



Microsoft Office Communications Server 2007 Enterprise Edition to Cisco Unified Presence 6.0(1) and Cisco Unified Communication Manager 6.0(1)

December 7, 2007 Revision 16

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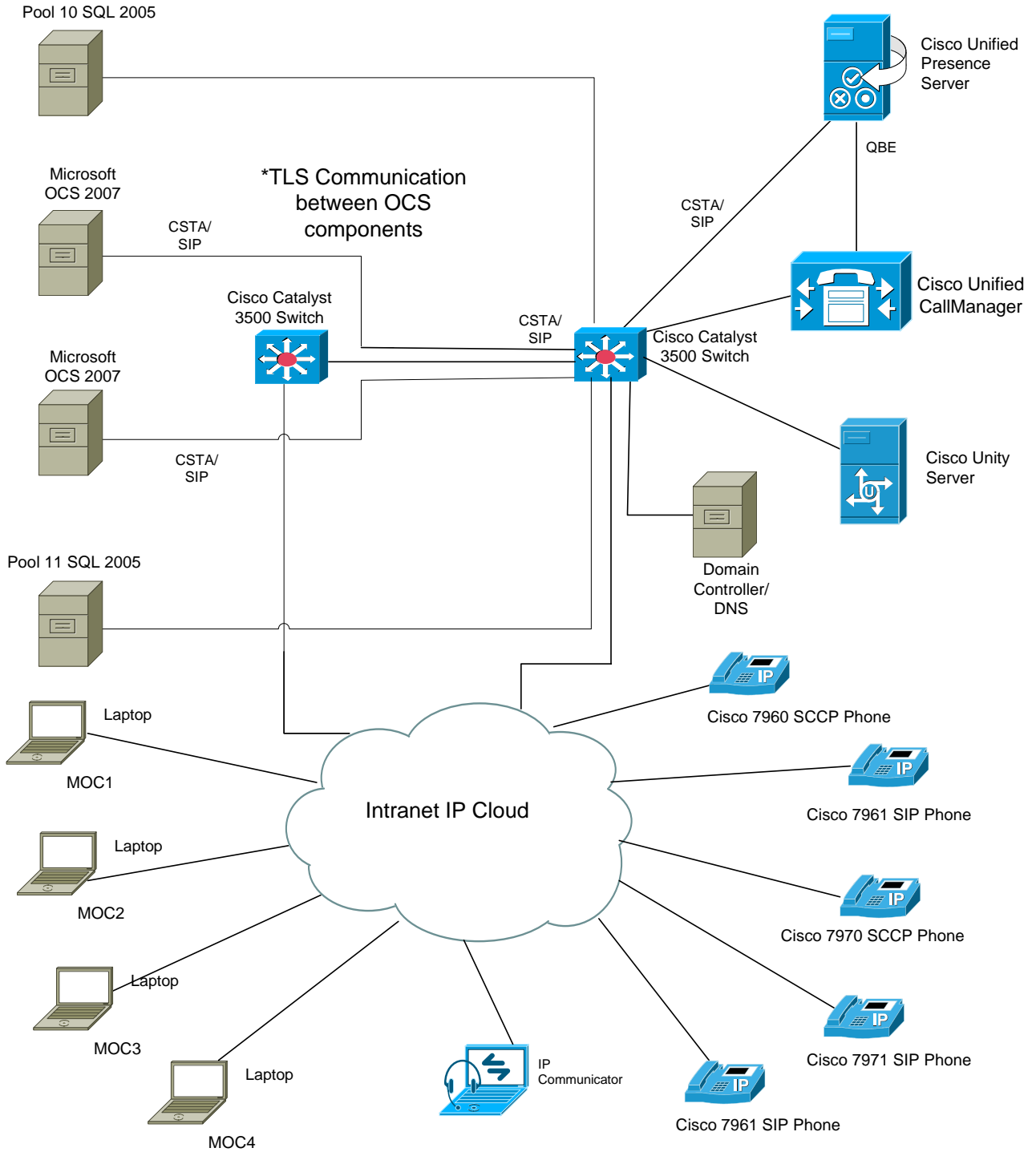
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Introduction

- This document describes feature interoperability and documents the steps and configurations necessary for Cisco Unified Communication Manager (CUCM) 6.0(1) and Cisco Unified Presence (CUP) 6.0(1) to interoperate with Microsoft Office Communication Server (OCS) 2007 Enterprise Edition. These features include Microsoft Office Communicator (MOC) features, Desktop (DTP) or IP Phone features, Cisco Unified Communication Manager (CUCM) administration, configuration and provisioning and CUP device identification. It aims to provide a good understanding of what works and what does not work in terms of the feature interaction between various components of the CUCM, CUP and OCS. It also provides guidance to deployment participants of the limitations, expected behaviors as well as known issues. Please note that this document does not address performance and scalability, which are part of broader criteria for a deployment-ready solution.
- As shown in the Network Topology diagram, interoperability testing was performed between the CUP and the OCS using multiple OCS pools. Please note the absence of a CSS11501 Load Balancer. This hardware component, unlike Microsoft LCS2005 deployments, is not required for OCS2007 Enterprise Edition deployment.

Network Topology

Figure 1. Network Topology/Test Setup





Limitations

- **Multiple Point of Presence (MPOP):** As of the CUP release 6.0(1), the MPOP feature where a MOC user is logged in from more than one location is not supported by CUP. Support for this feature affects other interoperability features between the Cisco CUP and the Microsoft OCS. The affected features include basic placement and teardown of calls and locations-based call forwarding. These features are inherent to MPOP and without support for this feature, the user experiences loss of device and call control when logged in multiple locations.
- **Telephone number configuration in Active Directory User profiles:** Whenever configuring telephone numbers in AD user profiles, entries must be prefixed by a "+" or they will not appear in the MOC's contacts information, and calls will not be processed.
- **Call Forward Setting on DTP or IP Phone:** Call forward setting made on the Cisco IP Phone (Desktop) is not recognized and reflected by the MOC GUI. As of the current release of the Microsoft OCS, this feature is not supported. Thus, the MOC overrides any call forward setting manually configured on the DTP.
- **DTMF Digits:** Using the MOC dial pad to enter digits presented an issue when MOC controls SIP phones and dials into Unity voicemail; DTMF tones are sent to Unity whenever MOC controls SCCP phones. Also, whenever entering digits using the MOC dial pad, there is an issue whenever digits are entered in a relatively fast manner. Some digits may be dropped during communication signaling between CUP and CUCM. As a result, users may experience invalid entry when interacting with devices such as voicemail and IVR systems. These issues will be addressed in future CUCM software releases.
- **Shared Lines:** There are potential unwanted interactions that may occur in shared line scenarios. The CUP procedure for selecting the device to be controlled by MOC is to login the MOC session. Upon sign-in, both devices associated with shared line will ring and the MOC user must answer the phone the user wishes to control. The unwanted feature interaction in this case include conflict in device and call control and indefinite ringing in cases where the user is away from both devices. This issue is also applicable for devices subscribed to extension mobility where selection of device to control procedures is similar to shared lines.
- **Do not Disturb (DND):** DND is an unsupported feature with respect to CUP integration. Thus, any MOC client with DND feature enabled, will still have any received call routed to its controlled DTP.
- **Application Dial Rules:** Whenever adding, modifying, deleting Application Dial Rules on CUCM, CUP SIP Proxy service must be restarted before changes take effect. This is a known issue, and will be addressed in future software releases.
- **Conference:** OCS2007 does not support Call Conference through 3rd party call control. Conferencing is available in Communicator Call scenarios.
- **Transport Layer Security (TLS) connection between CUP and OCS:** this feature was not tested in this release.

System Components

Hardware Requirements

- Cisco Hardware
 - a. Linux Servers
 - i. Cisco Unified Presence (MCS 7825H)
 - ii. Cisco Unified Communication Manager (MCS 7845H)
 - b. Cisco Catalyst 3560



- c. 1 Cisco 7960 IP Phones (SCCP)
- d. 2 Cisco 7961 IP Phones (SIP)
- e. 1 Cisco 7970 IP Phone with CUVA (SCCP)
- f. 1 Cisco 7971 IP Phone with CUVA (SIP)
- g. 2 Cisco Unified Video Advantage Cameras

- Microsoft Hardware
 - a. OCS 2007 Enterprise Edition with SP1 - MCS 7825H - Windows Server 2003 Enterprise, R2 (32 Bit)
 - b. Windows Active Directory Node also serves as DNS for OCS - MCS 7825H - Windows Server 2003 Enterprise R2, w/SP 1
 - a. Windows SQL - MCS 7825H - SQL Server 2000 Enterprise Edition w/Win. 2003 Server SP1

- Notebook laptops for additional MOC Clients running on Windows XP Professional with SP1

Software Requirements

- Cisco Unified Communication Manager 6.0(1)
- Cisco Unified Presence 6.0(1)
- Cisco IOS Release or Cisco CatOS Release (for the gateway)
- Microsoft Office Communication Server 2007 Enterprise Edition

Features

Features Supported

- MOC Features
 - Basic Call Placement / Clearing
 - Reverse Number Lookup
 - Basic Call Forwarding
 - New Number
 - Phone Settings
 - Hold / Retrieval of Call
 - Call Transfer
 - Unannounced or Blind
 - Announced or Consultation
- Desktop phone (DTP) Features



- Basic Call Placement / Clearing
- Hold / Retrieval of Call
- Call Forwarding
- Call Conference
- Call Transfers
 - Unannounced or Blind
 - Announced or Consultation

- Cisco Unified Communication Manager (CUCM) Administration, Configuration and Provisioning
 - Adding Dial Rules – See Limitations section
 - Deleting Dial Rules – See Limitations section
 - Changing Dial Rules – See Limitations section
 - Prefix Dial Rules – See Limitations section
- Cisco Unified Presence (CUP) Device Identification
 - Shared Lines
 - 2 Phone Devices
 - 1 Phone Device and 1 Cisco IP Communicator
- CUP Features
 - Extension Mobility

Features Not Supported

- Call Conference: Invoking of Call Conference from MOC is not an available feature with OCS 2007. Conference calls can still be initiated from Desktop Phones.

