



# Microsoft Live Communication Server 2005 Enterprise Edition with SP1 using CSTA over SIP to Cisco Unified CallManager 5.0(4) and Cisco Unified Presence 1.0(3)

Dec 15, 2007

## Table of Contents

|   |    |
|---|----|
| Network Topology.....   | 3  |
| Limitations.....  | 4  |
| System Components .....   | 4  |
| Hardware Requirements .....                                     | 4  |
| Software Requirements .....                                     | 5  |
| Features .....  | 5  |
| Configuration.....  | 7  |
| Configuration Sequence and Tasks .....                          | 7  |
| Configuration Menus and Commands .....                          | 8  |
| Cisco Content Switch CSS11501 Load Balancer Configuration ..... | 68 |
| Acronyms .....  | 88 |

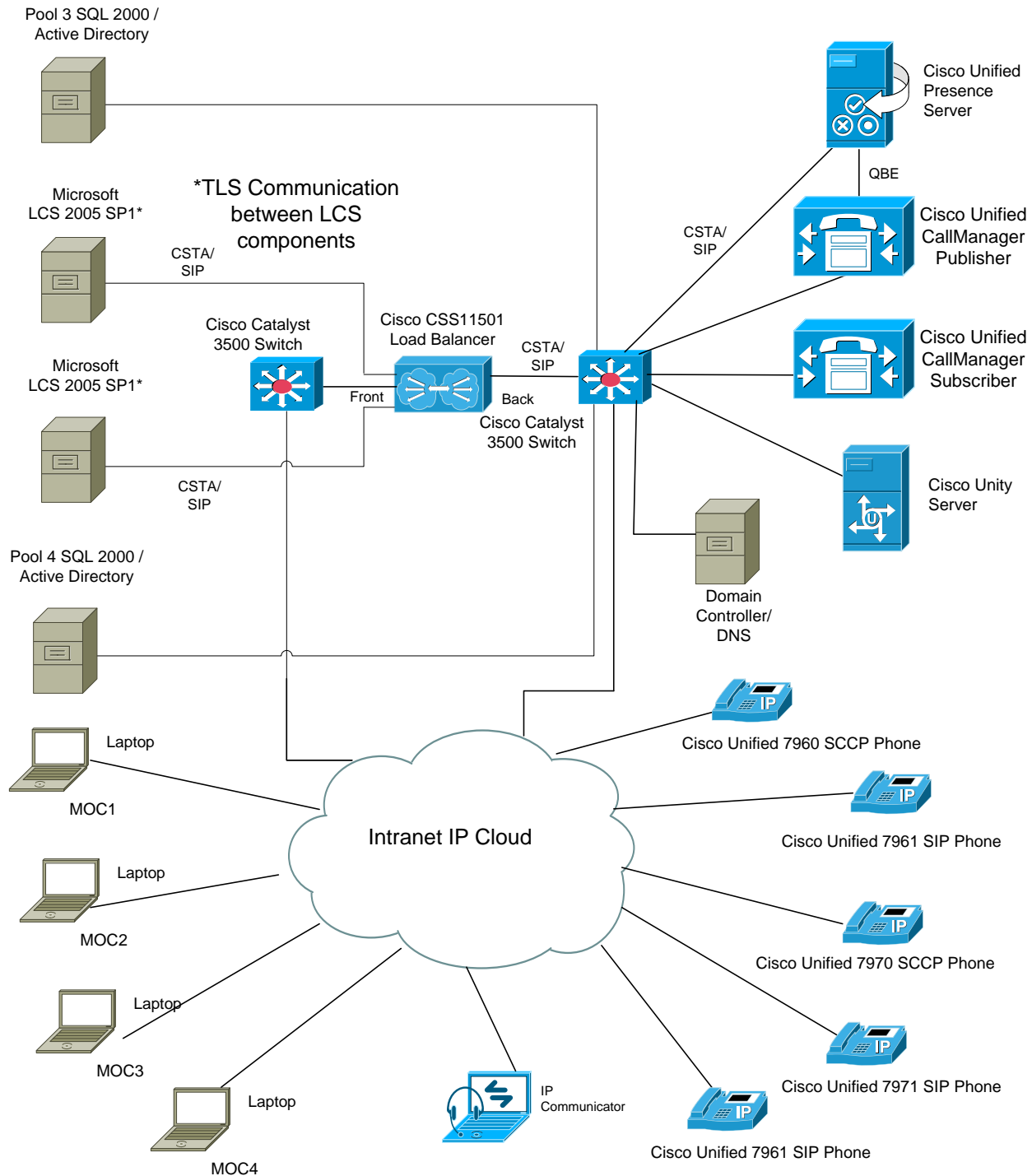


## Introduction

- This document was jointly put together by Cisco Systems, Inc. and Microsoft to show feature interoperability and to document the steps and configurations necessary for Cisco Unified CallManager 5.0 and Cisco Unified Presence (CUPS) 1.0(3) to interoperate with the Microsoft Live Communication Server (LCS) 2005 Enterprise Edition SP1. These features include Microsoft Office Communicator (MOC) features, Desktop (DTP) or IP Phone features, Cisco Unified CallManager administration, configuration and provisioning and CUPS 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 Cisco Unified CallManager, CUPS and LCS. 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 CUPS and the LCS using multiple LCS pools with a Cisco CSS1501load balancer front-ended to the CUPS.

## Network Topology

**Figure 1.** Basic Call Setup





## Limitations

- **Multiple Point of Presence (MPOP):** As of the CUPS release 1.0(3), the MPOP feature where a MOC user is logged in from more than one location is not supported by CUPS. Support for this feature affects other interoperability features between the Cisco CUPS and the Microsoft LCS. 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.
- **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 LCS, 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 a MOC user enters the digits in a relatively fast manner. Some digits may be dropped during the communication signaling between the CUPS and CCM. As a result, user may experience invalid entry when interacting with devices such as voicemails and IVR systems.
- **Shared Lines:** There are potential unwanted interactions that may occur in shared line scenarios. The CUPS 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 CUPS integration. Thus, any MOC client with DND feature enabled, will still have any received call routed to its controlled DTP.
