000;</li> <li>Remote CUCM→DUT(s):7100 &amp; 7101; SCCP:5200; SIP:5200;</li> <li>Call Waiting enabled for all DN(s): Device→Phone→DN→Line→Call Waiting→Max. Calls→4; Busy Trigger→2;</li> <li>RPC is used to remotely control IP Phones: 1000, 2000, 5200, 6200;</li> <li>Test Procedure</li> <li>Test Procedure</li> <li>Call establish between 7100 &amp; 7101 with 2-way audio</li> <li>7100 dials 7101→7101 answers incoming call</li> <li>1000 dials 7100→7100 answers incoming call</li> <li>1000 dials 7100→7100 answers incoming call</li> <li>1000 dials 7100→7100 answers incoming call</li> <li>2000 dials 444-710→7101 answers</li> <li>2000 dials 7100→7100 answers incoming call</li> <li>2000 dials 444-710→7101 answers</li> <li>20</li></ul>	Objective	Verify Call Waiti	ng calls betwe	en DUT(s),	SIP and S	CCP endp	oints						
<ul> <li>Remote CUCM →DU<sup>1</sup>:5000; SCCP:5200; SPhone→DN→Line→Call Waiting→Max. Calls→4; Busy Trigger→2;</li> <li>Call Waiting enabled for all DN(s): Device→Phone→DN→Line→Call Waiting→Max. Calls→4; Busy Trigger→2;</li> <li>RPC is used to remotely control IP Phones: 1000, 2000, 5200, 6200;</li> <li>Test Procedure</li> <li>Expected Results</li> <li>Call establish between 7100 &amp; 7101 with 2-way audio</li> <li>7100 dials 7101→7101 answers incoming call</li> <li>1000 dials 7101→7101 answers incoming call</li> <li>1000 dials 7100→7100 answers incoming call</li> <li>1000 dials 7100→7100 answers incoming call</li> <li>1000 dials 7100→7100 answers</li> <li>2000 dials 444-710→7101 answers</li> <li>2000 dials 7100→7100 answers</li> <li>2000 dials 7100→7100 answers</li> <li>2000 dials 7100→7100 answers incoming call</li> <li>2000 dials 444-7101→7101 answers</li> <li>2000 locn-rinate normally</li> <li>2000 locn-rinat</li></ul>				Pi	re-Test Co	nditions							
<ul> <li>7100 &amp; 1000 terminate normally</li> <li>Call establish between 6200 &amp; 7101 with 2-way audio</li> <li>7101 notified of incoming call (tone /display)</li> <li>7101 answers incoming call</li> <li>6200 is On-Hold (MOH)</li> <li>Call establish between 7101 &amp; 5200 with 2-way audio</li> <li>7101 &amp; 5200 terminate normally</li> <li>Call resume between 6200 &amp; 7101</li> <li>6200 &amp; 7101 terminate normally</li> <li>7 CDR(s) retrieved</li> <li>Selected fields in CDR(s) match calls</li> </ul>	Local CUCM     Remote CUC     Call Waiting e     RPC is used t      RPC is used t      1. 7100 dials 7100 2. 8000 dials 444 3. 8000 goes on- 4. 1000 dials 7100 5. 1000 goes on- 6. 7100 goes on- 7. 7100 dials 100 8. 2000 dials 710 9. 2000 goes on- 10. 7100 goes or 11. 6200 dials 710 9. 2000 goes or 11. 6200 dials 44 13. 5200 goes or 15. Retrieve CDF 16. Check Calling	→DUT(s):7100 & 7 M →DUT:8000; S enabled for all DN( to remotely control Test Pro 1→7101 answers -7100→7100 answ hook after 30s 1→7101 answers hook after 60s 1→7100 answers hook after 60s 4→7100→7101 answers hook after 60s 4→7101→7101 ans +-hook after 60s +-hook after 60s +-hook after 60s +-hook after 60s +-hook after 30s R from CUCM g, Called, Duration	7101; SCCP:1( CCP:5200; SIF s): Device → PI I IP Phones: 1( ocedure wers incoming incoming call incoming call swers swers incoming	P1 000; SIP:20 0:6200; hone→DN- 000, 2000, 1 call g call	re-Test Co 000; →Line→C; 5200, 6200	all Waiting Expected Call e 7100 7101 Call e 7100 Call e 7101 Call e 7101 Call e 7101 Call e 7101 Call e 7101 Call e 7100 Call e 7100 Call e 7101 Call e 7100 Call e 7100 Call e 7100 Call e 7101 Call e 7101 Call e 7100 Call e 7101 Call e 7100 Call e 7101 Call e 7100 Call e 7101 Call e 7100 Call e 7101 Call e 7101 Call e 7101 Call e 7101 Call e 7100 Call e 7101 Call e 7101 Call e 7101 Call e 7100 Call e 7101 Call e 7100 Call e 7101 Call e 7100 Call e	→Max. Calls d Results establish bet notified of ir answers inc is On-Hold (sstablish bet & 8000 term esume betw notified of ir answers inc is On-Hold (sstablish bet & 1000 term esume betw & 7101 term esume betw a 7101 term otified of ir answers inc is On-Hold (sstablish bet answers inc is On-Hold for answers inc is On-Hold fo	ween 7 <sup>2</sup> coming coming ( (MOH) ween 7 <sup>2</sup> ninate n coming c (MOH) ween 7 <sup>2</sup> ninate n ween 7 <sup>2</sup> ninate n coming c (MOH) ween 7 <sup>2</sup> ninate n	100 & 7 call (to call 100 & 8 ormally 00 & 71 call (to call 101 & 1 ormally 00 & 71 ormally 100 & 1 call (to call 100 & 2 ormally	101 with ne /disp 000 with 01 ne /disp 000 with 01 000 with ne /disp	lay) i 2-way a lay) i 2-way a i 2-way a lay)	audio audio audio	
						<ul> <li>7100</li> <li>Call e</li> <li>7101</li> <li>7101</li> <li>6200</li> <li>Call e</li> <li>7101</li> <li>Call n</li> <li>6200</li> <li>7 CDI</li> </ul>	& 1000 term establish bet notified of ir answers inc is On-Hold ( establish bet & 5200 term esume betw & 7101 term R(s) retrieve	ninate n ween 62 ncoming c oming c (MOH) ween 7 ninate n reen 620 ninate n ed	ormally 200 & 7 call (to call 101 & 5 ormally 00 & 71 ormally	101 with ne /disp 200 with 01	lay)		
		Те	est Results: C	omments				Р	F	N/A	N/S	N/T	В
								Х					

Test Case #	EP-12	Category	Functional Test:	Blind	Transfer			RF	C_Stan	dard	Y
Objective	,	ansfer" calls b	etween DUT(s), Sl	IP an	d SCCP endpoints						
<ul><li>Remote CUCI</li><li>PSTN DN: 21</li><li>Invalid DN:77</li></ul>	DUT(s):7100 & 7 M →DUT:8000; 0-222-5400 77;		1000; SIP:2000; 1000, 2000, 21022	22540	00; Expected Results						
2. 7101 dials 234 3. 8000 goes on-1 4. 7100 dials 710 5. 7100 dials 234 6. 7101 goes on-1 7. 7100 dials 100 8. 7100 dials 710 9. 1000 goes on-1 10. 7100 dials 20 11. 7100 dials 10 12. 1000 goes on 13. 7101 dials 23 14. 7100 dials 23 16. 7100 goes on 17. Retrieve CDR	-8000 $\rightarrow$ 7101 hits hook after 60s 1 $\rightarrow$ 7101 answers -7777 $\rightarrow$ 7100 hits hook – hears reor 0 $\rightarrow$ 1000 answers 1 $\rightarrow$ 7100 hits "Tra hook after 60s 00 $\rightarrow$ 2000 answer 00 $\rightarrow$ 7100 hits "Tr -hook after 20s 4-8000 $\rightarrow$ 8000 an 00 $\rightarrow$ 2000 answer 4-8000 $\rightarrow$ 2000 hit -hook - hears bus 8 from CUCM lling, Called, Dura	s "Transfer"→ "Transfer"→ der tone →7100 hits " nsfer"→7100 rs→7100 hits " nsfer"→7100 swers rs→2000 hits s "Transfer"→ y tone	Transfer" after 30s 7100 is on-hook Transfer" after 30s is on-hook "Transfer" after 30 0 is on-hook "Transfer" after 3(	s )s 0s	<ul> <li>Call establish betw</li> <li>7100 is On-Hold (</li> <li>7100 blind transfe</li> <li>All calls terminate</li> <li>Call establish betw</li> <li>7101 is On-Hold (</li> <li>7101 blind transfe</li> <li>7101 hears reorded</li> <li>All calls terminate</li> <li>Call establish betw</li> <li>1000 is On-Hold (</li> <li>1000 blind transfe</li> <li>All calls terminate</li> <li>Call establish betw</li> <li>1000 blind transfe</li> <li>All calls terminate</li> <li>Call establish betw</li> <li>2000 is On-Hold (</li> <li>2000 blind transfe</li> <li>All calls terminate</li> <li>Call establish betw</li> <li>T100 is On-Hold (</li> <li>7100 blind transfe</li> <li>7100 blind transfe</li> <li>7100 blind transfe</li> <li>7100 blind transfe</li> <li>T100 blind transfe</li> </ul>	MOH) r to 800 normal ween 71 MOH) r to Invær r to normal ween 71 MOH) r to 710 normal ween 71 MOH) r to 100 normal ween 71 MOH) r to 100 normal ween 71 MOH) r to 8000 y tone normal	00 with lly 100 & 7 alid DN lly 100 & 1 01 with lly 100 & 2 00 with 101 & 8 100 & 2 00	2-way a 101 with :7777 000 with 2-way a 000 with 2-way a 000 with 000 with	udio pa 2-way 2-way udio 2-way udio pat	th audio audio audio th audio	
	Te	est Results:	Comments			Р	F	N/A	N/S	N/T	В
phone which is but in this cas	s doing transfer t e after transferri	to drop and <sup>•</sup> ng to an inv	the initial party to	) heai all fa	dure expects the r the reorder tone, ils and the phone party.	X					

Test Case #	EP-13	Category	Functional Tes	st: Consu	It Transfer			RF	C_Stan	dard	Y
Objective		Fransfer" calls	s between DUT(	s), SIP, S	SCCP and PSTN end	points					
<ul><li>Remote CUC</li><li>PSTN DN: 21</li></ul>	>DUT(s):7100 & 7M →DUT:8000;			2225400	; xpected Results						
2.7101 dials 2348 3.7101 hits "Trans 4.8000 goes on-h 5.7100 dials 1000 6.7100 dials 7101 7.7100 goes on-h 9.7100 dials 200 10.7100 dials 200 10.7100 dials 10 11.7100 goes on 12.1000 goes on 13.7101 dials 92 14.7101 hits "Tra 15.7101 hits "Tra	)→1000 answers →7101 answers book book after 60s 0→2000 answers 00→1000 answers -hook	yers 101 is on-hoo →7100 hits "T →7100 hits "T →7100 hits " s→7100 hits " 3335400 ans 7101 dials 7 7101 is on-ho	ok Transfer" after 30 Transfer" after 30 Transfer" after 3 "Transfer" after wers 100 <b>→</b> 7100 answ	)s )s 30s 30s	Call establish betw 7100 is On-Hold (M 7100 consult transf All calls terminate r Call establish betw 1000 is On-Hold (M 1000 consult transf All calls terminate r Call establish betw 2000 is On-Hold (M 2000 consult transf All calls terminate r Call establish betw 2102225400 is On- 2102225400 consu	MOH) fer to 80 normally een 710 MOH) fer to 71 normally fer to 10 normally een 710 MOH) fer to 10 normally een 710	000 with y 101 with y 00 & 20 000 with y 01 & 21 AOH)	2-way 00 with 2-way 00 with 2-way 022254	audio pa 2-way a audio pa 2-way a audio pa 00 with 2	ath udio ath udio ath 2-way a	
17. Retrieve CDF	R from CUCM Illing, Called, Dura			on •	All calls terminate r 12 CDR(s) retrieve Selected fields in C	normally d	ý		N/S	N/T	В

Remote CUCI     PSTN DN: 210     Service param     Media Resour     Assign Media     RPC remotely     Test Procedure 1.7100 dials 7101 2.7101 dials 2348	DUT(s):7100 & 7     M → DUT:8000;     0-222-5400;     neter: Drop Ad Ho     ree Group (MRG)     Resource: Syster     r control IP Phone        →7101 answers=     8000→8000 answ	ce call between DUT(s), SIP, S 2101; SCCP:1000; SIP:2000; c Conference → Never (Defau & Media Resource Group List ( n→Device Pool→ep_pool→Mi s: 1000, 2000, 2102225400; →7101 hits "Conference" after :	lt) (MRG_L)	)	_L				
<ul> <li>Local CUCM-</li> <li>Remote CUCI</li> <li>PSTN DN: 21i</li> <li>Service param</li> <li>Media Resour</li> <li>Assign Media</li> <li>RPC remotely</li> </ul> Test Procedure 1.7100 dials 7101 2.7101 dials 2348	<ul> <li>DUT(s):7100 &amp; 7</li> <li>M → DUT:8000;</li> <li>0-222-5400;</li> <li>neter: Drop Ad Ho</li> <li>rce Group (MRG);</li> <li>Resource: System</li> <li>r control IP Phone</li> <li>I→7101 answers-</li> <li>3000→8000 answ</li> </ul>	c Conference → Never (Defau & Media Resource Group List ( n→Device Pool→ep_pool→M s: 1000, 2000, 2102225400;	(MRG_L)	ource Group List <b>→</b> MRG	_L				
1.7100 dials 7101 2.7101 dials 2348	8000 <b>→</b> 8000 answ	7101 hits "Conference" offer		Expected Results					
2.7101 dials 2348	8000 <b>→</b> 8000 answ	7101 hits "Conference" after							
7. 7100 dials 100 8.1000 goes on-h 9.7100 goes on-h 10. 7100 dials 20 11. 7100 dials 92 12. 7100 hits "Cor 13. 2000 hits "Cor 14. 8000 answers 15. 2102225400 h 16. 7101 answers 17. 2102225400 18. 7100 goes on 19. 2000 goes on 20. 7100 dials 20 21. 7100 dials 10 22. 2000 goes on 23. Retrieve CDR	hook after 30s 1→7101 answers 0→1000 answers 1→2000 answers 102225400→2102 102225400→2102 102225400→2102 102225400→2102 102225400→2102 102225400 hits "Com- hits "Conference" 3→2000 hits "Com- hits "Conference" 3→2102225400 hits 5→2102225400 hits 100→2000 answer 100→7100 resume- hook after 30s 100→7100 resume- 100→7100 resume- 100→7	<ul> <li>→7100 hits "Conference" after</li> <li>→7100 hits "Conference" after</li> <li>s→7100 hits "Conference" after</li> <li>2225400 answers</li> <li>s→2000 dials 2348000</li> <li>ference" after 30s</li> <li>after 30s→2102225400 dials 7</li> <li>ts "Conference" after 30s</li> </ul>	30s 30s er 30s 7101 er 30s	<ul> <li>Call establish betwe</li> <li>7100 is On-hold (M0</li> <li>8000 is conference-</li> <li>3 parties in conference</li> <li>7100 left conference</li> <li>All calls terminate n</li> <li>Call establish betwe</li> <li>2000 is On-Hold (M</li> <li>2102225400, 8000</li> <li>All 5 parties in conference</li> <li>2102225400, 7100 - connect directly</li> <li>All calls terminate n</li> <li>Call establish betwe</li> <li>2000 is placed on-h</li> <li>Conference setup w</li> <li>Call between 7100 a</li> <li>All calls terminate n</li> <li>CDR(s) retrieved</li> <li>Selected fields in Classical setup is a setup of the se</li></ul>	DH) in ace call w 2.7101 & to crmally en 7100 to CH) & 7101 is erence cal & 2000 let cormally en 7100 to cold (MOH as cance and 2000 cormally	ith 3-way 8000 cor & 2000 v conferer Il with 5 ave conf & 2000 v I) Iled resumed	y audio nnect dir vith 2-wa nce-in way aud řerence. vith 2-wa	rectly ay audic lio 8000 &	5 7101
	Те	est Results: Comments		P	F	N/A	N/S	N/T	В
				Х					

