



Test Report

Detailed End Point IVT Test Plan and Report for CUCM 12.0 and **ASCOM IP-DECT**



Test Date/ Result (Completed by Cisco or Authorized Test House)	18/01/18 - PASS		
Partner Product Name	Ascom IP-DECT		
Partner Product Type	Wireless SIP		
Partner Product Version #	10.0.6		
Cisco Product Name	Cisco Unified Communications Manager		
Cisco Product Version	CUCM 12.0		
API/Protocol(s) Used	SIP		
Date Testing Completed	December 21, 2017		
IVT Contact Email	Johan.Andren@ascom.com		



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Pre-Testing Information

The purpose of this section is to gather information about the 3rd 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.

Complete all sections with <PARTNER COMPLETED>

This document will be reviewed for content, completeness and appropriate integration methods by Cisco and will not be submitted for test plan generation or test scheduling until approval. This process generally takes about 10 business days, though can be more or less dependent on complexity and current demand.

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: https://developer.cisco.com/site/collaboration/overview.gsp

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+CIscoProduct_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



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	No test tools used for this test.
Can these tools and test scripts for these products be made available to support IVT	N/A
Are there proprietary test tools that could be made available to support IVT	No proprietary tools used for this test.

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	Appliance				
Disk	Appliance				
Memory	Appliance				
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**.

CUCM Configuration

- The COP file provided by Ascom is uploaded and installed in Cisco Unified CM
- Add DUT device using Ascom IP-DECT Device type and assign user.
 - The Ascom IP-DECT device type is visible after COP file provided by Ascom is installed in Cisco Unified CM
 - Handsets are assign with unique fictitious MAC addresses.
- Add End-User with user ID and password in CUCM.
 - o Assign End-User to device configuration (digest user).

Ascom Configuration (Not Shown)

Refer to Ascom documentation for configuration details.

- Configure CUCM publisher and/or subscriber nodes.
- Configure handset devices in UCM and IP DECT Access Point device.



Assign user and MAC address as configured in CUCM.

Ascom IP-Dect device Configured in CUCM

- 1. Add device and assign user to Ascom device. (Device -> Phone).
 - The Phone Type selected is Standard Ascom IP-DECT device,
 - The MAC address used is unique and fictitious.
 - Digest user (created in End-User configuration) is assigned to user.

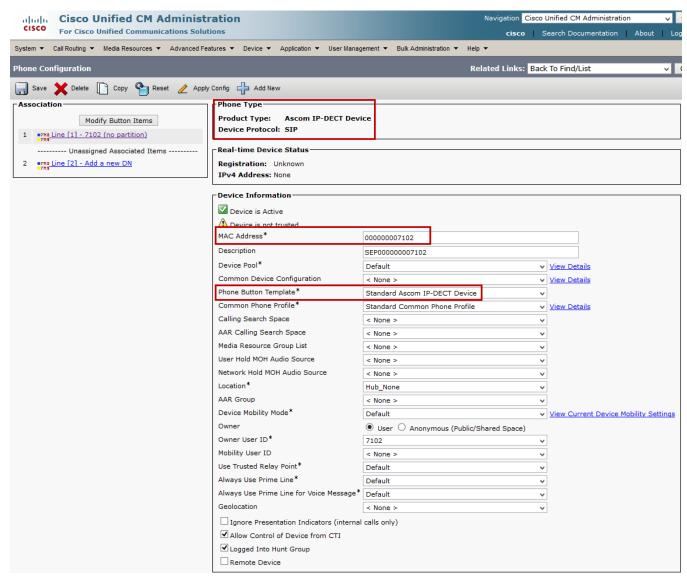


Figure 1: Add DUT to CUCM Phone Configuration



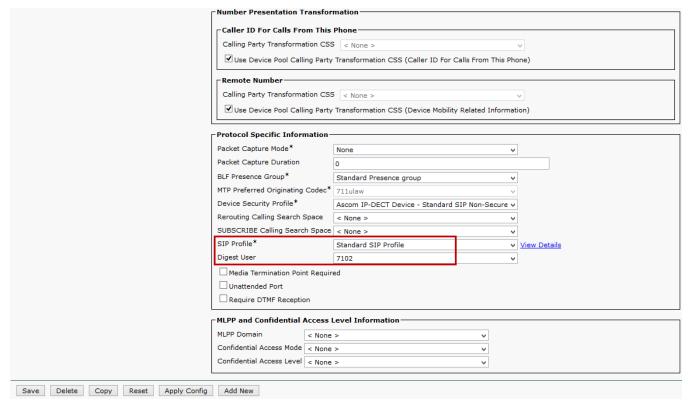


Figure 2: Add DUT to CUCM Phone Configuration (Continue)



2. Add End User Configuration (User Management -> End User):

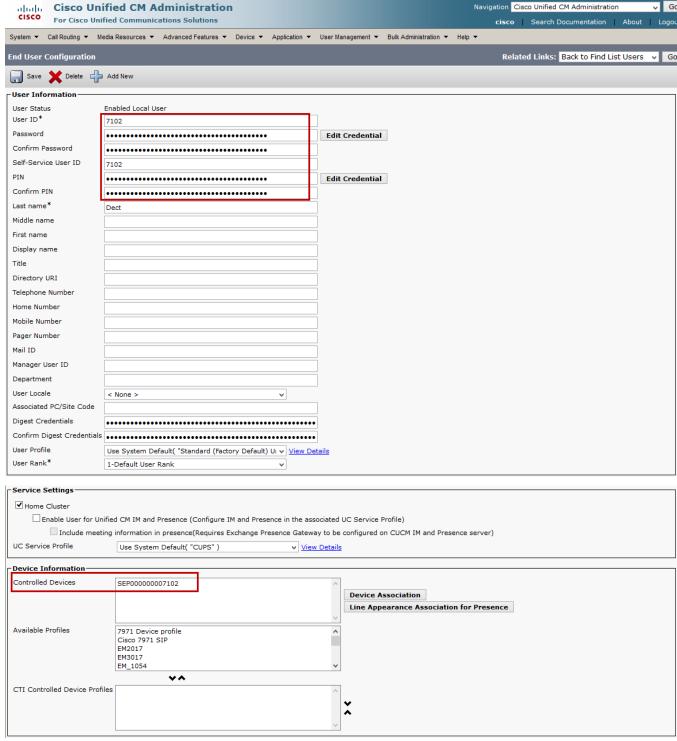


Figure 3: Add End User for DUT



Extension Mobility	
Available Profiles	7971 Device profile Cisco 7971 SIP EM2017 EM3017 EM_1054
	**
Controlled Profiles	ĵ.
Default Profile	Not Selected V
BLF Presence Group*	Standard Presence group
SUBSCRIBE Calling Search Space	
Allow Control of Device from C	
☐ Enable Extension Mobility Cros	
Directory Number Association	
Primary Extension < None >	v
Mobility Information	
_	
☐ Enable Mobility ☐ Enable Mobile Voice Access	
Maximum Wait Time for Desk Pick	JP* 10000
Remote Destination Limit*	4
Remote Destination Profiles	
	✓ <u>View Details</u>
Mutilevel Precedence and Pree	emption Authorization
MLPP User Identification Number	
MLPP Password	
Confirm MLPP Password	
MLPP Precedence Authorization Le	/el Default 🔻
CAPF Information	
Associated CAPF Profiles	\(\sigma\) \(\text{View Details}\)
Permissions Information	
Groups	Add to Access Control Group Remove from Access Control Group View Details
Roles	View Details
Conference Now Information	
☐ Enable End User to Host Confe	rence Now
Meeting Number 7102 Attendees Access Code	
Save Delete Add New	

Figure 4: Add End User for DUT (Continue)



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

5.3 Product Integration Diagram

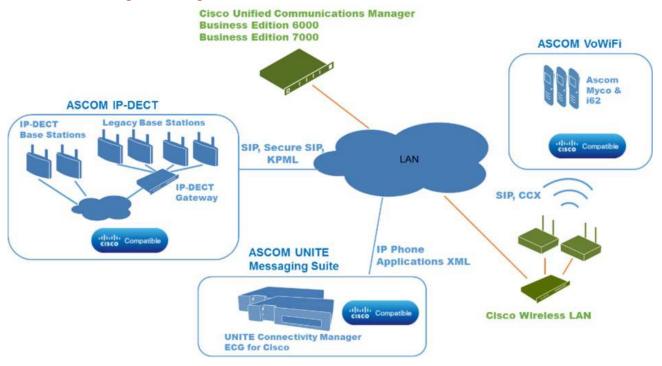


Figure 5: Ascom Integration Diagram

5.4 Product Integrated Use Cases

Ascom IP-DECT is 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.

Table 1. Defect Severity Level

Severity		Description
1		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

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 3rd 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/cBarge,
 - Shared Lines,
 - o Video,
 - o Extension Mobility,
 - o Authenticated profiles,
 - o Join across Lines,
 - o Hotline.
 - o iDivert,
 - o Malicious Call,
 - o Mobile Connect,
 - Mobile Voice Access (MVA),
 - o Enterprise Feature Access (EFA),
 - Multiple Lines
- Test Cases that are Not Applicable:
 - o None
- Test Cases that were Not Executed:
 - None
- Observations:
 - MWI (message waiting Indication) was tested with an IP-Dect device and Cisco Unity Connection.
 When a voice mail message deposited, the device displayed MWI notification. After the message was retrieved, MWI was removed.
 - DUT does not support Cisco codec variants G722 or G722.1. DUT supports G722.2.



8 Testing Details

8.1 Items Tested

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

- 3rd 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 3rd 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 3rd party (partner under test). Also add Trace and Debug settings here.

Table 2. Administration, Testing and Debugging Tools

Product Name	Version	Туре	Purpose	Units	Notes					
Test Tools										
None										
	3rd Party Tools									
FileZilla Server 0.9.60 File Server Upload Cop file.			Upload Cop file.	1	FileZilla Server					
WireShark	2.2.5	application	Tool for packet capture of call traces.	1	WireShark					
	Debug Tools									
None										



8.5 Equipment Requirements

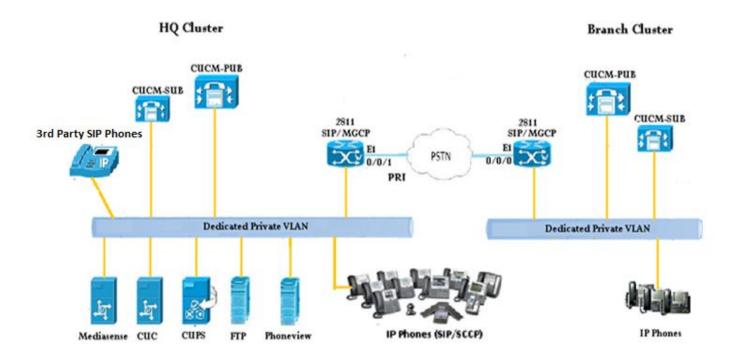
Table below identifies all equipment/versions used in this IVT.

Table 3. Sandbox Topology Components

Product	Version	Units	Description
СИСМ	12.0	2 PUB & 2 SUB	HQ & Branch CUCM Clusters
CUPS	12.0	1	Cisco Presence Server
CUC	11.5	1	Cisco Unity Connection
Cisco 3845	12.4	1	PSTN Gateway
Jabber	11.8.2 Build 50390	1	Jabber client
IP Communicator	8.6.6.0	1	IP Communicator client
IP Phones	sip41.9-4- 2SR3-1S	1	7961
	sccp41.9- 4-2SR3-1S	1	7961
	sip9951.9- 4-2SR2-2	1	9951
	sccp42.9- 4-2SR3-1S	1	7962
	sip894x.9- 4-2SR3-1	1	8945
	sipdx650.1 0-1-1-78	1	DX650
DUT(s)	4.5.2	1	Ascom Dect device d81 Protector
	4.5.2	1	Ascom Dect device d62 Protector
	2.1.4	1	Ascom Dect device d63 Talker
	11.0v1	1	CUCM COP File for Ascom Dect devices (cmterm-Ascom_IP_Dect_11.0v1-SIP.k3.cop.sgn)
	10.0.6	2	Ascom Dect Access Point devices



8.6 Lab Network Topology



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

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→ EP-56	6	М

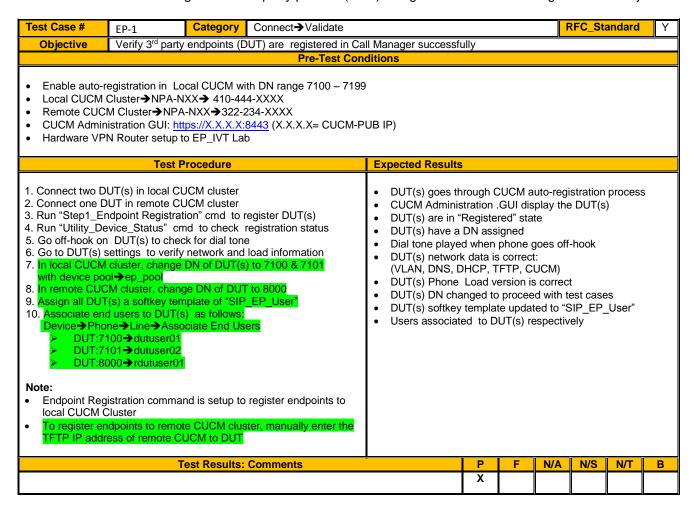
Run "Step 1_Endpoint_Registration" command to register endpoints.

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 3rd party product (DUT) is registered with Call Manager successfully



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 3rd party product (DUT) to ensure it corresponds to its design specifications.

Test Case #	EP-2 Category Entrance Test: Intra-Cluster Calls RFC_Sta										
Objective	Verify intra-clus	ter calls betw	een DUT, SCCP and	SIP endpoints				•			
			Pre-Test	Conditions							
Configure Au► La► Ac	unch RDP→Optio cess RPC Server to remotely contro	ack on an RD ns→Local Re via RDP ol IP Phones :	OP Session for a PC esources → Settings-	Play on this co	mpute	<mark>er</mark>	· to La	ab Guide	for insti	ructions))
Test Procedure Expected Results											
 1. 7100 dials 7101→7101 answers→7100 on-hook after 30s 2. 7101 dials 1000→ Select 1000 and answer call using RPC 3. Select "Headphone" icon 4. Enter "Play:AreYouThere.raw" & hit "Send" on the Command Line 5. 7101 speaks "Testing1234"→1000 on-hook after 60s 6. Repeat steps 2-5 with Calling DN:2000 & Called DN;7100 7. Repeat steps 2-5 with Calling DN:7101 & Called DN;2000 8. Calling & Called party release calls alternatively 9. Retrieve CDR from CUCM 10. Check Calling, Called, Duration, Origination & Termination Cause Codes • 4 calls establish with 2-way audio path • Calling and Called Parties hear ring-back and ring tone • DUT receives Caller ID • Phone on RPC displays "monitoring active" message with • Symbol • 7100 & 7101 hear "Are you There" • 1000 & 2000 hear "Testing 1234" • Audio for RPC phones heard on pc running Phoneview • 4 calls establish with 2-way audio path • Calling and Called Parties hear ring-back and ring tone • DUT receives Caller ID • Phone on RPC displays "monitoring active" message with • 0 DUT receives Caller ID • Phone on RPC displays "monitoring active" message with • Audio for RPC phones heard on pc running Phoneview • 4 calls terminate normally • A call setablish with 2-way audio path • Calling and Called Parties hear ring-back and ring tone • DUT receives Caller ID • Phone on RPC displays "monitoring active" message with • Calling and Called Parties hear ring-back and ring tone • DUT receives Caller ID • Phone on RPC displays "monitoring active" message with • Calling and Called Parties hear ring-back and ring tone • DUT receives Caller ID • Phone on RPC											
CDR field				Call 1		Call 2		Call 4	4	Call	l 5
callingPartyNum				7100		7101		7101		200)0
OriginalCalledPa	artyNumber			7101		1000		2000)	710)0
finalCalledPartyl	Number			7101		1000		2000)	710)0
origCause_Value	9			16		0		16		0	
destCause_Valu	estCause_Value 0 16 0 16										3
duration				30		60		60		60)
	T	est Results:	Comments	•		Р	F	N/A	N/S	N/T	В
						Х					