Configuration

For more Cisco deployment and installation guides, go to:

http://www.cisco.com/en/US/products/sw/voicesw/ps556/products_implementation_design_guide_chapter09186a008070bc02.html

http://www.cisco.com/en/US/partner/products/ps6837/tsd_products_support_integrated_systems_documentation_list.html

For more Microsoft deployment and installation guides, go to:

<http://technet.microsoft.com/en-us/library/bb676082.aspx>

<http://search.technet.microsoft.com/search/Default.aspx?brand=technet&query=OCS&refinement=66&lang=en-us>



Configuration Sequence and Tasks

A. Cisco Unified Communication Manager (CUCM) Configuration

1. Cisco Unified Communication Manager Version
2. Configure the SIP Trunk
3. Configure the Cisco IP Phones
4. Configure the End Users
5. Configure the Licensing Capabilities Assignments
6. Configure the Phone Services
7. Configure the Phone URL Services
8. Configure the Application User
9. Configure the Application Dial Rules
10. Configure the Conference Bridge
11. Configure the Meet-Me Number
12. Configure the Device Profiles for Extension Mobility users

B. Cisco Unified Presence (CUP) Configuration

1. CUP Version
2. Configure the CUP Method / Event – Based Routing
3. Configure the Unified Communication Manager Presence Gateway
4. Configure the CTI Gateway
5. Configure the MOC Assignments
6. Configure the AXL Information
7. Configure the Privacy ACL Entry (Allowed Destination Host)
8. Configure the Proxy ACL Entry (Allowed Incoming Host)
9. Configure the IP Phone Messenger Setting
10. Configure the IP Phone Messenger User
11. Configure the Application User Configuration

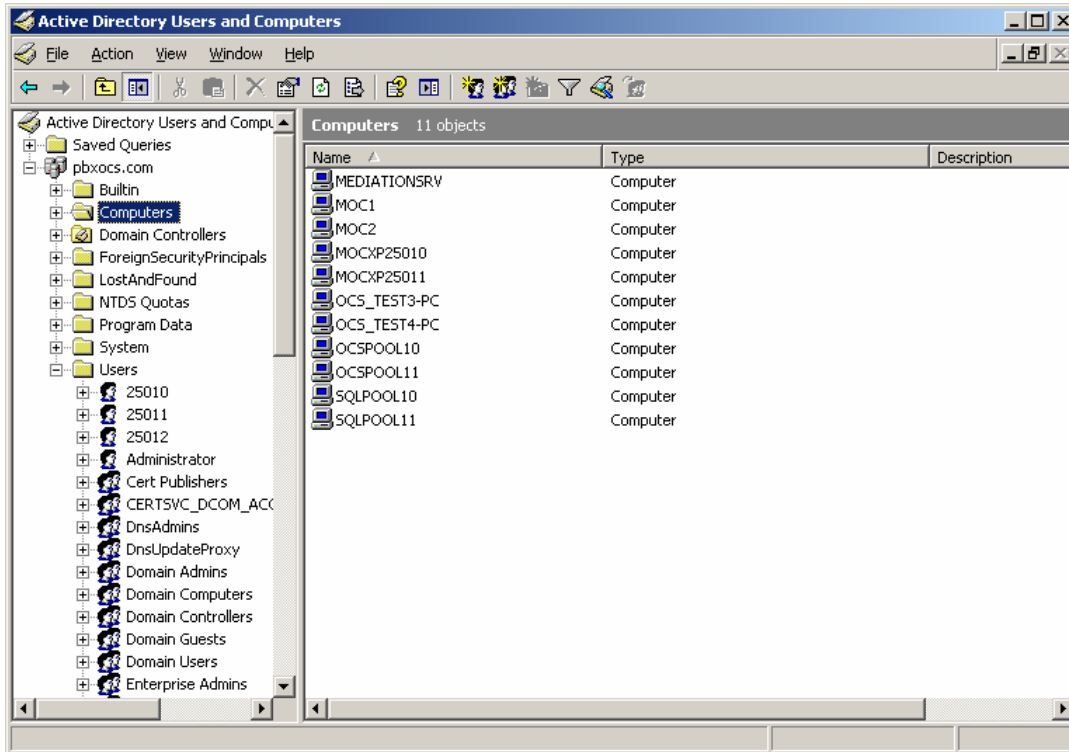
C. OCS Enterprise Edition Configuration

1. Domain Name Server
2. Pool Properties
3. Static Route
4. Authorized Host
5. Server Properties
6. Pool Users
7. User Configuration
8. Microsoft Office Communicator (MOC) Configuration



Configuring Microsoft OCS 2007 Enterprise Edition

Domain Name Server Configuration





Pool Properties

The screenshot displays the 'Office Communications Server 2007 Public Beta' interface. The left-hand tree view shows the hierarchy: Forest - pbxocs.com > Enterprise pools > pool10. The main pane is divided into 'Status' and 'Database' tabs, with 'Database' selected. The 'General Settings' section is expanded, showing the following configuration:

- Pool: pool10.pbxocs.com
- Federation or global route:
- FQDN: <None>
- Port: 5061
- Authentication protocol: NTLM
- Server to server outgoing compression:
- Client to server compression:

The 'Static IP routes (outbound connections)' section contains a table:

URI:	Next Hop Address:	Port:	Transport:
SIP:*@cupsocs.pbxocs.com	172.20.239.242	5060	TCP
SIP:*@mikepham-epas.cisco.com	172.18.195.37	5060	TCP
SIP:*@cme.pbxocs.com	172.20.8.26	5060	TCP

Below this, the 'Default certificate settings' section shows:

- Server name: ocspool10.pbxocs.com
- Enabled/Disabled:

The 'Available Tasks' pane on the right contains a single task: 'Remove Pool', which 'Removes the specified pool from the forest.'



Office Communications Server 2007 Public Beta

File Window Help

Office Communications Server 2007

- Forest - pbxocs.com
 - Enterprise pools
 - pool10
 - Users
 - Front Ends
 - Web Conferencing
 - A/V Conferencing
 - Web Components
 - pool11
 - Users
 - Front Ends
 - Web Conferencing
 - A/V Conferencing
 - Web Components
 - Standard Edition Servers
 - Archiving and CDR Servers
 - Unassigned users
 - Mediation Servers
 - Live Communications Server 2005

Status Database

Meeting Settings

Presentation folder:	\\sqlpool10\presentations
Presentation metadata folder:	\\sqlpool10\metadata
Internal URL for meeting content download:	https://pool10.pbxocs.com/etc/place/null
External URL for meeting content download:	<None>
Internal URL for Live Meeting client download:	http://office.microsoft.com/en-us/help/HA101733831033.aspx
External URL for Live Meeting client download:	http://office.microsoft.com/en-us/help/HA101733831033.aspx
Meeting content compliance:	
Meeting content compliance folder:	<None>
Meeting compliance critical:	
Internal technical support URL:	https://pool10.pbxocs.com/conf/int/TSshoot.html
External technical support URL:	<None>
Group expansion:	
Maximum group size:	100
Internal URL for group expansion:	https://pool10.pbxocs.com/GroupExpansion/service.aspx
External URL for group expansion:	<None>
A/V encryption status level:	Require Encryption

Web Conferencing Edge Server Settings

A/V Conference Edge Server Settings

Available Tasks:

- [Remove Pool](#)
Removes the specified pool from the forest.



Office Communications Server 2007 Public Beta

File Window Help

Office Communications Server 2007
Forest - pbxocs.com
Enterprise pools
pool10
Users
Front Ends
Web Conferencing
A/V Conferencing
Web Components
pool11
Users
Front Ends
Web Conferencing
A/V Conferencing
Web Components
Standard Edition Servers
Archiving and CDR Servers
Unassigned users
Mediation Servers
Live Communications Server 2005

Status Database

General Settings

Meeting Settings

Archiving Settings

Content archiving:	✘
Call details recording:	✘
Shut down if archiving fails:	✘
Shut down if MSMQ encryption fails:	✘

Office Communications Server: ocspool10.pbxocs.com
Associated queue path: <None>

Address Book Server Settings

Synchronization time:	1:30:00 AM
Output location:	\\sqlpool10\abs
File share location for internal connections:	http://pool10.pbxocs.com/Abs/Int
File share URL for external connections:	<None>

Voice Settings

Phone Lock Enforced:	✓
Minimum PIN length	6
Minimum time out	10 (minutes)

Location Profile
default
10digit

Advanced Options

Voice quality of service setting:	40
802.1p Voice setting:	5
Encryption:	Support Encryption
SIP Security Mode:	High

Available Tasks:
Remove Pool
Removes the specified pool from the forest.

Done


Front End Properties



Front Ends Properties [X]

Federation Host Authorization Archiving Voice

General Routing Compression Authentication

 pool10

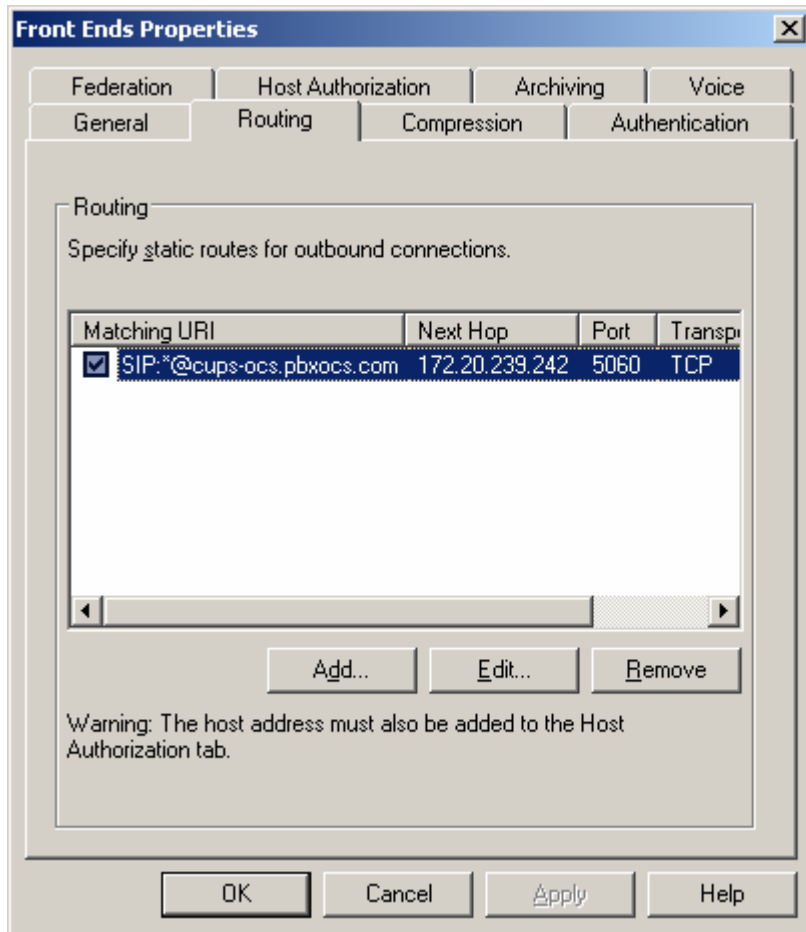
Display name:

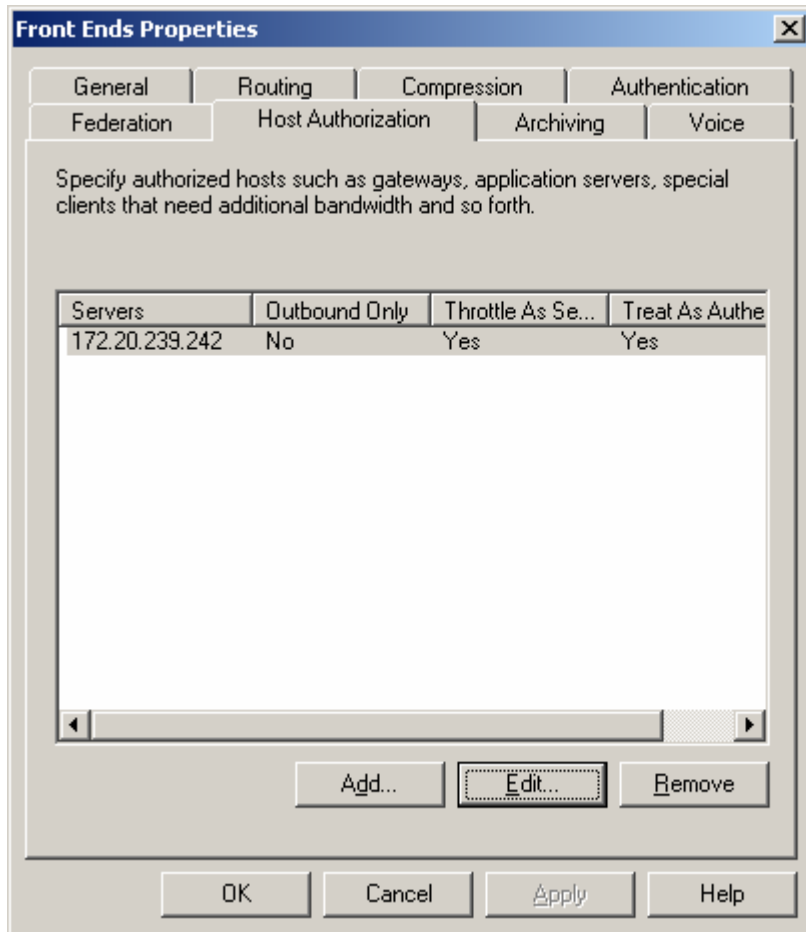
Back end server address:

Automatic database maintenance time: :00 Hrs

Maximum contacts per user:

OK Cancel Apply Help







Pool Users

The screenshot shows the Office Communications Server 2007 Public Beta interface. On the left is a tree view of the server hierarchy. The right pane displays a table of users for the selected pool.


Enabled	Display name	SIP URI	Type
Enabled	25010	sip:25010@pbxocs.com	User
Enabled	25011	sip:25011@pbxocs.com	User
Enabled	25012	sip:25012@pbxocs.com	User
Enabled	moc1 ocspool10	sip:moc1@pbxocs.com	User
Enabled	moc2 ocspool10	sip:moc2@pbxocs.com	User
Enabled	OCSTEST5 pool10	sip:OCSTEST5@pbxocs.com	User
Enabled	OCSTEST6 Pool10	sip:OCSTEST6@pbxocs.com	User
Enabled	StarWar1 pool10	sip:StarWar1@pbxocs.com	User
Enabled	StarWar2 Pool10	sip:StarWar2@pbxocs.com	User
Enabled	StarWar3 pool10	sip:StarWar3@pbxocs.com	User
Enabled	StarWar4 pool10	sip:StarWar4@pbxocs.com	User



User Configuration

OCSTEST5 Pool10 Properties [?] [X]

Member Of	Dial-in	Environment	Sessions		
Remote control	Terminal Services Profile	COM+	Communications		
General	Address	Account	Profile	Telephones	Organization

 OCSTEST5 Pool10

First name: Initials:

Last name:

Display name:

Description:

Office:

Telephone number:

E-mail:

Web page:



OCSTEST5 Pool10 Properties [?] [X]

Member Of	Dial-in	Environment	Sessions		
Remote control	Terminal Services Profile	COM+	Communications		
General	Address	Account	Profile	Telephones	Organization

User logon name:
OCSTEST5 @pbxocs.com

User logon name (pre-Windows 2000):
PBXOCS\ OCSTEST5

[Logon Hours...] [Log On I...] [Account is locked out]

Account options:

- User must change password at next logon
- User cannot change password
- Password never expires
- Store password using reversible encryption

Account expires:

- Never
- End of: Thursday, September 27, 2007

[OK] [Cancel] [Apply] [Help]

OCSTEST5 Pool10 Properties

Member Of	Dial-in	Environment	Sessions
Remote control	Terminal Services Profile	COM+	Communications
General	Address	Account	Profile
Telephones	Organization		

Telephone numbers

Home:

Pager:

Mobile:

Fax:

IP phone:

Notes:

OK Cancel Apply Help



OCSTEST5 Pool10 Properties [?] [X]

Member Of	Dial-in	Environment	Sessions		
General	Address	Account	Profile	Telephones	Organization
Remote control	Terminal Services Profile	COM+	Communications		

Enable user for Office Communications Server

Sign-in name:
sip:OCSTEST5 @ pbxocs.com

Server or pool:
pool10.pbxocs.com

Meetings

Allow anonymous participants

Policy: Default Policy [View...]

Note: Meeting settings cannot be changed unless the global setting allows per user configuration.

Additional options: [Configure...]

OK Cancel Apply Help



User Options [X]

Telephony
Select a telephony option. These settings affect only those calls that are routed through IP-PSTN or remote call control gateways.

Enable PC-to-PC communication only

Enable Remote call control

Enable Enterprise Voice

Enable PBX integration

Note: To enable both remote call control and PBX integration, you must specify a Server URI below.

Policy:

Server URI:

Line URI:

Federation

Enable federation

Enable remote user access

Enable public IM connectivity

Archiving

Archive internal IM conversations

Archive federated IM conversations

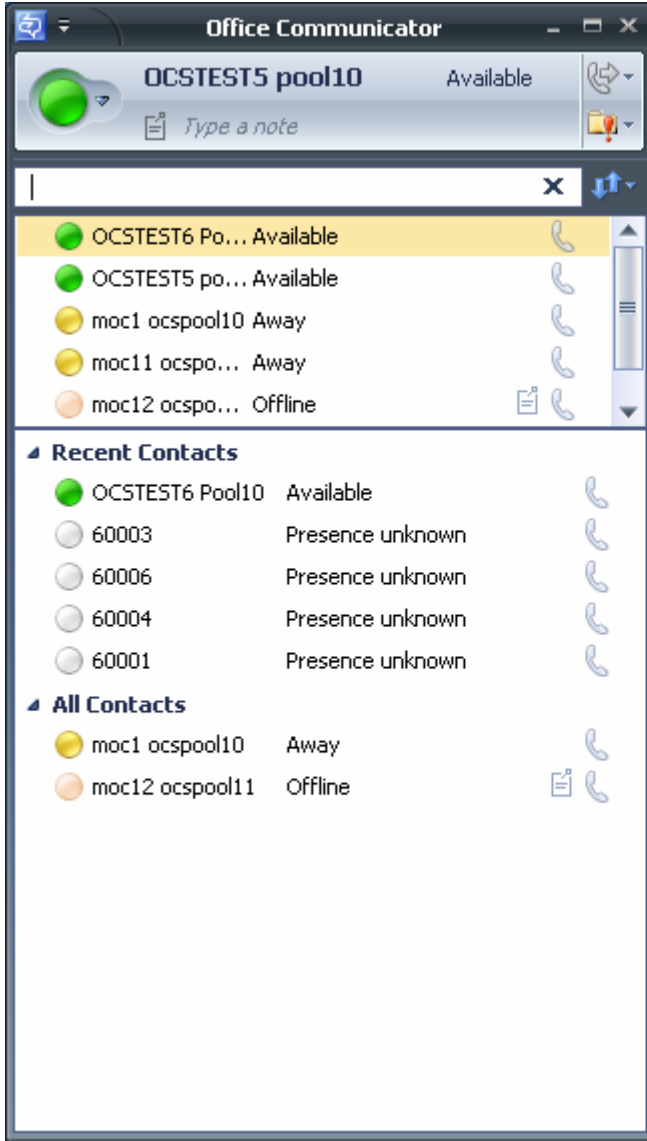
Note: Archiving settings cannot be changed unless the global setting allows per user configuration.

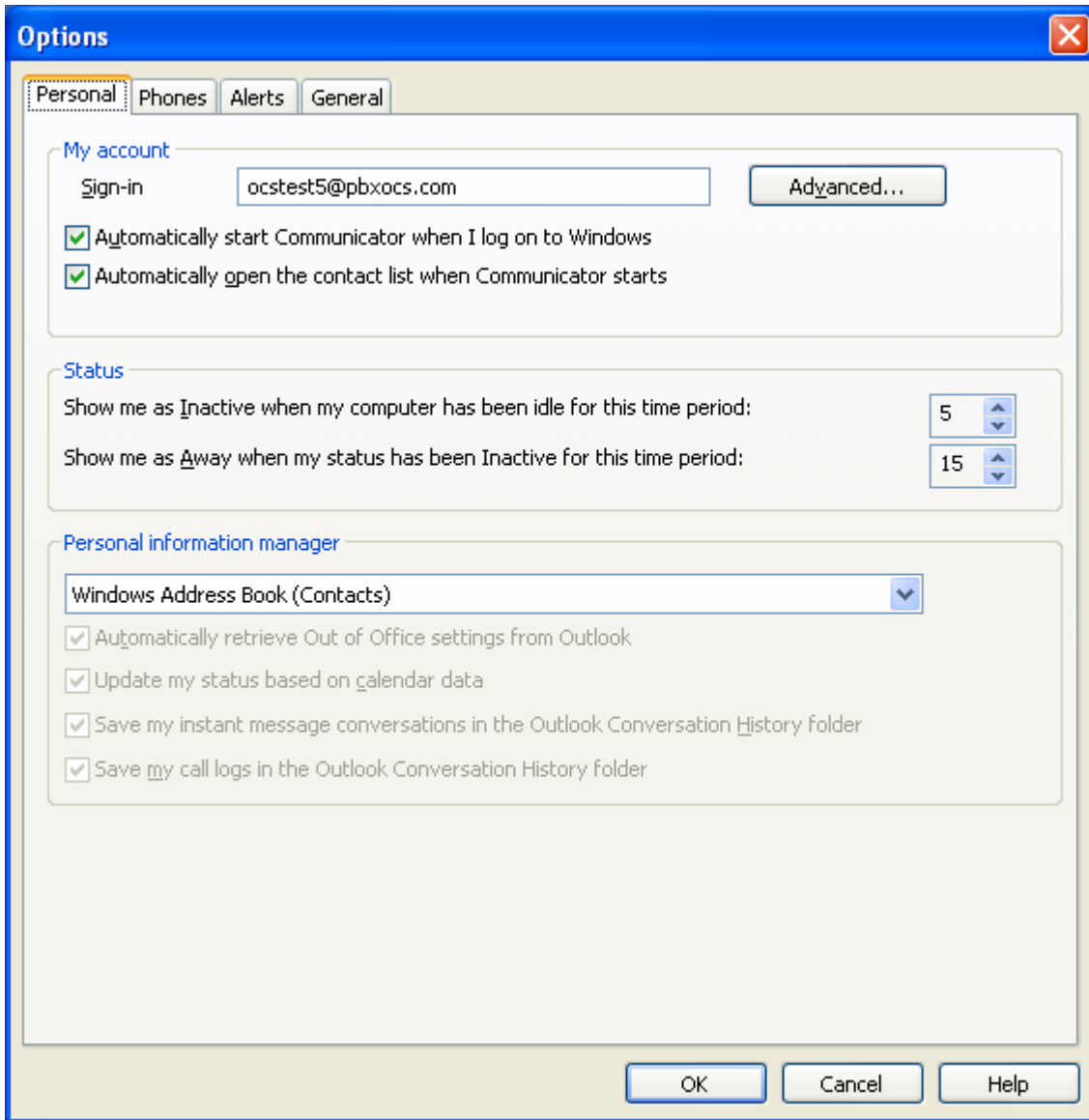
Enable enhanced presence

Note: Enhanced presence cannot be changed once it has been set.