Test Case #	EP-15	Category	Functional Test: Call Park	RF	C_Standa	rd	Ν
Objective		k" call for a D	r(s), SIP, SCCP and PSTN endpoints				
<ul><li>Remote CUC</li><li>PSTN DN: 21</li><li>Call Park Cod</li></ul>	<ul> <li>DUT(s):7100 &amp; 7</li> <li>M → DUT:8000;</li> <li>0-222-5400;</li> <li>e: Routing → Call I</li> </ul>	Park <b>→</b> 3001	00; SIP:2000; 00, 2000, 2102225400; Expected Results				
2. 7100 hits "Park 3. 7101 dials park 4. 8000 goes on- 5. 7100 dials 100 6. 1000 hits "Par 7. 7101 dials park 8. 7100 goes on- 9. 2000 dials 710 10. 7101 hits "Par 11. 7100 dials part 12. 2000 goes on 13. 2102225400 dials part 15. 7100 dials part 16. 2102225400 dials part 16. 2102225400 dials part 17. Retrieve CDR	0→1000 answers k" softkey after 10 c code:3001 after 2 nook after 30s 1→7101 answers rk" softkey after 1 rk code:3001 after -hook after 30s dials 7100→7100 "Park" softkey after fk code:3001 after goes on-hook from CUCM lling, Called, Dura	s 20s 20s 0s r 20s answers er 10s r 20s	<ul> <li>Call establish between 7100</li> <li>8000 is parked</li> <li>7101 picks up parked call</li> <li>Call establish between 7100</li> <li>Call terminate normally</li> <li>Call establish between 7100</li> <li>7100 is parked</li> <li>7101 picks up parked call</li> <li>Call establish between 7100</li> <li>Call establish between 7100</li> <li>Call establish between 7100</li> <li>Call establish between 7100</li> <li>Call establish between 2000</li> <li>2000 is parked</li> <li>7100 picks up parked call</li> <li>Call establish between 7100</li> <li>Call establish between 7100</li> <li>Call establish between 7100</li> <li>Call establish between 2102</li> <li>2102225400 is parked</li> <li>7100 picks up parked call</li> <li>Call establish between 7100</li> <li>Call terminate normally</li> <li>8 CDR(s) retrieved</li> <li>Selected fields in the CDR for the parked fields in the cond field for the parked field fie</li></ul>	1 & 8000 with 0 & 1000 with 1 & 7100 with 0 & 7101 with 0 & 2000 with 2225400 & 71 0 & 21022254	2-way aud 2-way aud 2-way aud 2-way aud audio path 00 with 2-w	io io io vay at	
	Те	est Results: (	mments P	F N/A	N/S	N/T	В
			Х				

Test Case #	EP-16	Category	Functional T	est: Call Pa	ark Reversion			RF	C_Stan	dard	Ν
Objective	Verify "Call Par	k Reversion"	call for DUT(s	), SIP and	SCCP endpoints						
<ul><li>Remote CUC</li><li>Call Park Co</li><li>Service Para</li></ul>	tions →DUT(s):7100 & 7 CM →DUT:8000; de: Routing→Call I imeter: Call Park R to remotely control	Park <b>→</b> 3001 eversion Time	er <b>→</b> 60s								
Test Procedure				E	xpected Results						
2. 7100 hits "Pai 3. Do not pickup 4. 7100 is ringin 5. 8000 goes on 6. 7100 dials 10 7. 1000 hits "Pai 8. Do not pickup 9. 1000 is ringin 10. 7100 goes o 11. 2000 dials 7 12. 7101 hits "Pai 13. Do not pickup 14. 7101 is ringi 15. 2000 goes o 16. Retrieve CD	00→1000 answers rk" softkey after 10s parked call for 60s g→1000 answers n-hook after 30s 101→7101 answer ark" softkey after 10 pp arked call for 60 ng→7101 answers n-hook after 30s R from CUCM alling, Called, Dura	s s os os s	ion & Termina	tion	Call establish betwe 8000 is parked 7100 picks up park Call establish betwe Call terminate norm Call establish betwe 7100 is parked 1000 picks up park Call establish betwe Call terminate norm Call establish betwe 2000 is parked 7101 picks up park Call establish betwe Call terminate norm 6 CDR(s) retrieved Selected fields in C	ed call een 710 een 710 ed call een 200 nally een 200 ed call een 710 nally	00 & 80 00 & 10 00 & 71 00 & 71 00 & 71	00 with : 00 with : 00 with : 01 with : 00 with :	2-way a 2-way a 2-way a 2-way a	udio udio udio udio	
	Те	st Results: (	Comments			Р	F	N/A	N/S	N/T	В
						Х				1	1

Test Case #	EP-17	Category	Functional Test: Dire	cted Call Park			RFC	_Stand	ard	Ν
Objective		ted Directed (	Call Park" call betweer	DUT(s) and SIP endpoir	nts					
Pre-Test Condi	tions									
<ul> <li>Remote CUC</li> <li>Enterprise Pail</li> <li>Directed Call</li> <li>Add BLF Call</li> <li>Update Phone</li> <li>Directed Call</li> </ul>	CM →DÙŤ:8000; arameter: BLF Fo   Park DN-3011:R   Park: Device→E   <mark>e Button Templa</mark>	r Call Lists → outing→Direc Device Setting te for all DN(s oned for all (D	cted Call Park→3011 & is→Phone Button Tem i)::Device→Phone→D N(s):Device→Phone→		ate→Bl		·Call Pa	rk BLF		
Test Procedure				Expected Results						
2. 2000 hits "BLI 3. 2000 goes on 4. 7101 dials *30 5. 8000 goes on	-hook )11 to retrieve ca	sted Directed	Call Park after 20s LF is flashing	<ul> <li>Call establish betw</li> <li>8000 is parked</li> <li>7101 retrieves dire</li> <li>Call establish betw</li> </ul>	ected pa veen 80	arked c	all			
7. 2003 hits "BLI 8. 2003 goes on 9. 1000 hits dials 10. 1000 goes o 11. Retrieve CD	-hook s *3011 to retrieve n-hook after 30s R from CUCM alling, Called, Du	sted Directed e call when BL	Call Park after 20s F is flashing ation & Termination	<ul> <li>Calls terminate no</li> <li>Call establish betw</li> <li>8000 is parked</li> <li>1000 retrieves dire</li> <li>Call establish betw</li> <li>Calls terminated no</li> <li>4 CDR(s) retrieved</li> <li>Selected fields in the</li> </ul>	veen 20 ected pa veen 10 ormally d	ark call 000 & 80	000 with			
7. 2003 hits "BLI 8. 2003 goes on 9. 1000 hits dials 10. 1000 goes o 11. Retrieve CD 12. Check the C	<sup>=</sup> " button for Assi -hook s *3011 to retrieve n-hook after 30s R from CUCM alling, Called, Dur s	sted Directed e call when BL	F is flashing	<ul> <li>Call establish betw</li> <li>8000 is parked</li> <li>1000 retrieves dire</li> <li>Call establish betw</li> <li>Calls terminated m</li> <li>4 CDR(s) retrieved</li> </ul>	veen 20 ected pa veen 10 ormally d	ark call 000 & 80	000 with			В

Objective       Verify "Direct Transfer" call from a shared line between DUT(s), SCCP, SIP and PSTN endpoints         Pre-Test Conditions            Local CUCM → DUT(s):7100 & 7101; SCCP:1000; SIP:2000;             Remote CUCM → DUT(s):7100 (shared line) assigned to Line 2 on DUT;7100             Rev CUCM → DUT(s):7100 answers         1.7101 dials 7100 → 7100 answers             1.7101 dials 7100 → 7100 answers             1.7101 dials 234-8000→ 8000 answers             1.910 dials 234-8000→ 8000 answers             1.910 dials 7101→7101 answers             1.910 dials 7101→7101 answers             1.910 dials 7101→7101 answers             1.910 dials 200→2000 answers             1. Scroll to 2 <sup>rd</sup> call and hit select             1.910 dials 1001→7100 answers             1.910 dials 200→2000 answers             1.910 dials 200→21002 answers             2.1000 dials 244-9000             2.1000 dials 244-9000             2.1000 dials 244-9000             2.1000 dials 2	rd N
<ul> <li>Local CUCM → DUT:8000;</li> <li>Remote CUCM → DUT:8000;</li> <li>PSTN: 210-222-5400;</li> <li>DN 1901 (shared line) assigned to Line 2 on DUT:7100</li> <li>RPC is used to remotely control IP Phones: 1000, 2000, 2102225400;</li> <li>Test Procedure         <ul> <li>Call establish between 7101 &amp; 7100 with 2-way</li> <li>7101 dials 7100 → 7100 answers</li> <li>2.7100 selects shared line:DN:1901 after 30s</li> <li>Scroil to 1<sup>st</sup> call and hit select</li> <li>Scroil to 1<sup></sup></li></ul></li></ul>	
<ul> <li>2. 7100 selects shared line:DN:1901 after 30s</li> <li>3. 1901 dials 234-8000→8000 answers</li> <li>4. Scroll to 2<sup>nd</sup> call and hit select and hit "DirTfr"</li> <li>6. 1901 goes on-hook</li> <li>7. 7101 goes on-hook after 30s</li> <li>7. 7100 selects shared line:DN:1901 after 30s</li> <li>7. 7100 selects shared line:DN:1901 after 30s</li> <li>7. 7101 direct transfer to 1000 with 2 way audio</li> <li>7. 7101 direct transfer to 1000 with 2 way audio</li> <li>7. 7101 direct transfer to 1000 with 2 way audio</li> <li>7. 7101 direct transfer to 1000 with 2 way audio</li> <li>7. 7101 direct transfer to 1000 with 2 way audio</li> <li>7. 7101 direct transfer to 1000 with 2 way audio</li> <li>7. 7101 direct transfer to 1000 with 2 way audio</li> <li>7. 7101 direct transfer to 1000 with 2 way audio</li> <li>7. 7101 direct transfer to 2000 with 2 way audio</li> <li>1. Scroll to 2<sup>nd</sup> call and hit select</li> <li>7. 7100 selects shared line:DN:1901 after 30s</li> <li>7. 7101 dials 2000→2000 answers</li> <li>8. Scroll to 2<sup>nd</sup> call and hit select</li> <li>9. Scroll to 2<sup>nd</sup> call and hit select and hit "DirTfr"</li> <li>20. 1901 goes on-hook</li> <li>27. 7100 dials 234-8000</li> <li>27. 7100 dials 234-8000</li> <li>27. 7100 dials 234-8000</li> <li>27. 7100 dials 234-8000</li> <li>28. Scroll to 2<sup>nd</sup> call and hit select</li> <li>26. Scroll to 2<sup>nd</sup> call and hit select</li> <li>27. 1901 goes on-hook</li> <li>28. Scroll to 2<sup>nd</sup> call and hit select</li> <li>28. Scroll to 2<sup>nd</sup> call and hit select</li> <li>29. Retrieve CDR from CUCM</li> <li>30. Check the Calling, Called, Duration, Origination &amp; Termination</li> </ul>	
	audio audio audio audio audio audio
Test Results: Comments P F N/A N/S	N/T B
Cannot have multiple lines and DirTfr softkey on DUT	<u> </u>

Test Case #	EP-19	Category	Functional Test: Automa	ated CD	R Creation			RF	C_Stan	dard	Ν		
Objective		/o "Ad-Hoc C	onference" using DUT(s)	SIP, S	P, SCCP and PSTN endpoints								
Pre-Test Condit	ions												
<ul> <li>Remote CUC</li> <li>PSTN: 210-22</li> <li>Assign Media</li> <li>RPC is used to the second second</li></ul>	Resource: System to remotely control	CCP:5200; S n ➔ Device Po I IP Phones w	IP:6200; ool <b>→</b> ep_pool <b>→</b> Media Re /ith DN: 1000, 2000, 5200	), 6200, Ex	210222540	00; <mark>ults</mark>							
2. 7100 hits "Con 3. 7100 dials 710 4. 2000 dials 710 5. 2000 hits "Con 6. 2000 dials 234 7. 2000 dials 234 7. 2000 dials 100 8. 7101 selects co 9. 7101 goes on- 10. 8000 goes on 11. All other parti 12. Retrieve CDR	1→7101 answers ference" after 20s -8000→8000 answ 0→1000 answers• onference 1 and hi hook after 60s I-hook after 70s cipants ended call & from CUCM Illing, Called, Durat	→7100 hits " 2 <sup>nd</sup> incoming wers→2000 h →2000 hits "( its the "Join" after 120s	Conference" after 30s call its "Conference" after 20 Conference" after 20s softkey	s	Call betwee 210222540 Call establi All 3 partici Call establi 7101 is On Call establi All 3 partici All participa 7101 left cc 8000 left cc All participa 12 Records Selected fie	0 is On- sh betwe pants joi sh betwe Hold (To sh betwe pants joi ants in cc onference onference ants term a retrieve	Hold (Te een 710 in in com een 200 one/Sile een 200 in in com onference e e aninate no	one/Sile 0 & 710 ference 0 & 710 nce) 0 & 8000 ference ce 1 & 2 ormally	nce) 1 with 2 1 1 with 2 0 with 2 0 with 2 2 are join	-way au -way au -way au	dio dio		
	Те	est Results: (	Comments			Р	F	N/A	N/S	N/T	В		