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
 - ♣ Phoneview User Guide
 - 4 2-Way Audio Path Validation



9.4 Features and Services

Test Case #	EP-3	Category	Cluster Call			F	RFC_St	andard	Υ		
Objective											
	Pre-Test Conditions										
 Local CUCM→DUT(s):7100 & 7101; Remote CUCM →DUT:8000; SCCP:5200; SIP:6200; RPC is used to remotely control IP Phones: 5200, 6200; 											
	Test Pi	rocedure		Expected Results	5						
1. 7100 dials 234: 2. 7101 dials 234: 3. Select "Headpt 4. Enter "Play:Are 5. 7101 speaks "1 6. Repeat steps 2 7. Calling & Calle 8. Retrieve CDR 1 9. Check Calling, Cause Codes	5200→Select 520 none" icon eYouThere.raw" a Festing 1234" →52 -5 with Calling DN d party release ca from CUCM Called, Duration,	and answer and hit "Send" 200 on-hook a 4:7101 & Call alls alternative Origination &	on the Command Line after 60s ed DN;6200 ly	 3 calls establis Calling and Ca DUT receives Phone on RPC symbol 7100 & 8000 h 5200 & 6200 h Audio for RPC 3 calls termina 3 CDR(s) retrie Selected fields 	alled Pa Caller II Calsplay ear "Are ear "Te: phones te norm eved in CDR	rties head of the control of the con	ar ring-b itoring a ere" 34" on PC ru	ack and	nessage Phonevi	e with	
	Te	est Results: (Comments		Р	F	N/A	N/S	N/T	В	
			Х								

Test Case #	EP-4	Category	Functional Test: Off	-Net Ca	alls			F	RFC_Sta	andard	Υ
Objective	Verify basic calls	s between DL	T(s) and PSTN endp	oints							
			Pre-Test C	ondition	ons						
Remote CUCIPSTN: 210-22	→ DUT(s):7100 & M → DUT:8000; 22-5400 (SIP); o remotely control		e:2102225401;								
	Test P	rocedure			Expected Results	S					
1. 7100 dials 921 2. Select "Headph 3. Enter "Play:Are 4. 7100 speaks "7 5. Repeat steps1- DN:941044471 6. Retrieve CDR 1 7. Check Calling, Cause Codes Note: Inbound	ne	 2 Calls establis Calling and Calling and Calling and Calling and Calling DUT receives Phone on RPC symbol 7100 & 7101 h 2102225400 h Audio for RPC 2 Calls terminal 2 CDR(s) retries Selected fields 	alled P Caller I C displanear "Al ears "T phone ate norne	arties he D ys "mo re you T esting f s heard mally	ear ring- nitoring here" 1234" on PC	-back ar active" running	messag	e with			
	Te	st Results: (Comments			Р	F	N/A	N/S	N/T	В
				•		Х					



Test Case #	EP-5	Category	Functional 7	Test: SIP	URI					RF	C_Stan	dard	Υ
Objective	Verify intra-cluster	SIP URI ca								·			
			Pre	e-Test Co	nditio	ns							
Configure Specific Devices Devices Devices Devices Devices RPC is used to the configure Specific Devices Devi	DUT(s): 7100 (URI: eed Dial on button 3 ice→Phone→7100- ice→Phone→7101- ice→Phone→2000- o remotely control IF	for 7100, 7 → Add new → Add new → Add new → Phones: 2	101, 2000: SD→dutuse SD→cuser2 SD→dutuse 2000;	r02@abc 0@abc.in r01@abc	<u>.inc</u> or ic on b .inc or	n both field ooth fields n both field	ds ds					<u>c</u>);	
	Test Proce	edure			Expe	ected Res	sults						
 7101 goes on-I 2000 hits Spee 2000 goes on-I 7101 hits Spee 7101 goes on-I Retrieve CDR i 	d Dial button 3 →71 nook after 30s d Dial button 3→200	100 answer 00 answers	s		• 3 • 3 • 3	OUT(s) red calls esta calls term CDR(s) r selected fi	ablish w ninate n etrieved	ith 2 wa ormally d	ay audid /				
	Test	Results: (Comments					Р	F	N/A	N/S	N/T	В
								Х					

	El 0 Catagory l'anotional root	, <u> </u>
Objective	Verify inter-cluster SIP URI calls between DUT	and SIP endpoints
	Pre-Te	est Conditions
 Remote CUC Configure Sp De De Pe RPC is used 	M→ DUT: 3000 (URI: rdutuser01@abc.inc); SIP eed Dial on button 3 for 7100, 7101 & 6200: vice→Phone→7100→Add new SD→rdutuser01 vice→Phone→7101→Add new SD→rdutuser01 vice→Phone→6200→Add new SD→dutuser01@to remotely control IP Phones: 2000 & 6200;	@abc.inc on both fields
	Test Procedure	Expected Results
 8000 goes on- 7101 hits Speed 6200 goes on- 6200 hits Speed 7100 goes on- Retrieve CDR 	ed Dial button 3→6200 answers hook after 30s ed Dial button 3→7100 answers	 DUT(s) receive Caller ID 3 calls establish with 2 way audio 3 calls terminate normally 3 CDR(s) retrieved Selected fields in CDR(s) match calls
	Test Results: Comments	P F N/A N/S N/T
		X
		<u></u>

Category Functional Test: SIP URI

Test Case #

EP-6



Test Case #	EP-7	Category	Functional Te	st: CFA					RF	C_Stan	dard	Υ
Objective	Verify "CFA" o	alls between D	DUT(s), SCCP,			oints						
Remote CU0 PSTN: 210-2 Enable CFA De		SCCP:5200; S 100 → CFA → 11 101 → CFA → 2: 200 → CFA → 6: 200 → CFA → 2: 102225400 → 9	1000; SIP:2000; IP:6200; 000 (SCCP) 348000 (DUT) 200 (SIP) 447101 (DUT) 348000 (DUT) 4104447100 (D	PUT)		0;						
	Test Pi	rocedure		E	Expected R	esults						
2. 8000 dials 44 3. 7101 dials 23 4.7101 dials 200 5. 7100 dials 23 6. 7101 goes on 7. 7101 dials 92 8. 2102225400 0 9. 2102225400 0 10. 8000 goes o 11. Retrieve CD 12. Check Callir Cause Code Note: Upon test complin yellow before CUCM Administ	102225400→7100 goes on-hook after dials 9410444710 n-hook after 30 se R from CUCM g, Called, Duration s etion, remove "CF proceeding to nex	swers > 1000 of the swers of th	n-hook after 30: n-hook after 30: usy tone ers & Termination devices highligh	s	Call forw Call esta Call term Call esta Call term Call forw Call esta Call term Call forw Call esta Call forw	whones disvard to 80 ablish between 210 ablish between 210 ard to 80 ard to	ween 7 rmally 200 and ween 8 rmally 200 and ween 7 rmally 200 and ween 7 01 and 200 and ween 7 rmally 200 and 222540 rmally 200 and 222540 rmally 200 and 222540 rmally 200 and 200	phone 100 & 8 phone 000 & 1 phone 101 & 6 phone phone d releas ormally phone 101& 7'	rings 000 with rings 000 with rings 200 with rings returns se call rings 100 with rings	n 2-way n 2-way n 2-way 2-way a busy ton 2-way a	audio audio audio ne	
	7	est Results:	Comments				Р	F	N/A	N/S	N/T	Е
			Commonto									



EP-8

 Remote CUCI Voicemail and Enable CFNA Dev 		CCP:5200 SIF abled for all DN 00 CFNA 1 01 CFNA 2 00 CFNA 6 00 CFNA 4 00 CFNA 4	000; SIP:20 :6200; I(s) Device= 000 (SCCP :348000 (DL :200 (SIP) :447101 (DL	Phone →	DN → Line → Voicer Call V	mail → No Vaiting→				usy Trig	ger → 1;	
1. 7100 dials 710 2. 7100 goes on-1 3. 8000 dials 444 4. 1000 goes on-1 5. 7101 dials 234 6. 7101 goes on-1 7.7101 dials 2000 8. 6200 answers 9. 8000 dials 520 10. 8000 goes on 11. 6200 goes on 12. Retrieve CDR 13. Check Calling Cause Codes Note: Upon test completin yellow before p	nook after 30s 7100→7100 does 7100→8000 does 1000 →8000 does 1000 →8000 does 1000 doe	t answer > 800 s not answer > 800 s not answer > 800 t answer > 710 sy tone NA" feature for test case	e1000 answere 6200 answere 0 does not a 01 does not a 12 Termination	ers answer answer n	Call forward to Call establish Call terminate Call establish Call terminate Call forward to Call establish Call terminate Call forward to Call establish Call terminate Call forward to Call establish Call terminate Call terminate Sall terminate Call forward to Call terminate Call forward to Sall terminate Call forward to	o 8000 a between a normal o 6200 a between a normal o 6200 a between a normal o 6200 a between a normal o 7100 a between a 68000 a between a field a fie	n 71 ly ly after n 80 ly after n 71 ly e no after n 71 ly ely after	ring tir 100 & 8 ring tir 101 & 6 ring tir 101 & 62 d termir 101 & 71 ring tir 101 & 71	one with meout 200 with meout 200 with mate cal meout 100 with meout 100 with meout 100 with meout	2-way n 2-way 2-way a	audio audio audio	
	Te	est Results: C	comments			F)	F	N/A	N/S	N/T	В

Category Functional Test: CFNA

RFC_Standard

Υ



EP-9

Category

Functional Test: CFB

 Voicemail and Enable CFB to De De De	vice→Phone→71 vice→Phone→71 vice→Phone→80 vice→Phone→62 vice→Phone→10 to remotely contro	abled for all D 00→CFB→1 01→CFB→2 00→CFB→6 00→CFB→4 00→CFB→2 I IP Phones:	Ns 000 (SCCP) 348000 (DU 200 (SIP) 447101(DU 348000 (DU	T) [) T)									
	Test Pro	ocedure			Exped	ted Resi	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 10 11. 1000 goes on- 12. 1000 dials 62 13. 7100 dials 23 14. 2000 dials 71 15. 7100 dials 23 16. 2000 & 6200 17. Retrieve CDF 18. Check Calling cause codes Note: Upon test comple	00→8000 answers hook 00→1000 answers 00→8000 answers 000→7101 on-hook 0-hook 000→7101 answers 01→7101 answers 01→7101 answers 01→7100 going oes on-hook	s 7100 on-hos hears busy s 7100 on-hos s k – hears busy s k – hears busy s s s s s s s s s s s s s s s s s s	ook after 30s sy tone on-hook after nears busy 1	s er 30s tone n	Ca Ca 711 Ca 711 Ca Ca 711 Ca Ca 711 Ca Ca 711 Ca Ca 711 10 Ca Ca 711 20 Ca Ca	III establis III forward III establis 00 termin III establis 00 hears 00 termin III establis 01 termin	d to 800 sh between the cash between the	00 and veen 7 II veen 5 one and II 00 and veen 7 II veen 2 veen 5 one an II luveen 1 U1 and veen 7 II veen 2 one an II veen 3 one an II veen 4	phone 100 & 8 200 & 8 ad relea 100 & 8 000 & 1 200 & 8 ad relea 100 & 7 000 & 7 ad relea 201 & 7 ad relea 202 & 7 ad relea 203 & 7 ad relea 203 & 7 ad relea 204 & 7 ad relea 205 & 7 ad relea 206 & 7 ad relea 207 & 7 ad relea 208 & 7 ad relea	rings 8000 with 8000 with se call rings 8000 with 8000 with 8000 with se call 101 with	n 2-way n 2-way n 2-way n 2-way n 2-way n 2-way	audio audio audio audio audio audio audio audio	
CUCM Administr	<mark>ation GUI:</mark> ▶DN → Line→CFE					CDR(s) I) match	calls			



Test Case #	EP-10	Category	gory Functional Test: Hold & Resume RFC_Standard							dard	Υ
Objective	Verify "Hold & F	Resume" calls	between DUT(s), SIP,	, SCCF	and PSTN endp	oints					
Remote CU0PSTN:210-2Remove all 0Call Waiting	Remote CUCM → DUT:8000; SCCP:5200; PSTN:210-222-5400;										
	Test Pro	ocedure		Ехр	ected Results						
2. 7100 hits "Re 3. 7100 dials 23 4. 5200 dials 44 5. 7100 hits "Re 6. 7100 dials 71 7. 7100 dials 23 8. 7101 goes on 9. 7101 dials 71 10. 7100 goes of 11. 7101 goes of 12. Repeat step 14. Repeat step 14. Repeat step 15. Retrieve CD 16. Check Callir	1. 7100 dials 7101→7101 answers→ 7100 hits "Hold" after 20s 2. 7100 hits "Resume" after 20s→7100 on-hook after 30s 3. 7100 dials 234-8000→8000 answers 4. 5200 dials 444-7100→7100 answers incoming call→8000 on-hold 5. 7100 hits "Resume" after 60s→7100 on-hook after 30s 6. 7100 dials 7101→7101 answers→7100 hits "Hold" after 30s 7. 7100 dials 234-5200→5200 answers→5200 on-hook after 30s 8. 7101 goes on-hook after 30s 9. 7101 dials 7100→7100 answers→7101 hits "Hold" after 30s 10. 7100 goes on-hook 10s later while call is on-hold 11. 7101 goes-hook 12. Repeat steps 1-2 for SCCP. Replace 7101 with 1000 13. Repeat steps 1-2 for SIP. Replace 7100 with 2000 14. Repeat steps 1-2 for PSTN. Replace 7101 with 92102225400 15. Retrieve CDR from CUCM 16. Check Calling, Called, Duration, Origination & Termination Cause Codes				Call establish better 101 is On-Hold (Call resume betwown Call terminate nor Call establish betwoen Call establish establish betwoen Call establish es	MOH) een 710 mally ween 7' MOH) ween 7' inated i een 710 mally ween 7' MOH) ween 7' all norm een 710 mally ween 7' MOH) ill during d	00 & 710 100 & 80 100 & 52 100 & 80 100 & 7 100 & 52 ally 00 & 710 101 & 7	000 with 200 with 00 with 101 with 200 with 01 with 100 with	n 2-way n 2-way 2-way a n 2-way n 2-way 2-way a	audio audio udio audio audio audio	
	T	est Results: (Comments			Р	F	N/A	N/S	N/T	В
						Х					



Test Case #	EP-11	Category	Functional Test: 0	Call Waiting	RFC_Standard	Y
Objective	Verify Call Waitin	ng calls betwe	een DUT(s), SIP a	nd SCCP endpoints	<u> </u>	
Remote CUCCall Waiting e	DUT(s):7100 & 7 M →DUT:8000; So	7101; SCCP:1 CCP:5200; S s): Device→F IP Phones: 1	Pre-Test	Conditions → Call Waiting → Max. Calls → 4; Busy	⁄ Trigger → 2;	
2. 8000 dials 444 3. 8000 goes on-1 4. 1000 dials 710 5. 1000 goes on-1 6. 7100 goes on-1 7. 7100 dials 100 8. 2000 dials 710 9. 2000 goes on-1 10. 7100 goes on-1 11. 6200 dials 44 12. 5200 dials 44 13. 5200 goes on-1 14. 6200 goes on-1 15. Retrieve CDR	1→7101 answers hook after 30s hook after 60s 0→7100 answers 0→7100 answers hook after 30s 1-hook after 60s 4-7101→7101 ans 1-hook after 60s 1-hook after 30s 1	incoming call incoming call swers swers incoming	ng call & Termination	Call establish between 7100 7100 notified of incoming cal 7101 is On-Hold (MOH) Call establish between 7100 7100 & 8000 terminate norm Call resume between 7100 7101 notified of incoming cal 7101 answers incoming call 7100 is On-Hold (MOH) Call establish between 7101 7101 & 1000 terminate norm Call resume between 7100 7100 & 7101 terminate norm Call establish between 7100 7100 notified of incoming cal 7100 answers incoming call 1000 is On-Hold (MOH) Call establish between 7100 7100 answers incoming call 1000 is On-Hold (MOH) Call establish between 7100 7100 & 2000 terminate norm Call resume between 7100 7100 & 1000 terminate norm Call resume between 7100 7101 answers incoming cal 7101 answers incoming cal 7101 answers incoming call 6200 is On-Hold (MOH) Call establish between 6200 7101 answers incoming call 6200 is On-Hold (MOH) Call establish between 7101 7101 & 5200 terminate norm Call resume between 6200 6200 & 7101 terminate norm 7 CDR(s) retrieved Selected fields in CDR(s) m	all (tone /display) 0 & 8000 with 2-way audio mally & 7101 all (tone /display) 1 & 1000 with 2-way audio mally & 7101 mally 0 & 1000 with 2-way audio mally 0 & 1000 with 2-way audio mally 0 & 1000 with 2-way audio mally & 1000 mally 0 & 7101 with 2-way audio mally 1 & 5200 with 2-way audio mally 1 & 5200 with 2-way audio mally 2 match calls	
	Те	st Results: (Comments	P	F N/A N/S N/1	В
				Х		