Configuring the Microsoft Office Communicator (MOC)





Advanced Connection Settings ✕

Select the method you want to use to configure your connection to a communications service.

Automatic configuration

Configure settings

Internal server name or IP address:

External server name or IP address:

Connect using: ICP TLS

Options [Close]

Personal | **Phones** | Alerts | General

My phone numbers

To enter or edit your phone numbers, click the related button. To share the number with others, select the adjacent check box.

Work Phone...	+60005	<input checked="" type="checkbox"/> Publish this phone number
Mobile Phone...	+60005	<input checked="" type="checkbox"/> Publish this phone number
Home Phone...	+60005	<input checked="" type="checkbox"/> Publish this phone number
Other Phone...		<input type="checkbox"/> Publish this phone number

Phone integration

Enable integration with your phone system Advanced...

OK Cancel Help



Configuring the Cisco Unified Communication Manager

Cisco Unified Communication Manager Version

The screenshot shows the Cisco Unified CM Administration login interface. At the top, there is a browser address bar with "Cisco Unified CM Console" and a navigation menu with "Cisco Unified CM Administration" and a "Go" button. The main header area contains the Cisco logo, the text "Cisco Unified CM Administration For Cisco Unified Communications Solutions", and a navigation dropdown menu. The central content area features a large blue banner with the text "Cisco Unified CM Administration" and "System version: 6.0.1.1000-33". To the right of this banner is a login form with fields for "Username" and "Password", and "Login" and "Reset" buttons. Below the banner, there is a copyright notice: "Copyright © 1999 - 2006 Cisco Systems, Inc. All rights reserved." followed by a disclaimer: "This product contains cryptographic features and is subject to United States and local country laws governing import, export, transfer and use. Delivery of Cisco cryptographic products does not imply third-party authority to import, export, distribute or use encryption. Importers, exporters, distributors and users are responsible for compliance with U.S. and local country laws. By using this product you agree to comply with applicable laws and regulations. If you are unable to comply with U.S. and local laws, return this product immediately." A link is provided: "A summary of U.S. laws governing Cisco cryptographic products may be found at: <http://www.cisco.com/wwl/export/crpyto/tool/starg.html>. If you require further assistance please contact us by sending email to export@cisco.com." At the bottom right, a system tray icon shows "Wireless Network Connection (blizzard) Speed: 54.0 Mb/s".



SIP

Trunk

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation Cisco Unified CM Administration

ccadministrator | About | Logout

System ▾ Call Routing ▾ Media Resources ▾ Voice Mail ▾ Device ▾ Application ▾ User Management ▾ Bulk Administration ▾ Help ▾

Trunk Configuration Related Links: [Back To Find/List](#)

Status
Status: Ready

Device Information

Product:	SIP Trunk
Device Protocol:	SIP
Device Name*	<input type="text" value="CUPS-OCS"/>
Description	<input type="text"/>
Device Pool*	<input type="text" value="Default"/>
Common Device Configuration	<input type="text" value="< None >"/>
Call Classification*	<input type="text" value="Use System Default"/>
Media Resource Group List	<input type="text" value="< None >"/>
Location*	<input type="text" value="Hub_None"/>
AAR Group	<input type="text" value="< None >"/>
Packet Capture Mode*	<input type="text" value="None"/>
Packet Capture Duration	<input type="text" value="0"/>

Media Termination Point Required
 Retry Video Call as Audio
 Transmit UTF-8 for Calling Party Name



Trunk Configuration

Related Links: Back To Find/List Go

Save Delete Reset Add New

Multilevel Precedence and Preemption (MLPP) Information

MLPP Domain < None >

Call Routing Information

Inbound Calls

Significant Digits* All
Connected Line ID Presentation* Default
Connected Name Presentation* Default
Calling Search Space < None >
AAR Calling Search Space < None >
Prefix DN

Redirecting Diversion Header Delivery - Inbound

Outbound Calls

Calling Party Selection* Originator
Calling Line ID Presentation* Default
Calling Name Presentation* Default
Caller ID DN
Caller Name

Redirecting Diversion Header Delivery - Outbound

SIP Information

Destination Address* cups-ocs.pbxocs.com
 Destination Address is an SRV
Destination Port* 0
MTP Preferred Originating Codec* 711ulaw
Presence Group* Standard Presence group
SIP Trunk Security Profile* Non Secure SIP Trunk Profile
Rerouting Calling Search Space < None >
Out-Of-Dialog Refer Calling Search Space < None >
SUBSCRIBE Calling Search Space < None >
SIP Profile* Standard SIP Profile
DTMF Signaling Method* No Preference

Save Delete Reset Add New

Configuring the Cisco IP Phone

7960 SCCP Phone



Phone Configuration

Related Links: Back To Find/List Go

Save Delete Copy Reset Add New

Status
Status: Ready

Association Information

Modify Button Items

- 1 [Line \[1\] - 60005 \(no partition\)](#)
- 2 [Line \[2\] - Add a new DN](#)
- 3 [Add a new SD](#)
- 4 [Add a new SD](#)
- 5 [Add a new SD](#)
- 6 [Add a new SD](#)
- Unassigned Associated Items -----
- 7 [Add a new SD](#)
- 8 [Add a new SURL](#)
- 9 [Add a new BLF SD](#)
- 10 [Add a new BLF Directed Call Park](#)
- 11 Privacy
- 12 none

Phone Type

Product Type: Cisco 7960
Device Protocol: SCCP

Device Information

Registration	Registered with Cisco Unified Communications Manager cm-ocs
IP Address	172.20.227.13
MAC Address*	00146A4D3BF5
Description	60005
Device Pool*	Default View Details
Common Device Configuration	MigratedCommonDeviceConfig1 View Details
Phone Button Template*	Standard 7960 SCCP
Softkey Template	Standard User
Common Phone Profile*	Standard Common Phone Profile
Calling Search Space	< None >
AAR Calling Search Space	< None >
Media Resource Group List	< None >
User Hold MOH Audio Source	< None >
Network Hold MOH Audio Source	< None >
Location*	Hub_None
AAR Group	< None >
User Locale	< None >
Network Locale	< None >
Built In Bridge*	Default
Privacy*	Default
Device Mobility Mode*	Default View Current Device
Owner User ID	< None >
Phone Load Name	

Retry Video Call as Audio
 Ignore Presentation Indicators (internal calls only)
 Allow Control of Device from CTI
 Logged Into Hunt Group
 Remote Device



Protocol Specific Information	
Packet Capture Mode*	None
Packet Capture Duration	0
Presence Group*	Standard Presence group
Device Security Profile*	Cisco 7960 - Standard SCCP Non-Secure Profile
SUBSCRIBE Calling Search Space	< None >
<input type="checkbox"/> Unattended Port	
<input type="checkbox"/> Require DTMF Reception	
<input type="checkbox"/> RFC2833 Disabled	

Certification Authority Proxy Function (CAPF) Information	
Certificate Operation*	No Pending Operation
Authentication Mode*	By Null String
Authentication String	
<input type="button" value="Generate String"/>	
Key Size (Bits)*	1024
Operation Completes By	2007 6 28 12 (YYYY:MM:DD:HH)
Certificate Operation Status: None	
Note: Security Profile Contains Addition CAPF Settings.	

Expansion Module Information	
Module 1	< None >
Module 1 Load Name	
Module 2	< None >
Module 2 Load Name	

External Data Locations Information (Leave blank to use default)	
Information	
Directory	
Messages	
Services	
Authentication Server	
Proxy Server	
Idle	
Idle Timer (seconds)	

Extension Information	
<input checked="" type="checkbox"/> Enable Extension Mobility	
Log Out Profile	-- Use Current Device Settings --

Do Not Disturb	
<input type="checkbox"/> Do Not Disturb	
DND Option*	Ringer Off
DND Incoming Call Alert	< None >
Product Specific Configuration Layout	
?	
<input type="checkbox"/> Disable Speakerphone	
<input type="checkbox"/> Disable Speakerphone and Headset	
PC Port *	Enabled
Settings Access*	Enabled
Gratuitous ARP*	Enabled
PC Voice VLAN Access*	Enabled
Video Capabilities*	Enabled
Auto Line Select*	Enabled
Web Access*	Enabled

Save Delete Copy Reset Add New



Directory Number Configuration

Related Links: [Configure Device \(SEP00146A4D3BF5\)](#)

Status

Status: Ready

Directory Number Information

Directory Number*
Route Partition
Description
Alerting Name
ASCII Alerting Name

Allow Control of Device from CTI

Associated Devices

Dissociate Devices

Directory Number Settings

Voice Mail Profile (Choose <None> to use system default)
Calling Search Space
Presence Group*
User Hold MOH Audio Source
Network Hold MOH Audio Source
Auto Answer*

AAR Settings

	Voice Mail	AAR Destination Mask	AAR Group
AAR	<input type="checkbox"/> or	<input type="text"/>	<input type="text" value=" < None >"/>

Retain this destination in the call forwarding history

Call Forward and Call Pickup Settings

	Voice Mail	Destination	Calling Search Space
Calling Search Space Activation Policy			<input type="text" value=" Use System Default"/>
Forward All	<input type="checkbox"/> or	<input type="text"/>	<input type="text" value=" < None >"/>
Secondary Calling Search Space for Forward All			<input type="text" value=" < None >"/>