Test Case #	EP-20         Category         Functional Test: Meet-Me         RFC_Standard							dard	Ν	
Objective	Verify "Meet-Me	" Conference	call using DUT(s), S	SCCP and SIP endpoints						
Pre-Test Conditi	ons									
<ul> <li>Remote CUCI</li> <li>Meet-Me #: C</li> <li>Meet-Me Con</li> </ul>	ference initiator (7	t-Me <b>→</b> Add N <mark>′101): Device</mark>	ew <b>→</b> 55555 [meet-me	#] & create CTI_RP with →Calling Search Space →						
Test Procedure				Expected Results						
1. 7101 goes off h 2. 1000 dials 5553 3. 2000 dials 5553 4. 8000 dials 444 5. All 4 members 6. Retrieve CDR f 7. Check the Calli Cause Codes	5 5 -5555 go on-hook after ´ rom CUCM	120 secs		<ul> <li>7101, 1000, 2000, &amp;</li> <li>All 4 parties in confe</li> <li>Conference call term</li> <li>4 CDR(s) retrieved</li> <li>Selected fields in CE</li> </ul> Note: Change the Calling after test is comp	rence w ninate n DR(s) m n <mark>g Sear</mark>	vith 4-wa ormally atch cal	ay audic Is	)		rt
	Te	est Results:	Comments		Р	F	N/A	N/S	N/T	В
					х					

Objective       Verify "Callback" calls between DUT(s), SCCP, SIP and PSTN endpoints         Pre-Test Conditions            L Local CUCM ⇒ DUT(s), 7100 & 7101; SCCP; 1000; SIP:2000; Remote CUCM ⇒ DUT(s). 7100, 87101; SCCP; 1000; SIP:2000; Remote CUCM ⇒ DUT(s). 7100 & 7101; SCCP; 1000; 210-222-5400;          Test Procedure         Expected Results            1. 7100 dials 7101 → 7101 answers 2. 8000 redials 444-7101 → 8000 hts "Callback" softkey and exits 3. 7101 goes on-hook after 60s 1. 7100 dials 1000 → 7101 dars callback alert 5. 7101 answers → 7101 goes on-hook after 60s 11. 2000 dials 1000 → 7101 answers 7101 redials 1000 after callback alert 10. 1000 answers 7101 redials 1000 after callback alert 11. 7101 redials 2000 after callback alert 12. 7101 dials 1000 → 7100 answers 7101 receives callback alert with single button redial Call establish between 1000 & 7101 with 2-way audio 7101 receives callback alert with single button redial Call establish between 2000 & 7100 with 2-way audio 7101 receives callback alert with single button redial Call establish between 2000 & 7101 with 2-way audio 7101 receives callback alert with single button redial Call establish between 2000 & 7101 with 2-way audio Call establish between 2	Test Case #         EP-21         Category         Functional Test: Callback         RFC_Standard         N									Ν		
Local CUCM → DUT(s):7100 & 7101; SCCP:1000; SIP:2000; Remote CUCM → DUT:8000; PSTN DN: 210-222-5400 Mand CW diabled for all phones: RPC is used to remotely control IP Phones:1000, 2000, 210-222-5400; Test Procedure	Objective	Verify "Callback'	' calls betwee	n DUT(s), SCCP, SI	IP and	PSTN endpoints						
with a DUT feature which does a similar functionality. Procedure: DUT calls a busy phone and upon receiving busy tone, the caller will press 5 and hang-up. When the called phone is off the call and goes into available	Local CUCM     Remote CUC     PSTN DN: 2 <sup>-</sup> <b>WM and CW</b> RPC is used     Test Procedure     1. 7100 dials 710     2. 8000 dials 444     3. 7101 goes on-     4. 8000 redials 4     5. 7101 answers     6. 7100 dials 100     7. 7101 dials 100     8. 7100 goes on-     9. 7101 redials 1     10. 1000 answer     11. 2000 dials 7     12. 7101 dials 20     13. 7100 goes o     14. 7101 redials     15. 2000 answer     16. 7101 dials 92     17. 7100 dials 92     18. 2102225400     19. 7100 redials     20. Retrieve CDI     21. Check the C	→DUT(s):7100 & CM →DUT:8000; 10-222-5400 disabled for all ph to remotely control of a state of the state of the state hook after 60s 44-7101 after call →7101 goes on-h 10→7101 after callback s→1000 goes on- 100→7101 hits "Ca hook after 60s 000 after callback s→1000 goes on- 100→7101 nits "Ca hook after 60s 2000 after callback s→1000 goes on- 2000→7101 hits "Ca hook after 60s 2000 after callback s→1001 goes on- 2000→7101 goes on- 2102225400→210 2102225400→210 2002 after callback s→7101 goes on-hook after 92102225400→710 goes on-hook after 92102225400→210 210225400→210 210225400→210 210225400→210 210225400→210 210225400→210 210225400→210 210225400→210 210225400→210 210225400→210 210225400→210 210225400→210 210225400→210 2102255400→210 210255555555555555555555555555555555	ones; ol IP Phones: "Callback" s back alert look after 60s allback" softke alert -hook after 60 rs Callback" soft k alert -hook after 60 2225400 ans 00 hits "Callba er 60s er callback ale ation, Origina	1000, 2000, 210-222 oftkey and exits ey and exits os key and exits os wers ack" softkey & exits ert tion & Termination	Ex • • • • • • • • • • • • •	Call establish betw 8000 hears a busy 7100 & 7101 termi 8000 receives call Call establish betw Call terminate norr Call establish betw 7101 hears a busy 7100 & 1000 termi 7101 receives call Call establish betw Call terminated no Call establish betw 7101 hears a busy 2000 & 7100 termi 7101 receives call Call establish betw Call terminate norr Call establish betw 7100 hears a busy 7100 hears a busy 7100 ka 210222540 7100 receives call Call establish betw 7100 neceives call Call establish betw 7100 receives call Call establish betw 7100 receives call Call establish betw 7100 receives call Call establish betw Call terminate norr 14 CDR(s)s retriev	tone & finate nor back ale veen 800 mally veen 710 tone & finate nor back ale veen 100 read veen 100 read veen 200 tone & finate nor back ale veen 710 tone & finate nor back ale veen 200 tone & finate nor back ale veen 710 tone & finate nor back ale veen finat	displays mally rt with s 10 & 710 10 & 100 displays mally rt with s 10 & 710 displays mally rt with s 10 & 710 displays mate nor rt with s 11 & 210 match ca	"Callba ingle bu 11 with 2 00 with 2 "Callba ingle bu 11 with 2 00 with 2 "Callba ingle bu 1222540 "Callba mally ingle bu 222540 alls	ck Activ tton redi 2-way au 2-way au ck Activ tton redi 2-way au ck Activ tton redi 2-way au ck Activ tton redi 0 with 2 0 with 2	e" ial idio e" ial idio e" ial 2-way a e" ial -way au	ıdio
press 5 and hang-up. When the called phone is off the call and goes into available	with a DUT feat	ure which does a	a similar fund	ctionality.			х					
state, the caller will receive a call back instead of alert message and when the caller answers the call the system will dial the called party.	press 5 and h	ang-up. When th r will receive a c	e called pho all back inst	ne is off the call an ead of alert messag	nd goe ge and	s into available when the caller						

Objective       Verify "Barge" call using DUT(s), SCCP, SIP and PSTN endpoints         Pre-Test Conditions <ul> <li>Local CUCM &gt; DUT(s);7100 &amp; 7101; SCCP: 1000; SIP:2000;</li> <li>Remote CUCM &gt; DUT(s);7100 &amp; 7101; SCCP: 1000; SIP:2000;</li> <li>Remote CUCM &gt; DUT(s);7100 &amp; 7101; SCCP: 1000; SIP:2000;</li> <li>PSTN:210-222-5400</li> </ul> <ul> <li>Built In Bridge Enable&gt; On</li> <li>Party Entrance Tone &gt; True</li> <li>Device &gt; Phone &gt; DN:</li> <li>Single Button Barge &gt; Barge &gt; Barge</li> <li>RPC is used to remotely control IP Phones with DN: 1000, 2000, 2102225400;</li> </ul> <ul> <li>Test Procedure</li> <li>Expected Results</li> <li>Call establish between 8000 &amp; 1901 with 2-way audio</li> <li>All 3 parties conference- in with 3-way audio</li> <li>Barged conference terminate normally</li> <li>Call establish between 8000 &amp; 1901 with 2-way audio</li> <li>All 3 parties conference terminate normally</li> <li>Call establish between 8000 &amp; 1901 with 2-way audio</li> <li>Barged conference terminate normally</li> <li>Call establish between 8000 &amp; 1901 with 2-way audio</li> <li>Barged conference terminate normally</li> <li>Call establish between 2100225400 &amp; 1901 with 2-way audio</li> <li>Barged conference terminate normally</li> <li>Final call terminate normally</li> <li>Call establish between 2100225400 &amp; 1901 with 2-way audio</li> <li>Barged conference terminate normally</li> <li>Final call terminate normally</li> <li>Call establish between 2100</li></ul>	Test Case #	EP-22	Category	Functional Test:	Barge				RF	C_Stan	dard	Ν
• Local CUCM → DUT:8000;         • Remote CUCM → DUT:8000;         • PSTN:210-222-5400         • Built In Bridge Enable → On         • Built In Bridge Enable → On         • Party Entrance Tone → True         • Device → Phone → DN:         • Single Button Barge → Barge         • RPC is used to remotely control IP Phones with DN: 1000, 2000, 2102225400;         Test Procedure         • Solutias 444-1901         2. 1901 answers (Shared line on 7100)         3. 7101 hits line 1901 and selects barge after 20s         4. 8000 goes on-hook after 60s         5. 1900 goes on-hook after 60s         6. 1901 answers (Shared line on 7100)         7. 7101 hits line 1901 and selects barge after 20s         8. 1000 goes on-hook after 60s         9. 8000 dials 4441901         10. 1901 answers (Shared line on 2000)         11. 7100 hits line 1901 and selects barge after 20s         8. 1000 goes on-hook after 60s         9. 8000 dials 4441901         10. 1901 answers (Shared line on 2000)         11. 7100 hits line 1901 and selects barge after 20s         12. 7100 goes on-hook after 60s         13. 8000 goes on-hook after 60s         13. 8000 goes on-hook after 60s         14. 2102225400 dials 9414901         15. 1901 answers (Shared line on 2000) </td <td>Objective</td> <td>Verify "Barge" o</td> <td>call using DU</td> <td>T(s), SCCP, SIP a</td> <td>nd PSTN er</td> <th>ndpoints</th> <th></th> <th></th> <th></th> <th></th> <th></th> <td></td>	Objective	Verify "Barge" o	call using DU	T(s), SCCP, SIP a	nd PSTN er	ndpoints						
<ul> <li>Remote CUCM → DÚT:8000;</li> <li>PSTN:210-222-5400</li> <li>Cluster-wide Service Parameters:         <ul> <li>Built In Bridge Enable→On</li> <li>Party Entrance Tone→True</li> </ul> </li> <li>Device→Phone→DN:         <ul> <li>Shared line DN:1901 added to devices with DN:7100, 7101,1000, &amp; 2000</li> <li>Privacy on Phones with shared lines→Off</li> <li>Single Button Barge→Barge</li> </ul> </li> <li>RPC is used to remotely control IP Phones with bN: 1000, 2000, 2102225400;</li> <li>Test Procedure         <ul> <li>(a) Shared line on 7100)</li> <li>(b) 101 answers (Shared line on 7100)</li> <li>(c) 101 hits line 1901 and selects barge after 20s</li> <li>(c) 101 answers (Shared line on 1000)</li> <li>(c) 101 hits line 1901 and selects barge after 20s</li> <li>(c) 101 hits line 1901 and selects barge after 20s</li> <li>(c) 100 dials 1901</li> <li>(c) 101 hits line 1901 and selects barge after 20s</li> <li>(c) 100 dials 1901</li> <li>(c) 101 hits line 1901 and selects barge after 20s</li> <li>(c) 100 dials 4441901</li> <li>(c) 2000 dials 441901</li> <li>(c) 2000 dials 4419</li></ul></li></ul>	Pre-Test Cond	itions										
2. 1901 answers (Shared line on 7100)3. 7101 hits line 1901 and selects barge after 20s4. 8000 goes on-hook after 60s5. 7100 dials 19016. 1901 answers (Shared line on 1000)7. 7101 hits line 1901 and selects barge after 20s8. 1000 goes on-hook after 60s9. 8000 dials 444190110. 1901 answers (Shared line on 2000)11. 7100 hits line 1901 and selects barge after 20s12. 7100 goes on-hook after 60s13. 8000 goes on-hook after 70s14. 2102225400 dials 9410444190115. 1901 answers (Shared line on 7100)16. 7101 hits line 1901 and selects barge after 20s17. 2102225400 goes on-hook after 60s18. Retrieve CDR from CUCM19. Check the Calling, Called, Duration, Origination & Termination Cause CodesTest Results: CommentsPFast Results: CommentsPFast Results: CommentsPPFN/AN/SN/T	<ul> <li>Remote CU</li> <li>PSTN:210-2</li> <li>Cluster-wide</li> <li>Built</li> <li>Party</li> <li>Device &gt; Ph</li> <li>Priva</li> <li>Single</li> <li>RPC is used</li> </ul>	CM → DÙT:8000; 222-5400 a Service Paramete n Bridge Enable→ Entrance Tone→ one→DN: ad line DN:1901 ac cy on Phones with a Button Barge→E d to remotely contr	ers: ▶On True dded to devic shared lines Barge	es with DN:7100, 7 ➔Off	00, 2102225	5400;						
	2. 1901 answers 3. 7101 hits line 4. 8000 goes or 5. 7100 dials 19 6. 1901 answers 7. 7101 hits line 8. 1000 goes or 9. 8000 dials 44 10. 1901 answer 11. 7100 hits lin 12. 7100 goes or 13. 8000 goes of 14. 2102225400 15. 1901 answer 16. 7101 hits lin 17. 2102225400 18. Retrieve CD 19. Check the C	s (Shared line on 7 1901 and selects I-hook after 60s 01 s (Shared line on 1 1901 and selects I-hook after 60s 41901 ers (Shared line or e 1901 and select In-hook after 70s 0 dials 9410444190 rs (Shared line on e 1901 and select 0 goes on-hook after R from CUCM calling, Called, Dur	barge after 2 1000) barge after 2 n 2000) s barge after 01 7100) s barge after er 60s	0s 20s 20s	<ul> <li>All 3</li> <li>Barg</li> <li>Call</li> <li>All 3</li> <li>Barg</li> <li>Call</li> <li>All 3</li> <li>Barg</li> <li>Final</li> <li>Call</li> <li>All 3</li> <li>Barg</li> <li>all 3</li> <li>Barg</li> <li>8 CE</li> <li>Sele</li> </ul>	parties confere ed conference i establish betwe parties conference i establish betwe parties conference i call terminate i establish betwe parties confere ed conference i ed conference i establish betwe parties confere ed conference i IR(s) retrieved	ence-in termina en 7100 ence-in termina en 8000 ence wit termina normally en 2100 ence wit termina	with 3-v te norm 0 & 190 with 3-v te norm 0 & 190 th 3-way te norm y 222540( th 3-way te norm	vay audi ally 1 with 2: vay audi ally 1 with 2: / audio ally 2 & 190 <sup>-</sup> / audio ally	io -way au io -way au	dio dio	dio
Cannot provision a second line on DUT							Р	F	N/A	N/S	N/T	В
		Cannot p	provision a s	econd line on DU	г					х		