EP-12

Category

Objective Verify "Blind Transfer" calls between DUT(s), SIP and SCCP endpoints							
Pre-Test Conditions							
 Local CUCM→DUT(s):7100 & 7101; SCCP:1000; SIP:2000; Remote CUCM →DUT:8000; PSTN DN: 210-222-5400 Invalid DN:7777; RPC is used to remotely control IP Phones: 1000, 2000, 21022254 Test Procedure 	00; Expected Results						
1. 7100 dials 7101→7101 answers→7101 hits "Transfer" after 30s 2. 7101 dials 234-8000→ 7101 hits "Transfer"→7101 is on-hook 3. 8000 goes on-hook after 60s 4. 7100 dials 7101→7101 answers→7100 hits "Transfer" after 30s 5. 7100 dials 234-7777→7100 hits "Transfer"→7100 is on-hook 6. 7101 goes on-hook — hears reorder tone 7. 7100 dials 1000→1000 answers→7100 hits "Transfer" after 30s 8. 7100 dials 7101→7100 hits "Transfer"→7100 is on-hook 9. 1000 goes on-hook after 60s 10. 7100 dials 2000→2000 answers→7100 hits "Transfer" after 30s 11. 7100 dials 1000→7100 hits "Transfer"→7100 is on-hook 12. 1000 goes on-hook after 20s 13. 7101 dials 234-8000→8000 answers 14. 7100 dials 2000→2000 answers→2000 hits "Transfer" after 30s 15. 2000 dials 234-8000→2000 hits "Transfer"→2000 is on-hook 16. 7100 goes on-hook - hears busy tone 17. Retrieve CDR from CUCM 18. Check the Calling, Called, Duration, Origination & Termination Cause Codes	Call establish betw 7100 is On-Hold (I 7100 blind transfe All calls terminate Call establish betw 7101 is On-Hold (I 7101 blind transfe 7101 hears reorde All calls terminate Call establish betw 1000 is On-Hold (I 1000 blind transfe All calls terminate Call establish betw 2000 is On-Hold (I 2000 blind transfe All calls terminate Call establish betw 2000 is On-Hold (I 2000 blind transfe All calls terminate Call establish betw 7100 is On-Hold (I 7100 blind transfe 7100 hears a busy All calls terminate 15 CDR(s) retrieve Selected fields in I	MOH) r to 800 normal ween 7' MOH) r to Invertone normal ween 7' MOH) r to 710 normal ween 7' MOH) r to 100 normal ween 7' MOH) r to 800 y tone normal ed CDR(s)	00 with ally 100 & 7 alid DN 11 with 2 11 with 2 11 with 2 11 with 2 100 & 2 1	2-way a 101 with 77777 000 with 2-way a 000 with 2-way a 000 with 000 with	audio pa n 2-way udio n 2-way udio pat n 2-way n 2-way	th audio audio h audio audio	
Test Results: Comments		Р	F	N/A	N/S	N/T	В
		Х					

Functional Test: Blind Transfer



EP-13

 Local CUCM→DUT(s):7100 & 7101; SCCP:1000; SIP:2000; Remote CUCM →DUT:8000; PSTN DN: 210-222-5400 RPC is used to remotely control IP Phones: 1000, 2000, 2102; Test Procedure	5400; Expected Results
1.7100 dials 7101→7101 answers→7101 hits "Transfer" after 30s 2.7101 dials 2348000→8000 answers 3.7101 hits "Transfer" after 30s→7101 is on-hook 4.8000 goes on-hook after 60s 5.7100 dials 1000→1000 answers→7100 hits "Transfer" after 30s 6.7100 dials 7101→7101 answers→7100 hits "Transfer" after 30s 7.7100 goes on-hook 8.1000 goes on-hook after 60s 9.7100 dials 2000→2000 answers→7100 hits "Transfer" after 30s 10.7100 dials 2000→1000 answers→7100 hits "Transfer" after 30s 1.7100 goes on-hook 1000 answers→7100 hits "Transfer" after 30s 1.7100 goes on-hook after 60s 13.7101 dials 92102225400→2103335400 answers 14.7101 hits "Transfer" after 30s→7101 dials 7100→7100 answer 15.7101 hits "Transfer" after 30s→7101 is on-hook 16.2102225400 goes on-hook after 60s 17. Retrieve CDR from CUCM 18. Check the Calling, Called, Duration, Origination & Termination Cause Codes	Call establish between 7100 & 7101 with 2-way audio 7100 is On-Hold (MOH) 7100 consult transfer to 8000 with 2-way audio path All calls terminate normally Call establish between 7100 & 1000 with 2-way audio 1000 is On-Hold (MOH) 1000 consult transfer to 7101 with 2-way audio path All calls terminate normally Call establish between 7100 & 2000 with 2-way audio 2000 is On-Hold (MOH) 2000 consult transfer to 1000 with 2-way audio path All calls terminate normally Call establish between 7101 & 2102225400 with 2-way audio 2102225400 is On-Hold (MOH) 2102225400 consult transfer to 7100 with 2-way audio path All calls terminate normally All calls terminate normally Selected fields in CDR(s) match calls
Test Results: Comments	P F N/A N/S N/T B

Category Functional Test: Consult Transfer



Test Case # EP-14

Local CUCM→DUT(s):7100 & 7101; SCCP:1000; SIP:2000; Remote CUCM →DUT:8000; PSTN DN: 210-222-5400; Service parameter: Drop Ad Hoc Conference → Never (Default) Media Resource Group (MRG) & Media Resource Group List (MRG_L) Assign Media Resource: System→Device Pool→po_nol→Media Resource Group List→MRG_L RPC remotely control IP Phones: 1000, 2000, 2102225400; Test Procedure Expected Results 1.7100 dials 7101→7101 answers→7101 hits "Conference" after 30s 2.7101 thits "Conference" after 30s 4.7100 goos on-hook after 60s 5.8000 goes on-hook after 60s 5.8000 goes on-hook after 30s 6.7100 dials 7101→7101 answers→7100 hits "Conference" after 30s 8.1000 goes on-hook after 60s 9.7100 goes on-hook after 60s 10.7100 dials 2000→2000 answers→7100 hits "Conference" after 30s 10.7100 dials 2000→2000 dials 21000→2000 dials	7001 0400 #	LF-14	,	T dilotional Tool					131	O_Otan	uuru	<u> </u>
Local CUCM→DUT(s):7100 & 7101; SCCP:1000; SIP:2000; Remote CUCM →DUT:8000; PSTN DN: 210-222-5400; Service parameter: Drop Ad Hoc Conference → Never (Default) Media Resource Group (MRG) & Media Resource Group List (MRG_L) Assign Media Resource: System→Device Pool→p_pool→Media Resource Group List→MRG_L RPC remotely control IP Phones: 1000, 2000, 2102225400; Test Procedure L7100 dials 7101→7101 answers→7101 hits "Conference" after 30s 2.7101 dials 2348000→9000 answers 3.7101 hits "Conference" after 30s 4.7100 goes on-hook after 30s 6.7100 dials 7101→7101 answers→7100 hits "Conference" after 30s 8.1000 goes on-hook after 30s 1.7100 dials 1000→1000 answers→7100 hits "Conference" after 30s 11.7100 dials 2000→2000 answers→7100 hits "Conference" after 30s 11.7100 dials 2000→2000 answers→7100 hits "Conference" after 30s 11.7100 dials 2000→2000 hits "Conference" after 30s 11.7100 dials 2000→2000 hits "Conference" after 30s 11.7100 dials 2000→2000 hits "Conference" after 30s 12.7100 dials 2000→2000 hits "Conference" after 30s 12.7100 dials 2000→2000 hits "Conference" after 30s 13.2000 hits "Conference" after 30s 14.8000 answers→2102225400 hits "Conference" after 30s 15.7100 goes on-hook after 30s 16.7101 answers→2102225400 hits "Conference" after 30s 17.7100 dials 2000→2000 hits "Conference" after 30s 18.7100 goes on-hook after 30s 18.7100 goes on-hoo	Objective		ce call betwee	SCCP an	d PSTN endpoint	is .						
 Remote CUCM → DUT:8000; PSTN DN: 210-222-5400; Service parameter: Drop Ad Hoc Conference → Never (Default) Media Resource Group (MRG) & Media Resource Group List (MRG_L) Assign Media Resource: System → Device Pool-9-p. pool-9 Media Resource Group List→MRG_L RPC remotely control IP Phones: 1000, 2000, 2102225400; Test Procedure Test Procedure Expected Results Call establish between 7100 & 7101 with 2-way audio 7100 is On-hold (MOH) 8000 goes on-hook after 30s 7100 dials 7010→7101 answers→7100 hits "Conference" after 30s 8000 goes on-hook after 30s 7100 dials 1000→1000 answers→7100 hits "Conference" after 30s 81000 goes on-hook after 30s 7100 dials 2000→2000 answers→7100 hits "Conference" after 30s 7101 dials 2225400→2102225400 answers 7100 dials 2000→2000 dials 2348000 7100 dials 7010 ference" after 30s 2102225400 hits "Conference" after 30s 7101 answers→2100 bits "Conference" after 30s 71022225400 goes on-hook after 60s 7101 dials 2000→2000 answers→7100 hits "Conference" after 30s 71022225400 hits "Conference" after 30s 7101 dials 2000→2000 answers→7100 hits "Conference" after 30s 7101 dials 2000→2000 answers→7100 hits "Conference" after 30s 7102225400 pot son-hook after 30s 71022225400 hits "Conference" after 30s 7101 dials 2000→2000 answers→7100 hits "Conference" after 30s 7102225400 pot son-hook after 30s 7102225400 pot son-hook after 30s 710225400 pot son-hook after 30s	Pre-Test Condi	tions										
1.7100 dials 7101→7101 answers→7101 hits "Conference" after 30s 2.7101 dials 2348000→8000 answers 3. 7101 hits "Conference" after 30s 4. 7100 goes on-hook after 60s 5. 8000 goes on-hook after 60s 5. 8000 goes on-hook after 30s 6. 7100 dials 7101→7101 answers→7100 hits "Conference" after 30s 7. 7100 dials 1000→1000 answers→7100 hits "Conference" after 30s 8. 1000 goes on-hook after 60s 9. 7100 goes on-hook after 60s 9. 7100 goes on-hook after 60s 10. 7100 dials 2000→2000 answers→7100 hits "Conference" after 30s 10. 7100 dials 2000→2000 answers→7100 hits "Conference" after 30s 11. 7100 dials 21002225400→2102225400 answers 12. 7100 hits "Conference" after 30s 13. 2000 hits "Conference" after 30s 13. 2000 hits "Conference" after 30s→2102225400 dials 2348000 14. 8000 answers→2000 hits "Conference" after 30s 15. 2102225400 pose on-hook after 30s 17. 2102225400 goes on-hook after 30s 17. 2102225400 goes on-hook after 60s 18. 7100 goes on-hook after 60s 18. 7101 dials 2000→2000 answers→7100 hits "Conference" after 30s 21. 7100 dials 2000→2000 answers→7100 hits "Conference" after 30s 22. 2000 goes on-hook after 30s 23. Retrieve CDR from CUCM 24. Check the Calling, Called, Duration, Origination & Termination Cause Codes Call establish between 7100 & 7101 with 2-way audio 7100 is On-hold (MOH) 8000 is conference. Ill with 3-way audio 7100 left conference. 7101 & 8000 connect directly All calls terminate normally 2102225400, 7100 & 2000 leave conference. 8000 & 7100 connect directly All calls terminate normally 2102225400, 7100 & 2000 leave conference. 8000 & 7100 connect directly All calls terminate normally 2102225400, 7100 & 2000 leave conference. 8000 & 7100 connect directly All calls terminate normally 2102225400, 7100 & 2000 leave conference. 8000 & 7100 connect directly All calls terminate normally 2102225400 dials 2100→2000 hits "Conference" after 30s 2102225400 dials 2100→2000 hits "Conference" after 30s 2102225400 dials 2100→2000 hits "Conference" after 30s 2102225400 dials 2100→2000 hits "Conference" after 30	 Remote CUC PSTN DN: 2 Service para Media Resou Assign Media 	CM → DUT:8000; 10-222-5400; meter: Drop Ad Ho urce Group (MRG) a Resource: Syster	oc Conference & Media Reso m→Device Po	→ Never (Defau ource Group List ool→ep_pool→M	(MRG_L		: → MRG_l	-				
2.7101 dials 2348000 → 8000 answers 3. 7101 hits "Conference" after 30s 4. 7100 goes on-hook after 60s 5. 8000 goes on-hook after 30s 6. 7100 dials 7101 → 7101 answers → 7100 hits "Conference" after 30s 7. 7100 dials 1000 → 1000 answers → 7100 hits "Conference" after 30s 9.7100 goes on-hook after 60s 9.7100 goes on-hook after 30s 10. 7100 dials 2000 → 2000 answers → 7100 hits "Conference" after 30s 11. 7100 dials 92102225400 → 2102225400 answers 12. 7100 hits "Conference" after 30s 13. 2000 hits "Conference" after 30s 13. 2000 hits "Conference" after 30s 15. 2102225400 hits "Conference" after 30s 15. 2102225400 hits "Conference" after 30s 17. 2102225400 hits "Conference" after 30s 18. 7100 goes on-hook after 60s 18. 7100 goes on-hook after 30s 20. 7100 dials 2000 → 2000 answers → 7100 hits "Conference" after 30s 21. 7100 hits "Conference" after 30s 22. 2000 goes on-hook after 30s 23. Retrieve CDR from CUCM 24. Check the Calling, Called, Duration, Origination & Termination Cause Codes 1 7100 hits "Conference" after 30s 2 7100 hits "Conference" after 30s 3 parties in conference call with 3-way audio 2 7100 left conference 7100 & 2000 with 2-way audio 2 7100 left conference call with 3-way audio 2 7100 left conference call with 5-way audio 2 7100 left conference call with 3-way audio 2 7100 left conference call with 3-w	Test Procedure					Expected Resu	ılts					
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2.7101 dials 234 3. 7101 hits "Col 4. 7100 goes on 5. 8000 goes on 6. 7100 dials 711 7. 7100 dials 101 8.1000 goes on 9.7100 goes on 9.7100 dials 20 11. 7100 dials 20 12. 7100 hits "Col 13. 2000 hits "Col 14. 8000 answer 15. 2102225400 16. 7101 answer 17. 2102225400 18. 7100 goes on 19. 2000 goes o 19. 2000 goes o 20. 7100 dials 20 21. 7100 dials 20 21. 7100 dials 20 22. 2000 goes o 23. Retrieve CDI 24. Check the Col	#8000→8000 answ inference" after 30s -hook after 60s -hook after 30s 00→7101 answers 00→1000 answers hook after 60s hook after 30s 000→2000 answers 2102225400→210 conference" after 30 onference" after 30 onference" after 30 onference" after 30 onference" after 30 onference" after 30 on hits "Conference" rs→2102225400 h goes on-hook after 30s n-hook after 30s 000→2000 answer 000→7100 resume n-hook after 30s R from CUCM alling, Called, Dura	⇒7100 hits "0 ⇒7100 hits "0 ⇒7100 hits "0 s⇒7100 hits "0 s⇒7100 hits 2225400 answ s s⇒2000 dials ference" after after 30s⇒21 its "Conference of 60s s⇒7100 hits as call before "	Conference" after Conference" after "Conference" after vers 2348000 30s 02225400 dials 7 e" after 30s	r 30s r 30s er 30s 7101	 7100 is On-I 8000 is conf 3 parties in o 7100 left con All calls term Call establis 2000 is On-I 2102225400 All 5 parties 2102225400 connect dire All calls term Call establis 2000 is plac Conference Call between All calls term CDR(s) retri 	nold (MOHerence-in conference.7 ninate norm h between Hold (MOH), 8000 & 2 ctly ninate norm h between ed on-hold setup was n 7100 aninate norm eved	d) e call with the call with the call with the call the c	th 3-way 000 conferer 2000 w conferer with 5-v ve confe 2000 w ed esumed	/ audio nnect dir vith 2-wance-in way auc erence. vith 2-wa	ectly ay audic lio 8000 &	710
		Te	est Results: 0	Comments			Р	F	N/A	N/S	N/T	Е
	Dect device dis				ference					15		