Forward Busy Internal	<input type="checkbox"/> or	<input type="text"/>	< None >
Forward Busy External	<input type="checkbox"/> or	<input type="text"/>	< None >
Forward No Answer Internal	<input type="checkbox"/> or	<input type="text"/>	< None >
Forward No Answer External	<input type="checkbox"/> or	<input type="text"/>	< None >
Forward No Coverage Internal	<input type="checkbox"/> or	<input type="text"/>	< None >
Forward No Coverage External	<input type="checkbox"/> or	<input type="text"/>	< None >
Forward on CTI Failure	<input type="checkbox"/> or	<input type="text"/>	< None >
Forward Unregistered Internal	<input type="checkbox"/> or	<input type="text"/>	< None >
Forward Unregistered External	<input type="checkbox"/> or	<input type="text"/>	< None >
No Answer Ring Duration (seconds)	<input type="text"/>		
Call Pickup Group			< None >

MLPP Alternate Party Settings

Target (Destination)	<input type="text"/>
MLPP Calling Search Space	< None >
MLPP No Answer Ring Duration (seconds)	<input type="text"/>

Line Settings for All Devices

Hold Reversion Ring Duration (seconds)	<input type="text"/>	Setting the Hold Reversion Ring Duration to zero will disable the feature
Hold Reversion Notification Interval (seconds)	<input type="text"/>	Setting the Hold Reversion Notification Interval to zero will disable the feature

Line 1 on Device SEP00146A4D3BF5

Display (Internal Caller ID)	<input type="text" value="OCS TEST5"/>	Display text for a line appearance is intended for displaying text such as a name instead of a directory number for internal calls. If you specify a number, the person receiving a call may not see the proper identity of the caller.
ASCII Display (Internal Caller ID)	<input type="text" value="OCS TEST5"/>	
Line Text Label	<input type="text"/>	
ASCII Line Text Label	<input type="text" value="OCS TEST5"/>	
External Phone Number Mask	<input type="text"/>	
Visual Message Waiting Indicator Policy*	Use System Policy	
Ring Setting (Phone Idle)*	Use System Default	
Ring Setting (Phone Active)	Use System Default	Applies to this line when any line on the phone has a call in progress.
Call Pickup Group Audio Alert Setting(Phone Idle)	Use System Default	



Call Pickup Group:

Audio Alert Setting (Phone Active):

Monitoring Calling Search Space:

Multiple Call/Call Waiting Settings on Device SEP00146A4D3BF5

Note: The range to select the Max Number of calls is: 1-200

Maximum Number of Calls*:

Busy Trigger*: (Less than or equal to Max. Calls)

Forwarded Call Information Display on Device SEP00146A4D3BF5

- Caller Name
- Caller Number
- Redirected Number
- Dialed Number

Users Associated with Line

	Full Name	User ID	Permission
<input type="checkbox"/>	OCSPPOOL10_OCSTEST5	OCSTEST5	



7970 SCCP

Phone

Phone Configuration
Related Links: [Back To Find/List](#) Go

Save
 Delete
 Copy
 Reset
 Add New

Association Information

Modify Button Items

1	Line [1] - 60006 (no partition)
2	Line [2] - Add a new DN
3	Add a new SD
4	Add a new SD
5	Add a new SD
6	Add a new SD
7	Add a new SD
8	Add a new SD
----- Unassigned Associated Items -----	
9	Add a new SD
10	Add a new SURL
11	Add a new BLF SD
12	Add a new BLF Directed Call Park
13	CallBack
14	Call Park
15	Call Pickup
16	Conference List
17	Conference
18	Do Not Disturb
19	End Call
20	Forward All
21	Group Call Pickup
22	Hold
23	Hunt Group Logout
24	Intercom [1] - Add a new Intercom
25	Malicious Call Identification
26	Meet Me Conference
27	Mobility
28	New Call
29	Other Pickup
30	Quality Reporting Tool
31	Redial

Phone Type

Product Type: Cisco 7970

Device Protocol: SCCP

Device Information

Registration: Registered with Cisco Unified Communications Manager cm-ocs

IP Address: [172.20.227.16](#)

MAC Address*: 001B5452DBA3

Description: 60006

Device Pool*: Default [View Details](#)

Common Device Configuration: < None > [View Details](#)

Phone Button Template*: Standard 7970 SCCP

Softkey Template: < None >

Common Phone Profile*: Standard Common Phone Profile

Calling Search Space: < None >

AAR Calling Search Space: < None >

Media Resource Group List: < None >

User Hold MOH Audio Source: < None >

Network Hold MOH Audio Source: < None >

Location*: Hub_None

AAR Group: < None >

User Locale: < None >

Network Locale: < None >

Built In Bridge*: Default

Privacy*: Default

Device Mobility Mode*: Default [View Current Device](#)

Owner User ID: OCSTEST6

Phone Personalization*: Default

Phone Load Name:

Retry Video Call as Audio

Ignore Presentation Indicators (internal calls only)

Allow Control of Device from CTI

Logged Into Hunt Group

Remote Device



33	Transfer
34	Video Mode
35	Privacy
36	None

Protocol Specific Information

Packet Capture Mode*

Packet Capture Duration

Presence Group*

Device Security Profile*

SUBSCRIBE Calling Search Space

Unattended Port

Require DTMF Reception

RFC2833 Disabled

Certification Authority Proxy Function (CAPF) Information

Certificate Operation*

Authentication Mode*

Authentication String

Key Size (Bits)*

Operation Completes By (YYYY:MM:DD:HH)

Certificate Operation Status: None

Note: Security Profile Contains Addition CAPF Settings.

Expansion Module Information

Module 1

Module 1 Load Name

Module 2

Module 2 Load Name

External Data Locations Information (Leave blank to use default)

Information

Directory

Messages

Services

Authentication Server

Proxy Server

Idle

Idle Timer (seconds)

Extension Information

Enable Extension Mobility

Log Out Profile



MLPP Information	
MLPP Domain	< None >
MLPP Indication*	Default
MLPP Preemption*	Default
Do Not Disturb	
<input type="checkbox"/> Do Not Disturb	
DND Option*	Ringer Off
DND Incoming Call Alert	< None >
Secure Shell Information	
Secure Shell User	
Secure Shell Password	
Product Specific Configuration Layout	
<input type="checkbox"/> Disable Speakerphone	
<input type="checkbox"/> Disable Speakerphone and Headset	
Forwarding Delay*	Disabled
PC Port *	Enabled
Settings Access*	Enabled
Gratuitous ARP*	Disabled
PC Voice VLAN Access*	Enabled
Video Capabilities*	Enabled
Auto Line Select*	Disabled
Web Access*	Enabled
Days Display Not Active	Sunday Monday Tuesday
Display On Time	07:30
Display On Duration	10:30
Display Idle Timeout	01:00
Span to PC Port*	Disabled
Logging Display*	PC Controlled
Load Server	
Recording Tone*	Disabled
Recording Tone Local Volume*	100
Recording Tone Remote Volume*	50
Recording Tone Duration	



Display On When Incoming Call*	Disabled
RTCP*	Disabled
"more" Soft Key Timer	5
Auto Call Select*	Enabled
Log Server	
Advertise G.722 Codec*	Use System Default
Wideband Headset UI Control*	Enabled
Wideband Handset UI Control*	Enabled
Wideband Headset*	Enabled
Wideband Handset*	Use Phone Default
Peer Firmware Sharing*	Disabled
Cisco Discovery Protocol (CDP): Switch Port*	Enabled
Cisco Discovery Protocol (CDP): PC Port*	Enabled



Directory Number Configuration

Related Links: [Configure Device \(SEP001B5452DBA3\)](#)

Directory Number Information

Directory Number*

Route Partition

Description

Alerting Name

ASCII Alerting Name

Allow Control of Device from CTI

Associated Devices

▼ ▲

Dissociate Devices

Directory Number Settings

Voice Mail Profile (Choose <None> to use system default)

Calling Search Space

Presence Group*

User Hold MOH Audio Source

Network Hold MOH Audio Source

Auto Answer*

AAR Settings

	Voice Mail	AAR Destination Mask	AAR Group
AAR	<input type="checkbox"/> or	<input type="text"/>	<input type="text" value=" < None >"/>
<input checked="" type="checkbox"/> Retain this destination in the call forwarding history			

Call Forward and Call Pickup Settings

	Voice Mail	Destination	Calling Search Space
Calling Search Space Activation Policy			<input type="text" value=" Use System Default"/>
Forward All	<input type="checkbox"/> or	<input type="text"/>	<input type="text" value=" < None >"/>
Secondary Calling Search Space for Forward All			<input type="text" value=" < None >"/>
Forward Busy Internal	<input type="checkbox"/> or	<input type="text"/>	<input type="text" value=" < None >"/>
Forward Busy External	<input type="checkbox"/> or	<input type="text"/>	<input type="text" value=" < None >"/>
Forward No Answer Internal	<input type="checkbox"/> or	<input type="text"/>	<input type="text" value=" < None >"/>
Forward No Answer External	<input type="checkbox"/> or	<input type="text"/>	<input type="text" value=" < None >"/>
Forward No Coverage Internal	<input type="checkbox"/> or	<input type="text"/>	<input type="text" value=" < None >"/>



Forward Unregistered Internal	<input type="checkbox"/> or	<input type="text"/>	< None >
Forward Unregistered External	<input type="checkbox"/> or	<input type="text"/>	< None >
No Answer Ring Duration (seconds)	<input type="text"/>		
Call Pickup Group	< None >		

MLPP Alternate Party Settings

Target (Destination)	<input type="text"/>
MLPP Calling Search Space	< None >
MLPP No Answer Ring Duration (seconds)	<input type="text"/>

Line Settings for All Devices

Hold Reversion Ring Duration (seconds)	<input type="text"/>	Setting the Hold Reversion Ring Duration to zero will disable the feature
Hold Reversion Notification Interval (seconds)	<input type="text"/>	Setting the Hold Reversion Notification Interval to zero will disable the feature

Line 1 on Device SEP001B5452DBA3

Display (Internal Caller ID)	<input type="text" value="OCS TEST6"/>	Display text for a line appearance is intended for displaying text such as a name instead of a directory number for internal calls. If you specify a number, the person receiving a call may not see the proper identity of the caller.
ASCII Display (Internal Caller ID)	<input type="text" value="OCS TEST6"/>	
Line Text Label	<input type="text" value="OCS TEST6"/>	
ASCII Line Text Label	<input type="text" value="OCS TEST6"/>	
External Phone Number Mask	<input type="text"/>	
Visual Message Waiting Indicator Policy*	Use System Policy	
Audible Message Waiting Indicator Policy*	Off	
Ring Setting (Phone Idle)*	Use System Default	
Ring Setting (Phone Active)	Use System Default	Applies to this line when any line on the phone has a call in progress.
Call Pickup Group Audio Alert Setting(Phone Idle)	Use System Default	
Call Pickup Group Audio Alert Setting(Phone Active)	Use System Default	
Recording Option*	Call Recording Disabled	
Recording Profile	< None >	
Monitoring Calling Search Space	< None >	



Multiple Call/Call Waiting Settings on Device SEP001B5452DBA3

Note: The range to select the Max Number of calls is: 1-200

Maximum Number of Calls*

4

Busy Trigger*

2

(Less than or equal to Max. Calls)