- **Transport Layer Security (TLS) connection between CUPS and LCS:** With TLS enabled between CUPS and LCS server, MOC user is unable to exercise CTI control with hardware loadbalancer installed.

## System Components

### Hardware Requirements

- Cisco hardware including interface card
  - a. Linux Servers
    - i. Cisco Unified Presence (MCS 7825H)
    - ii. Cisco Unified CallManager (MCS 7845H)
  - b. Cisco Catalyst 3560



- c. Cisco Load Balancer CSS11501
- d. 1 Cisco 7960 IP Phones (SCCP)
- e. 2 Cisco 7961 IP Phones (SIP)
- f. 1 Cisco 7970 IP Phone with CUVA (SCCP)
- g. 1 Cisco 7971 IP Phone with CUVA (SIP)
- h. 2 Cisco Unified Video Advantage Cameras
- Micorsoft hardware including interface card
  - a. LCS 2005 Enterprise Edition with SP1 - MCS 7825H - Windows Server 2003 Enterprise, R2 (32 Bit)
  - b. Windows Active Directory Node also serves as DNS for LCS - 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
- Notebooks for additional MOC Clients running on Windows XP Professional with SP1

### Software Requirements

- Cisco Unified CallManager 5.0.4.2000-1
- Cisco Unfied Presence 1.0.3.1000-8
- Cisco IOS Release or Cisco CatOS Release (for the gateway)
- Cisco Content Switch CSS11501 IOS Version: sg0810106 (08.10.1.06)
- Microsoft Live Communication Server 2005 Enterprise Edition SP1

### Features

- MOC Features
  - Basic Call Placement / Clearing
  - Reverse Number Lookup
  - Basic Call Forwarding
    - New Number
    - Phone Settings
    - Location-based – please refer to Limitations section
  - Hold / Retrieval of Call
  - Call Transfer



- Unannounced or Blind
- Announced or Consultation
- Call Conference
  - Call Conference Establishment
  - Call Conference to Busy Number
  - Call Conference to Party with No Answer
  - Call Conference to Party set to forward all calls to VoiceMail
  - Desktop or IP Phone Initiated Single Step Transfer of Conference Call
  - DTMF Digits – please refer to Limitations Section
  - Consultation Calls
  - Alternate Call – Call Waiting
  - Alternate Call – Held Call
  - Deflect Call
  - Call per Line Limit
- Desktop (DTP) Features
  - Basic Call Placement / Clearing
  - Call Transfers
    - Unannounced or Blind
    - Announced or Consultation
  - Call Conference
- Cisco Unified CallManager Administration, Configuration and Provisioning
  - Adding Dial Rules
  - Deleting Dial Rules
  - Changing Dial Rules
  - Prefix Dial Rules
- Cisco Unified Presence (CUPS) Device Identification
  - Shared Lines
    - 2 Phone Devices
    - 1 Phone Device and 1 Cisco IP Communicator
- CUPS Features
  - Extension Mobility