Category Functional Test: Conference Call



EP-15

Category

 Local CUCM→DUT(s):7100 & 7101; SCCP:1000; SIP:2000; Remote CUCM →DUT:8000; PSTN DN: 210-222-5400; Call Park Code: Routing→Call Park→3001 RPC is used to remotely control IP Phones: 1000, 2000, 2102225 Test Procedure	400;
1. 7100 dials 2348000→8000 answers 2. 7100 hits "Park" softkey after 10s 3. 7101 dials park code:3001 after 20s 4. 8000 goes on-hook after 30s 5. 7100 dials 1000→1000 answers 6. 1000 hits "Park" softkey after 10s 7. 7101 dials park code:3001 after 20s 8. 7100 goes on-hook after 30s 9. 2000 dials 7101→7101 answers 10. 7101 hits "Park" softkey after 10s 11. 7100 dials park code:3001 after 20s 12. 2000 goes on-hook after 30s 13. 2102225400 dials 7100→7100 answers 14. 7100 hits the "Park" softkey after 10s 15. 7100 dials park code:3001 after 20s 16. 2102225400 goes on-hook 17. Retrieve CDR from CUCM 18. Check the Calling, Called, Duration, Origination & Termination Cause Codes	 Call establish between 7100 & 8000 with 2-way audio 8000 is parked 7101 picks up parked call Call establish between 7101 & 8000 with 2-way audio Call terminate normally Call establish between 7100 & 1000 with 2-way audio 7100 is parked 7101 picks up parked call Call establish between 7101 & 7100 with 2-way audio Call establish between 7101 & 7100 with 2-way audio Call establish between 2000 & 7101 with 2-way audio 2000 is parked 7100 picks up parked call Call establish between 7100 & 2000 with audio path Call establish between 2102225400 & 7100 with 2-way audio 2102225400 is parked 7100 picks up parked call Call establish between 7100 & 2102225400 with 2-way audio Call establish between 7100 & 2102225400 with 2-way audio Call terminate normally 8 CDR(s) retrieved Selected fields in the CDR matched the calls
Test Results: Comments DUT devices invoke Call Park with feature code, *16+1 or more dignores any digits after the 16 is entered. CUCM parks the call dextension range in the CUCM.	

Functional Test: Call Park

RFC_Standard

Ν



Test Case #	EP-16	Category	Functional Test: Call Park Reversion RFC_Standard								dard	N
Objective	Verify "Call Parl	k Reversion"	call for DUT(s), S	IP and	SCCP endpoi	nts						
Pre-Test Conditi	ons											
Remote CUCCall Park CocService PararRPC is used to	DUT(s):7100 & 7 M →DUT:8000; le: Routing→Call I neter: Call Park R o remotely control	Park → 3001 eversion Time	er → 60s	,								
Test Procedure				E	xpected Resi	ults						
1. 7100 dials 234-8000→8000 answers 2. 7100 hits "Park" softkey after 10s 3. Do not pickup parked call for 60s 4. 7100 is ringing→7100 answers 5. 8000 goes on-hook after 30s 6. 7100 dials 1000→1000 answers 7. 1000 hits "Park" softkey after 10s 8. Do not pickup parked call for 60s 9. 1000 is ringing→1000 answers 10. 7100 goes on-hook after 30s 11. 2000 dials 7101→7101 answers 12. 7101 hits "Park" softkey after 10s 13. Do not pickup parked call for 60s 14. 7101 is ringing→7101 answers 15. 2000 goes on-hook after 30s 16. Retrieve CDR from CUCM 17. Check the Calling, Called, Duration, Origination & Termination Cause Codes					Call establis 8000 is park 7100 picks of Call establis Call termina Call establis 7100 picks of Call establis Call termina Call establis Call termina Call establis Call establis Call establis Call termina 6 CDR(s) re Selected fie	ked up parke sh betwe ste norm sh betwe sed up parke sh betwe ste norm sh betwe ste norm sh betwe ste norm sh betwe ste norm strieved	ed call een 710 ally een 710 ed call een 200 ed call een 710 ally	00 & 80 00 & 10 00 & 71 00 & 71 01 & 20	00 with 00 with 00 with 01 with	2-way a 2-way a 2-way a 2-way a	udio udio udio udio	
	Те	est Results: (Comments				Р	F	N/A	N/S	N/T	В
	_						Х					
									II.	11	1	



Test Case #	EP-17	Category	Functional Test:	Directe	d Call Park			RFC	_Stand	ard	N
Objective	Verify "Assiste	ed Directed	Call Park" call betv	ween D	UT(s) and SIP endpoi	nts					
Pre-Test Conditi	ons										
 Remote CUCI Enterprise Pa Directed Call Add BLF Call Update Phone Directed Call 	M →DUT:8000; rameter: BLF For Park DN-3011:Ro Park: Device→D Button Template	Call Lists → Duting→Dire evice Setting for all DN(s ned for all (E	cted Call Park→30 gs→Phone Button s)::Device→Phone DN(s):Device→Pho	011 & R Templa e→DN→	etrieval Prefix * ate→Copy template→ Phone Button Templ N→Line 4 BLF→DN:	ate → Bl		Call Pa	ırk BLF		
Test Procedure	Test Procedure Expected Results										
1. 8000 dials 444: 2. 2000 hits "BLF" 3. 2000 goes on-1 4. 7101 dials *30' 5. 8000 goes on-1 6. 2003 dials 234- 7. 2003 hits "BLF" 8. 2003 goes on-1 9. 1000 hits dials 10. 1000 goes on 11. Retrieve CDR 12. Check the Ca	" button for Assis nook 11 to retrieve call nook after 30s -8000→8000 ans " button for Assis nook *3011 to retrieve -hook after 30s t from CUCM lling, Called, Dura	sted Directed I when the B swers sted Directed call when B	Os	 Call establish bets 8000 is parked 7101 retrieves dir Call establish bets Calls terminate no Call establish bets 8000 is parked 1000 retrieves dir Call establish bets Call establish bets Calls terminated r 4 CDR(s) retrieve Selected fields in 	ected payeen 80 prmally ween 20 ected payeen 10 promally d	arked ca 000 & 7' 003 & 80 ark call 000 & 80	all 101 with 000 with	n 2-way	audio audio		
	To	est Results	: Comments	<u> </u>		Р	F	N/A	N/S	N/T	В
Directed Ca	III Park feature is	s only confi	gured on Cisco d	devices	per test case.	Х					



Test Case #	EP-18 Category Functional Test: Direct Transfer RFC_Standard									dard	N
Objective	Verify "Direct T	ransfer" call fro	m a shared line	between	DUT(s), SCCP	, SIP and I	PSTN er	ndpoints	1		
Local CUCM Remote CUC PSTN: 210- DN:1901 (st RPC is used Test Procedure 1. 7101 dials 71	itions 1→DUT(s):7100 & CM →DUT:8000; 222-5400; pared line) assigne I to remotely control 00→7100 answers	7101; SCCP:1 d to Line 2 on I ol IP Phones: 1	000; SIP:2000;	225400;	Expected Res Call establis	ults sh betweel	n 7101 8			ay audic	,
3. 1901 dials 23 4. Scroll to 1st ct 5. Scroll to 2nd ct 6. 1901 goes or 7. 7101 goes or 8. 7100 dials 71 9. 7100 selects 10. 1901 dials 1 11. Scroll to 1st 12. Scroll to 2nd 13. 1901 goes of 14. 1000 goes of 15. 8000 dials 4 16. 7100 selects 17. 1901 dials 2 18. Scroll to 1st 19. Scroll to 1st 19. Scroll to 2nd 20 1901 goes 21. 2000 goes of 22. 7100 dials 2 23. 7100 selects 24. 1901 dials 2 25. Scroll to 2nd 26. Scroll to 2nd 27. 1901 goes of 28. 8000 goes of 29. Retrieve CD	n-hook after 30s 01→7101 answers shared line:DN:19 000→1000 answer call and hit select call and hit select con-hook after 30s 44-7100→7100 ar s shared line:DN:19 000→2000 answer call and hit select con-hook and hit select call and hit select con-hook and	swers nd hit "DirTfr" s 01 after 30s ers and hit "DirTfr" nswers 901 after 30s ers and hit "DirTfr" 901 after 30s 12225400 answ and hit "DirTfr"	on & Termination		 7101 is On-Call establis 7101 direct 1901 dropp Call termina Call establis 7101 On-Ho Call establis 7101 direct 1901 dropp Call establis 8000 is On-Call establis 7101 direct 1901 dropp Call establis 7101 direct 1901 dropp Call establis 7101 direct 1901 dropp Call establis 8000 is On-Call establis 801 direct 1901 dropp Call termina Call termina 8 CDR(s) re Selected field 	sh between transfer to led off from late normal sh between transfer to led off from late normal sh between transfer to led off from late normal sh between transfer to led off from late normal late normal late normal late normal late late normal late late normal late late late late late late late la	n 1901 8 9 8000 w n call lly n 7100 8 9 8000 w n call lly n 8000 8 e/Silenca n 1901 8 9 2000 w n call lly n 7100 8 e/Silenca 102225 9 103335 n call lly	ith 2 wa 4 7101 v 4 1000 v 5 1000 v 6 2000 v 6 2000 v 6 3000 v 6 500 with	y audio vith 2-wa vith 2-wa vith 2-wa vith 2-wa vith 2-wa h 2 way h 2 way	ay audio ay audio ay audio ay audio audio audio	
	Т	est Results: C	omments			Р	F	N/A	N/S	N/T	В
			cond line on Dl	JT					Х		



Objective

EP-19

 Local CUCM→DUT(s):7100 & 7101; SCCP:1000; SIP:2000; Remote CUCM →DUT:8000; SCCP:5200; SIP:6200; PSTN: 210-222-5400; Assign Media Resource: System→Device Pool→ep_pool→Media Resource: RPC is used to remotely control IP Phones with DN: 1000, 2000, 5200, 6 Test Procedure	200, 2102225400);	-				
 7100 dials 92102225400→2102225400 answers 7100 hits "Conference" after 30s 7100 dials 7101→7101 answers→7100 hits "Conference" after 30s 2000 dials 7101→7101 answers 2nd incoming call 2000 hits "Conference" after 20s 2000 dials 234-8000→8000 answers→2000 hits "Conference" after 20s 2000 dials 1000→1000 answers→2000 hits "Conference" after 20s 7101 selects conference 1 and hits the "Join" softkey 7101 goes on-hook after 60s 8000 goes on-hook after 70s All other participants ended call after 120s Retrieve CDR from CUCM Check the Calling, Called, Duration, Origination & Termination Cause Codes 	Call between 7101 & 2102225400 with 2-way audio 2102225400 is On-Hold (Tone/Silence) Call establish between 7100 & 7101 with 2-way audio All 3 participants join in conference-1 Call establish between 2000 & 7101 with 2-way audio 7101 is On-Hold (Tone/Silence) Call establish between 2000 & 8000 with 2-way audio All 3 participants join in conference-2 All participants in conference 1 & 2 are joined 7101 left conference 8000 left conference All participants terminate normally 12 Records retrieved Selected fields in CDR(s) match calls						dio dio

Category Functional Test: Automated CDR Creation

Verify joining two "Ad-Hoc Conference" using DUT(s), SIP, SCCP and PSTN endpoints

Test Case #	EP-20	Category	Functional Test:	: Meet-Me RFC_Standard N								
Objective	Verify "Meet-Me	" Conference	call using DUT(s	, SCCP and SIP end	points							
Pre-Test Condit	ions											
Remote CUCMeet-Me #: CMeet-Me Cor		:-Me → Add N <mark>101): Device</mark>	ew→5555 [meet- →Phone→DN:71	,	Space → css-m							
rest Procedure				Expected Result	เร							
 1000 dials 555 2000 dials 555 8000 dials 444 All 4 members Retrieve CDR 	55 I-5555 go on-hook after 1	 7101, 1000, 2 All 4 parties in Conference c 4 CDR(s) retr Selected field Note: Change the after test is	n conference wall terminate nieved s in CDR(s) me	with 4-w normally natch ca	ay audic)		ort				
Test Results: Comments						F	N/A	N/S	N/T	В		
	16	st Nesults.	Oomments		Р		11/7	14/3	14/1			

RFC_Standard

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Test Case #	EP-21	Category	Functional Test: Callback				RF	C_Stand	dard	N
Objective	Verify "Callback"	' calls betwee	n DUT(s), SCCP, SIP	and PSTN endpoints						
Pre-Test Condi			, , ,							
Remote CUC PSTN DN: 2 VM and CW RPC is used Test Procedure	· !	<mark>ones</mark> ; bl IP Phones:	1000; SIP:2000; 000, 2000, 210-222-	Expected Results	740	0.0.740				
2. 8000 dials 444 3. 7101 goes on 4. 8000 redials 44 5. 7101 answers 6. 7100 dials 100 7. 7101 dials 100 8. 7100 goes on 9. 7101 redials 1 10. 1000 answe 11. 2000 dials 7 12. 7101 dials 2 13. 7100 goes o 14. 7101 redials 15. 2000 answe 16. 7101 dials 9 17. 7100 dials 9 18. 2102225400 19. 7100 redials 20. Retrieve CD	444-7101 after calli →7101 goes on-h 700→1000 answers 700→7101 hits "Callook after 60s 700→1000 goes on-h 7100 goes on-h 7100→7100 answer 7100→7101 hits "Callook 7101 goes on-h 7101 goes on-h 7102225400→710 7102225400→710 7100 goes on-hook after 7101 goes on-h 7102 goes on-h 7101 goes on-h 7102 goes on-h 7103 goes on-h 7103 goes on-h 7104 goes on-h	 Call establish between 7100 & 7101 with 2-way audio 8000 hears a busy tone & displays "Callback Active" 7100 & 7101 terminate normally 8000 receives callback alert with single button redial Call establish between 8000 & 7101 with 2-way audio Call terminate normally Call establish between 7100 & 1000 with 2-way audio 7101 hears a busy tone & displays "Callback Active" 7100 & 1000 terminate normally 7101 receives callback alert with single button redial Call establish between 1000 & 7101 with 2-way audio Call establish between 2000 & 7100 with 2-way audio 7101 hears a busy tone & displays "Callback Active" 2000 & 7100 terminate normally 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 7101 & 2102225400 with 2-way audio 7100 hears a busy tone & displays "Callback Active" 7100 & 2102225400 terminate normally 7100 receives callback alert with single button redial Call establish between 7101 & 2102225400 with 2-way audio 7100 receives callback alert with single button redial Call establish between 7101 & 2102225400 with 2-way audio Call establish between 7101 & 2102225400 with 2-way audio Call establish between 7101 & 2102225400 with 2-way audio Call establish between 7101 & 2102225400 with 2-way audio Call establish between 7101 & 2102225400 with 2-way audio Call establish between 7101 & 2102225400 with 2-way audio Call establish between 7101 & 2102225400 with 2-way audio Call establish between 7101 & 2102225400 with 2-way audio Call establish between 7101 & 2102225400 with 2-way audio 								
	Т	est Results:	Comments		Р	F	N/A	N/S	N/T	В
Executed agair DUT calls a bus hang-up. When	modified to account the DUT devices phone and upon the called phone.	ommodate Dies. on receiving e is off the care	JT Callback implements busy tone, the caller all and goes into avainessage. Moreove	will press 5 and illable state, the	X					