Test Case #         EP-23         Category         Functional Test: cBarge         RFC_Standard         N										
Objective	Verify "cBarge"	call using DU	JT(s), SCCP, SIP and PSTN	endpoints						
Pre-Test Cond	itions									
Remote CU     PSTN DN: 2     Enable Barg     Pa     Device→Ph     Share     Privae	uilt In Bridge Enab arty Entrance Tone one <b>→</b> DN:	ng Cluster-wid le→On e→True dded to devic shared lines• Barge	le Service Parameters: es with DN:7100, 7101,1000 → Off							
<ul> <li>RPC is used</li> <li>Test Procedure</li> <li>1. 8000 dials 44</li> <li>2. 7101 selects</li> <li>3.1901 goes on</li> <li>4. 8000 goes or</li> <li>5. 2102225400</li> <li>6. 2000 selects</li> <li>7. 7100 selects</li> <li>8. 1901 goes or</li> <li>9. Remaining 3</li> <li>10. Retrieve CD</li> </ul>	4-1901 → 1901 and line 1901 after 203 -hook after 60s (St -hook after 80s dials 9410444190 line 1901 after 203 line 1901 Select 1 -hook after 60s (St parties go-hook aft R from CUCM calling, Called, Dur	swers (Shared s hared line on 1 → 1901 ansv s 901 after 30s Shared line on fter 120s	7100) wers (Shared line on 1000)	<ul> <li>Expected Rest</li> <li>Call establis</li> <li>All 3 parties</li> <li>cBarge conf</li> <li>Call betwee</li> <li>All 4 parties</li> <li>7100 termin</li> <li>3 parties ter</li> <li>11 CDR(s) r</li> <li>Selected fie</li> </ul>	h betw confer erence n 2102 confer ated co minate etrieve	ence-in termina 225400 ence-in onferend cBarge d	with 3-v ate norm & 1901 with 4-v ce 1 <sup>st</sup> confere	vay audi nally with 2-v vay audi ence aft	io vay auc io	lio
<ul> <li>RPC is used</li> <li>Test Procedure</li> <li>1. 8000 dials 44</li> <li>2. 7101 selects</li> <li>3.1901 goes on</li> <li>4. 8000 goes or</li> <li>5. 2102225400</li> <li>6. 2000 selects</li> <li>7. 7100 selects</li> <li>8. 1901 goes or</li> <li>9. Remaining 3</li> <li>10. Retrieve CD</li> <li>11. Check the C</li> </ul>	4-1901 → 1901 and line 1901 after 203 -hook after 60s (Si -hook after 80s dials 9410444190 line 1901 after 203 line 1901 Select 1 -hook after 60s (Si parties go-hook after R from CUCM calling, Called, Dures	swers (Shared s hared line on 1 → 1901 ansv s 901 after 30s Shared line on fter 120s	d line on 7100) 7100) wers (Shared line on 1000) 7100) ttion & Termination	Expected Results Call establis All 3 parties cBarge conf Call betwee All 4 parties 7100 termin 3 parties ter 11 CDR(s) r	h betw confer erence n 2102 confer ated co minate etrieve	ence-in termina 225400 ence-in onferend cBarge d	with 3-v ate norm & 1901 with 4-v ce 1 <sup>st</sup> confere	vay audi nally with 2-v vay audi ence aft	io vay auc io	lio

Test Case #										
Objective	Verify "Hold/Resume" call on a shared line using DUT(s), SCCP and SIP endpoints									
Pre-Test Condit	tions									
<ul> <li>Remote CUC</li> <li>Shared line I</li> <li>Privacy on P</li> <li>RPC is used</li> </ul>	hones with shared to remotely contro	o devices with d lines <b>→</b> Off	:1000; SIP:2000; n DN:7101,1000, & 2 with DN: 1000, 200	0;						
Test Procedure				Expected Results						
2. 1901 hits "Hol 3. 1901 hits "Res 4. 1901 goes on- 5. 7100 dials 190 6. 1901 hits "Hol 7. 1901 hits "Hol 7. 1901 hits "Res 8. 7100 goes on 9. 7100 dials 190 10. 1901 hits "Res 12. 1901 goes on 13. 2001 dials 19 14. 1901 hits "Res 15. 1901 hits "Res 16. 1901 goes on 17. Retrieve CDI	1 → 1901 answer d" softkey after 30 sume" softkey after hook after 80s 01 → 1901 answer old" softkey after soure" softkey after 01 → 1901 answe old" softkey after 3 esume" softkey after soure" softkey after n-hook after 80s R from CUCM alling, Called, Dur	Ds er 30s er 30s er 30s er 30s ter 30s ter 30s ers (Shared Li 30s ter 30s	e on 1000) ne on 2000)	<ul> <li>Call establish betwee</li> <li>7100 is On-Hold (to</li> <li>7100 &amp; 1901 resume</li> <li>Call terminate norma</li> <li>Call establish betwee</li> <li>7100 is On-Hold (to</li> <li>7100 &amp; 1901 resume</li> <li>Call establish betwee</li> <li>7100 is On-Hold (to</li> <li>7100 &amp; 1901 resume</li> <li>Call establish betwee</li> <li>7100 &amp; 1901 resume</li> <li>Call terminate norma</li> <li>Call establish betwee</li> <li>2001 is On-Hold (to</li> <li>2001 &amp; 1901 resume</li> <li>Call terminate norma</li> <li>Call establish betwee</li> <li>2001 is On-Hold (to</li> <li>2001 &amp; 1901 resume</li> <li>Call terminate norma</li> </ul>	ne or si e call ally en 7100 ne or si e call ally en 7100 ne or si e call ally en 2001 ne or si e call ally	ilence) 0 & 190 ilence) 0 & 190 ilence) 1 & 190 ilence)	1 with 2 1 with 2 1 with 2	-way au -way au	ıdio ıdio	
	T	est Results:	Comments		Р	F	N/A	N/S	N/T	В
	Cannot p	provision a s	econd line on DUT		1			Х		1

Test Case #	EP-25	Category	ber for Windows			RF	C_Stan	dard	Y	
Objective	Verify Jabber c	alls originating	g & terminating to DL	T(s) endpoints (Jabber	for Win	dows)				
			Conditions							
<ul><li>Remote CU</li><li>Jabber for V</li></ul>	I→DUT(s):7100 & CM →DUT:8000; /indows (Device→ C with Jabber clien	Phone <b>→</b> Add		DN:1922; End User:juse	r01/1234	456)				
	Test Pr	ocedure		Expected Results						
Test ProcedureExpected Results1. 7100 dials 1922 (Duration=30s)3 calls establish with 2-way audio2. 1922 dials 7101 (Duration=30s)3 calls terminate normally3. 8000 dials 444-1922 (Duration=30s)3 CDR(s) retrieved4. Calling and Called party goes on-hook alternatively5. Retrieve CDR from CUCM6. Check the Calling, Called, Duration, Origination & Termination Cause CodesSelected fields in CDR(s) match calls										
	Т	est Results:	Comments		Р	F	N/A	N/S	N/T	В
					Х					
					ļ	ļ	1	II.	I	<u> </u>

Test Case #	EP-26	Category	Communicator			RF	C_Stan	dard	Y	
Objective	Verify IP Comm	nunicator calls	s originating & termina	ating to DUT(s) endpoint	S					
			Conditions							
Remote CU(     Launch IP C     Ve     Ve     Ve     CIPC Creden	CM →DÙT:8000;	PC: Phone F ne: CIPC0000 ers:10.10.20.2 23456	211	·						
	Test Pro	ocedure		Expected Results						
2. 1940 dials 71 3. 8000 dials 44 4. 1940 dials 23 5. Calling and C 6. Retrieve CDR	lling, Called, Dura	) =30s) =30s) n-hook altern	atively ion & Termination	<ul> <li>4 calls establish w</li> <li>4 calls terminate r</li> <li>4 CDR(s) retrieve</li> <li>Selected fields in</li> </ul>	normally d	ý				
	T	est Results:	Comments		Р	F	N/A	N/S	N/T	В

Test Case #	EP-27 Category Functional Test: Video Endpoints							C_Stan	dard	Y				
Objective	Verify video calls originating & terminating to DUT(s) endpoints													
Pre-Test Conditions														
<ul> <li>Local CUCM→DUT(s): 7100 &amp; 7101;</li> <li>Remote CUCM→DUT DN:8000;</li> <li>Video capable phone DN: 2003</li> </ul>														
Test Procedure Expected Results														
<ol> <li>7100 dials 2000</li> <li>2003 dials 7100</li> <li>8000 dials 4444</li> <li>Calling and Ca</li> <li>Retrieve CDR 1</li> <li>Check the Calling Cause Codes</li> </ol>	1 (Duration=30s) 2005 (Duration=3 lled party goes on rom CUCM	<ul> <li>3 calls establish with 2-way audio</li> <li>If DUT is video-capable, 2-way video/audio streaming occurs from both devices with acceptable quality</li> <li>3 calls terminate normally</li> <li>3 CDR(s) retrieved</li> <li>Selected fields in CDR(s) match calls</li> </ul>												
Test Results: Comments							N/A	N/S	N/T	В				
Video calling is not supported by DUT								Х						

Test Case #	EP-28	Category	Functional Test: Extension Mobility	RFC_Standard	Ν						
Objective	ective Verify DUT(s) supports "Extension Mobility" call										
Pre-Test Conditi	ons										
<ul> <li>Remote CUCI</li> <li>PSTN: 210-22</li> <li>Extension Mol</li> <li>Extension Mol</li> <li>Create Virtual</li> <li>Extension Mol</li> <li>Extension Mol</li> <li>Create User/F</li> </ul>	bility Service activ bility Service prov Device Profile: De bility enabled on 7 bility Service subs PIN: emuser01/123	CCP DN:520 ated & starte isioned : Device evice → Device 100: Device cribed on 710 3456; Associa	0; SIP DN:6200;	→EM							

Test Procedure	Expected Results
<ol> <li>7100 hits "Services" button and selects EM service</li> <li>7100 logs in with "emuser01/123456"</li> <li>1934 dials 1000→1000 answers →1934 on-hook after 30s</li> <li>2000 dials 1934→1934 answers→2000 on-hook after 30s</li> <li>7101 dials 1934→1934 answers→7101 on-hook after 30s</li> <li>61934 dials 234-5200→5200 answers→1934 on-hook after 30s</li> <li>6200 dials 444-1934→1934 answers→6200 on-hook after 30s</li> <li>1934 dials 92102225400→2102225400 answers</li> <li>2102225400 goes on-hook after 30s</li> <li>1934 hits "Services" button and selects EM service</li> <li>11. 1934 logs out</li> <li>Retrieve CDR from CUCM</li> <li>Check Calling, Called, Duration, Origination &amp; Termination Cause Codes</li> </ol>	<ul> <li>Login successful – phone rebooted with DN:1934</li> <li>6 calls establish with 2-way audio</li> <li>All calls terminate normally</li> <li>1934 logs out and device rebooted to 7100 device profile</li> <li>6 CDR(s) retrieved</li> <li>Selected fields in CDR(s) match calls</li> </ul>
Test Results: Comments	P F N/A N/S N/T B
Extension Mobility functionality (softkey) is not possi	ble on DUT. X

Test Case #	EP-29	Category	Functional Test: H	lunt G	Group			RF	C_Stan	dard	Ν
Objective	Verify "Hunt Gr	oup" calls usi	ng DUT(s), SCCP, S	SIP a	nd PSTN endpoints						
Pre-Test Conditi	ons										
<ul> <li>Remote CUCI</li> <li>PSTN: 210-22</li> <li>Hunt Group P Route call to I</li> </ul>	ilot 3000 (1 <sup>st</sup> mem Destination=234-8	CCP DN:520 nber-7101; 2 <sup>nd</sup> 3000;	0; SIP DN:6200;	, 212	ber-2000;), Queuing † 2225400; pected Results	flag ena	ıbled, m	ax. wait	ing time	r=60 se	CS,
1. 7100 dials 3000 2. 7101 dials 2000 3. 7100 dials 3000 4. 2000 goes on h 5. 7101 dials 1000 6. 7100 dials 3000 7. 2122225400 dials 8. 2000 goes on-h 9. 1000 goes on-h 10. Retrieve CDR 11. Check the Call Cause Codes	<ul> <li>→2000 answers</li> <li>→1000 answers</li> <li>→1000 answers</li> <li>→1000 answers</li> <li>&gt;→2000 answers</li> <li>als 414443000 →</li> <li>als 414443000 →</li> <li>alook after 60s</li> <li>book</li> <li>from CUCM</li> </ul>	<ul> <li>→1000 on-ho</li> <li>→7100 on-ho</li> <li>&gt;2000 answe</li> </ul>	ook after 60s ook after 60s rs	• • • • • • • • • •	Call route to hunt gro Call establish betwe Call terminate norma 7101 & 2000 membe Call route to hunt gro Call establish betwe Call terminate norma 7101 & 1000 membe Call route to hunt gro Call establish betwe Call terminate norma Call route to hunt gro Call establish betwe Call terminate norma 6 CDR(s) retrieved Selected fields in CE	en 710( ally ers are oup me en 710( ally ers are oup me en 710( ally oup me en 2102 ally	) & 710 <sup>-</sup> busy mber 10 ) & 1000 busy mber 20 ) & 2000 mber 20 2225400	1 with 2- 100 1) with 2- 100 1) with 2- 100 100 & 200	∙way au ∙way au	dio dio	udio
	Те	est Results:	Comments			Р	F	N/A	N/S	N/T	В
						Х					