## 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/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](http://www.cisco.com/en/US/partner/products/ps6837/tsd_products_support_integrated_systems_documentation_list.html)

### Configuration Sequence and Tasks

#### A. Cisco Unified CallManager Configuration

1. Cisco Unified CallManager 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 Dial Rules
10. Configure the Conference Bridge
11. Configure the Meet-Me Number

#### B. Cisco Unified Presence (CUPS) Configuration

1. CUPS Version
2. Configure the CUPS Method / Event – Based Routing
3. Configure the Unified CallManager 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. Cisco Content Switch CSS11501 Load Balancer Configuration

#### D. LCS 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



## Configuration Menus and Commands

### Cisco Unified CallManager Configuration

### Cisco Unified CallManager Version

Navigation


Cisco Unified CallManager Administration

Go

Cisco Unified CallManager Administration For Cisco Unified Communications Solutions

Logged in as:CCMAdministrator

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



## Cisco Unified CallManager Administration

System version: 5.0.4.2000-1  
Administration version: 1.1.0.0-1

Copyright © 1999 - 2006 Cisco Systems, Inc.  
All rights reserved.

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 summary of U.S. laws governing Cisco cryptographic products may be found at: <http://www.cisco.com/www/export/crypto/tool/stqrg.html>.  
If you require further assistance please contact us by sending email to [export@cisco.com](mailto:export@cisco.com).





## SIP Trunk

Navigation

Cisco Unified CallManager Administration

Go

Cisco Unified CallManager Administration

For Cisco Unified Communications Solutions

Logged in as: CCMAdministrator

System

Call Routing

Media Resources

Voice Mail

Device

Application

User Management

Bulk Administration

Help

Log Off

Trunk Configuration

Related Links: Back To Find/List

Go

Status

Status: Ready

Device Information

Product:

SIP Trunk

Device Protocol:

SIP

Device Name\*

CUPS2-SIP-TRK

Description

Device Pool\*

Default

Call Classification\*

Use System Default

Media Resource Group List

< None >

Location\*

Hub\_None

AAR Group

< None >

Packet Capture Mode\*

None

Packet Capture Duration

0

☐ Media Termination Point Required

☒ Retry Video Call as Audio

☐ Transmit UTF-8 for Calling Party Name

☐ Unattended Port

Multilevel Precedence and Preemption (MLPP) Information



|   |                         |
|---|-------------------------|
| <b>Multilevel Precedence and Preemption (MLPP) Information</b>            |                         |
| MLPP Domain   | < None >                |
| <b>Call Routing Information</b>   |                         |
| <b>Inbound Calls</b>  |                         |
| Significant Digits*   | All                     |
| Connected Line ID Presentation*   | Default                 |
| Connected Name Presentation*  | Default                 |
| Calling Search Space  | < None >                |
| AAR Calling Search Space  | < None >                |
| Prefix DN   |                         |
| <input type="checkbox"/> Redirecting Diversion Header Delivery - Inbound  |                         |
| <b>Outbound Calls</b>   |                         |
| Calling Party Selection*  | Originator              |
| Calling Line ID Presentation*   | Default                 |
| Calling Name Presentation*  | Default                 |
| Caller ID DN  |                         |
| Caller Name   |                         |
| <input type="checkbox"/> Redirecting Diversion Header Delivery - Outbound |                         |
| <b>SIP Information</b>  |                         |
| Destination Address*  | EPAS2.pbxlab.org        |
| <input checked="" type="checkbox"/> Destination Address is an SRV         |                         |
| Destination Port*   | 0                       |
| MTP Preferred Originating Codec*  | 711ulaw                 |
| Presence Group*   | Standard Presence group |
| MTP Transcoding Profile*  |                         |



| Outbound Calls  |            |
|---|------------|
| Calling Party Selection*  | Originator |
| Calling Line ID Presentation*   | Default    |
| Calling Name Presentation*  | Default    |
| Caller ID DN  |            |
| Caller Name   |            |
| <input type="checkbox"/> Redirecting Diversion Header Delivery - Outbound |            |

| SIP Information  |                              |
|--|------------------------------|
| Destination Address*   | EPAS2.pbxmlab.org            |
| <input checked="" type="checkbox"/> Destination Address is an SRV<br>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                |

\*- indicates required item.

\*\*- Device reset is not required for changes to Packet Capture Mode and Packet Capture Duration.