Forwarded Call Information Display on Device SEP001B5452DBA3

- Caller Name
- Caller Number
- Redirected Number
- Dialed Number

Users Associated with Line

	Full Name	User ID	Permission
<input type="checkbox"/>	OCSPPOOL10_OCSTEST6	OCSTEST6	



7961 SIP Phone

Phone Configuration Related Links:

Save Copy

Association Information

1	Line [1] - 60003 (no partition)
2	Line [2] - Add a new DN
3	Add a new SD
4	Add a new SD
5	Add a new SD
6	Add a new SD
----- Unassigned Associated Items -----	
7	Add a new SD
8	Add a new SURL
9	Add a new BLF SD
10	Add a new BLF Directed Call Park
11	Intercom [1] - Add a new Intercom
12	Do Not Disturb
13	Privacy
14	None

Phone Type

Product Type: Cisco 7961
Device Protocol: SIP

Device Information

Registration: Registered with Cisco Unified Communications Manager cm-ocs

IP Address: [172.20.227.2](#)

MAC Address*:

Description:

Device Pool*: [View Details](#)

Common Device Configuration: [View Details](#)

Phone Button Template*:

Softkey Template:

Common Phone Profile*:

Calling Search Space:

AAR Calling Search Space:

Media Resource Group List:

User Hold MOH Audio Source:

Network Hold MOH Audio Source:

Location*:

AAR Group:

User Locale:

Network Locale:

Built In Bridge*:

Privacy*:

Device Mobility Mode*: [View Current Device](#)
[Mobility Settings](#)

Owner User ID:

Phone Personalization*:

Phone Load Name:

Ignore Presentation Indicators (internal calls only)

Allow Control of Device from CTI

Logged Into Hunt Group

Remote Device



Protocol Specific Information	
Packet Capture Mode*	None
Packet Capture Duration	0
Presence Group*	Standard Presence group
SIP Dial Rules	< None >
MTP Preferred Originating Codec*	711ulaw
Device Security Profile*	Cisco 7961 - Standard SIP Non-Secure Profile
Rerouting Calling Search Space	< None >
SUBSCRIBE Calling Search Space	< None >
SIP Profile*	Standard SIP Profile
Digest User	MOC11
<input type="checkbox"/> Media Termination Point Required	
<input type="checkbox"/> Unattended Port	
<input type="checkbox"/> Require DTMF Reception	

Certification Authority Proxy Function (CAPF) Information	
Certificate Operation*	No Pending Operation
Authentication Mode*	By Null String
Authentication String	

External Data Locations Information (Leave blank to use default)	
Information	
Directory	
Messages	
Services	
Authentication Server	
Proxy Server	
Idle	
Idle Timer (seconds)	

Extension Information	
<input checked="" type="checkbox"/> Enable Extension Mobility	
Log Out Profile	-- Use Current Device Settings --
Log in Time	< None >
Log out Time	< None >

MLPP Information	
MLPP Domain	< None >



Do Not Disturb

Do Not Disturb
DND Option*
DND Incoming Call Alert

Secure Shell Information

Secure Shell User
Secure Shell Password

Product Specific Configuration Layout

Disable Speakerphone
 Disable Speakerphone and Headset
PC Port *
Settings Access*
Gratuitous ARP*
PC Voice VLAN Access*
Video Capabilities*
Auto Line Select*
Web Access*
Span to PC Port*
Logging Display*
Load Server
Recording Tone*
Recording Tone Local Volume*
Recording Tone Remote Volume*
Recording Tone Duration
RTCP*
"more" Soft Key Timer
Auto Call Select*
Log Server
Advertise G.722 Codec*
Wideband Headset UI Control*
Wideband Handset UI Control*
Wideband Headset*
Wideband Handset*
Peer Firmware Sharing*



Directory Number Configuration

Related Links: [Configure Device \(SEP001B0CAD6662\)](#)

Directory Number Information

Directory Number*

Route Partition

Description

Alerting Name

ASCII Alerting Name

Allow Control of Device from CTI

Associated Devices

▼ ▲

Dissociate Devices

Directory Number Settings

Voice Mail Profile (Choose <None> to use system default)

Calling Search Space

Presence Group*

User Hold MOH Audio Source

Network Hold MOH Audio Source

Auto Answer*

AAR Settings

	Voice Mail	AAR Destination Mask	AAR Group
AAR	<input type="checkbox"/> or <input type="text"/>	<input type="text"/>	<input style="border: none; border-bottom: 1px solid black;" type="text" value=" < None > "/>
<input checked="" type="checkbox"/> Retain this destination in the call forwarding history			

Call Forward and Call Pickup Settings

	Voice Mail	Destination	Calling Search Space
Calling Search Space Activation Policy			<input style="border: none; border-bottom: 1px solid black;" type="text" value=" Use System Default "/>
Forward All	<input type="checkbox"/> or <input type="text"/>	<input type="text"/>	<input style="border: none; border-bottom: 1px solid black;" type="text" value=" < None > "/>
Secondary Calling Search Space for Forward All			<input style="border: none; border-bottom: 1px solid black;" type="text" value=" < None > "/>
Forward Busy Internal	<input type="checkbox"/> or <input type="text"/>	<input type="text"/>	<input style="border: none; border-bottom: 1px solid black;" type="text" value=" < None > "/>
Forward Busy External	<input type="checkbox"/> or <input type="text"/>	<input type="text"/>	<input style="border: none; border-bottom: 1px solid black;" type="text" value=" < None > "/>
Forward No Answer Internal	<input type="checkbox"/> or <input type="text"/>	<input type="text"/>	<input style="border: none; border-bottom: 1px solid black;" type="text" value=" < None > "/>
Forward No Answer External	<input type="checkbox"/> or <input type="text"/>	<input type="text"/>	<input style="border: none; border-bottom: 1px solid black;" type="text" value=" < None > "/>



Forward No Coverage Internal	<input type="checkbox"/> or	<input type="text"/>	< None >
Forward No Coverage External	<input type="checkbox"/> or	<input type="text"/>	< None >
Forward on CTI Failure	<input type="checkbox"/> or	<input type="text"/>	< None >
Forward Unregistered Internal	<input type="checkbox"/> or	<input type="text"/>	< None >
Forward Unregistered External	<input type="checkbox"/> or	<input type="text"/>	< None >
No Answer Ring Duration (seconds)	<input type="text"/>		
Call Pickup Group	< None >		

MLPP Alternate Party Settings

Target (Destination)	<input type="text"/>
MLPP Calling Search Space	< None >
MLPP No Answer Ring Duration (seconds)	<input type="text"/>

Line Settings for All Devices

Hold Reversion Ring Duration (seconds)	<input type="text"/>	Setting the Hold Reversion Ring Duration to zero will disable the feature
Hold Reversion Notification Interval (seconds)	<input type="text"/>	Setting the Hold Reversion Notification Interval to zero will disable the feature

Line 1 on Device SEP001B0CAD6662

Display (Internal Caller ID)	<input type="text" value="OCS TEST3"/>	Display text for a line appearance is intended for displaying text such as a name instead of a directory number for internal calls. If you specify a number, the person receiving a call may not see the proper identity of the caller.
ASCII Display (Internal Caller ID)	<input type="text" value="OCS TEST3"/>	
Line Text Label	<input type="text" value="OCS TEST3"/>	
ASCII Line Text Label	<input type="text" value="OCS TEST3"/>	
External Phone Number Mask	<input type="text"/>	
Visual Message Waiting Indicator Policy*	Use System Policy	
Audible Message Waiting Indicator Policy*	Default	
Ring Setting (Phone Idle)*	Use System Default	
Ring Setting (Phone Active)	Use System Default	Applies to this line when any line on the phone has a call in progress.
Call Pickup Group Audio Alert Setting(Phone Idle)	Use System Default	
Call Pickup Group Audio Alert Setting(Phone Active)	Use System Default	
Recording Option*	Call Recording Disabled	
Recording Profile	< None >	
Monitoring Calling Search Space	< None >	

Multiple Call/Call Waiting Settings on Device SEP001B0CAD6662

Note: The range to select the Max Number of calls is: 1-200

Maximum Number of Calls*	<input type="text" value="4"/>
Busy Trigger*	<input type="text" value="2"/> (Less than or equal to Max. Calls)

Forwarded Call Information Display on Device SEP001B0CAD6662

- Caller Name
- Caller Number
- Redirected Number
- Dialed Number



7971 SIP Phone

Phone Configuration
Related Links:

Association Information

1	Line [1] - 60001 (no partition)
2	Line [2] - Add a new DN
3	Add a new SD
4	Add a new SD
5	Add a new SD
6	Add a new SD
7	Add a new SD
8	Add a new SD
----- Unassigned Associated Items -----	
9	Add a new SD
10	Add a new SURL
11	Add a new BLF SD
12	Add a new BLF Directed Call Park
13	Intercom [1] - Add a new Intercom
14	Do Not Disturb
15	Privacy
16	None

Phone Type

Product Type: Cisco 7971
Device Protocol: SIP

Device Information

Registration: Registered with Cisco Unified Communications Manager cm-ocs

IP Address: [172.20.227.15](#)

MAC Address*:

Description:

Device Pool*: [View Details](#)

Common Device Configuration: [View Details](#)

Phone Button Template*:

Softkey Template:

Common Phone Profile*:

Calling Search Space:

AAR Calling Search Space:

Media Resource Group List:

User Hold MOH Audio Source:

Network Hold MOH Audio Source:

Location*:

AAR Group:

User Locale:

Network Locale:

Built In Bridge*:

Privacy*:

Device Mobility Mode*: [View Current Device](#)

Owner User ID:

Phone Personalization*:

Phone Load Name:

Ignore Presentation Indicators (internal calls only)

Allow Control of Device from CTI

Logged Into Hunt Group

Remote Device



Protocol Specific Information	
Packet Capture Mode*	None
Packet Capture Duration	0
Presence Group*	Standard Presence group
SIP Dial Rules	< None >
MTP Preferred Originating Codec*	711ulaw
Device Security Profile*	Cisco 7971 - Standard SIP Non-Secure Profile
Rerouting Calling Search Space	< None >
SUBSCRIBE Calling Search Space	< None >
SIP Profile*	Standard SIP Profile
Digest User	MOC1
<input type="checkbox"/> Media Termination Point Required	
<input type="checkbox"/> Unattended Port	
<input type="checkbox"/> Require DTMF Reception	
Certification Authority Proxy Function (CAPF) Information	
Certificate Operation*	No Pending Operation
Authentication Mode*	By Null String
Authentication String	
External Data Locations Information (Leave blank to use default)	
Information	
Directory	
Messages	
Services	
Authentication Server	
Proxy Server	
Idle	
Idle Timer (seconds)	
Extension Information	
<input checked="" type="checkbox"/> Enable Extension Mobility	
Log Out Profile	-- Use Current Device Settings --
Log in Time	< None >
Log out Time	< None >
MLPP Information	
MLPP Domain	< None >