Test Case #	EP-30	Category	Functional Test: H	lunt G	roup				RF	C_Stan	dard	Ν
Objective	Verify "Hunt Gro	fy "Hunt Group" calls on DUT(s) when no members are available										
<ul> <li>Remote CUCI</li> <li>PSTN: 210-22</li> <li>Hunt Group P</li> <li>Call Routing 2</li> </ul>	<ul> <li>DUT(s):7100 &amp; 3</li> <li>M → DUT:8000; S</li> <li>22-5400;</li> <li>ilot 3010 (1<sup>st</sup> merr</li> <li>Route/Hunt→Hu</li> <li>Route/Hunt→Hu</li> <li>Route/Hunt→Hu</li> <li>Route/Hunt→Hu</li> </ul>	CCP DN:520 hber-7101), Q nt Pilot→301 nt Pilot→301 nt Pilot→301 nt Pilot→301	, , ,	s dest s dest s dest s dest s dest	ination→2 ination→1 ination→2 ination→9	34-8000; 000; 000;						
Test Procedure           1. 7101 stays off-           2. 7100 dials 3011           3. 7100 dials 3011           4. 7100 dials 3011           5. 7100 dials 3014           6. 2102225400 gd           7. 7101 goes on-+           8. Retrieve CDR f           9. Check the Calli           Cause Codes	0→8000 answers 2→1000 answers 3→2000 answers 4→2102225400 a bes on-hook after hook from CUCM	<ul> <li>→ 8000 on-he</li> <li>→ 1000 on-he</li> <li>→ 7100 on-he</li> <li>→ 7100 on-he</li> <li>nswers</li> <li>60s</li> </ul>	ook after 60s ook after 60s	• • • • • • • • • • • • •	HG memb Hunt Grou Call route Call establ Call termin Call route Call establ Call termin Call routec Call establ Call termin Call routec Call establ Call termin Call routec Call establ Call termin 4 CDR(s) n Selected fi	er-7101 is p has no r to hunt gro ish betwee ate norma to hunt gro ish betwee ated norm I to hunt g ish betwee ated norm I to hunt g ated norm	membe oup alte en 7100 ally oup alte en 7100 nally roup al en 7100 nally roup al en 7100 nally	rs avail ernate c 0 & 800 ernate c 0 & 100 ternate 0 & 200 ternate 0 & 210	lestination 0 with 2 lestination 0 with 2 destination 0 with 2 destination 222540	-way au on 1000 -way au tion 200 -way au tion 210	dio dio 0 dio 222540	
	Te	est Results: (	Comments				Р	F	N/A	N/S	N/T	В
							Х					

Test Case #	EP-31	Category	Functional Test: H	lunt Group			RF	C_Stan	dard	Ν
Objective	Verify "Hunt Gro	oup" calls on l	OUT(s) when maxin	num queue length excee	eded					
Pre-Test Condit	ions									
<ul> <li>Remote CUC</li> <li>PSTN: 210-22</li> <li>Hunt Group P # of callers in</li> </ul>	rilot 3015 (1 <sup>st</sup> mem n queue=1;	CCP DN:520 ber-2000), Q	0; SIP DN:6200;	l, max. waiting timer=60 , 2102225400;	secs, Ro	ute call	to Desti	nation d	isabled;	Max.
Test Procedure				Expected Results						
2. 7101 dials 301 3. 8000 dials 444 4. 7100 goes on- 5. Retrieve CDR	-3015 hook after 200 sec		n & Termination	<ul> <li>Call route to hunt</li> <li>Call establish betw</li> <li>7101 &amp; 8000 waiti</li> <li>Maximum number</li> <li>Maximum wait tim</li> <li>Both calls (8000 &amp;</li> <li>3 CDR(s) retrieve</li> <li>Selected fields in</li> </ul>	veen 7100 ng in que of callers er exceed 7101) we d	0 & 200 ue s in quei ded 60s ere not f	0 with 2 ue excee terminat	eded		D
	Te	est Results:	Comments		Р	F	N/A	N/S	N/T	В
					Х					
						1	1	<u>  </u>		<u> </u>

Test Case #	EP-32	Category	Functional Test: S	Secure I	Endpoint		RFC_Standard	Ν
Objective		ated" call be	tween DUT(s), SCC	CP, SIF	and PSTN endpoir	nts		
<ul> <li>Remote CU0</li> <li>PSTN: 2102.</li> <li>Enterprise P</li> <li>Assign author</li> <li>71</li> <li>71</li> <li>20</li> </ul>	I→DUT(s):7100 8 SCCP: SCCP: CM →DUT:8000 ( 225400; arameter: Cluster enticated Phone S 00 & 7101:Device 01: Device Secur 01: Device Secur	1000; SIP:200 1001; SIP:200 Non-Secure); Security Mod ecurity Profile >Phone>D ity Profile=>5 ity Profile>89	00 (Non-Secure); 01 ( Authenticated); e → 1 (Mixed Mode) is to devices: N→Device Security 7975_SCCP_Authe 145_SIP_Authentica	e) <mark>:y Profil</mark> e enticate :ated			ecure_Authenticated	
Test Procedure				Exp	ected Results			
1. 7100 dials 710 <sup>-</sup> 2. 7100 dials 234- 3. 7100 dials 100 <sup>-</sup> 4. 2001 dials 710 <sup>-</sup> 5. 1000 dials 710 <sup>-</sup> 6. 7101 dials 2000 7. 7100 dials 2102 8. 7100 goes on-h 9. Retrieve CDR f 10. Check the Cal Origination &	8000 3000 answ 3000 300 answers 3000 answers 3000 answers 3000 answers 3000 answers 3000 answers 3000 210222 3000 after 30s 3000 CUCM 1000 Called, Dura termination Caus	vers → 8000 o → 1001 on-ho → 7101 on-ho → 7100 on-ho → 2000 on-ho 25400 answer tion, Secured e Codes	n-hook after 30s ok after 30s ok after 30s ok after 30s ok after 30s s Status,	CO     CO	Call terminate norma lon-Secure call betw Call terminate norma authenticated call betw Call terminate norma authenticated call betw Call terminate norma lon-Secure call betw Call terminate norma lon-Secure call betw Call terminate norma lon-Secure call betw Call terminate norma CDR(s) retrieved selected fields in CD callSecuredstatus	ally         veen 7100 &         ally         atween 7100 &         atween 2001 &         ally         atween 7100 &         ally         veen 7100 &         ally         veen 7100 &         ally         veen 2000 &         ally         veen 2102225         ally         ally	calls or unsecured calls	) lio )
Authenticated p		est Results: C	omments by the DUT. But t	the sar	ne test case was	P F	N/A N/S N/T	ГВ
			(TLS) profile on t					

Test Case #	EP-33	Category	Functional Test: J	loin A	cross Line			RF	C_Stan	dard	Ν
Objective		oss Lines" ca	lls between DUT(s)	), SCC	CP, SIP and PSTN e	ndpoint	S				
<ul> <li>Remote CUCI</li> <li>PSTN: 21022:</li> <li>Enable JAL fo</li> <li>Shared Line 1</li> <li>RPC is used t</li> </ul>	<ul> <li>DUT(s):7100 &amp; 7</li> <li>M → DUT:8000;</li> <li>25400;</li> <li>r all phones :Devi</li> <li>901 assigned to 7</li> </ul>	ce <b>→</b> Phone <b>→</b> 101, 1000, &	DN→Join across L	one <b>-)</b> ), 2102	• <b>DN→2<sup>nd</sup> line→DN</b> 2225400;	=1901					
Test Procedure				Ex	pected Results						
1. 7100 dials 190 2. 8000 dials 444 3. 7101 selects lir 4. 8000 goes on-f 5. 7100 dials 190 6. 7101 dials 100 7.1000 selects lin 8. 7101 goes on-f 9. 7100 dials 190 10. 8000 dials 444 11. 2000 selects l 12. 7100 goes on- 13. 2102225400 di 14. 1901 answers 15. 8000 dials 444 16. 7101 selects l 17. 2102225400 di 18. Retrieve CDR 19. Check the Ca Cause Codes	7101 → 7101 ans 1901 and hits so 1000 answers 1→1901 answers 0→1000 answers 1→1901 answers 1→1901 answers 1→2000→2000 ans 1→1901 answers 1→2000→2000 ans 1→1901 and hits 1→00k after 120s 1→1901 and hits 1→00k after 100 (Shared line on 7 1→7101→7101 ans 1→101→7101 ans 1→100 and hits 1→00k after 1→00k	wers oftkey "Join" (Shared Line oftkey "Join" (Shared Line swers softkey "Join" 1 (101) swers softkey "Join" r 120s tion, Originati	on 1000) on 2000) on & Termination		Call establish betw 1901 is On-Hold (M Call establish betw 7100 & 8000 joined Call terminate norm Call establish betw 1901 is On-Hold (M Call establish betw 7100 & 7101 joined Call terminate norm Call establish betw 7100 & 8000 join ir Call establish betw 7100 & 8000 join ir Call terminate norm Call establish betw 1901 is placed on-I Call establish betw 1901 is placed on-I Call establish betw 2102225400 & 800 Call terminate norm CDR(s)s retrieved Selected fields in C	IOH) een 710 I in a cal hally een 710 IOH) een 710 hold (MC een 710 hold (MC een 210 hold (MC een 210 hold (MC een 800 0 join in hally	1 & 800 I, 7101 0 & 190 I & 100 I, 1000 I, 1000 O & 190 O & 190 O & 190 O & 2000 O drc 2225400 OH) 0 & 710 a call. 7	0 with 2 drops fro 1 with 2 0 with 2 drops fro 1 with 2 0 with 2 0 with 2 0 with 2 0 with 2 0 & 190 1 with 2 1	-way au om call -way au om call -way au om call -way au call 1 with 2- -way au	dio dio dio dio -way au dio	dio
	Те	est Results: (	Comments			Р	F	N/A	N/S	N/T	В
	Cannot a	idd a second	l line on the DUT						x		

Test Case #	EP-34	Category	Functional Test: Hotline	RFC_Standard	Ν
Objective	Verify "Hotline"	calls betweer	n DUT(s), SCCP, SIP and PSTN endpoints		
Pre-Test Conditi	ons				
<ul> <li>Remote CUCI</li> <li>PSTN: 21022</li> <li>Hotline Config</li> <li>Call</li> <li>Call</li> <li>Call</li> </ul>	uration to dial out Routing → Class Routing → Class Routing → Transl Translation Partition → CSS→css	t 234-8000: of Control $\rightarrow$ ation Pattern p Pattern bla pt_hotline_2348	Partition→Add New→pt_hotline_2348000 Calling Search Space→Add New→css_hotline_2348000 →Add New: ank 48000		

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Procedure         1. 7100 goes off-hook → 8000 rings & answers         2. 7100 goes on-hook after 30s         3. 1000 goes off-hook → 8000 rings & answers         4. 1000 goes on-hook after 30s         5. 2000 goes off-hook → 8000 rings & answers         6. 8000 goes on-hook after 30s         7. 7101 goes off-hook → 8000 rings & answers         8. 7101 goes on-hook after 30s         7. 7101 goes on-hook after 30         9. Retrieve CDR from CUCM         10. Check the Calling, Called, Duration, Origination & Termination Cause Codes         Note:         Upon completion of the test, change CSS for 7100, 7101, 1000 & 2000 → None         CUCM Administration:         Device → Phone → DN → CSS → None	<ul> <li>Expected Results</li> <li>8000 ringing</li> <li>Call establish between 7100 &amp; 8000 with 2-way audio</li> <li>Call terminate normally</li> <li>8000 ringing</li> <li>Call establish between 1000 &amp; 8000 with 2-way audio</li> <li>Call terminate normally</li> <li>8000 ringing</li> <li>Call establish between 2000 &amp; 8000 with 2-way audio</li> <li>Call establish between 2000 &amp; 8000 with 2-way audio</li> <li>Call terminate normally</li> <li>2102225400 ringing</li> <li>Call establish between 7101 &amp; 2102225400 with 2-way audio</li> <li>Call terminate normally</li> <li>4 CDR()s retrieved</li> <li>Selected fields in CDR match calls</li> </ul>
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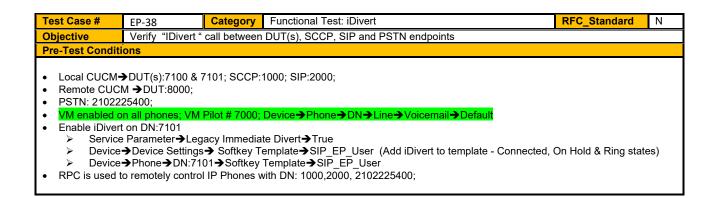
Test Case #	EP-35	Category	Functional Test: Group Pickup	RFC_Standard	Ν
Objective	Verify "Group F	vickup" calls be	etween DUT(s), SCCP, SIP and PSTN endpoi	nts	
Pre-Test Condit	tions				
<ul> <li>Remote CUC</li> <li>PSTN: 21022</li> <li>Group Pickup</li> <li>Call R</li> <li>Call R</li> <li>Device</li> <li>Device</li> </ul>	o configured on all outing→Call Picku outing→Call Picku	phones; Group up Group → Add up Group → Add update Call Pic update Call Pic	000; SIP:2000; b: Sales (DN: 7100 & 1000); Group: TAC (DN I New→Sales (DN:3005;Visual Alert; Calling & I New→TAC (DN:3006;Visual Alert; Calling & kup Group to Sales for 7100 & 1000; kup Group to TAC for 7101 & 2000; th DN: 1000,2000, 2102225400;	& Called party checked)	

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Test Procedure	Expected Results					
<ol> <li>8000 dials 444-7100</li> <li>1000 goes off-hook, hits "Group Pickup" softkey</li> <li>1000 enters Sales Group_Pickup DN:3005</li> <li>1000 goes on-hook after 60s</li> <li>8000 dials 444-2000</li> <li>7101 goes off-hook, hits "Group Pickup" softkey</li> <li>7101 enters TAC Group_Pickup DN:3006</li> <li>8000 goes on-hook after 60s</li> <li>2102225400 dials 4104441000</li> <li>7100 goes off-hook, hits "Group Pickup" softkey</li> <li>7100 goes off-hook, hits "Group Pickup" softkey</li> <li>7100 goes off-hook, hits "Group Pickup N:3005</li> <li>2102225400 goes on-hook after 60s</li> <li>Retrieve CDR from CUCM</li> <li>Check the Calling, Called, Duration, Origination &amp; Termination Cause Codes</li> </ol> Note: Upon completion of the test, change Call Pickup Group for 7100, 7101, 1000 & 2000→ None CUCM Administration: Device → Phone → DN → Line → Call Pickup Group → None	<ul> <li>7100 in alerting state</li> <li>Call establish between 8000</li> <li>Call terminate normally</li> <li>2000 in alerting state</li> <li>Call establish between 8000</li> <li>Call terminate normally</li> <li>1000 in alerting state</li> <li>Call establish between 21022</li> <li>Call terminate normally</li> <li>6 CDR(s) retrieved</li> <li>Selected fields in CDR match</li> </ul>	& 7101 225400	with 2-	-way au	dio	lio
Test Results: Comments	Р	F	N/A	N/S	N/T	В
	Х					