## Cisco IP Phone Configuration

### 7960 SCCP Phone

NavigationCisco Unified CallManager AdministrationGo

Cisco Unified CallManager AdministrationFor Cisco Unified Communications SolutionsLogged in as: CCMAdministrator

SystemCall RoutingMedia ResourcesVoice MailDeviceApplicationUser ManagementBulk AdministrationHelpLog Off

Phone ConfigurationRelated Links: Back To Find/ListGo

StatusStatus: Ready

Association Information

Modify Button Items

1796Line [1] - 41015 (no partition)

2796Line [2] - Add a new DN

3Add a new SD

4Add a new SD

5Add a new SD

6Add a new SD

----- Unassigned Associated Items -----

7Add a new SD

8Add a new SURF

9Add a new BLF SD

10 Privacy

11 None

Phone Type

Product Type: Cisco 7960

Device Protocol: SCCP

Device Information

RegistrationRegistered with Cisco Unified CallManager CM-CLUSTER1-S

IP Address172.20.201.118

MAC Address\*0011219E5721

Description41015-7960SCCP

Device Pool\*Default

Phone Button Template\*Standard 7960 SCCP

Softkey TemplateStandard User

Common Phone Profile\*Standard Common Phone Profile

Calling Search Space< None >

AAR Calling Search Space< None >

Media Resource Group ListCCM\_MRGL

User Hold MOH Audio Source< None >

Network Hold MOH Audio Source< None >

© 2007 Cisco Systems, Inc. All rights reserved.  
Important notices, privacy statements, and trademarks of Cisco Systems, Inc. can be found on [cisco.com](http://cisco.com)  
Page 12 of 90



|   |   |
|---|---|
| Network Hold MOH Audio Source   | < None >                                      |
| Location*   | Hub_None                                      |
| User Locale   | English United States                         |
| Network Locale  | < None >                                      |
| Built In Bridge*  | Default                                       |
| Privacy*  | Default                                       |
| Owner User ID   | Pool4C  |
| Phone Load Name   |   |
| <input checked="" type="checkbox"/> Retry Video Call as Audio                 |   |
| <input type="checkbox"/> Ignore Presentation Indicators (internal calls only) |   |
| <input checked="" type="checkbox"/> Allow Control of Device from CTI          |   |
| <b>Protocol Specific Information</b>  |   |
| 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                                     |   |
| <b>Certification Authority Proxy Function (CAPF) Information</b>              |   |
| Certificate Operation*  | No Pending Operation                          |
| Authentication Mode*  | By Null String                                |
| Authentication String   |   |
| <input type="button" value="Generate String"/>                                |   |



| 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 1 13 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



| Extension Information  |  |
|--|--|
| <input checked="" type="checkbox"/> Enable Extension Mobility    |  |
| Log Out Profile  | -- Use Current Device Settings -- <span>Log Out</span> |
| Login in User ID Pool4C  |  |
| Log in Time Thursday, December 14, 2006 4:28:31 PM PST           |  |
| Log out Time < None >  |  |
| Note: User log out required to allow Extension Mobility changes. |  |