Test Case # EP-22

	LI 22										
Objective	Verify "Barge"	call using DUT(s), SCC	P, SIP and	d PS	TN endpoints						
Pre-Test Condi	tions										
 Remote CUC PSTN:210-22 Cluster-wide Built Ir Party Device→Pho Share Privac Single 	CM → DUT:8000; 22-5400 Service Paramen In Bridge Enable → Entrance Tone → DN: d line DN:1901 a by on Phones with Button Barge →	On True dded to devices with Di shared lines→Off	N:7100, 71								
Test Procedure				Ex	pected Results						
12. 7100 goes of 13. 8000 goes of 14. 2102225400 15. 1901 answer 16. 7101 hits line 17. 2102225400 18. Retrieve CDI	(Shared line on 1901 and selects-hook after 60s on 1901 and selects-hook after 60s after 70s after 70s after 60s after 60s after 70s after 60s after 70s after 60s after 70s after 60s aft	barge after 20s 1000) barge after 20s 1 2000) s barge after 20s 1 7100) s barge after 20s ter 60s ration, Origination & Ter		• • • • • • • • • • • • • • • • • • • •	Call establish beth All 3 parties conference Call establish beth All 3 parties conference Call establish beth All 3 parties conference All 3 parties conference Final call terminat Call establish beth All 3 parties conference Sarged conference Sarged conference Sarged conference Selected fields in	erence-in e termina ween 710 erence-in e termina ween 800 erence w e termina de normal ween 210 erence w e termina d CDR(s) r	with 3-wate normal of & 190° with 3-wate normal of & 190° with 3-wayate normal of & 190° with 3-wayate normal of & 190° water normal of & 190° water normal of & 190° water normal of & 190° with 3-wayate normal of & 19	vay audi ally 1 with 2- vay audi ally 1 with 2- v audio ally 0 & 1901 v audio ally	o vay au o vay au way au	dio dio -way aud	
		est Results: Commen				Р	F	N/A	N/S	N/T	В
	Cannot	configure a second lin	e on DUT						Х		

Category Functional Test: Barge

RFC_Standard N



Test Case #	EP-23	Category	Functional Test:	cBarge				RF	C_Stan	dard	N
Objective	Verify "cBarge"	call using DU	T(s), SCCP, SIP a	ınd PSTN e	endpoints			·			
Pre-Test Condi	itions										
 Remote CU PSTN DN: 2 Enable Barg BB P6 Device→Ph Share Privac Single 	uilt In Bridge Enab arty Entrance Tone one → DN: ed line DN:1901 ac cy on Phones with e Button Barge→c	ng Cluster-wid le→On e→True dded to devic shared lines• Barge	e Service Parame	7101,1000,							
Test Procedure	9			1	Francisco de F) a a u léa					
		the state of the s			Expected F	Results					
2. 7101 selects 3.1901 goes on- 4. 8000 goes on 5. 2102225400 6. 2000 selects 7. 7100 selects 8. 1901 goes on 9. Remaining 3 10. Retrieve CD	dials 9410444190: line 1901 after 20s line 1901 Select 1 n-hook after 60s (S parties go-hook af R from CUCM calling, Called, Dur	s hared line on 11→1901 answ s 901 after 30s thared line on ter 120s ration, Origina	7100) vers (Shared line of 7100) tion & Termination	,	 Call esta All 3 par cBarge Call beto All 4 par 7100 ter 3 parties 11 CDR 	ablish between conference ween 2102 ties conferminated con	rence-in e termina 2225400 rence-in conference e cBarge ed	with 3-Nate norm & 1901 with 4-Nate 1st ce 1st confere	way aud nally with 2-v way aud ence aft	io way aud io	lio
2. 7101 selects 3.1901 goes on- 4. 8000 goes on- 5. 2102225400 6. 2000 selects 7. 7100 selects 8. 1901 goes on 9. Remaining 3 10. Retrieve CD 11. Check the C	line 1901 after 20s -hook after 60s (SI -hook after 80s dials 9410444190: line 1901 after 20s line 1901 Select 1 -hook after 60s (S parties go-hook af R from CUCM calling, Called, Dures	shared line on 1→1901 answ 9001 after 30s shared line on ter 120s ration, Origina	7100) vers (Shared line of 7100) tion & Termination	,	 Call esta All 3 par cBarge Call beto All 4 par 7100 ter 3 parties 11 CDR 	ablish betw ties confe conference ween 2102 ties confe rminated c s terminate (s) retrieve	rence-in e termina 2225400 rence-in conference e cBarge ed	with 3-Nate norm & 1901 with 4-Nate 1st ce 1st confere	way aud nally with 2-v way aud ence aft	io way aud io	lio



Test Case #	EP-24	Category	Functional Test:	Share	d Line – Hold/Resum	е		RF	C_Stan	dard	N
Objective	Verify "Hold/Re	esume" call o	n a shared line us	sing Dl	JT(s), SCCP and SIP	endpo	ints				
Pre-Test Condi	tions										
Remote CUCShared line IPrivacy on P	hones with shared	o devices with d lines → Off	P:1000; SIP:2000; h DN:7101,1000, with DN: 1000, 20		;						
Test Procedure				Ex	pected Results						
2. 1901 hits "Hol 3. 1901 hits "Res 4. 1901 goes on 5. 7100 dials 190 6. 1901 hits "Hol 7. 1901 hits "Res 8. 7100 goes on 9. 7100 dials 19 10. 1901 hits "Hol 11. 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	01→1901 answerd" softkey after 30 sume" softkey after 30 sume sume" softkey after 30 sume sume sume sume sume sume sume sume	os os or os	ne on 1000) ne on 2000) ine on 7101) ation & Terminatio	• • • • • • • • • • • • • • • • • • •	Call establish betwee 7100 is On-Hold (to 7100 & 1901 resume Call terminate normal Call establish betwee 7100 is On-Hold (to 7100 & 1901 resume Call establish betwee 7100 is On-Hold (to 7100 & 1901 resume Call terminate normal Call establish betwee 2001 is On-Hold (to 2001 & 1901 resume Call terminate normal Call establish betwee 2001 is On-Hold (to 2001 & 1901 resume Call terminate normal Cal	ne or secall ally en 710 ne or secall ally en 710 ne or secall ally en 200 ne or secall all en 200 ne or secall en 200 ne or seca	ilence) 0 & 190 ilence) 0 & 190 ilence) 1 & 190 ilence)	1 with 2 1 with 2 1 with 2	-way au -way au -way au	dio	
		est Results:	Comments second line on DI	17		Р	F	N/A	N/S X	N/T	В



Test Case #	EP-25	Category	Functional Test: Jabl	per for Windows			RF	C_Stand	dard	Υ
Objective	Verify Jabber ca	alls originating	g & terminating to DUT	(s) endpoints (Jabber t	for Wind	dows)	'			
			Pre-Test C	onditions						
Remote CUCJabber for W	→DUT(s):7100 & CM →DUT:8000; Indows (Device→ with Jabber clien	Phone → Add		N:1922; End User:juser	01/1234	456)				
Test Procedure Expected Results										
	T	est Results:	Comments		Р	F	N/A	N/S	N/T	В
					Х		_			

Test Case #	EP-26	Category	Functional Test: IP 0	Communicator			RF	C_Stan	dard	Υ
Objective	Verify IP Comn	nunicator calls		ting to DUT(s) endpoint	S					
			Pre-Test C	onditions						
Remote CUC Launch IP C Launch IP C Luck Us CIPC Crede	CM → DÙT:8000;	a PC: Phone P me: CIPC0000 vers:10.10.20.2 123456	211	•						
	Test Pr	rocedure		Expected Results						
2. 1940 dials 71 3. 8000 dials 44 4. 1940 dials 23 5. Calling and C 6. Retrieve CDF	Illing, Called, Dura	s) =30s) =30s) on-hook alterna		 4 calls establish v 4 calls terminate 4 CDR(s) retrieve Selected fields in 	normally ed	,				
	Т	Test Results: (Comments		Р	F	N/A	N/S	N/T	В
					Х					



Objective

EP-28

Test Case #	EP-27	Category	Functional Tes	t: Vide	o Endpoints			RF	C_Stan	dard	Υ
Objective	Verify video call	s originating &									
			Pre-Te	est Co	nditions						
Remote CUCI	DUT(s): 7100 & M→DUT DN:8000 phone DN: 2003);									
	Test Pro	ocedure			Expected Results						
7100 dials 200 22003 dials 710 8000 dials 444 Calling and Ca Retrieve CDR 1 Check the Callicanse Codes	1 (Duration=30s) -2005 (Duration=3 lled party goes on from CUCM	n-hook alterna	•	1	 3 calls establish w If DUT is video-ca from both devices 3 calls terminate r 3 CDR(s) retrieve Selected fields in 	pable, and the property of the	2-way vi cceptabl	ideo/aud le qualit		aming o	ccurs
	Te	est Results: (Comments	-		Р	F	N/A	N/S	N/T	В
	Video ca	alls are not s	upported by DU	IT					Х		
4										11	Щ

Category Functional Test: Extension Mobility

Verify DUT(s) supports "Extension Mobility" call

Local CUCM→DUT(s):7100 & 7101; SCCP:1000; SIP:2000; Remote CUCM →DUT:8000; SCCP DN:5200; SIP DN:6200; PSTN: 210-222-5400; Extension Mobility Service activated & started Extension Mobility Service provisioned: Device→Device Setting Create Virtual Device Profile: Device→Device Profile→Add New Extension Mobility enabled on 7100: Device→Phone→7100→E Extension Mobility Service subscribed on 7100:Device→Phone Create User/PIN: emuser01/123456; Associate device profile E RPC is used to remotely control IP Phones with DN: 1000, 2000	w→EM_7100 with I enable Extension M → Select "Subscribe M_7100 to user und 0, 5200, 6200, 2102	DN:1934 Mobility check e/Unsubscrit der Extension 222-5400 ;	ked be S	Services	s" → EM	· 	d;	
1. 7100 hits "Services" button and selects EM service 2. 7100 logs in with "emuser01/123456" 3. 1934 dials 1000→1000 answers →1934 on-hook after 30s 4. 2000 dials 1934→1934 answers→2000 on-hook after 30s 5. 7101 dials 1934→1934 answers→7101 on-hook after 30s 6. 1934 dials 234-5200→5200 answers→1934 on-hook after 30s 7. 6200 dials 444-1934→1934 answers→6200 on-hook after 30s 8. 1934 dials 92102225400→2102225400 answers 9. 2102225400 goes on-hook after 30s 10. 1934 hits "Services" button and selects EM service 11. 1934 logs out 12. Retrieve CDR from CUCM 13. Check Calling, Called, Duration, Origination & Termination Cause Codes	Login succes 6 calls estat All calls term 1934 logs ou 6 CDR(s) ret Selected field	ssful – phono blish with 2-v ninate norma ut and device trieved	way illy e rel	audio booted	to 7100		profile	
Cause Codes								
Test Results: Comments		P	<u> </u>	F	N/A	N/S	N/T	В

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Test Case #	EP-29	Category	Functional Test:	Hunt (Group			RF	C_Stan	dard	Ν
Objective		oup" calls usi	ng DUT(s), SCCP	, SIP a	and PSTN endpoints						
Pre-Test Condi	tions										
 Remote CUC PSTN: 210-2 Hunt Group I Route call to RPC is used Test Procedure 1. 7100 dials 300 2. 7101 dials 200 3. 7100 dials 300 4. 2000 goes on 5. 7101 dials 100 6. 7100 dials 300 7. 2122225400 commode 8. 2000 goes on 9. 1000 goes on 10. Retrieve CDI 	Pilot 3000 (1st mem Destination=234-8 to remotely control 200→7101 answers: 00→2000 answers: 00→1000 answers: 00→1000 answers: 00→2000 answers: 01→2000 answer	CCP DN:5200 aber-7101; 2 nd 2000; I IP Phones w →7100 on-ho →7100 on-ho 2000 answer	member-1000; 3' member-1000; 3' with DN: 1000, 200 wok after 60s wok after 60s wok after 60s	Ex	Call route to hunt growth call establish betwee Call terminate norm 7101 & 2000 membroall route to hunt growth call terminate norm 7101 & 1000 membroall route to hunt growth call establish betwee Call terminate norm Call route to hunt growth call terminate norm Call route to hunt growth call establish betwee Call establish betwee Call terminate norm Call route to hunt growth call terminate norm Call establish betwee Call terminate norm	roup me een 7100 ally ers are een 7100 ers are roup me een 7100 ally roup me een 2102	mber 71) & 7101 busy mber 10) & 1000 busy mber 20 0 & 2000 mber 20	01 with 2- 00 with 2- 00 with 2-	-way au -way au -way au	dio dio	
				•	6 CDR(s) retrieved Selected fields in C	DR(s) m	atch cal	ls			
	Te	est Results: (Comments	<u> </u> :	` '	DR(s) m	atch cal	ls N/A	N/S	N/T	Е



Test Case #	EP-30	Category	Functional Test: H	unt (Group			RF	C_Stan	dard	N
Objective	Verify "Hunt Gro	oup" calls on I	DUT(s) when no me	mbe	rs are available						
Remote CUC PSTN: 210-2: Hunt Group F Call Routing Call Routing Call Routing Call Routing Call Routing Call Routing	DUT(s):7100 & 7 M → DUT:8000; S 22-5400; Pilot 3010 (1st mem → Route/Hunt → Hu → Route/Hunt → Hu → Route/Hunt → Hu → Route/Hunt → Hu	CCP DN:520 aber-7101), Q nt Pilot→301 nt Pilot→301 nt Pilot→301 nt Pilot→301	0; SIP DN:6200; ueuing flag enabled. 0→Route call to this 2→Route call to this 3→Route call to this	des des des des	stination→2000; stination→921022254	·					
2. 7100 dials 301 3. 7100 dials 301 4. 7100 dials 301 5. 7100 dials 301 6. 2102225400 gr 7. 7101 goes on- 8. Retrieve CDR	from CUCM ing, Called, Durati	→ 8000 on-h → 1000 on-h → 7100 on-h nswers 60s on, Originatic	ook after 60s ook after 60s on & Termination	• • • • • • • • • • • • • • • • • • •	HG member-7101 is Hunt Group has no gr Call route to hunt gr Call establish betwee Call terminate norm Call route to hunt gr Call establish betwee Call terminated norm Call routed to hunt gr Call establish betwee Call terminated norm Call routed to hunt gr Call establish betwee Call terminated norm Call routed to hunt gr Call establish betwee Call terminated norm 4 CDR(s) retrieved Selected fields in Cl	membee oup alteen 7100 ally oup alteen 7100 nally en 7100 nally en 7100 nally en 7100 nally	ernate de	estinatic) with 2- estinatic) with 2- destinat) with 2- destinat 2225400	on 1000 way audion 2000 way audion 2000 way audion 2102 with 2-	dio) dio 2225400	
	Te	est Results:	Comments			Р	F	N/A	N/S	N/T	В
						Х					

Objective	Verify "Hunt Group" calls on DUT(s) when maxir	num queue length exceede	ed					
Pre-Test Condi	ions							
Remote CU0PSTN: 210-2Hunt Group # of callers in	Pilot 3015 (1st member-2000), Queuing flag enable		ecs, Rou	ute call t	o Destii	nation d	isabled;	Max.
Test Procedure		Expected Results						
 7101 dials 30 8000 dials 44 7100 goes on Retrieve CDR 	l-3015 hook after 200 secs	 Call route to hunt gr Call establish between 7101 & 8000 waiting Maximum number of Maximum wait times Both calls (8000 & 7 3 CDR(s) retrieved Selected fields in Classics 	en 7100 g in que f callers exceed (101) we	0 & 2000 ue in queu led 60s ere not t) with 2- ue excee erminat	eded		o
	Test Results: Comments		Р	F	N/A	N/S	N/T	В
			Х					
					Į.	Į.		