Test Case #	EP-36	Category	Functional Test:	: Do N	Not Disturb (DND)			RF	C_Stan	dard	Y
Objective	· · · ·	Disturb Ringer	<sup>-</sup> Off " feature is s	uppor	ted for DUT(s) endpo	oints					
Pre-Test Condi	tions										
<ul> <li>Remote CUC</li> <li>PSTN: 2102:</li> <li>Enable DND</li> <li>&gt; Servic</li> <li>&gt; Device</li> <li>&gt; Device</li> <li>&gt; Device</li> </ul>	on DN:7101 e Parameters→B e→Device Setting e→Phone→DN:7 Do Not Distur DND Option: DND Incomin to remotely contr	BLF Status Dep is > Softkey Te 101: b → checked Ringer Off ig Call Alert: FI	oicts DND →True emplate, add Do N	Not Di 00, 21		plate (Al	lerting a	nd Conr	nected s	tate)	
Test Procedure				E	Expected Results						
2. 8000 dials 444 3. 1000 dials 710 4. 2000 dials 710 5. 2102225400 d 6. Retrieve CDR		es on-hook afte n-hook after 5 s n-hook after 5 s 1 <b>→</b> 210222540	er 5 secs secs secs	•	7101 is given an o Call terminated by	a ring ba otion to a Called p	ack tone answer o arty	e call			
		Fest Results:	Comments			Р	F	N/A	N/S	N/T	В
			key from CUCM, ting the DUT in s			Х					

Test Case #	EP-37	Category	Functional Test: D	o Not Disturb (DND)			RF	C_Stand	dard	Ν		
Objective	Verify "Do Not D	fy "Do Not Disturb Call Reject " feature is supported on DUT(s) endpoints										
Remote CUCI     PSTN: 21022:     Enable DND c     Device     devicevice     devicevicevicevicevicevicevicevicevicevi	<ul> <li>&gt;DUT(s):7100 &amp; 3</li> <li>&gt;DUT:8000;</li> <li>25400;</li> <li>&gt;Phone → DN:71</li> <li>&gt; Device Settings</li> <li>&gt; Phone → DN:71</li> <li>Do Not Disturb</li> <li>DND Option: C</li> <li>DND Incoming</li> </ul>	00→update E s > Softkey Te 01: o→checked Call Reject I Call Alert: Be	BLF Status Depicts I mplate, add Do Not <mark>eep Only</mark>	Disturb to a softkey tem	plate *Al	erting a	nd Conr	nected s	tate			
RPC is used to remotely control IP Phones with DN: 1000, 1001, 2000, 2102225400;  Test Procedure  Expected Results												
<ul> <li>RPC is used to remotely control IP Phones with DN: 1000, 1001, 2000, 2102225400;</li> <li>Test Procedure Expected Results</li> <li>1. 1001 dials 7100→7100 answers</li> <li>2. 7101 dials 7100→7100 hits "DND" softkey in connected state</li> <li>3. 7101 goes on-hook</li> <li>4. 8000 dials 444-7100→7100 hits "DND" in connected state</li> <li>5. 8000 goes on-hook</li> <li>6. 1000 dials 7100→7100 hits "DND" softkey in connected state</li> <li>7. 1000 goes on-hook</li> <li>8. 2000 dials 7100→7100 hits "DND" softkey in connected state</li> <li>9. 2000 goes on-hook</li> <li>1. 1001 goes on-hook after 200s</li> <li>12. Retrieve CDR from CUCM</li> <li>13. Check the Calling, Called, Duration, Origination &amp; Termination Cause Codes</li> </ul>												
		est Results: (			Р	F	N/A	N/S	N/T	В		
			key from CUCM, he ng local feature in		x							



Test Procedure	Expected Results						
<ol> <li>7100 dials 7101→7101 hits "iDivert" softkey during ringing state</li> <li>7100 leaves a voicemail and goes on-hook</li> <li>8000 dials 444-7101→7101 hits "iDivert" softkey in ringing state</li> <li>8000 goes on-hook without leaving a message</li> <li>1000 dials 7101→7101 hits "iDivert" softkey during ringing state</li> <li>1000 leaves a voicemail and goes on-hook</li> <li>2000 dials 7101→7101 hits "iDivert" softkey during ringing state</li> <li>2000 leaves a voicemail and goes on-hook</li> <li>2102225400 dials 94104447101</li> <li>7101 hits "iDivert" softkey during ringing state</li> <li>2102225400 leaves a voicemail and goes on-hook</li> <li>Retrieve CDR from CUCM</li> <li>Check the Calling, Called, Duration, Origination &amp; Termination Cause Codes</li> </ol>	<ul> <li>7100 directed to 7101's</li> <li>8000 directed to 701's</li> <li>1000 directed to 7101's</li> <li>2000 directed to 7101's</li> <li>2102225400 directed to</li> <li>MWI "On" when voicem</li> <li>7101 able to retrieve a</li> <li>MWI "Off" only after 4<sup>th</sup></li> <li>All calls terminate norm</li> <li>5 CDR(s) retrieved</li> <li>Selected fields in CDR(s)</li> </ul>	voice s voic s voic to 710 mail pr all 4 vo voice nally	mail bo email b email b 1's voic resent f oicemai email w	x ox ox email b or 7101 Is ras retrie			
Test Results: Comments		Ρ	F	N/A	N/S	N/T	В
Cannot program iDivert softkey on the DU					х		

Test Case #	EP-39	Category	Functional Test: CFA & iDivert	RFC_Standard	Ν
Objective	Verify "CFA" &	"iDivert " call	between DUT(s), SCCP, SIP and PSTN endpoir	nts	
Pre-Test Condi	tions				
<ul> <li>Remote CUG</li> <li>PSTN: 2102.</li> <li>VM enabled</li> <li>Enable iDive</li> <li>&gt; Legac</li> <li>&gt; Device</li> <li>&gt; Device</li> </ul>	on all phones; CF/ rt on DN:7100 y Immediate Diver e→Device Settings e→Phone→DN:71	A enabled on a t Service Para s→Softkey Te 00→Softkey	101 <b>→</b> 7100; VM Pilot # 7000;	Connected, On Hold & Ring states	5)

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Test Procedure	Expected Results						
<ol> <li>8000 dials 4447101→7100 hits "iDivert" softkey in ringing state</li> <li>8000 leaves voicemail and goes on-hook</li> <li>1000 dials 7101→7100 answers</li> <li>7100 hits "iDivert" softkey during connected state (after 10s)</li> <li>51000 leaves a voicemail and goes on-hook</li> <li>2000 dials 7101→7100 answers</li> <li>7100 hits "iDivert" softkey during connected state (after 20s)</li> <li>2000 leaves a voicemail and goes on-hook</li> <li>2000 leaves a voicemail and goes on-hook</li> <li>2102225400 dials 94104447101→7100 answers</li> <li>2102225400 goes on-hook without leaving voicemail</li> <li>Retrieve CDR from CUCM</li> <li>Check the Calling, Called, Duration, Origination &amp; Termination Cause Codes</li> </ol>	<ul> <li>7101 call forward to 8000 directed to 710</li> <li>Call terminate norma</li> <li>Call establish betwee</li> <li>1000 directed to 710</li> <li>Call terminate norma</li> <li>Call establish betwee</li> <li>2000 directed to 710</li> <li>Call terminate norma</li> <li>Call establish betwee</li> <li>2102225400 directed</li> <li>Call terminate norma</li> <li>MWI "On" when a vo</li> <li>7100 was able to ret</li> <li>MWI "Off" only after</li> <li>5 CDR(s) retrieved</li> <li>Selected fields in CE</li> </ul>	0's void ally en 1000 0's void ally en 2000 0's void ally en 2102 d to 710 ally sicemail rieve al 3 <sup>rd</sup> mes	email b ) & 710( email b ) & 710( email b 222540( )0's voice is left o I 3 voice sage wa	ox ) with 2- ox after ) with 2- ox after 0 & 7100 email b emails as retrie	10s way au 20s ) with 2- ox after s mailbo	dio •way aud 20s	dio
Test Results: Comments		Р	F	N/A	N/S	N/T	В
Cannot program iDivert softkey on the DUT	Γ				Х		

Test Case #	EP-40	Category	Functional Test: Malicious Call	RFC_Standard	Ν
Objective	Verify DUT(s) is	s able to marl	a call malicious		
Pre-Test Condi	tions				
<ul> <li>Remote CU0</li> <li>PSTN: 2102</li> <li>Update softk</li> </ul>	ey template on de	evice <b>→</b> SIP_E	:1000; SIP:2000; P_User (Includes MCID softkey) with DN: 1000, 2000;		

Test Procedure	Expected Results						
<ol> <li>7100 dials 7101→7101 answers→7101 hits "MCID" softkey</li> <li>7101 goes on-hook after 30s</li> <li>8000 dials 444-7100→7100 answers→7100 hits "MCID"</li> <li>8000 goes on-hook after 30s</li> <li>1000 dials 7100→7100 answers=7100 hits "MCID" softkey</li> <li>7100 goes on-hook after 30s</li> <li>2000 dials 7100→7100 answers→7100 hits "MCID" softkey</li> <li>2000 dials 7100→7100 answers→7100 hits "MCID" softkey</li> <li>2000 goes on-hook after 30s</li> <li>2102225400 dials 94104447101→7101 answers</li> <li>7101 hits "MCID" softkey</li> <li>7101 goes on-hook after 30s</li> <li>Retrieve CDR from CUCM</li> <li>Check the Calling, Called, Duration, Origination &amp; Termination Cause Codes</li> </ol>	<ul> <li>3 calls establish with</li> <li>2 calls establish with</li> <li>Called parties marke</li> <li>Call terminate norma</li> <li>5 CDR(s) retrieved</li> <li>Selected fields in CE</li> </ul>	2-way e as ma ally	audio o licious				
Test Results: Comments		Р	F	N/A	N/S	N/T	В
Cannot program the MCID softkey on DUT, feature is r	ot supported.				Х		

Test Case #	EP-41	Category	Functional Test: Mobile Connect	RFC_Standard	Ν
Objective	Verify DUT(s)	supports Mc	bile Connect call to a remote DUT endpoint		
Pre-Test Condition	S				
<ul> <li>Local CUCM          E         Remote CUCM         PSTN: 2102225         Configure CUCM         Mobile Voice Ac         Mobile Voice Ac&lt;</li></ul>	→DÙT:8000; 400; I Service Parar cess service ru	neter: Device nning on CU0	Mobility Mode <b>→</b> On CM-PUB		

Local Cluster Single Number Reach (SNR) configured for 7101→Remote Device:234-8000: Add Remote Destination Profile:Device Device Settings Remote Destination Profile Add New mobility 1 rdp 4 Userid:dutuser02 0 l ine<sup>.</sup>7101 0 Add New Remote Destination: 0 4 Name**→**Mobility\_1 Destination Number→ 2348000 4 Check "Enable Unified Mobility", "Enable Single Number Reach" & "Enable Move to Mobile"
 Device Settings Softkey Template SIP\_EP\_User Add "Mobility" softkey (On-Hook & Connected) User Management → End User → dutuser02 → Check "Enable Mobility" & "Enable Mobile Voice Access" 4 4 Device→Phone→7101→Owner userid→dutuser02 4 Phone→8000→Line→No Answer Ring Duration→60 Device: De RPC is used to remotely control IP Phones with DN: 1000,2000, 2102225400; ٠ **Test Procedure Expected Results** 1. 7100 dials 7101 → 7101 answers → 7101 hits "Mobility" softkey after 30s Both 7101(local) & 8000 (remote) are ringing . 2. Select the option to send call to mobile device • Call establish between 7100 & 7101 with 2-way audio 3. 8000 answers Call is transferred to mobile device 8000 ٠ 4. 7101 goes on-hook after 30s Call establish between 7100 & 8000 with 2-way audio • 5. 8000 sends DTMF \*74 after 30s for call hanoff ٠ 8000 handoff call back to 7101 6. 7101 answers Call restored between 7100 & 7101 ٠ 7.8000 goes on-hook Final Call terminate normally . 8. 7101 goes on-hook after 30s • Results for SCCP, SIP & PSTN calls are similar as 9. Repeat steps 1-7, replace 7100 with SCCP:1000 above 10. Repeat steps 1-7, replace 7100 with SIP:2000 6 CDR(s) retrieved • 11. Repeat steps 1-7, replace 7100 with PSTN:2102225400 Selected fields in CDR(s) match calls • 12. Retrieve CDR from CUCM 13. Check the Calling, Called, Duration, Origination & Termination Cause Codes **Test Results: Comments** N/S Р F N/A N/T В Mobility feature not supported by the DUT х

Test Case #	EP-42	Category	Functional Test: Mobile Connect	RFC_Standard N
Objective	Verify DUT(s)	) supports Mo	bile Connect call to a remote PSTN endpoint	
Pre-Test Condition	ns			
<ul> <li>Local CUCM→I</li> <li>Remote CUCM</li> </ul>	· · ·	7101; SCCP:1	000; SIP:2000;	
<ul> <li>PSTN: 2102225</li> </ul>	,			
Configure CUCI	M Service Parar	neter: Device	Mobility Mode <b>→</b> On	
Mobile Voice Ad	cess service ru	nning on CUC	CM-PUB	
Mobile Voice Ad	cess enabled o	n Voice Gate	way	

Local Cluster Single Number Reach (SNR) configured for 7100→ Remote Device:92102225401 Add Remote Destination Profile:Device > Device Settings > Remote Destination Profile > Add New > mobile2 rdp 4 Userid:dutuser01 0 Line:7100 0 Add New Remote Destination: 0 4 Name**→**Mobility\_2 Destination Number → 92102225401 4 Check "Enable Unified Mobility", "Enable Single Number Reach" & "Enable Move to Mobile"
 Device Settings Softkey Template SIP\_EP\_User Add "Mobility" softkey (On-Hook & Connected)
 User Management End User dutuser 1 Check "Enable Mobility" & "Enable Mobile Voice Access" 4 4 4 Device→Phone→7100→Owner userid→dutuser01 Remote Device: Device→Phone→2102225401→Line→No Answer Ring Duration→60 RPC is used to remotely control IP Phones with DN: 1000,2000, 2102225401; ٠ Test Procedure Expected Results 1. 7101 dials 7100 → 7100 answers Both 7101 & 7100 are ringing • 2. 7100 hits "Mobility" softkey after 30s and selects to send call to Call establish between 7100 & 7101 with 2-way audio • mobile Call transfer to mobile device 2102225401 (PSTN) ٠ 3. 2102225401 answers Call establish between 7100 & 2102225401 with 2-way audio ٠ 4. 7100 goes on-hook 2102225401 handoff call back to 7100 ٠ 5.2102225401 sends DTMF \*74 after 30s (call handoff) Call restored between 7100 & 7101 ٠ 6.7100 answers Final Call terminated normally • 7.2102225401 goes on-hook Results for SCCP and SIP call are similar as above 8.7101 goes on-hook after 30s 6 CDR(s) retrieved • 9. Repeat steps 1-8 and replace the Calling DN:1000 Selected fields in CDR(s) match calls 10. Repeat steps 1-8 and replace Calling DN:2000 11. Retrieve CDR from CUCM 12. Check the Calling, Called, Duration, Origination & Termination Cause Codes and Comments **Test Results: Comments** N/S Ρ N/A N/T В F Mobility feature not supported by the DUT х