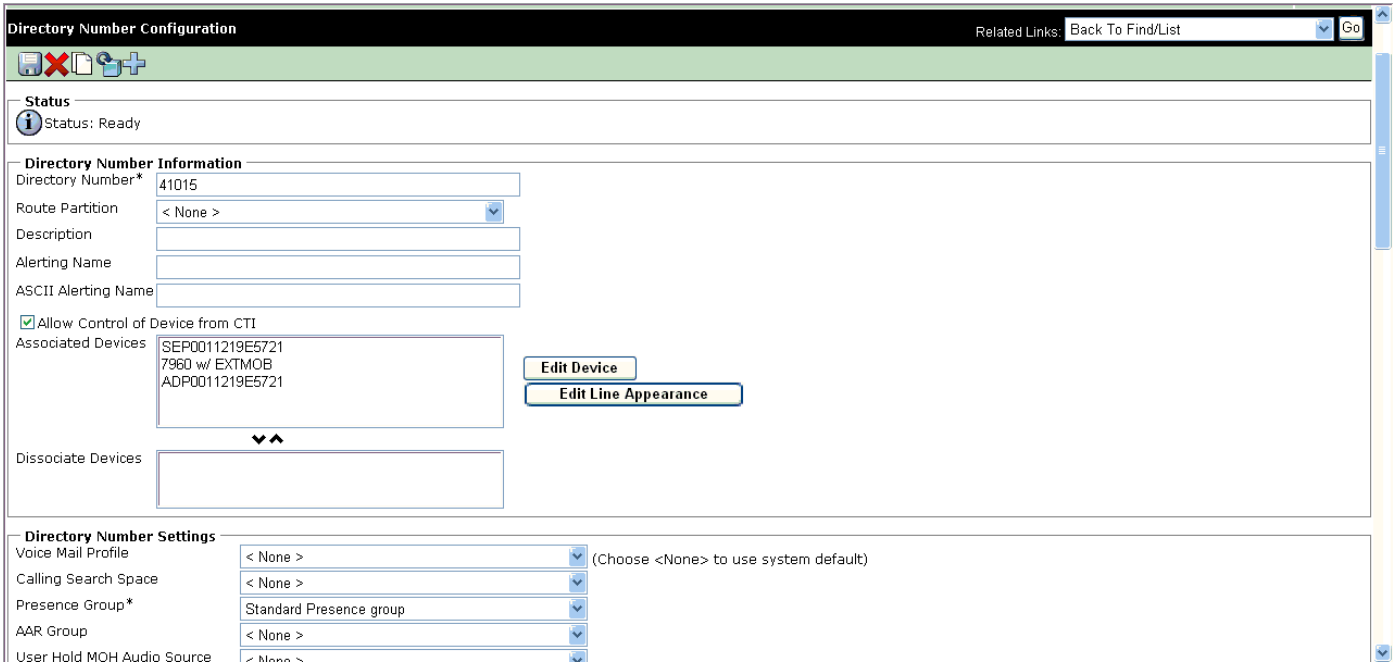
| MLPP Information |          |
|------------------|----------|
| MLPP Domain      | < None > |
| MLPP Indication* | Off      |
| MLPP Preemption* | Default  |

| 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*   | Disabled |
| Web Access*   | Enabled  |

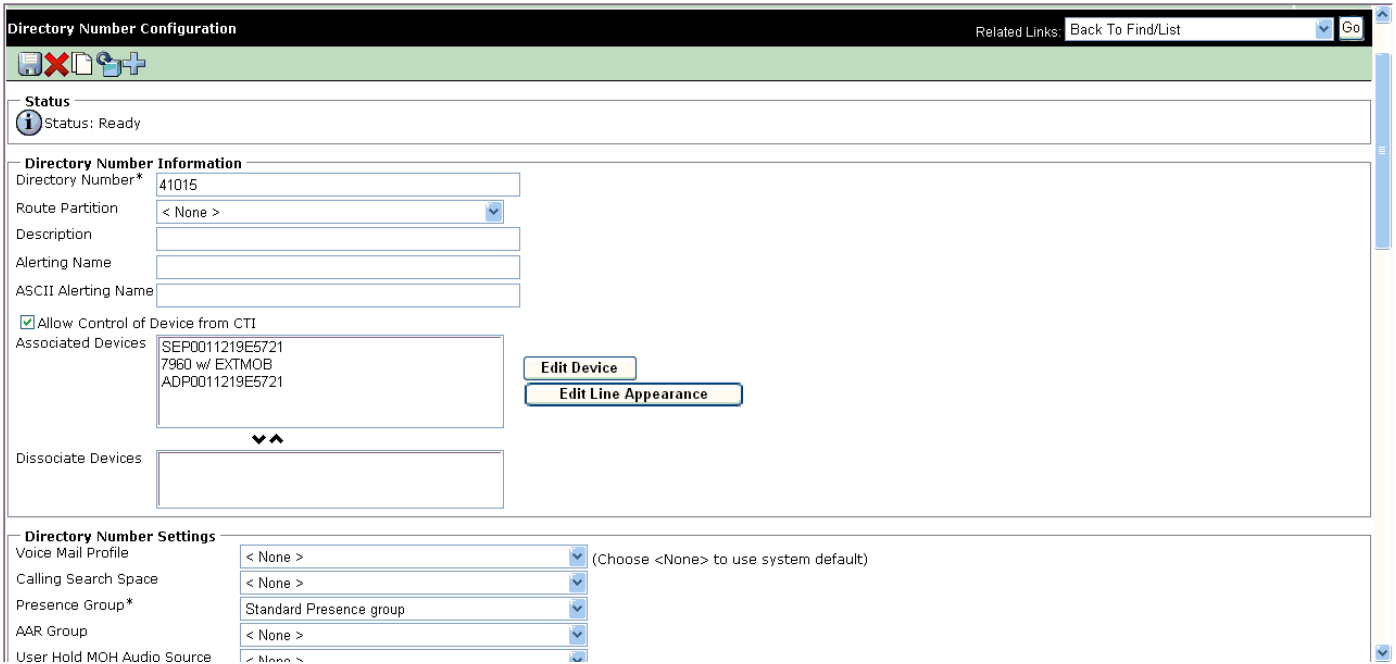
Save Delete Copy Reset Add New

\*- indicates required item.