Do Not Disturb	
<input type="checkbox"/> Do Not Disturb	
DND Option*	Ringer Off
DND Incoming Call Alert	< None >
Secure Shell Information	
Secure Shell User	
Secure Shell Password	
Product Specific Configuration Layout	
?	
<input type="checkbox"/> Disable Speakerphone	
<input type="checkbox"/> Disable Speakerphone and Headset	
PC Port *	Enabled
Settings Access*	Enabled
Gratuitous ARP*	Disabled
PC Voice VLAN Access*	Enabled
Video Capabilities*	Disabled
Auto Line Select*	Disabled
Load Server	
Recording Tone*	Disabled
Recording Tone Local Volume*	100
Recording Tone Remote Volume*	50
Recording Tone Duration	
Display On When Incoming Call*	Disabled
RTCP*	Disabled
"more" Soft Key Timer	5
Auto Call Select*	Enabled
Log Server	
Advertise G.722 Codec*	Use System Default
Wideband Headset UI Control*	Enabled
Wideband Handset UI Control*	Enabled
Wideband Handset*	Enabled
Wideband Handset*	Use Phone Default
Peer Firmware Sharing*	Disabled
Cisco Discovery Protocol (CDP): Switch Port*	Enabled
Cisco Discovery Protocol (CDP): PC Port*	Enabled



Directory Number Configuration

Related Links: [Configure Device \(SEP001B53B8B428\)](#)

Directory Number Information

Directory Number*

Route Partition

Description

Alerting Name

ASCII Alerting Name

Allow Control of Device from CTI

Associated Devices

Dissociate Devices

Directory Number Settings

Voice Mail Profile (Choose <None> to use system default)

Calling Search Space

Presence Group*

User Hold MOH Audio Source

Network Hold MOH Audio Source

Auto Answer*

AAR Settings

	Voice Mail	AAR Destination Mask	AAR Group
AAR	<input type="checkbox"/> or <input type="checkbox"/>	<input type="text"/>	<input style="border: none; border-bottom: 1px solid #ccc;" type="text" value=" < None > "/>
<input checked="" type="checkbox"/> Retain this destination in the call forwarding history			

Call Forward and Call Pickup Settings

	Voice Mail	Destination	Calling Search Space
Calling Search Space Activation Policy			<input style="border: none; border-bottom: 1px solid #ccc;" type="text" value=" Use System Default "/>
Forward All	<input type="checkbox"/> or <input type="checkbox"/>	<input type="text"/>	<input style="border: none; border-bottom: 1px solid #ccc;" type="text" value=" < None > "/>
Secondary Calling Search Space for Forward All			<input style="border: none; border-bottom: 1px solid #ccc;" type="text" value=" < None > "/>
Forward Busy Internal	<input type="checkbox"/> or <input type="checkbox"/>	<input type="text"/>	<input style="border: none; border-bottom: 1px solid #ccc;" type="text" value=" < None > "/>
Forward Busy External	<input type="checkbox"/> or <input type="checkbox"/>	<input type="text"/>	<input style="border: none; border-bottom: 1px solid #ccc;" type="text" value=" < None > "/>
Forward No Answer Internal	<input type="checkbox"/> or <input type="checkbox"/>	<input type="text"/>	<input style="border: none; border-bottom: 1px solid #ccc;" type="text" value=" < None > "/>
Forward No Answer External	<input type="checkbox"/> or <input type="checkbox"/>	<input type="text"/>	<input style="border: none; border-bottom: 1px solid #ccc;" type="text" value=" < None > "/>
Forward No Coverage Internal	<input type="checkbox"/> or <input type="checkbox"/>	<input type="text"/>	<input style="border: none; border-bottom: 1px solid #ccc;" type="text" value=" < None > "/>



Forward No Coverage External	<input type="checkbox"/> or	<input type="text"/>	< None >
Forward on CTI Failure	<input type="checkbox"/> or	<input type="text"/>	< None >
Forward Unregistered Internal	<input type="checkbox"/> or	<input type="text"/>	< None >
Forward Unregistered External	<input type="checkbox"/> or	<input type="text"/>	< None >
No Answer Ring Duration (seconds)	<input type="text"/>		
Call Pickup Group	< None >		

MLPP Alternate Party Settings

Target (Destination)	<input type="text"/>
MLPP Calling Search Space	< None >
MLPP No Answer Ring Duration (seconds)	<input type="text"/>

Line Settings for All Devices

Hold Reversion Ring Duration (seconds)	<input type="text"/>	Setting the Hold Reversion Ring Duration to zero will disable the feature
Hold Reversion Notification Interval (seconds)	<input type="text"/>	Setting the Hold Reversion Notification Interval to zero will disable the feature

Line 1 on Device SEP001B53B8B428

Display (Internal Caller ID)	<input type="text" value="OCS Test 1"/>	Display text for a line appearance is intended for displaying text such as a name instead of a directory number for internal calls. If you specify a number, the person receiving a call may not see the proper identity of the caller.
ASCII Display (Internal Caller ID)	<input type="text" value="OCS Test 1"/>	
Line Text Label	<input type="text" value="OCS TEST 1"/>	
ASCII Line Text Label	<input type="text" value="OCS TEST 1"/>	
External Phone Number Mask	<input type="text"/>	
Visual Message Waiting Indicator Policy*	Use System Policy	
Audible Message Waiting Indicator Policy*	Off	
Ring Setting (Phone Idle)*	Use System Default	
Ring Setting (Phone Active)	Use System Default	Applies to this line when any line on the phone has a call in progress.
Call Pickup Group Audio Alert Setting(Phone Idle)	Use System Default	
Call Pickup Group Audio Alert Setting(Phone Active)	Use System Default	
Recording Option*	Call Recording Disabled	
Recording Profile	< None >	
Monitoring Calling Search Space	< None >	

Multiple Call/Call Waiting Settings on Device SEP001B53B8B428

Note: The range to select the Max Number of calls is: 1-50

Maximum Number of Calls*	<input type="text" value="4"/>
Busy Trigger*	<input type="text" value="2"/> (Less than or equal to Max. Calls)

Forwarded Call Information Display on Device SEP001B53B8B428

- Caller Name
- Caller Number
- Redirected Number
- Dialed Number



End User

Configuration

Cisco Unified CM Administration Navigation **Cisco Unified CM Administration**
For Cisco Unified Communications Solutions **ccadministrator** | [About](#) | [Logout](#)

System ▾ Call Routing ▾ Media Resources ▾ Voice Mail ▾ Device ▾ Application ▾ User Management ▾ Bulk Administration ▾ Help ▾

End User Configuration Related Links:

Status
 Status: Ready

User Information

User ID*	<input type="text" value="OCSTEST5"/>	
Password	<input type="password" value="....."/>	<input type="button" value="Edit Credential"/>
Confirm Password	<input type="password" value="....."/>	
PIN	<input type="password" value="....."/>	<input type="button" value="Edit Credential"/>
Confirm PIN	<input type="password" value="....."/>	
Last name*	<input type="text" value="OCSP00L10"/>	
Middle name	<input type="text"/>	
First name	<input type="text" value="OCSTEST5"/>	
Telephone Number	<input type="text"/>	
Mail ID	<input type="text"/>	
Manager User ID	<input type="text"/>	
Department	<input type="text"/>	
User Locale	<input type="text" value=" < None >"/>	
Associated PC	<input type="text"/>	
Digest Credentials	<input type="text"/>	

Device Associations

Controlled Devices	<input type="text" value="SEP00146A4D3BF5
SEP0015632CE07B
SEP0015C5CC34CD"/>	<input type="button" value="Device Association"/>
--------------------	--	---

Extension Mobility

Available Profiles	<input type="text" value="MOC1 EXTMOB Profile
OCSTEST4 EXTMOB profile
OCSTEST6 EXTMOB Profile"/>	
	▼ ▲	
Controlled Profiles	<input type="text" value="OCSTEST5 EXTMOB Profile"/>	<input type="button" value="▼"/> <input type="button" value="▲"/>
Default Profile	<input type="text" value="-- Not Selected --"/>	
Presence Group*	<input type="text" value="Standard Presence group"/>	
SUBSCRIBE Calling Search Space	<input type="text" value=" < None >"/>	

Allow Control of Device from CTI



SUBSCRIBE Calling Search Space < None >

Allow Control of Device from CTI

Directory Number Associations

Primary Extension 60005

Mobility Information

Enable Mobility

Enable Mobile Voice Access

Maximum Wait Time for Desk Pickup* 10000

Remote Destination Limit* 4

Remote Destination Profiles

[View Details](#)

Access Lists

[View Details](#)

CAPF Information

Associated CAPF Profiles

[View Details](#)

Permissions Information

Groups

[View Details](#)

Roles

[View Details](#)

Add to User Group

Remove from User Group



Licensing Capabilities Assignments

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Capabilities Assignment Configuration

Related Links:

Status
 Status: Ready

User Information
User ID: OCSTEST5

Capabilities Assignment Information

Enable CUP (Cisco Unified Presence)
 Enable CUPC (Cisco Unified Personal Communicator)

Phone Services

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IP Phone Services Configuration

Related Links:

Status
 Status: Ready

Service Information

Service Name*	ASCII Service Name*
<input type="text" value="ExtMobility"/>	<input type="text" value="ExtMobility"/>
Service Description	Service URL*
<input type="text" value="Extension Mobility"/>	<input type="text" value="http://172.20.239.241:8080/emapp/EMAppServlet?de"/>

Service Parameter Information

Parameters

<input type="text"/>	<input type="button" value="New"/>
	<input type="button" value="Edit"/>
	<input type="button" value="Delete"/>



Application User Configuration

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Application User Configuration Related Links: [Back To Find/List](#)

Status
 Status: Ready

Application User Information

User ID*

Password

Confirm Password

Digest Credentials

Confirm Digest Credentials

Presence Group*

Accept Presence Subscription
 Accept Out-of-dialog REFER
 Accept Unsolicited Notification
 Accept Replaces Header

Device Information

Available Devices

Controlled Devices

CAPF Information

Associated CAPF Profiles [View Details](#)

Permissions Information

Groups
 [View Details](#)

Roles [View Details](#)

*- indicates required item.