Test Case #	EP-43	Category	Functional Test: Mobile Connect	RFC_Standard	Ν
Objective	Verify DUT(s)	supports Mo	bile Connect call to a remote SIP endpoint		-
Pre-Test Condition	S				
Mobile Voice Act     Mobile Voice Act	DUT:8000; S I Service Parar cess service run cess enabled o	IP:6201; meter: Device nning on CUC n Voice Gatev	Mobility Mode <b>→</b> On CM-PUB	01	

<ul> <li>Add Remote Destination Profile:Device &gt;Device Settings         <ul> <li>Userid:rcuser21</li> <li>Line:6201</li> <li>Add New Remote Destination:</li> <li>Name&gt;Mobility_1</li> <li>Destination Number&gt; 4447101</li> <li>Check "Enable Unified Mobility", "Enable</li> </ul> </li> <li>Device Settings&gt;Softkey Template&gt;SIP_EP_User&gt;Action</li> <li>User Management&gt;End User&gt;rcuser21&gt;Check "Enable</li> <li>Device&gt;Phone&gt;6201&gt;Owner userid&gt;rcuser21</li> <li>Remote Device: Device&gt;Phone&gt;7101&gt;Line&gt;No Anset</li> <li>RPC is used to remotely control IP Phones with DN: 1000,2000, 62</li> </ul>	Single Number Reach d "Mobility" softkey (Or le Mobility" &"Enable M wer Ring Duration <b>→</b> 60	" & "Ena n-Hook lobile V	able Mo & Conn	ive to Me	_	rdp	
Test Procedure         1. 7100 dials 2346201→7101 answers         2. 7101 sends DTMF *74" after 30s         3. 6201 answers         4. 7101 goes on-hook         5. 6201 hits "Mobility" softkey after 30s         6. 7101 answers         7. 6201 goes on-hook         8. 7100 goes on-hook after 60s         9. Repeat steps 1-8 and replace the Calling DN:1000         10. Repeat steps 1-8 and replace the Calling DN:2000         11. Retrieve CDR from CUCM         12. Check the Calling, Called, Duration, Origination & Termination Cause Codes	Expected Results Both 6201 & 710 Call establish bei Call is transferred Call establish bei 2000 handoff cal Call restored bett Final Call termina Results for SCCF 6 CDR(s) retrieve Selected fields in	tween 7 d to dev tween 7 l back to ween 7 ated nor P and S ed	100 & 7 rice 620 100 & 6 o 7101 100 & 7 mally IP call a	1 S201 with 101 are simil:	h 2-way	audio	
Test Results: Comments	-	Р	F	N/A	N/S	N/T	В
Mobility feature not supported by the DUT			]		X		

Test Case #	EP-44	Category	Functional Test: Mobile Voice Access (MVA)	RFC_Standard	Ν
Objective	Verify Inbour	nd Mobile Vo	vice Access (MVA) calls from DUT(s) endpoints		
Pre-Test Condition	ons				
<ul> <li>Remote CUCM</li> <li>CUCM Service</li> <li>Enat</li> <li>Enat</li> </ul>	1 → DÙŤ:8000;	eature Acces ∋ Access <b>→</b> Tr	rue		

- 4 Matching Caller ID with Remote Destination → Partial Match
- 4 Number of Digits for Caller ID Partial Match →7
- Mobile Voice Access service running on CUCM-PUB
- Mobile Voice Access enabled on Voice Gateway
- MVA # provisioned in CUCM: Media Resources→Mobile Voice Access→Add New→8005555
- Local Cluster Single Number Reach (SNR) configured for 7101→Remote Device:234-8000:
  - Add Remote Destination Profile:Device > Device Settings > Remote Destination Profile > Add New > mobile1\_rdp 4 Userid:dutuser02 0
    - Line:7101 0

0

- Add New Remote Destination:
  - Name**→**Mobility\_1 4 4
    - Destination Number→ 2348000
- Check "Enable Unified Mobility", "Enable Single Number Reach" & "Enable Move to Mobile" Device Settings Softkey Template SIP\_EP\_User Add "Mobility" softkey (On-Hook & Connected) User Management End User dutuser02 Check "Enable Mobility" & "Enable Mobile Voice Access"
- 4 Device→Phone→7101→Owner userid→dutuser02 4
- Remote Device: Device→Phone→8000→Line→No Answer Ring Duration→60 4
- RPC is used to remotely control IP Phones with DN: 1000,2000;

Test Procedure	Expected Results						
<ol> <li>1.8000 (Mobil device) dials MVA #8005555</li> <li>Mobil User enters 3222348000# or 2348000#</li> <li>3.Mobil User enters PIN:123456# &amp; DN:7100#</li> <li>4.7100 answers</li> <li>8000 sends DTMF *74 to handoff session after 30s</li> <li>7100 goes on-hook after 60s</li> <li>Retrieve CDR from CUCM</li> <li>Check the Calling, Called, Duration, Origination &amp; Termination Cause Codes</li> </ol>	<ul> <li>Mobile user prom</li> <li>Mobile user prom</li> <li>7100 is ringing</li> <li>Call establish bet</li> <li>Call hand-off to 7</li> <li>Call terminate no</li> <li>1 CDR retrieved</li> <li>Selected fields in</li> </ul>	ween 8 7101 rmally	or PIN 8	& Destir 7100 wit	nation D	N	
Test Results: Comments		Р	F	N/A	N/S	N/T	В
Mobility feature is not supported by the DUT					Х		

Test Case #	EP-45	Category	Functional Test: Enterprise Feature Access (EFA)	RFC_Standard	Ν
Objective	Verify Inbo	und Enterprise	Feature Access (EFA) - Hold/Resume call from a DUT en	dpoint	
Pre-Test Condi	tions	·			
	( )		:1000; SIP:2000;		
Remote CU0	CM →DUT:800	0;			
Service Para	meter:				
📥 Er	able Enterprise	e Feature Acces	s→True		
📥 Er	able Mobile Vo	ice Access <b>→</b> Tr	ue		
<ul> <li>Mobile Voice</li> </ul>					

Mobile Voice Access enabled on Voice Gateway

<ol> <li>8000 (Mobil device) dials EFA #9005555</li> <li>Mobil user prompted to enter remote device DN 2348000#</li> </ol>	<ul><li>Mobile user prom</li><li>Mobile user prom</li></ul>	npted fo	or PIN				
<ol> <li>Mobil User enters PIN:123456#, Option 1 &amp; DN:7100#</li> <li>7100 answers call</li> <li>8000 sends DTMF *81 to place call on-hold after 30s</li> </ol>	<ul> <li>Selects option 1</li> <li>7100 is ringing</li> <li>Call establish be</li> </ul>				h 2-wav	<sup>,</sup> audio	
4. 7100 answers call	• 7100 is ringing	tween 8 rmally	3000 & 7	7100 wit	th 2-way	/ audio	

Tests in this section require manual calls. Run Step\_4\_"Record\_Negative\_Test\_Execution" command after executing all tests.

Retrieve CDR(s) from CUCM to validate calls.

## 9.5 Negative Tests

Test Case #	EP-46	Category	Negative Test: PUB	Failu	re				RF	C_Stan	dard	Y
Objective	Verify a PUB	failure should	not affect stable or tr	ransie	nt calls o	n DUT(s)	)					
Pre-Test Condition	S											
	DÙŤ:8000;	·	000; SIP:2000; ith DN: 1000,2000;									
Test Procedure	Test Procedure Expected Res											
Test Procedure         1. 7100 dials 7101→7101 answers         2. 2000 dials 234-8000→8000 answers         3. Access CUCM-PUB server via SSH (Local Cluster)         4. Enter CLI: utils system restart <cr> yes         5. 1000 dials 7101→7101 answers 2<sup>nd</sup> incoming call         6. Called party goes on-hook for all 3 calls         7. Repeat steps 1-2,5-6 after CUCM-PUB recovery         8. Retrieve CDR from CUCM         9. Check Calling, Called, Duration, Origination &amp; Termination Cause Codes</cr>					Call estat CUCM-P Stable ca Call estat Transient All calls to CUCM-P All calls s 5 CDR(s)	blish betw blish betw UB is res Ils not im blish betw calls not erminate UB is in-s uccessfu retrieved fields in (	veen 200 tarted pacted I veen 100 impacte normally service I after P	00 & 80 by PUB 00 & 71 ed by Pl / UB failu	00 with : restart 01 with : JB resta re recov	2-way a 2-way a Irt	udio	
	Test Results: Comments							F	N/A	N/S	N/T	В
							Х					
<u></u>								11	0	<u> </u>		L

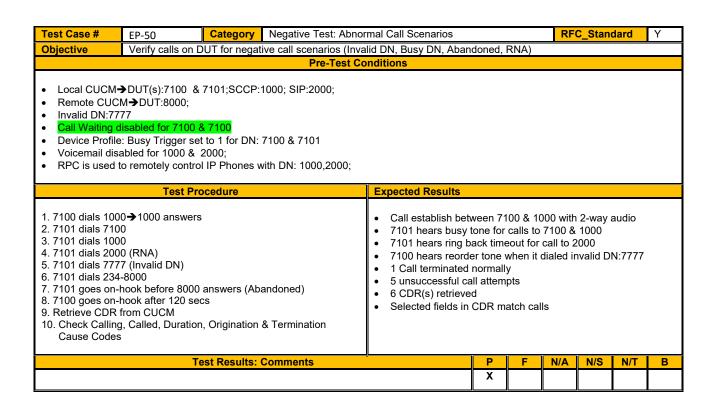
Test Case #	EP-47	Category	Negative Test: SUB Failure		RFC_Standard	Y			
Objective	Verify a SUB	failure should	d not affect stable calls on DUT(s)						
Pre-Test Condition	ons								
<ul> <li>Local CUCM→</li> </ul>	DUT(s):7100 &	7101;SCCP:10	000; SIP:2000;						
<ul> <li>Remote CUCM</li> </ul>	Remote CUCM→DÙT:8000;								
RPC is used to remotely control IP Phones with DN: 1000,2000;									

1. 7100 dials 7101→7101 answers 2. 2000 dials 234-8000→8000 answers call 3. Access CUCM-SUB server via SSH (Local Cluster) 4. Enter CLI: utils system restart <cr> yes 5. 1000 dials 7101 6. Called party goes on-hook for all 3 calls</cr>	<ul> <li>Call establish bet</li> <li>Call establish bet</li> <li>CUCM-SUB is res</li> <li>Stable calls not in</li> <li>Transient calls im</li> <li>Call between 100</li> </ul>	ween 200 started npacted l pacted b	00 & 80 by SUB by SUB i	00 with 2 restart restart			
<ol> <li>Repeat steps 1-2, after CUCM-SUB recovery</li> <li>Retrieve CDR from CUCM</li> <li>Check the Calling, Called, Duration, Origination &amp; Termination Cause Codes</li> </ol>	<ul> <li>All stable calls ter</li> <li>CUCM-SUB is in-</li> <li>All calls successfi</li> <li>4 CDR(s) retrieve</li> <li>Selected fields in</li> </ul>	service ul after S d	UB failu	ire recov	very		
Test Results: Comments	<u>.</u>	Р	F	N/A	N/S	N/T	В

Test Case #	EP-48	Category	Negative Test: Phor	Phone Network Failure RFC_Standard							
Objective	Verify DUT(s)	recovers from	m a network failure								
Pre-Test Condition	IS										
<ul> <li>Local CUCM→</li> <li>Remote CUCM→</li> <li>RPC is used to r</li> </ul> Test Procedure	<b>&gt;</b> DÙŤ:8000;	·	Exp	ected Results							
<ul> <li>1. 7100 dials 7101→7101 answers</li> <li>2. Unplug network EPle from device DN:7100</li> <li>3. Restore the network EPle after 60s</li> <li>4. 2000 dials 7100→7100 answers</li> <li>5. 7100 goes on-hook after 60s</li> <li>6. Retrieve CDR from CUCM</li> <li>7. Check Calling, Called, Duration, Origination &amp; Termination Cause Codes</li> <li>Call establish between 7100 &amp; 7101 with 2-way audio</li> <li>Network failure reported on device DN:7100</li> <li>Stable call drops</li> <li>Device 7100 re-registers after network EPle restored</li> <li>Network Data: DNS, DHCP, TFTP, CUCM, VLAN, Load I restored on device</li> <li>Call establish between 2000 &amp; 7100 with 2-way audio</li> <li>Call establish between 2000 &amp; 7100 with 2-way audio</li> <li>Call terminate normally</li> <li>2 CDR(s) retrieved</li> <li>Selected fields in CDR(s) match calls</li> </ul>						D are					
	Te	est Results: (	Comments	-		Р	F	N/A	N/S	N/T	В
						х					

Test Case #	EP-49	Category Negative Test: Phone Power Failure	RFC_Standard Y					
Objective	Verify DUT(s)	) recovers from a power failure						
Pre-Test Conditions								
Remote CUCM	→DÙŤ:8000;	7101;SCCP:1000; SIP:2000; I IP Phones with DN: 1000,2000;						

Test Procedure	Expected Results						
<ol> <li>7100 dials 7101→7101 answers</li> <li>Remove power cable from 7101</li> <li>Restore power cable after 60s</li> <li>2000 dials 7101→7101 answers call</li> <li>7101 goes on-hook after 60s</li> <li>Retrieve CDR from CUCM</li> <li>Check Calling, Called, Duration, Origination &amp; Termination Cause Codes</li> </ol>	<ul> <li>Call establish betwee</li> <li>7101 lost power</li> <li>Stable call drops</li> <li>Device 7101 re-reg</li> <li>Network Data: DNS restored on device</li> <li>Call establish betwee</li> <li>Call terminate norm</li> <li>2 CDR(s) retrieved</li> <li>Selected fields in C</li> </ul>	isters a 5, DHCI een 200 nally	ifter pow P, TFTP 00 & 710	ver is res 2, CUCN 01 with 2	stored I, VLAN	, Load I	D are
Test Results: Comments		Р	F	N/A	N/S	N/T	В
		Х					



## Tests in this section require manual calls.

Run "Step 5\_Record\_Miscellaneous\_Test\_Execution" command after executing all tests in this section. Retrieve CDR(s) from CUCM to validate calls.