\*\*-. Device reset is not required for changes to Packet Capture Mode and Packet Capture Duration.









Line 1 on Device SEP0011219E5721

| Value                              |   | Update Shared Device Settings |
|------------------------------------|---|-------------------------------|
| Display (Internal Caller ID)       | <input type="text" value="Pool3A"/> 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. | <input type="checkbox"/>      |
| ASCII Display (Internal Caller ID) | <input type="text" value="Pool3A"/>   | <input type="checkbox"/>      |
| Line Text Label                    | <input type="text" value="Pool3A"/>   | <input type="checkbox"/>      |
| ASCII Line Text Label              | <input type="text" value="Pool3A"/>   | <input type="checkbox"/>      |
| External Phone Number Mask         |   | <input type="checkbox"/>      |
| Message Waiting Lamp Policy*       | <input type="button" value="Use System Policy"/>  | <input type="checkbox"/>      |
| Ring Setting (Phone Idle)*         | <input type="button" value="Use System Default"/>   | <input type="checkbox"/>      |
| Ring Setting (Phone Active)        | <input type="button" value="Use System Default"/> Applies to this line when any line on the phone has a call in progress.   | <input type="checkbox"/>      |

Propagate Selected

Multiple Call/Call Waiting Settings on Device SEP0011219E5721

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 SEP0011219E5721

☒ Caller Name  
☐ Caller Number  
☐ Redirected Number  
☒ Dialed Number





SaveDeleteCopyResetAdd New




## 7970 SCCP Phone

Phone Configuration


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





Status


 Status: Ready


Association Information


1  [Line \[1\] - 41016 \(no partition\)](#)


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 Privacy

13 None

Phone Type

Product Type: Cisco 7970

Device Protocol: SCCP

Device Information

Registration

Registered with Cisco Unified CallManager CM-CLUSTER1-S

IP Address

[172.20.201.103](#)

MAC Address\*

00146A9C3C1F

Description

41016-7970SCCP

Device Pool\*

Default

Phone Button Template\*

Standard 7970 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

CCM\_MRGL

User Hold MOH Audio Source

< None >

Network Hold MOH Audio Source

< None >

Location\*

Hub\_None

User Locale

English United States

Network Locale

< None >

Built In Bridge\*

Default



|   |   |
|---|---|
| Built In Bridge*  | Default                                       |
| Privacy*  | Default                                       |
| Owner User ID   | < None >                                      |
| Phone Load Name   |   |
| <input checked="" type="checkbox"/> Retry Video Call as Audio                 |   |
| <input type="checkbox"/> Ignore Presentation Indicators (internal calls only) |   |
| <input checked="" type="checkbox"/> Allow Control of Device from CTI          |   |
| <b>Protocol Specific Information</b>  |   |
| Packet Capture Mode*  | None  |
| Packet Capture Duration   | 0   |
| Presence Group*   | Standard Presence group                       |
| Device Security Profile*  | Cisco 7970 - 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                                     |   |
| <b>Certification Authority Proxy Function (CAPF) Information</b>              |   |
| 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 1 13 12 (YYYY:MM:DD:HH)                  |
| Certificate Operation Status: None  |   |
| Note: Security Profile Contains Addition CAPF Settings.                       |   |



|   |                                   |
|---|-----------------------------------|
| <b>Expansion Module Information</b>                                     |                                   |
| Module 1  | < None >                          |
| Module 1 Load Name  |                                   |
| Module 2  | < None >                          |
| Module 2 Load Name  |                                   |
| <b>External Data Locations Information (Leave blank to use default)</b> |                                   |
| Information   |                                   |
| Directory   |                                   |
| Messages  |                                   |
| Services  |                                   |
| Authentication Server   |                                   |
| Proxy Server  |                                   |
| Idle  |                                   |
| Idle Timer (seconds)  |                                   |
| <b>Extension Information</b>  |                                   |
| <input checked="" type="checkbox"/> Enable Extension Mobility           |                                   |
| Log Out Profile   | -- Use Current Device Settings -- |
| Login in User ID  | < None >                          |
| Log in Time   | < None >                          |
| Log out Time  | < None >                          |
| <b>MLPP Information</b>   |                                   |
| MLPP Domain   | < None >                          |
| MLPP Indication*  | Default                           |
| MLPP Preemption*  | Default                           |