Controlled Devices

SEP00180CD8E899
SEP00180CD8C827
SEP00180CA06662
SEP001464028F5

CAPF Information

Associated CAPF Profiles

[View Details](#)

Permissions Information

Groups	Standard CTI Allow Control of All Devices Standard CTI Enabled		<input type="button" value="Add to User Group"/> <input type="button" value="Remove from User Group"/>
	View Details		
Roles	Standard CTI Allow Control of All Devices Standard CTI Enabled		
	View Details		



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Application Dial Rule Configuration

Related Links: [Back To Find/List](#) Go

Save ~~Delete~~ + Add New

Status

i Status: Ready

Application Dial Rule Information

Name*	Strip +
Description	Dial Rule to strip + prefix required by OCS 2007
Number Begins With	+
Number of Digits*	6
Total Digits to be Removed*	1
Prefix With Pattern	

Application Dial Rule Priority

Name	Number Begins With	Number of Digits	Total Digits to be Removed	Prefix With Pattern	Up	Down
Strip +	+	6	1		▲	▼

Save Delete Add New

i *- indicates required item.

Device Profile (Extension Mobility) Configuration



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Device Profile Configuration

Related Links: Back To Find/List [Go]

Save Delete Copy Add New

Status
Status: Ready

Association Info Modify Button Items

1	7960 Line [1] - 60005 (no partition)
2	7960 Line [2] - Add a new DN
3	Add a new SD
4	Add a new SD
5	Add a new SD
6	Add a new SD
----- Unassigned Associated Items -----	
7	Add a new SD
8	Add a new SURL
9	Add a new BLF SD
10	7960 Add a new RLF Directed Call Park
11	Privacy
12	None

User Device Profile Information

Product Type: Cisco 7960
Device Protocol: SCCP

Device Profile Name*: OCSTESTS EXTMOB Profile
Description: Ext. Mobility profile for 60005
User Hold MOH Audio Source: 5-
User Locale: English, United States
Phone Button Template*: Standard 7960 SCCP
Softkey Template: Standard User
Privacy*: Default

Ignore Presentation Indicators (internal calls only)
 Do Not Disturb
DND Incoming Call Alert: < None >

Expansion Module Information

Module1: < None >
Module2: < None >

Configuring the Cisco Unified Presence server

CUP Version



Cisco Unified Presence Administration

System version: 6.0.1.1000-1



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Cisco Unified Communications Manager Publisher Address: [172.20.239.241](tel:172.20.239.241)



CUP Method / Event – Based Routing Entries

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Find and List Method/Event-Based Routing Entries

Add New

Status
 Records found: 3

Method/Event-Based Routing (1 - 3 of 3) Rows per Page 50 ▾

Find Method/Event-Based Routing where Name ▾ begins with ▾

<input type="checkbox"/>	Name ^	Description	Content Token	Content Category	Destination Address	Destination Port
<input type="checkbox"/>	ProfileConfig	Multi-Login/Change Notification	profileconfig	Event Type-Based	172.20.239.242	5070
<input type="checkbox"/>	SystemPublish	System Managed Publish	PUBLISH	Method-Based	172.20.239.242	5070
<input type="checkbox"/>	SystemSubscribe	System Managed Subscribe	SUBSCRIBE	Method-Based	172.20.239.242	5070



CUP Method / Event – Based Routing Configuration

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Method/Event-Based Routing Configuration

Related Links: [Back To Find/List](#)

Save ~~X~~ Delete Copy + Add New

Status
Status: Ready

Method/Event-Based Routing Information

Name*	SystemPublish
Description	System Managed Publish
Content Token*	PUBLISH
Content Category*	Method-Based
Destination Address*	172.20.239.242
Destination Port*	5070
Protocol Type*	TCP

Save Delete Copy Add New

i * - indicates required item.



Configuring the Cisco Unified Communication Manager Presence Gateway

Cisco Unified Presence Administration
For Cisco Unified Communications Solutions

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Presence Gateway Configuration Related Links: [Back To Find/List](#)

Status

Status: Ready

Presence Gateway Settings (Cisco Unified Communications Manager)

You can configure a Cisco Unified Communications Manager server as a presence gateway. The Cisco Unified Presence server will then send SIP Subscribe messages to Cisco Unified Communications Manager over a SIP trunk which will allow the Cisco Unified Presence server to receive presence information (e.g. phone on/off hook status).

Presence Gateway Type*

Description*

Presence Gateway*

* - indicates required item.



CTI Gateway Configuration

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For Cisco Unified Communications Solutions

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CTI Gateway Settings

Status

Status: Ready

CTI Gateway Application Settings

The CTI (Computer Telephony Integration) Gateway application provides connectivity between Cisco Unified Communications Manager (CUCM) and soft clients that provide Click-to-Dial/Phone control-type services. You can configure the CTI Gateway application to connect up to a maximum of eight CUCM servers.

Application Status*	<input type="text" value="On"/>
Application Username	<input type="text" value="CTIGW"/>
Application Password	<input type="password" value="....."/>
Confirm Password	<input type="password" value="....."/>
Heartbeat Interval (seconds)*	<input type="text" value="8"/>
Session Timer (seconds)*	<input type="text" value="1810"/>
Cisco Unified Communications Manager Address (1 of 8)	<input type="text" value="172.20.239.241"/>
Cisco Unified Communications Manager Address (2 of 8)	<input type="text"/>
Cisco Unified Communications Manager Address (3 of 8)	<input type="text"/>
Cisco Unified Communications Manager Address (4 of 8)	<input type="text"/>
Cisco Unified Communications Manager Address (5 of 8)	<input type="text"/>
Cisco Unified Communications Manager Address (6 of 8)	<input type="text"/>
Cisco Unified Communications Manager Address (7 of 8)	<input type="text"/>
Cisco Unified Communications Manager Address (8 of 8)	<input type="text"/>

*- indicates required item.



MOC Assignments

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Find and List MOC Assignments

Status
Records found: 6

Microsoft Office Communicator Usage
6 MOC users assigned


Licensed Cisco Unified Presence Users (1 - 6 of 6) Rows per Page 50 ▾

Find Licensed Cisco Unified Presence Users where User ID ▾ begins with ▾

<input type="checkbox"/>	User ID ^	Last Name	Manager	Department	MOC Enabled
<input type="checkbox"/>	MOC1	OCSP00L10			✓
<input type="checkbox"/>	MOC11	OCSP00L11			✓
<input type="checkbox"/>	MOC12	OCSP00L11			✓
<input type="checkbox"/>	MOC2	OCSP00L10			✓
<input type="checkbox"/>	OCSTEST5	OCSP00L10			✓
<input type="checkbox"/>	OCSTEST6	OCSP00L10			✓



AXL Information

 **Cisco Unified Presence Administration**
For Cisco Unified Communications Solutions


Navigation


[ccmadministrator](#) | [About](#) | [What's New](#) | [Logout](#)

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Sync Agent AXL Configuration

Status

 Status: Ready


 **AXL Credential Information**

Configure the Cisco Unified Presence Sync Agent credentials. The Sync Agent is responsible for synchronizing the Cisco Unified Presence server with the associated Cisco Unified Communications Manager publisher server. The AXL username/password **must** match the configured AXL username/password on the associated Cisco Unified Communications Manager publisher for the Sync Agent to work properly.

AXL Username*

AXL Password*

Confirm Password*

 *- indicates required item.



Privacy ACL Entry (Allowed Destination Host)

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Find and List Allowed Destination Hosts

Status
 Records found: 4

Outgoing ACL Entry (1 - 4 of 4)

Rows per Page: 50

Find Outgoing ACL Entry where Address Pattern ▾ begins with ▾

<input type="checkbox"/>	Address Pattern ^	Description
<input type="checkbox"/>	172.20.239.240	Domain Controller
<input type="checkbox"/>	172.20.239.243	Pool10
<input type="checkbox"/>	172.20.239.245	Pool11
<input type="checkbox"/>	pbxocs.com	OCS domain



Proxy ACL Entry (Allowed Incoming Host)

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Find and List Allowed Incoming Hosts

Status
 Records found: 5

Incoming ACL Entry (1 - 5 of 5) Rows per Page: 50 ▾

Find Incoming ACL Entry where Address Pattern ▾ begins with ▾

<input type="checkbox"/>	Address Pattern ^	Description
<input type="checkbox"/>	172.20.239.240	Domain controller
<input type="checkbox"/>	172.20.239.243	Pool10
<input type="checkbox"/>	172.20.239.245	Pool11
<input type="checkbox"/>	64.102.17.208	test
<input type="checkbox"/>	pbxocs.com	OCS domain



IP Phone Messenger Setting

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IP Phone Messenger Settings

Status

Status: Ready

IP Phone Messenger Application Settings

The IP Phone Messenger (IPPM) application enables your Cisco Unified IP phone to receive, send, and reply to instant messages. When configuring this application the IPPM application username/password **must** match the configured application username/password on Cisco Unified Communications Manager for IPPM to work properly.

IPPM Application Status*	<input type="text" value="On"/>
Application Username	<input type="text" value="PhoneMessenger"/>
Application Password	<input type="password" value="....."/>
Confirm Password	<input type="password" value="....."/>
Max Contact List Size*	<input type="text" value="100"/>
Max Instant Message History Size*	<input type="text" value="25"/>
Subscription timeout (seconds)*	<input type="text" value="3600"/>
Publish timeout (seconds)*	<input type="text" value="3600"/>

*- indicates required item.



IP Phone Messenger User

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Find and List IP Phone Messenger Users

Status
 Records found: 6

IP Phone Messenger Status (1 - 6 of 6)

Rows per Page: 50

Find IP Phone Messenger Status where: User-ID ▾ begins with ▾

<input type="checkbox"/>	User-ID ^	First Name	Last Name	Manager	Department	Login Status
<input type="checkbox"/>	MOC1	MOC1	OCSPPOOL10			
<input type="checkbox"/>	MOC11	MOC11	OCSPPOOL11			
<input type="checkbox"/>	MOC12	MOC12	OCSPPOOL11			
<input type="checkbox"/>	MOC2	MOC2	OCSPPOOL10			
<input type="checkbox"/>	OCSTEST5	OCSTEST5	OCSPPOOL10			
<input type="checkbox"/>	OCSTEST6	OCSTEST6	OCSPPOOL10			

Message:



Acronyms

CSTA	Computer-Supported Telecommunications Applications
CUCM	Cisco Unified Communication Manager
CTI	Computer Telephony Interface
CUP	Cisco Unified Presence
DND	Do-Not-Disturb
DTMF	Dual Tone MultiFrequency
DTP	DeskTop Phone
GUI	Graphical User Interface
IETF	Internet Engineering Task Force
IM	Instant Messaging
IPPM	Internet Protocol Phone Messenger
MS OCS	Microsoft Office Communication Server
MCS	Multimedia Communication Server
MSN	Microsoft Network
MPOP	Multiple Point Of Presence
SCCP	Skinnny Protocol
SIMPLE	SIP Instant Messaging and Presence Levering Extensions
SIP	Session Initiation Protocol
SNMP	Simple Network Management Protocol
TCP	Transmission Control Protocol
TLS	Transport Layer Security
XML	Extensible Markup Language
MOC	Microsoft Office Communicator
QoS	Quality of Service
GW	Gateway
S/W	Software
QBE	Quick Buffer Encoding, Protocol
DB	Database



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