Category Functional Test: Hunt Group

Test Case #

EP-31

RFC_Standard



Test Case #	EP-32	Category	Functional Test:	Secure Endpoint			RF	C_Stan	dard	N
Objective Pre-Test Cond		cated" call bet	ween DUT(s), SC	CP, SIP and PSTN end	points					
 Remote Cl PSTN: 210 Enterprise Assign aut 	SCCP. UCM → DUT:8000 (02225400; Parameter: Cluster henticated Phone S 7100 & 7101:Device 1001: Device Secur 2001: Device Secur	:1000; SIP:200 :1001; SIP:200 (Non-Secure); Security Mode Security Profile: >> Phone > Dr ity Profile=>>7 ity Profile=>89	0 (Non-Secure); 1 (Authenticated → 1 (Mixed Mode s to devices: → Device Securi 975_SCCP_Auth 45_SIP_Authentic) y Profile→ 3rd_Party_9 enticated		iced_Se	cure_Au	uthentica	ated	
Test Procedure	9			Expected Results						
2. 7100 dials 23 3. 7100 dials 10 4. 2001 dials 71 5. 1000 dials 71 6. 7101 dials 20 7. 7100 dials 21 8. 7100 goes or 9. Retrieve CDF 10. Check the C		wers→8000 or →1001 on-hoc →7101 on-hoc →7100 on-hoc →2000 on-hoc 25400 answers	n-hook after 30s ok after 30s ok after 30s ok after 30s ok after 30s	Authenticated ca Call terminate no Non-Secure call Call terminate no Authenticated ca Call terminate no Authenticated ca Call terminate no Non-Secure call Call terminate no Toda (s) retrieve Selected fields in	ormally between 7 ormally II between ormally II between ormally between 7 ormally between 2 ormally between 2 ormally commally between 2 ormally between 2 ormally between 2 ormally between 2	100 & 80 7100 & 2001 & 100 & 10 000 & 7 1022254 match ca R = 1	000 with 1001 wi 7101 with 101 with 100 & 7	n 2-way ith 2-wai ith 2-way n 2-way n 2-way	audio y audio y audio y audio audio audio	
		est Results: C			P	F	N/A	N/S	N/T	В
Authenticated	profile setting is n	ot supported	by the DUT.					Х		



Test Case #	EP-33	Category	Functional Test: .	Join A	cross Line			RF	C_Stan	dard	N
Objective	Verify "Join Ac	ross Lines" ca	ls between DUT(s), SC(CP, SIP and PSTN e	ndpoints	S				
Pre-Test Condi	ions										
Remote CUCPSTN: 21022Enable JAL fShared Line	or all phones :Dev 1901 assigned to to remotely contro	vice → Phone →	·DN → Join across	none 3 0, 210	DN→2 nd line→DN= 2225400;	1901					
rest Frocedure				EX	pected Results						
2. 8000 dials 444 3. 7101 selects li 4. 8000 goes on- 5. 7100 dials 190 6. 7101 dials 10 7.1000 selects li 8. 7101 goes on- 9. 7100 dials 190 10. 8000 dials 44 11. 2000 selects 12. 7100 goes on 13. 2102225400 14. 1901 answer 15. 8000 dials 44 16. 7101 selects 17. 2102225400 18. Retrieve CDI	21→1901 answers 200→1000 answers 21001 and hits s 21001 and hits s 2101→1901 answers 21000→2000 ar 2101 and hits	swers softkey "Join" s (Shared Line rs softkey "Join" s (Shared Line nswers s softkey "Join" 01 7101) nswers s softkey "Join" er 120s	on 1000) on 2000)		Call establish betwee 1901 is On-Hold (MC) Call establish betwee 7100 & 8000 joined Call terminate norm Call establish betwee 1901 is On-Hold (MC) Call establish betwee 7100 & 7101 joined Call terminate norm Call establish betwee 1901 is placed on-hCall establish betwee 7100 & 8000 join in Call terminate norm Call establish betwee 1901 is placed on-hCall establish betwee 1901 is placed on-hCall establish betwee 2102225400 & 8000 Call terminate norm CDR(s)s retrieved Selected fields in Cl	OH) een 710 in a cal ally een 710 OH) een 710 in a cal ally een 710 old (MC een 710 a a call. 2 ally een 210 old (MC een 800 old old in in ally	1 & 8000 I, 7101 d 0 & 190 1 & 1000 I, 1000 d 0 & 190 0 H) 1 & 2000 2000 dro 2225400 DH) 0 & 710 a call. 7	O with 2- drops from 1 with 2- O wit	-way auway auway auway auway auway au- call 1 with 2-	dio dio dio dio way au	dio
	Т	est Results: 0	omments	<u> </u>		Р	F	N/A	N/S	N/T	В



Test Case #	EP-34	EP-34 Category Functional Test: Hotline RFC_Standard N								N	
Objective	Verify "Hotline"	calls between	DUT(s), SCCP, S	P and PSTN end	points						
Pre-Test Condit	tions									ļ	
 Remote CUC PSTN: 21022 Hotline Confi 	guration to dial ou Routing Class Routing Class Routing Trans Translation Partition CSS CSS Called Par 1000, 2000 a CS a CSS for PSTN	t 234-8000: c of Control → F c of Control → C lation Pattern→ bla pt_hotline_234 _hotline_2348 ty Transform M S for Interclust Hotline: Device	Partition→Add New Calling Search Spa Add New: nk .8000 000 lask→2348000 er Hotline: Device- → Phone → DN	ce→Add New→c Phone→DN→C CSS→ css_hot	ss_hotline_234 SS→css_hotlir	ne_23480	_				
Procedure	to remotely contro	 RPC is used to remotely control IP Phones with DN: 1000,2000, 2102225400; Procedure Expected Results 									
				Expected Resi	นเเอ					<u> </u>	
2. 7100 goes on- 3. 1000 goes off- 4. 1000 goes off- 4. 1000 goes off- 6. 8000 goes off- 6. 8000 goes off- 8. 7101 goes off- 8. 7101 goes on- 9. Retrieve CDR 10. Check the Ca Cause Codes Note: Upon completion 2000→None	hook→8000 rings hook after 30s hook→8000 rings hook→21022254 hook after 30 from CUCM alling, Called, Duras n of the test, chang	& answers & answers On rings & answation, Origination Ge CSS for 710	on & Termination	8000 ringing Call establis Call termina 8000 ringing Call establis Call termina 8000 ringing Call termina 8000 ringing Call establis Call termina 2102225400 Call establis Call termina 4 CDR()s re	g sh between 710 ate normally g sh between 100 ate normally g sh between 200 ate normally 0 ringing sh between 710 ated normally	00 & 8000 00 & 8000 01 & 2102) with 2-) with 2-	way aud	dio dio	dio	
2. 7100 goes on- 3. 1000 goes off- 4. 1000 goes off- 4. 1000 goes off- 6. 8000 goes off- 6. 8000 goes off- 8. 7101 goes off- 8. 7101 goes on- 9. Retrieve CDR 10. Check the Ca Cause Codes Note: Upon completion 2000→None	hook after 30s hook→8000 rings hook→8000 rings hook→8000 rings hook→210222540 hook→210222540 hook after 30 from CUCM alling, Called, Dura s n of the test, chang ration: →DN→CSS→Nor	& answers & answers On rings & answation, Origination Ge CSS for 710	on & Termination 0, 7101, 1000 &	8000 ringing Call establis Call termina 8000 ringing Call establis Call termina 8000 ringing Call termina 8000 ringing Call establis Call termina 2102225400 Call establis Call termina 4 CDR()s re	g sh between 710 ate normally g sh between 100 ate normally g sh between 200 ate normally 0 ringing sh between 710 ated normally etrieved	00 & 8000 00 & 8000 01 & 2102) with 2-) with 2-	way aud	dio dio	dio	



Pre-Test Conditions

Objective

EP-35

 Local CUCM→DUT(s):7100 & 7101; SCCP:1000; SIP:2000; Remote CUCM →DUT:8000; PSTN: 2102225400; Group Pickup configured on all phones; Group: Sales (DN: 7100 → Call Routing→Call Pickup Group→Add New→Sales (DN: > Call Routing→Call Pickup Group→Add New→TAC (DN:3 → Device→Phone→DN→update Call Pickup Group to Sales → Device→Phone→DN→update Call Pickup Group to TAC RPC is used to remotely control IP Phones with DN: 1000,2000, 	3005;Visual Alert; Calling 006;Visual Alert; Calling s for 7100 & 1000; for 7101 & 2000; 2102225400;	& Calle	d party	checked			
Test Procedure	Expected Results						
1. 8000 dials 444-7100 2. 1000 goes off-hook, hits "Group Pickup" softkey 3. 1000 enters Sales Group_Pickup DN:3005 4. 1000 goes on-hook after 60s 5. 8000 dials 444-2000 6. 7101 goes off-hook, hits "Group Pickup" softkey 7. 7101 enters TAC Group_Pickup DN:3006 8. 8000 goes on-hook after 60s 9. 2102225400 dials 4104441000 10. 7100 goes off-hook, hits "Group Pickup" softkey 11. 7100 enters Sales Group_Pickup DN:3005 12. 2102225400 goes on-hook after 60s 13. Retrieve CDR from CUCM 14. Check the Calling, Called, Duration, Origination & Termination Cause Codes 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	Total establish between Call terminate norm Call terminate norm Call establish between Call establish between Call terminate norm Total establish between Call terminate norm Selected fields in Call terminate norm	een 8000 nally te een 8000 nally te een 2102	0 & 710 [,] 2225400	1 with 2-	-way au	dio	dio
Test Results: Comments		Р	F	N/A	N/S	N/T	В
		Х					
					Į.		

Category Functional Test: Group Pickup

Verify "Group Pickup" calls between DUT(s), SCCP, SIP and PSTN endpoints

RFC_Standard



Test Case #	EP-36	Category	Functional Test: D	o Not Disturb (DND)			RF	C_Stan	dard	Υ
Objective	Verify "Do No	ify "Do Not Disturb Ringer Off " feature is supported for DUT(s) endpoints								
 Remote CUC PSTN: 21022 Enable DND Servic Device Device 	→DUT(s):7100 CM →DUT:8000 225400; on DN:7101 ee Parameters→ e→Device Settir e→Phone→DN: Do Not Distr DND Option DND Incom	PBLF Status Depings > Softkey Te 17101: urb→checked 1: Ringer Off ing Call Alert: Fla	cts DND → True mplate, add Do No	t Disturb to a softkey ten 2102225400;	nplate (A	lerting a	nd Conr	nected s	tate)	
1. 7100 dials 710 2. 8000 dials 444 3. 1000 dials 710 4. 2000 dials 710 5. 2102225400 d 6. Retrieve CDR 7. Check the Cal Cause Codes	01→7100 goes 6 4-7101→8000 g 01→1000 goes 6 01→2000 goes 6 dials 941044471 from CUCM	oes on-hook after 5 s on-hook after 5 s on-hook after 5 s 01→210222540	er 5 secs ecs ecs O goes on-hook	T101 flashes to inc. Called party hears T101 is given an c. Call terminated by 5 CDR(s) retrieved. Selected fields in c.	a ring ba ption to a Called p	ack tone answer o arty	call			
		Test Results: 0			Р	F	N/A	N/S	N/T	В
DUT cannot be functionality wa			om CUCM, howeve silent mode.	er the same	Х					



EP-37

Objective Verify "Do Not Disturb Call Reject " feature is sup	ported on DUT(s) endpo	ints							
Pre-Test Conditions									
Local CUCM→DUT(s):7100 & 7101; SCCP:1000; SIP:2000; Remote CUCM →DUT:8000; PSTN: 2102225400; Enable DND on:7100 ➤ Device→Phone→DN:7100→update BLF Status Depicts I ➤ Device→Device Settings > Softkey Template, add Do Not Device→Phone→DN:7101: □ Do Not Disturb→checked □ DND Option: Call Reject □ DND Incoming Call Alert: Beep Only RPC is used to remotely control IP Phones with DN: 1000, 1001.	Disturb to a softkey tem	plate *Al	erting a	nd Conn	nected s	tate			
Test Procedure Expected Results									
1. 1001 dials 7100→7100 answers 2. 7101 dials 7100→7100 hits "DND" softkey in connected state 3. 7101 goes on-hook 4. 8000 dials 444-7100→7100 hits "DND" in connected state 5. 8000 goes on-hook 6. 1000 dials 7100→7100 hits "DND" softkey in connected state 7. 1000 goes on-hook 8. 2000 dials 7100→7100 hits "DND" softkey in connected state 9. 2000 goes on-hook 10. 2102225400 dials 7100→7100 hits "DND" in connected state 11. 1001 goes on-hook after 200s 12. Retrieve CDR from CUCM 13. Check the Calling, Called, Duration, Origination & Termination Cause Codes	Call establish betw 7100 hears ringbac CUCM rejects call 7100 hears a beep 5 calls terminate wi 1st call terminate no 6 CDR(s) retrieved Selected fields in Co	k for all with Rea for all th th User_ ormally	incomin son:Use e reject Busy	g calls in er Busy ed calls	n conne		te		
Test Results: Comments		Р	F	N/A	N/S	N/T	В		
DUT cannot be assigned with DND softkey from CUCM, however functionality was tested by using device in silent mode and dec		Х			Ī				

Category Functional Test: Do Not Disturb (DND)

RFC_Standard



EP-38

Objective Verify "IDivert " call between DUT(s), SCCP, SIP	and DCTN andpoints			, I					
Pre-Test Conditions									
 Local CUCM→DUT(s):7100 & 7101; SCCP:1000; SIP:2000; Remote CUCM → DUT:8000; PSTN: 2102225400; VM enabled on all phones; VM Pilot # 7000; Device→Phone→D Enable iDivert on DN:7101 Service Parameter→Legacy Immediate Divert→True Device→Device Settings→Softkey Template→SIP_EP_U Device→Phone→DN:7101→Softkey Template→SIP_EP_U RPC is used to remotely control IP Phones with DN: 1000,2000, 	Jser (Add iDivert to templa User		onnecte	d, On H	old & Ri	ng state	es)		
Test Procedure Expected Results									
Test Procedure Expected Results 1. 7100 dials 7101→7101 hits "iDivert" softkey during ringing state 27100 leaves a voicemail and goes on-hook 3. 8000 dials 444-7101→7101 hits "iDivert" softkey in ringing state 4. 8000 goes on-hook without leaving a message 5. 1000 dials 7101→7101 hits "iDivert" softkey during ringing state 6. 1000 leaves a voicemail and goes on-hook 7. 2000 dials 7101→7101 hits "iDivert" softkey during ringing state 8. 2000 leaves a voicemail and goes on-hook 9. 2102225400 dials 94104447101 10. 7101 hits "iDivert" softkey during ringing state 11. 2102225400 leaves a voicemail and goes on-hook 12. Retrieve CDR from CUCM 13. Check the Calling, Called, Duration, Origination & Termination Cause Codes Expected Results 7100 directed to 7101's voicemail box 8000 directed to 7101's voicemail box 9. 2000 directed to 7101's voicemail box 9. 2102225400 directed to 7101's voicemail directed to 7101's voicemail directed to 7101's voicemail									
Test Results: Comments		Р	F	N/A	N/S	N/T	В		
Cannot program iDivert softkey on the DUT									