| Secure Shell Information |                          |
|--------------------------|--------------------------|
| Secure Shell User        | <input type="text"/>     |
| Secure Shell Password    | <input type="password"/> |

| Product Specific Configuration Layout                     |  |
|---|--|
| <input type="checkbox"/> Disable Speakerphone             |  |
| <input type="checkbox"/> Disable Speakerphone and Headset |  |
| PC Port *   | <input type="text" value="Enabled"/>   |
| Settings Access*  | <input type="text" value="Enabled"/>   |
| Gratuitous ARP*   | <input type="text" value="Enabled"/>   |
| PC Voice VLAN Access*                                     | <input type="text" value="Enabled"/>   |
| Video Capabilities*                                       | <input type="text" value="Enabled"/>   |
| Auto Line Select*   | <input type="text" value="Disabled"/>  |
| Web Access*   | <input type="text" value="Enabled"/>   |
| Days Display Not Active                                   | <input type="text" value="Sunday"/><br><input type="text" value="Monday"/><br><input type="text" value="Tuesday"/> |
| Display On Time   | <input type="text" value="07:30"/>   |
| Display On Duration                                       | <input type="text" value="10:30"/>   |
| Display Idle Timeout                                      | <input type="text" value="01:00"/>   |
| Span to PC Port*  | <input type="text" value="Disabled"/>  |
| Logging Display *   | <input type="text" value="PC Controlled"/>   |
| Load Server   | <input type="text"/>   |



**Directory Number Configuration**

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

**Status**

Status: Ready

**Directory Number Information**

Directory Number\*

Route Partition

Description

Alerting Name

ASCII Alerting Name

☒ Allow Control of Device from CTI

Associated Devices 

SEP00146A9C3C1F

7970 w/ EXTMOB

ADP00146A9C3C1F

[Edit Device](#)  
[Edit Line Appearance](#)

▼ ▲

Dissociate Devices

**Directory Number Settings**

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

Calling Search Space

Presence Group\*

AAR Group

User Hold MOH Audio Source



|  |                             |   |                               |
|--|-----------------------------|---|-------------------------------|
| Network Hold MOH Audio Source                  | < None >                    |   |                               |
| Auto Answer*                                   | Auto Answer Off             |   |                               |
| <b>Call Forward and Call Pickup Settings</b>   |                             |   |                               |
|  | Voice Mail                  | Destination   | Calling Search Space          |
| Forward All                                    | <input type="checkbox"/> or |   | < None >                      |
| Secondary Calling Search Space for Forward All |                             |   | < None >                      |
| Forward Busy Internal                          | <input type="checkbox"/> or |   | < None >                      |
| Forward Busy External                          | <input type="checkbox"/> or |   | < None >                      |
| Forward No Answer Internal                     | <input type="checkbox"/> or |   | < None >                      |
| Forward No Answer External                     | <input type="checkbox"/> or |   | < None >                      |
| Forward No Coverage Internal                   | <input type="checkbox"/> or |   | < None >                      |
| Forward No Coverage External                   | <input type="checkbox"/> or |   | < None >                      |
| Forward on CTI Failure                         | <input type="checkbox"/> or |   | < None >                      |
| No Answer Ring Duration (seconds)              |                             |   |                               |
| Call Pickup Group                              | < None >                    |   |                               |
| <b>MLPP Alternate Party Settings</b>           |                             |   |                               |
| Target (Destination)                           |                             |   |                               |
| MLPP Calling Search Space                      | < None >                    |   |                               |
| MLPP No Answer Ring Duration (seconds)         |                             |   |                               |
| <b>Line 1 on Device SEP00146A9C3C1F</b>        |                             |   |                               |
|  | Value                       |   | Update Shared Device Settings |
| Display (Internal Caller ID)                   | Pool3C                      | 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. | <input type="checkbox"/>      |
| ASCII Display                                  | Pool3C                      |   | <input type="checkbox"/>      |