## 9.6 Miscellaneous Tests

These tests are executed to verify specific information about the third-party products provided by partners

Test Case #	EP-51	Category	Miscellaneous Te	st: Code	ec (G722 & G729)			RF	C_Stand	lard	Y
Objective	Verify URI calls	between DU	T(s) & SIP endpoin	nts for In	-band Codec (G72	22, G72	9)				
<ul> <li>Local CUCM&gt;DUT(s):7100 (dutuser01@abc.inc); 7101(dutuser02@abc.inc); SCCP:1000 (cuser01@abc.inc); SIP:2000;cuser20@abc.inc;</li> <li>Remote CUCM &gt; DUT:8000;</li> <li>Go to System&gt;Region Information&gt; Audio Codec Preference List&gt; Add New&gt; G722&gt;Select G722 Codec</li> <li>Go to System&gt;Region Information&gt; Audio Codec Preference List&gt; Add New&gt; G729&gt;Select G729 Codec</li> <li>Go to System&gt;Region Information&gt; Region&gt; Add New&gt;G722-Region&gt;G722</li> <li>Go to System&gt;Region Information&gt; Region&gt; Add New&gt;G729-Region&gt;G729</li> <li>Go to System&gt;Device Pool&gt; Add New&gt;G722-dp&gt;Region&gt;G729-Region</li> <li>Go to System&gt;Device Pool&gt; Add New&gt;G729-dp&gt;Region&gt;G729-Region</li> <li>Update 7100, 7101 with device pool=G722-dp</li> <li>Configure Speed Dial for 7100, 7101, 2000:</li> <li>Device&gt;Phone&gt;7100&gt;Add new SD&gt;dutuser02@abc.inc</li> <li>Device&gt;Phone&gt;7100&gt;Add new SD&gt;dutuser02@abc.inc</li> <li>Device&gt;Phone&gt;7100&gt;Add new SD&gt;dutuser02@abc.inc</li> <li>RPC is used to remotely control IP Phones with DN: 2000;</li> </ul>											
	Test Procedure Expected Results										
14. Retrieve CDF	call hook after 60s ed dial button call hook after 60s ed dial button call hook after 60s eed dial button s call n-hook after 60s s 1-9 with device po R from CUCM Serv g, Called, Duration	/er	<ul> <li>DUT receives both the Caller ID and URI</li> <li>4 calls establish with 2 way audio for G722 codec</li> <li>4 calls terminate normally</li> <li>4 calls establish with 2 way audio for G729 codec</li> <li>4 calls terminate normally</li> <li>Voice quality was good for both codec types</li> <li>8 CDR(s) retrieved</li> <li>Selected fields in CDR(s) match calls</li> </ul>								
		est Results: (				Р	F	N/A	N/S	N/T	В
DUT does not support G722 Codec. G729 Codec was tested X											

Test Case #	EP-52	Category	Miscellaneous Test: DUT display features	RFC_Standard	Y			
Objective	Verify different packetization period support on DUT(s) endpoints							

Pre-Test Conditions											
<ul> <li>Local CUCM→DUT(s):7100 &amp; 7101; SCCP:1000; SIP:2000;</li> <li>Remote CUCM →DUT:8000;</li> <li>Configure Service Parameter: Preferred G.711 Millisecond Packet Size :10</li> <li>RPC is used to remotely control IP Phones with DN: 1000, 2000;</li> </ul> Test Procedure Expected Results											
Test Procedure	Expected Results										
Test ProcedureExpected Results1. 7100 dials 7101 → 7101 answers 2. 7100 goes on-hook after 60s 3. 7100 dials 234-8000 → 8000 answers 4. 8000 goes on-hook after 60s 5. 7100 dials 1000 → 1000 answers 6. 7100 goes on-hook after 60s 5. 7100 dials 1000 → 1000 answers 6. 7100 goes on-hook after 60s 7. 2000 dials 7100 → 7100 answers 8. 7100 goes on-hook after 60s 9. Repeat steps 1-8 with Packet Size=20 10. Repeat steps 1-8 with Packet Size=30 11. Retrieve CDR from CUCM Server 12. Check Calling, Called, Duration, Origination & Termination Cause CodesCall establish between 7100 & 7101 with 2-way audio 6. Call establish between 7100 & 1000 with 2-way audio 6. Call establish between 7100 & 2000 with 2-way audio 6. Call establish between 7100 & 2000 with 2-way audio 6. Call establish between 7100 & 2000 with 2-way audio 9. Repeat steps 1-8 with Packet Size=20 10. Repeat steps 1-8 with Packet Size=30 11. Retrieve CDR from CUCM Server 12. Check Calling, Called, Duration, Origination & Termination Cause CodesSelected fields in CDR(s) match calls											
Test Results: Comments		Р	F	N/A	N/S	N/T	В				
DUT does not support P-time 10, supported p-time is fro	m 20 to 200.	х									

Test Case #	EP-53	Category	Miscellaneous Test:	DUT Screen Features			RF	C_Stan	dard	Y		
Objective	Verify the featur	es displayed	on the screen of DUT									
			Pre-Test C	onditions								
Local CUCM	▶ DUT (s):7100 &	<b>≩</b> 7101;										
	Test Pro	ocedure		Expected Results								
Redial or I	alls Ills Calls ne History (Missed, I Dial from Call Hist or call features nes d #	Able to access all display										
	Te	est Results: 0	Comments		Р	F	N/A	N/S	N/T	В		
Multiple lir	nes not supporte	d on DUT an	d available softkey f	eature was test	х							

Test Case #	EP-54	Category	Miscellaneous Test: Long Duration Calls	RFC_Standard	Y
Objective	Verify long dura	tion calls bet	ween DUT(s), SCCP, SIP and PSTN endpoints		

Pre-Te	est Conditions						
<ul> <li>Local CUCM→DUT(s):7100 &amp; 7101; SCCP:1000; SIP:2000;</li> <li>Remote CUCM →DUT:8000;</li> <li>PSTN DN: 210-222-5400;</li> <li>RPC is used to remotely control IP Phones with DN: 1000, 20</li> </ul>	00, 2102225400;						
Test Procedure	Expected Results						
<ol> <li>7100 dials 7101→7101 answers (Duration: 1 Hr.)</li> <li>2000 dials 234-8000→ 8000 answers (Duration: 1 Hr)</li> <li>Repeat step 1 by replacing Called DN:92102225400</li> <li>Repeat step 2 by replacing the Calling DN: 1000</li> <li>Retrieve CDR from CUCM</li> <li>Check Calling, Called, Duration, Origination &amp; Termination Cause Codes</li> </ol>	n 2000 n 7100 n 1000 were s	& 8000 & 21022 & 8000	with 2-v with 2-v 225400 with 2-v th 2-way	vay audi with 2-w vay audi	io vay audi	io	
Test Results: Comments		Р	F	N/A	N/S	N/T	В
		Х					

-

Test Case #	EP-55	Category	Miscellaneous Test:	Cisco Phone Models			RF	C_Stan	dard	Y
Objective	Verify calls and	mid-call featu		and various Cisco IP Pr	none Mo	dels				
			Pre-Test C	onditions						
<ul> <li>Local CUCM→DUT(s):7100 &amp; 7101; SCCP:1000; SIP:2000;</li> <li>Remote CUCM →DUT:8000;;</li> <li>Cisco Phone Models: 6961,8861, 8945, 7925, 9971, DX650</li> <li>For phone models not supported by RPC, Auto-Answer is enabled. (DX650)</li> <li>RPC is used to remotely control IP Phones</li> </ul>										
	Test Pro	cedure		Expected Results						
7. 1100 dials 710' 8. 7100 goes on-H 9. 1100 dials 710' 10. 7100 dials 234 11. 7100 hits "Tra 12. 8000 goes on- 13. 1100 dials 710' 14. 7101 hits "Cor 15. 8000 answers 16. 7101 goes on- 17. 1100 and 8000'	)→7100 answers )→1100 answers ume" after 20s→1 $8000 \rightarrow 8000$ ans )→1100 answers 1→1100 hits "Tranook after 120s )→7100 answers 1→8000→8000 an nsfer" after 30s→ hook after 120s 01→7101 answer nference" after 30 →7101 hits "Con- hook after 120s 0 goes on-hook after 120s 0 goes on-hook after 120s 0 goes on-hook after 120s 1→7101 py replacing nodels from CUCM	<ul> <li>⇒ 1100 on-ho</li> <li>⇒ 7101 hits</li> <li>1100 on-hook</li> <li>wers ⇒ 8000 o</li> <li>⇒ 1100 hits</li> <li>⇒ 7100 hits "</li> <li>⇒ 7100 nits "</li> <li>⇒ 7100 on-hoo</li> <li>rs</li> <li>&gt; 7100 on-hoo</li> <li>rs</li> <li>&gt; 7101 dials</li> <li>ference" after</li> <li>after 200s</li> <li>&gt; DN:EP1100</li> </ul>	ook after 120s "Hold" after 20s after 120s on-hook after 90s "Transfer" after 20s on-hook Transfer" after 20s k s 234-8000 r 30s with DN(s) of other	<ul> <li>Intra-cluster calls establish between DUT &amp; Cisco IP Phone</li> <li>Inter-cluster calls establish between DUT &amp; Cisco IP Phone</li> <li>Call Hold/Resume between DUT &amp; Cisco IP Phone</li> <li>Blind Transfer between DUT &amp; Cisco IP Phone</li> <li>Consult Transfer between DUT &amp; Cisco IP Phone</li> <li>Conference Call between DUT &amp; Cisco IP Phone</li> <li>CDR(s) retrieved for all the calls</li> <li>Selected fields in CDR(s) match calls</li> </ul> Note: Any Cisco IP Phone models not supported in RPC will have Auto Answer Turned On to test basic call functions only.						
	Te	est Results:	Comments		Р	F	N/A	N/S	N/T	В
					X					

Test Case # FP-56 Category Functional Test; Multiple Lines RFC Standard	
Test case # EP-56 Category Functional Test. Multiple Lines RFC_Standard	Y

Objective Verify DUT is able to handle calls and mid-call fea	atures on multiple lines
<ul> <li>Pre-Test Conditions</li> <li>Local CUCM→DUT(s):7100 &amp; 7101; SCCP:1000; SIP:2000;</li> <li>Remote CUCM →DUT:8000; SIP:6200; SCCP:5200;</li> <li>RPC is used to remotely control IP Phones with DN: 1000,2000;</li> <li>Assumption: DUT is Advanced 3<sup>rd</sup> Party SIP Endpoint with multiple I</li> </ul>	
<ol> <li>Test Procedure</li> <li>Provision all the lines for both 7100 &amp; 7101 Device→Phone→DN→Line (DN Range: 7120 -7150)</li> <li>Initiate calls on all the lines between 7100 &amp; 7101</li> <li>Calling &amp; Called parties goes on-hook alternatively at random duration</li> <li>Initiate intra-cluster &amp; inter-cluster calls on all lines to SIP, SCCP &amp; PSTN endpoints</li> <li>Calling &amp; Called parties goes on-hook alternatively at random Duration.</li> <li>Initiate calls and perform mid-call features between these lines (Hold/Resume, Transfer, Conference, CFNA, CFB)</li> <li>Retrieve CDR from CUCM</li> <li>Check the Calling, Called, Duration, Origination &amp; Termination Cause Codes</li> </ol>	<ul> <li>Expected Results</li> <li>All calls establish successfully with good audio quality</li> <li>Caller ID presented for all calls</li> <li>Mid-call features works as designed</li> <li>All calls release normally</li> <li>CDR (s) retrieved</li> <li>Selected fields in CDR match calls</li> </ul>
Test Results: Comments Multiple lines on DUT is not supported	P F N/A N/S N/T B X X

Run "Step 6\_Complete\_Submit"command after executing all tests in this Test Plan. Complete the Test Result Matrix in Appendix A. Provide exceptions, notes or issues in the comments section. Submit this completed Test Report to <u>sb-ivt-submit@cisco.com</u>

## **10** APPENDIX A: TEST RESULT MATRIX

Test Case #	Р	F	NA	NS	NT	В	Comments
EP-1	Х						
EP-2	Х						
EP-3	Х						
EP-4	Х						
EP-5	Х						
EP-6	х						DUT won't be able to display CLID if the calling party has alphabets in the directory uri field. it can only present CLID with numbers.
EP-7	Х						
EP-8	Х						
EP-9	Х						
EP-10	Х						
EP-11	Х						
EP-12	Х						when DUT tries to blind transfer to an invalid number, the procedure expects the phone which is doing transfer to drop and the initial party

Test Case #	Р	F	NA	NS	NT	В	Comments
							to hear the reorder tone, but in this case after transferring to an invalid number the call fails and the phone doing the transfer will be connected with the initial party.
EP-13	Х						
EP-14	X						
EP-15	X						
EP-16	X						
EP-17	X						
EP-18	~			Х			Cannot have multiple lines and DirTfr softkey on DUT
EP-19	Х			~			
EP-20	X						
EP-21	x						DUT won't be able use the Call back feature from CUCM, but this test case was tested with a DUT feature which does a similar functionality.
EP-22				Х			Cannot provision a second line on DUT
EP-23				Х			Cannot provision a second line on DUT
EP-24				Х			Cannot provision a second line on DUT
EP-25	Х						
EP-26				Х			
EP-27				Х			Video calling is not supported by DUT
EP-28				Х			Extension Mobility functionality (softkey) is not possible on DUT.
EP-29	Х						
EP-30	Х						
EP-31	X						
EP-32				Х			Authenticated profile setting is not supported by the DUT. But the same test case was executed by having Encrypted (TLS) profile on the DUT.
EP-33				Х			Cannot add a second line on the DUT
EP-34				Х			
EP-35	Х						
EP-36	Х						DUT cannot be assigned with DND softkey from CUCM, however the same functionality was tested by putting the DUT in silent mode.
EP-37	х						DUT cannot be assigned with DND softkey from CUCM, however the same functionality was tested by using local feature in IP Dect.
EP-38				Х		_	Cannot program iDivert softkey on the DUT
EP-39				Х			Cannot program iDivert softkey on the DUT
EP-40				Х			Cannot program the MCID softkey on DUT, feature is not supported.
EP-41				Х			Mobility feature not supported by the DUT
EP-42				Х			Mobility feature not supported by the DUT
EP-43				Х			Mobility feature not supported by the DUT
EP-44				Х			Mobility feature not supported by the DUT
EP-45				Х			feature not supported by the DUT
EP-46	Х						
EP-47	Х						
EP-48	Х						
EP-49	Х						
EP-50	Х						
EP-51	Х						DUT does not support G722 Codec. G729 Codec was tested
EP-52	Х						DUT does not support P-time 10, supported p-time is from 20 to 200.

Test Case #	Р	F	NA	NS	NT	В	Comments
EP-53	Х						Multiple lines not supported on DUT and available softkey feature was test
EP-54	Х						
EP-55	Х						
EP-56				Х			Multiple lines on DUT is not supported

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