Category Functional Test: iDivert

RFC_Standard N



EP-39

Pre-Test Conditions Local CUCM→DUT(s):7100 & 7101; SCCP:1000; SIP:2000; Remote CUCM →DUT:8000; PSTN: 2102225400; WM enabled on all phones; CFA enabled on 7101→7100; VM Enable iDivert on DN:7100 Legacy Immediate Divert Service Parameter Set to True Device→Device Settings→Softkey Template→SP_EP_		te - Con	nected,	On Hol	d & Rin	g states)
Device→Phone→DN:7100→Softkey Template→SIP_E • RPC is used to remotely control IP Phones with DN: 1000,2000 Test Procedure 1. 8000 dials 4447101→7100 hits "iDivert" softkey in ringing state 2. 8000 leaves voicemail and goes on-hook 3. 1000 dials 7101→7100 answers 4. 7100 hits "iDivert" softkey during connected state (after 10s)	P_User	7100 (r 00's void	inging s cemail b	tate) ox			,
5.1000 leaves a voicemail and goes on-hook 6. 2000 dials 7101→7100 answers 7. 7100 hits "iDivert" softkey during connected state (after 20s) 8. 2000 leaves a voicemail and goes on-hook 9. 2102225400 dials 94104447101→7100 answers 10. 2102225400 goes on-hook without leaving voicemail 11. Retrieve CDR from CUCM 12. Check the Calling, Called, Duration, Origination & Termination Cause Codes	1000 directed to 710 Call terminate norm Call establish betwee 2000 directed to 710 Call terminate norm Call establish betwee 2102225400 directed Call terminate norm MWI "On" when a vi	200's void ally en 2000's void ally en 2102 d to 710 ally bicemail trieve al 3rd mes	cemail b 0 & 7100 cemail b 2225400 00's voice is left o I 3 voice sage wa	ox after O with 2- ox after O & 7100 cemail b on 7100' cemails as retrie	-way au 20s) with 2- ox after s mailbo	dio -way au 20s	dio
Test Results: Comments Cannot program iDivert softkey on the D	IIT	Р	F	N/A	N/S X	N/T	В

Category Functional Test: CFA & iDivert

RFC_Standard



Test Case #	EP-40	Category	Functional Test:	Malic	ious Call			RF	C_Stand	dard	N
Objective	Verify DUT(s) is	s able to mark	a call malicious								!
Pre-Test Cond	itions										
Remote CUPSTN: 2102Update soft	key template on ded to remotely contr	evice → SIP_E	P_User (Includes	00;	softkey) spected Results						
2. 7101 goes or 3. 8000 dials 44 4. 8000 goes or 5. 1000 dials 71 6. 7100 goes or 7. 2000 dials 71 8. 2000 goes or 9. 2102225400 10. 7101 hits "N 11. 7101 goes of 12. Retrieve CD	A-7100→7100 an: n-hook after 30s 00→7100 answer n-hook after 30s 00→7100 answer n-hook after 30s dials 9410444710 ICID" softkey on-hook after 30s or from CUCM Calling, Called, Dur	swers → 7100 rs==7100 hits rs → 7100 hits 1 → 7101 answ	hits "MCID" "MCID" softkey "MCID" softkey vers	•	3 calls establish with 2 calls establish with Called parties marke Call terminate norm 5 CDR(s) retrieved Selected fields in CI	n 2-way e as ma ally	audio o licious				
	Т	est Results:	Comments			Р	F	N/A	N/S	N/T	В
	The MCID soft	key cannot b	e programmed o	n DU	Т.				Х		
											Щ



Pre-Test Conditions

Objective

EP-41

 Local CUCM→DUT(s):7100 & 7101; SCCP:1000; SIP:2000; Remote CUCM →DUT:8000; PSTN: 2102225400; Configure CUCM Service Parameter: Device Mobility Mode→On Mobile Voice Access service running on CUCM-PUB Mobile Voice Access enabled on Voice Gateway Local Cluster Single Number Reach (SNR) configured for 7101→Ren Add Remote Destination Profile:Device→Device Settings→Re Userid:dutuser02 Line:7101 Add New Remote Destination: Name→Mobility_1 Destination Number→ 2348000 Check "Enable Unified Mobility", "Enable Sing User Management→End User→dutuser02→Check "Enable Notes Phone→7101→Owner userid→dutuser02 Remote Device: Device→Phone→8000→Line→No Answer Remote Device: Device→Phone→8000→Line→No Answer Remote Device: Device→Phone→8000→Line→No Answer Remote Procedure 	emote Destination le Number Reach' bbility" softkey (Or lobility" &"Enable I	Profile• ' & "Ena n-Hook Mobile '	able Mo & Conne	ve to Mo		_rdp	
1. 7100 dials 7101→7101 answers→7101 hits "Mobility" softkey after 30s 2. Select the option to send call to mobile device 3. 8000 answers 4. 7101 goes on-hook after 30s 5. 8000 sends DTMF *74 after 30s for call handoff 6. 7101 answers 7. 8000 goes on-hook 8. 7101 goes on-hook after 30s 9. Repeat steps 1-7, replace 7100 with SCCP:1000 10. Repeat steps 1-7, replace 7100 with SIP:2000 11. Repeat steps 1-7, replace 7100 with PSTN:2102225400 12. Retrieve CDR from CUCM 13. Check the Calling, Called, Duration, Origination & Termination	Both 7101(lo Call establish Call is transfe Call establish 8000 handoff Call restored Final Call ten Results for Sabove 6 CDR(s) ret Selected field	cal) & 8 n betwee erred to n betwee f call ba betwee minate cCCP, S	een 7100 o mobile een 7100 ack to 71 en 7100 normally	0 & 7101 device (0 & 8000 01 & 7101 y STN call	l with 2- 8000) with 2- s are sii	way aud	dio
Cause Codes Test Results: Comments Mobility soft key cannot be programmed on DUT.		Р	F	N/A	N/S X	N/T	В
wobility soft key callifor be programmed on DOT.					^		

Category Functional Test: Mobile Connect

Verify DUT(s) supports Mobile Connect call to a remote DUT endpoint

RFC_Standard



Pre-Test Conditions

Objective

EP-42

• Local CUCM→DUT(s):7100 & 7101; SCCP:1000; SIP:2000;

 Remote CUCM → DUT:8000; PSTN: 2102225401; Configure CUCM Service Parameter: Device Mobility Mode→On Mobile Voice Access service running on CUCM-PUB Mobile Voice Access enabled on Voice Gateway Local Cluster Single Number Reach (SNR) configured for 7100→ Add Remote Destination Profile:Device→Device Settings Userid:dutuser01 Line:7100 Add New Remote Destination: Name→Mobility_2 Destination Number→ 92102225401 Check "Enable Unified Mobility", "Enable 	→ Remote Destination Single Number Reach	n Profile n" & "En	·→Add N	ove to M		rdp	
Device Settings→Softkey Template→SIP_EP_User→Ad User Management→End User→dutuser01→Check "Ena Device→Phone→7100→Owner userid→dutuser01 Remote Device: Device→Phone→2102225401→Line→I RPC is used to remotely control IP Phones with DN: 1000,2000, 210 Test Procedure	ble Mobility" &"Enable No Answer Ring Durat	Mobile	Voice A				
 7101 dials 7100→7100 answers 7100 hits "Mobility" softkey after 30s and selects to send call to mobile 2102225401 answers 7100 goes on-hook 2102225401 sends DTMF *74 after 30s (call handoff) 7100 answers 72102225401 goes on-hook 7101 goes on-hook after 30s Repeat steps 1-8 and replace the Calling DN:1000 Repeat steps 1-8 and replace Calling DN:2000 Retrieve CDR from CUCM Check the Calling, Called, Duration, Origination & Termination Cause Codes and Comments 	Both 7101 & 710 Call establish be Call transfer to n Call establish be 2102225401 har Call restored be Final Call termin Results for SCC 6 CDR(s) retriev Selected fields in	etween in nobile detween in adoff can tween in attention	7100 & 7 device 21 7100 & 2 ill back to 7100 & 7 ormally SIP call a	1022254 2102225 o 7100 101 are simil	.01 (PS ⁻ i401 wit	TN) h 2-way	audio
Test Results: Comments Mobility soft key cannot be programmed on DU	Г.	Р	F	N/A	N/S X	N/T	В

Category Functional Test: Mobile Connect

Verify DUT(s) supports Mobile Connect call to a remote PSTN endpoint

RFC_Standard



Pre-Test Conditions

Objective

EP-43

 Local CUCM→DUT(s):7100 & 7101; SCCP:1000; SIP:2000; Remote CUCM →DUT:8000; SIP:6201; Configure CUCM Service Parameter: Device Mobility Mode→On Mobile Voice Access service running on CUCM-PUB Mobile Voice Access enabled on Voice Gateway Remote Cluster Single Number Reach (SNR) configured for 620 Add Remote Destination Profile:Device→Device Settings Userid:rcuser21 Line:6201 Add New Remote Destination: Hame→Mobility_1 Destination Number→ 4447101 Check "Enable Unified Mobility", "Enable User Management→End User→rcuser21→Check "Enable Device→Phone→6201→Owner userid→rcuser21 Remote Device: Device→Phone→7101→Line→No Ansee RPC is used to remotely control IP Phones with DN: 1000,2000, 62 	→ Remote Destination Single Number Reach'd "Mobility" softkey (Or e Mobility" &"Enable Number Reach'de Mobility Nu	Profile ' & "En	able Mo & Conn	ve to Mo		rdp	
 7100 dials 2346201→7101 answers 7101 sends DTMF *74" after 30s 6201 answers 7101 goes on-hook 6201 hits "Mobility" softkey after 30s 7101 answers 6201 goes on-hook 7100 goes on-hook after 60s Repeat steps 1-8 and replace the Calling DN:1000 Repeat steps 1-8 and replace the Calling DN:2000 Retrieve CDR from CUCM Check the Calling, Called, Duration, Origination & Termination Cause Codes 	Both 6201 & 710 Call establish bet Call is transferred Call establish bet 2000 handoff call Call restored beto Final Call termina Results for SCCF 6 CDR(s) retrieve Selected fields in	ween 7 I to develoween 7 back to the second of the second	7100 & 7 vice 620 7100 & 6 o 7101 100 & 7 rmally SIP call a	1 3201 with 101 are simila	n 2-way	audio	
Test Results: Comments		Р	F	N/A	N/S	N/T	В
Mobility feature is not supported					X		

Category Functional Test: Mobile Connect

Verify DUT(s) supports Mobile Connect call to a remote SIP endpoint

RFC_Standard



Test Case #	EP-44	Category	Functional Test: Mo	oile Voice Access (MVA	١)		RF	C_Stan	dard	N
Objective	•	nd Mobile Vo	ce Access (MVA) cal	s from DUT(s) endpoin	ts					
Pre-Test Condition	ns									
Remote CUCM CUCM Service Enable Enab	DUT:8000; Parameter: ble Enterprise Folle Mobile Voice le Voice Access hing Caller ID with ber of Digits for community of the community of th	eature Acces e Access Tr s Number 8 with Remote E c Caller ID Pai unning on CL on Voice Gat Media Resou r Reach (SNI ation Profile: E er02 mote Destinati me Mobility stination Num eck "Enable L oftkey Temple End User 9 101 Owner vice Phone	ue 005555 Destination→ Partial M tial Match→7 ICM-PUB eway rces→ Mobile Voice A R) configured for 710 Device→ Device Settin on: _1 ber→ 2348000 Inified Mobility", "Enab ate→SIP_EP_User→ dutuser02→Check "El userid→dutuser02	atch ccess→Add New→800 →Remote Device:234- gs→Remote Destinatio de Single Number Reac dd "Mobility" softkey (Cable Mobility" & "Enable swer Ring Duration→6	8000: n Profile h" & "Er Dn-Hook e Mobile	nable Mo	ove to M		_rdp	
Test Procedure				Expected Results						
 1.8000 (Mobil device) dials MVA #8005555 2. Mobil User enters 3222348000# or 2348000# 3. Mobil User enters PIN:123456# & DN:7100# 4.7100 answers 5. 8000 sends DTMF *74 to handoff session after 30s 6. 7100 goes on-hook after 60s 7. Retrieve CDR from CUCM 8. Check the Calling, Called, Duration, Origination & Termination Cause Codes Mobile user prompted for Caller ID: 3222348000 Mobile user prompted for Caller ID: 3222348000 Call establish between 8000 & 7100 with 2-way audio Call terminate normally 1 CDR retrieved Selected fields in CDR matches call 										
				<u>"</u>	Р	F	N/A	N/S	N/T	В
	MVA fe	ature not su	pported by DUT.					Χ		



Objective

EP-45

 Local CUCM→DUT(s):7100 & 7101; SCCP:1000; SIP:2000; Remote CUCM →DUT:8000; 	
 Userid:dutuser02 Line:7101 Add New Remote Destination: Name→Mobility_1 Destination Number→ 2348000 	Remote Device:234-8000: s→Remote Destination Profile→Add New→mobile1_rdp e Single Number Reach" & "Enable Move to Mobile" dd "Mobility" softkey (On-Hook & Connected) able Mobility" & "Enable Mobile Voice Access"
Test Procedure	Expected Results
1. 8000 (Mobil device) dials EFA #9005555 2. Mobil user prompted to enter remote device DN 2348000# 3. Mobil User enters PIN:123456#, Option 1 & DN:7100# 4. 7100 answers call 5. 8000 sends DTMF *81 to place call on-hold after 30s 6. 8000 sends DTMF *83 to resume call after 30s 7. 8000 goes on-hook after 120s 8. Retrieve CDR from CUCM 9. Check the Calling, Called, Duration, Origination & Termination Cause Codes	Mobile user prompted for Caller ID: 2348000 Mobile user prompted for PIN Selects option 1 and enters Called DN:7100 7100 is ringing Call establish between 8000 & 7100 with 2-way audio 7100 is On-Hold Call resumes Cal terminate normally 1 CDR retrieved Selected fields in CDR matches call
Test Results: Comments EFA feature not supported by DUT.	P F N/A N/S N/T B
EFA leature not supported by DOT.	

Category Functional Test: Enterprise Feature Access (EFA)

Verify Inbound Enterprise Feature Access (EFA) - Hold/Resume call from a DUT endpoint

RFC_Standard



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 Failure RFC_Standard								Y
Objective	Verify a PUB	3 failure should	I not affect stable or	transient calls or	n DUT(s)			·			
Pre-Test Conditio	ns										
Remote CUCM	→ DÙŤ:8000;		1000; SIP:2000; rith DN: 1000,2000;								
Test Procedure				Expected Re	sults						
1. 7100 dials 7101 2. 2000 dials 234-8 3. Access CUCM-F 4. Enter CLI: utils syes 5. 1000 dials 7101 6. Called party goe 7. Repeat steps 1-2 8. Retrieve CDR fro 9. Check Calling, Cause Codes	8000→8000 ans PUB server via S system restart →7101 answers s on-hook for al 2,5-6 after CUC om CUCM	wers SSH (Local Clu CR> s 2 nd incoming Il 3 calls M-PUB recove	call	Call estab Call estab CUCM-PL Stable call Call estab Transient All calls te CUCM-PL All calls s School Sch	lish between JB is restated in the second in	een 200 arted bacted leen 100 impacte normally ervice after P	by PUB 00 & 710 ed by Pl y UB failu	restart 01 with 2 JB resta	2-way a 2-way a art	udio	
	Т	est Results: (comments			Р	F	N/A	N/S	N/T	В
						Х					



Test Case #	EP-47	Category	Negative Test: SUB	Failu	ıre			RF	C_Stand	dard	Υ
Objective	Verify a SUB	failure should	not affect stable calls	s on [DUT(s)			·			
Pre-Test Condition	IS										
 Local CUCM→DUT(s):7100 & 7101;SCCP:1000; SIP:2000; Remote CUCM→DUT:8000; RPC is used to remotely control IP Phones with DN: 1000,2000; Test Procedure											
2. 2000 dials 234-80 3. Access CUCM-SU 4. Enter CLI: utils syes 5. 1000 dials 7101 6. Called party goes 7. Repeat steps 1-2, 8. Retrieve CDR from 9. Check the Calling Cause Codes	000→8000 ansu JB server via S ystem restart on-hook for all after CUCM-S m CUCM	SH (Local Cluck) CR> 3 calls UB recovery	,	•	Call establish bet Call establish bet CUCM-SUB is re: Stable calls not in Transient calls im Call between 100 All stable calls tet CUCM-SUB is in- All calls successf 4 CDR(s) retrieve Selected fields in	ween 20/ started npacted b pacted b 0 & 7101 minate n service ul after S d	by SUB by SUB r unsucce ormally UB failu	restart restart ressful re recov	2-way a		
	Te	est Results: (Comments	1		Р	F	N/A	N/S	N/T	В
	Voice calls pre	eserved over	fail over and fail bad	ck.		Х					

Test Case #	EP-48	EP-48 Category Negative Test: Phone Network Failure RFC_Standard Y											
Objective	Verify DUT(s)	recovers from	n a network failure										
Pre-Test Condition	าร												
Local CUCM→IRemote CUCM•RPC is used to	→ DÙŤ:8000;	·	000; SIP:2000; rith DN: 1000,2000;										
Test Procedure				Ex	pected Results								
1. 7100 dials 7101 2. Unplug network E 3. Restore the netw 4. 2000 dials 7100 5. 7100 goes on-hor 6. Retrieve CDR fro 7. Check Calling, Cause Codes	EPIe from device ork EPIe after 6 7100 answers ok after 60s m CUCM	e DN:7100 0s	Termination	•	Call establish betw Network failure rep Stable call drops Device 7100 re-reg Network Data: DNS restored on device Call establish betw Call terminate norm 2 CDR(s) retrieved Selected fields in C	orted or disters a S, DHCI een 200 nally	n device fter netv P, TFTP	work EP , CUCM	00 le resto 1, VLAN	red , Load II	D are		
	Te	est Results: (Comments			Р	F	N/A	N/S	N/T	В		
						Х							



Test Case #	EP-49	Category	Negative Test: Phor	ne P	ower Failure			RF	C_Stand	dard	Υ
Objective	Verify DUT(s)	recovers fro	m a power failure					,			
Pre-Test Condition	is										
	→ DÙŤ:8000;	•	1000; SIP:2000; with DN: 1000,2000;								
Test Procedure				Ex	cpected Results						
1. 7100 dials 7101 = 2. Remove power ca 3. Restore power ca 4. 2000 dials 7101 = 5. 7101 goes on-hoo 6. Retrieve CDR fro 7. Check Calling, Ca Cause Codes	able from 7101 able after 60s 7101 answers ok after 60s m CUCM alled, Duration,	call Origination &		•	Call establish betwo 7101 lost power Stable call drops Device 7101 re-reg Network Data: DNS restored on device Call establish betwo Call terminate norm 2 CDR(s) retrieved Selected fields in C	isters a S, DHCl een 200 nally	fter pow P, TFTP	ver is res r, CUCM 01 with 2	stored I, VLAN 2-way a	, Load II) are
	Te	est Results:	Comments			Р	F	N/A	N/S	N/T	В
						Х					

Test Case #	EP-50	EP-50 Category Negative Test: Abnormal Call Scenarios RFC_Standard Y												
Objective	Verify calls on D	OUT for negati	ve call scenarios (In	alid DN, Busy DN, Ab	andoned,	RNA)								
			Pre-Test (onditions										
 Remote CUCI Invalid DN:77 Call Waiting d Device Profile Voicemail disa 	isabled for 7100 & : Busy Trigger set abled for 1000 &	<mark>3 7100</mark> t to 1 for DN: 2000;												
	Test Procedure Expected Results													
Test Procedure Expected Results 1. 7100 dials 1000→1000 answers 2. 7101 dials 7100 3. 7101 dials 1000 4. 7101 dials 2000 (RNA) 5. 7101 dials 7777 (Invalid DN) 6. 7101 dials 234-8000 7. 7101 goes on-hook before 8000 answers (Abandoned) 8. 7100 goes on-hook after 120 secs 9. Retrieve CDR from CUCM 10. Check Calling, Called, Duration, Origination & Termination Cause Codes Expected Results • Call establish between 7100 & 1000 with 2-way audio • 7101 hears busy tone for calls to 7100 & 1000 • 7101 hears ring back timeout for call to 2000 • 7100 hears reorder tone when it dialed invalid DN:7777 • 1 Call terminated normally • 5 unsuccessful call attempts • 6 CDR(s) retrieved • Selected fields in CDR match calls														
	Te	est Results: (Comments	•	Р	F	N/A	N/S	N/T	В				
					Х									
						ı	II	L	1	<u> </u>				

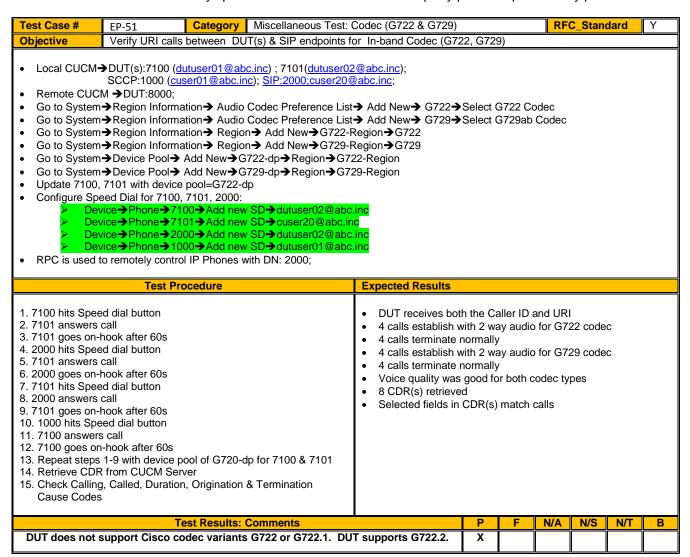


Tests in this section require manual calls.

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-52 Category Miscellaneous Test: DUT display features RFC_Standard Y												
Objective	Verify different	packetization	period support	on DUT	(s) endpoints			•			•		
	Pre-Test Conditions												
Remote CUCIConfigure Ser	DUT(s):7100 & M →DUT:8000; vice Parameter: If o remotely contro	Preferred G.71 of IP Phones w	1 Millisecond Pa	00;									
	Test Pro	ocedure			Expected Results								
1. 7100 dials 710 2. 7100 goes on-l 3. 7100 dials 234 4. 8000 goes on-l 5. 7100 dials 100 6. 7100 goes on-l 7. 2000 dials 710 8. 7100 goes on-l 9. Repeat steps 10. Repeat steps 11. Retrieve CDR 12. Check Calling Cause Codes	nook after 60s -8000→8000 ans nook after 60s 0→1000 answers nook after 60s 0→7100 answers nook after 60s -8 with Packet Si 1-8 with Packet Si from CUCM Ser I, Called, Duratior	swers Size=20 Size=30 ver	& Termination		 Call establish betw Call establish betw Call establish betw Call establish betw All calls with good All calls terminate 6 CDR(s) retrieved Selected fields in 	veen 7′ veen 7′ veen 7′ audio normal	100 & 80 100 & 10 100 & 20 quality ly	000 with 000 with 000 with	2-way a 2-way a	audio audio			
	Te	est Results: (Comments	-		Р	F	N/A	N/S	N/T	В		
DUT does not s		Supportedand 30ms		s= 20, 30	ms. Tested with	Х							

Test Case #	EP-53	Category	Miscellaneous Test: [OUT Screen Features			RF	C_Stan	dard	Υ
Objective	Verify the featur	es displayed	on the screen of DUT				, l			
			Pre-Test Co	nditions						
• Local CUCM=	→ DUT (s):7100 8	% 7101;								
	Test Pro	ocedure		Expected Results						
 Redial or 	alls calls Calls me History (Missed, Dial from Call Hist or call features nes d #	Placed,Recei [,] tory List	,	Able to access all display						
		est Results: (Р	F	N/A	N/S	N/T	В
	Multiple li	supported on DUT.		Х						



Objective

EP-55

Test Case #	EP-54	Category	Miscellaneous Te	st: Long Duration Calls			RF	C_Stan	dard	Υ			
Objective	Verify long dura	tion calls betv	veen DUT(s), SCCI	P, SIP and PSTN endpoir	nts								
	Pre-Test Conditions												
Remote CUCIPSTN DN: 21	,	·	000; SIP:2000; ith DN: 1000, 2000	, 2102225400;									
	Test Procedure Expected Results												
2. 2000 dials 234 3. Repeat step 1 4. Repeat step 2 5. Retrieve CDR	by replacing Calle by replacing the C	swers (Durations) and DN:921022 Calling DN: 10	n: 1 Hr) 25400 00	 Call establish betwee Call establish betwee Call establish betwee Call establish betwee All long duration cales 4 CDR(s) retrieved Selected fields in Classics 	en 2000 en 7100 en 1000 s were s	& 8000 & 21022 & 8000 stable wi	with 2-v 225400 with 2-v th 2-way	vay audi with 2-w vay audi	io <i>ı</i> ay audi	o			
	Te	est Results: (Comments		Р	F	N/A	N/S	N/T	В			
					Х								

Category Miscellaneous Test: Cisco Phone Models

Verify calls and mid-call features between DUT(s) and various Cisco IP Phone Models

Pre-Test C	onditions
 Local CUCM→DUT(s):7100 & 7101; SCCP:1000; SIP:2000; Remote CUCM →DUT:8000;; Cisco Phone Models: 6961,8861, 8945, 7925, 9971, DX650 For phone models not supported by RPC, Auto-Answer is enabled RPC is used to remotely control IP Phones 	l. (DX650)
Test Procedure	Expected Results
1. 7100 dials 1100→ 1100 answers→7100 on-hook after 120s 2. 1100 dials 7100→7100 answers→1100 on-hook after 120s 3. 7101 dials 1100 →1100 answers→7101 hits "Hold" after 20s 4. 7101 hits "Resume" after 20s→1100 on-hook after 120s 5. 1100 dials 234-8000→8000 answers→8000 on-hook after 90s 6. 7100 dials 1100→1100 answers→ 1100 hits "Transfer" after 20s 7. 1100 dials 7101→1100 hits "Transfer→1100 on-hook 8. 7100 goes on-hook after 120s 9. 1100 dials 7100→7100 answers→7100 hits "Transfer" after 20s 10. 7100 dials 234-8000→8000 answers 11. 7100 hits "Transfer" after 30s→7100 on-hook 12. 8000 goes on-hook after 120s 13. 1100 dials 7101→7101 answers 14. 7101 hits "Conference" after 30s→7101 dials 234-8000 15. 8000 answers→7101 hits "Conference" after 30s 16. 7101 goes on-hook after 120s 17. 1100 and 8000 goes on-hook after 200s 18. Repeat steps 1-17 by replacing DN:1100 with DN(s) of other Cisco phone models 19. Retrieve CDR from CUCM 20. Check Calling, Called, Duration, Origination & Termination Cause Codes	 Intra-cluster calls establish between DUT & Cisco IP Phone Inter-cluster calls establish between DUT & Cisco IP Phone Call Hold/Resume between DUT & Cisco IP Phone Blind Transfer between DUT & Cisco IP Phone Consult Transfer between DUT & Cisco IP Phone Conference Call between DUT & Cisco IP Phone CDR(s) retrieved for all the calls Selected fields in CDR(s) match calls Note: Any Cisco IP Phone models not supported in RPC will have Auto Answer Turned On to test basic call functions only.
Test Results: Comments	P F N/A N/S N/T B
Tested with DX650 and 8945 phones. Basic scenarios were prev 9951, 7961, and 7962 phones.	ously covered with X

RFC_Standard



Test Case #	EP-56	Category	ory Functional Test: Multiple Lines RFC_Standard								
Objective	Verify DUT is	able to handle	e calls and mid-ca	all featu	res on multiple line	S					
Pre-Test Condition	S										
Assumption: DU	DUT:8000; S emotely control	SIP:6200; SCC I IP Phones w		ltiple lin							
Test Procedure					Expected Results						
 Provision all the li Device→Phone→ Initiate calls on all Calling & Called p duration Initiate intra-cluste & PSTN endpoint Calling & Called p Duration. Initiate calls and p (Hold/Resume, Tr Retrieve CDR from Check the Calling Cause Codes 	DN→Line (DN) the lines between the lines between the lines between the lines between the lines goes on- er & inter-cluste the lines goes on- erform mid-call the lines goes on- erform mid-call the lines goes on- erform cuc	N Range: 712/ een 7100 & 71 -hook alternati er calls on all li -hook alternati Il features betvence, CFNA, (on vely at random nes to SIP, SCCP vely at random veen these lines CFB)		 All calls establis Caller ID presen Mid-call features All calls release CDR (s) retrieve Selected fields in 	ted for a works normalled	all calls as desig	gned	d audio	quality	
	Te	est Results: 0	Comments	<u> </u>		Р	F	N/A	N/S	N/T	В
	Multiple li	ines on DUT	are not supporte	d					Х		
						<u> </u>					<u> </u>

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 sb-ivt-submit@cisco.com



10 APPENDIX A: TEST RESULT MATRIX

		_					
Test Case #	Р	F	NA	NS	NT	В	Comments
EP-1	Χ						
EP-2	Χ						
EP-3	Χ						
EP-4	Χ						
EP-5	Χ						
EP-6	Χ						
EP-7	Χ						
EP-8	Χ						
EP-9	Χ						
EP-10	Χ						
EP-11	Χ						
EP-12	Χ						
EP-13	Χ						
EP-14	Χ						Dect device displayed Conference after all parties in conference.
EP-15	Х						DUT devices invoke Call Park with feature code, *16+1 or more digits. The CUCM ignores any digits after digits 16 is enter. CUCM parks the call using the configured extension range in the CUCM.
EP-16	Χ						
EP-17	Х						Directed Call Park feature is only configured on Cisco devices per test case.
EP-18				Х			Cannot configure a second line on DUT
EP-19	Χ						
EP-20	Χ						
EP-21	X						Test procedure modified to accommodate DUT Callback implementation. Executed against the DUT devices. 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 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.
EP-22				Х			Cannot configure a second line on DUT
EP-23				Х			Cannot configure a second line on DUT
EP-24				Χ			Cannot configure a second line on DUT
EP-25	Χ						
EP-26	Χ						
EP-27				Χ			Video calls are not supported by DUT
EP-28				Χ			Extension mobility functionality (Softkey) is not possible on DUT.
EP-29	Χ						
EP-30	Χ						
EP-31	Χ						
EP-32				Χ			Authenticated profile setting is not supported by the DUT.
EP-33				Χ			Cannot add a second line on DUT
EP-34				Χ			Hotline is not supported by DUT
EP-35	Χ						
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 putting the DUT in silent mode and declining incoming calls.
EP-38				Χ			Cannot program iDivert softkey on the DUT



Test Case #	Р	F	NA	NS	NT	В	Comments
EP-39				Χ			Cannot program iDivert softkey on the DUT
EP-40				Χ			The MCID key cannot be program on DUT.
EP-41				Χ			The Mobility Softkey cannot be program on DUT.
EP-42				Х			The Mobility Softkey cannot be program on DUT.
EP-43				Х			Mobility feature not supported by DUT.
EP-44				Χ			MVA feature not supported by DUT.
EP-45				X			EFA feature not supported by DUT.
EP-46	Χ						
EP-47	Χ						Voice calls preserved over fail over and fail back.
EP-48	Χ						
EP-49	Х						
EP-50	Χ						
EP-51	Χ						DUT does not support Cisco codec variants G722 or G722.1. DUT
							supports G722.2.
EP-52	X						DUT does not support P-time 10. Supported CUCM P-times= 20, 30ms. Tested with 20 and 30ms p-times.

Test Case #	Р	F	NA	NS	NT	В	Comments
EP-53	Х						Verified most items accessible from DUT display. Multiple lines not supported on DUT.
EP-54	Χ						
EP-55	Χ						Tested with DX650 and 8945 phones. Basic scenarios were previously covered with 9951, 7961, and 7962 phones.
EP-56				Χ			Multiple lines on DUT are not supported.



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