Line 1 on Device SEP00146A9C3C1F

|                                    | Value   |   | Update Shared Device Settings |
|------------------------------------|---|---|-------------------------------|
| Display (Internal Caller ID)       | <input type="text" value="Pool3C"/>               | 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. | <input type="checkbox"/>      |
| ASCII Display (Internal Caller ID) | <input type="text" value="Pool3C"/>               |   | <input type="checkbox"/>      |
| Line Text Label                    | <input type="text" value="Pool3C"/>               |   | <input type="checkbox"/>      |
| ASCII Line Text Label              | <input type="text" value="Pool3C"/>               |   | <input type="checkbox"/>      |
| External Phone Number Mask         | <input type="text" value=""/>                     |   | <input type="checkbox"/>      |
| Message Waiting Lamp Policy*       | <input type="button" value="Use System Policy"/>  |   | <input type="checkbox"/>      |
| Ring Setting (Phone Idle)*         | <input type="button" value="Use System Default"/> |   | <input type="checkbox"/>      |
| Ring Setting (Phone Active)        | <input type="button" value="Use System Default"/> | Applies to this line when any line on the phone has a call in progress.   | <input type="checkbox"/>      |

Propagate Selected

Multiple Call/Call Waiting Settings on Device SEP00146A9C3C1F

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 SEP00146A9C3C1F

☒ Caller Name

☒ Caller Number

☒ Redirected Number

☒ Dialed Number

Save

Delete

Copy

Reset

Add New



## 7961 SIP Phone

**Phone Configuration**

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

**Status**  
 Status: Ready

**Association Information**

1 [Line \[1\] - 41012 \(no partition\)](#)

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 SURF](#)

9 [Add a new BLF SD](#)

10 Privacy

11 None

**Phone Type**  
**Product Type:** Cisco 7961  
**Device Protocol:** SIP

**Device Information**

RegistrationRegistered with Cisco Unified CallManager CM-CLUSTER1-S

IP Address[172.20.201.101](#)

MAC Address\*[00170EEE3394](#)

Description41012-7961 SIP Pool3

Device Pool\*Default

Phone Button Template\*Standard 7961 SIP

Softkey TemplateStandard User

Common Phone Profile\*Standard Common Phone Profile

Calling Search Space< None >

AAR Calling Search Space< None >

Media Resource Group ListCCM\_MRGL

User Hold MOH Audio Source< None >

Network Hold MOH Audio Source< None >

Location\*Hub\_None

User Locale< None >

Network Locale< None >

Built In Bridge\*Default

© 2007 Cisco Systems, Inc. All rights reserved.  
Important notices, privacy statements, and trademarks of Cisco Systems, Inc. can be found on [cisco.com](#)  
Page 26 of 90



|   |  |
|---|--|
| Built In Bridge*  | Default                                      |
| Privacy*  | Default                                      |
| Owner User ID   | < None >                                     |
| Phone Load Name   |  |
| <input type="checkbox"/> Ignore Presentation Indicators (internal calls only) |  |
| <input checked="" type="checkbox"/> Allow Control of Device from CTI          |  |
| <b>Protocol Specific Information</b>  |  |
| 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   | < None >                                     |
| <input type="checkbox"/> Media Termination Point Required                     |  |
| <input type="checkbox"/> Unattended Port                                      |  |
| <input type="checkbox"/> Require DTMF Reception                               |  |
| <b>Certification Authority Proxy Function (CAPF) Information</b>              |  |
| Certificate Operation*  | No Pending Operation                         |
| Authentication Mode*  | By Null String                               |
| Authentication String   |  |
| <a href="#">Generate String</a>   |  |



|  |  |
|--|--|
| <div>Generate String</div> <div>Key Size (Bits)*<br/>1024</div> <div>Operation Completes By<br/>2007 1 13 12 (YYYY:MM:DD:HH)</div> <div>Certificate Operation Status: None<br/>Note: Security Profile Contains Addition CAPF Settings.</div>                       |  |
| <div>External Data Locations Information (Leave blank to use default)</div> <div>Information<br/>Directory<br/>Messages<br/>Services<br/>Authentication Server<br/>Proxy Server<br/>Idle<br/>Idle Timer (seconds)</div>  |  |
| <div>Extension Information</div> <div><input checked="" type="checkbox"/> Enable Extension Mobility<br/>Log Out Profile -- Use Current Device Settings --<br/>Login in User ID &lt; None &gt;<br/>Log in Time &lt; None &gt;<br/>Log out Time &lt; None &gt;</div> |  |
| <div>MLPP Information</div> <div>MLPP Domain &lt; None &gt;</div>  |  |
| <div>Secure Shell Information</div> <div>Secure Shell User<br/>Secure Shell Password</div>   |  |



MLPP Domain

< None >

Secure Shell Information

Secure Shell User

Secure Shell Password

Product Specific Configuration Layout

☐ Disable Speakerphone

☐ Disable Speakerphone and Headset

PC Port \*

Enabled

Settings Access\*

Enabled

Gratuitous ARP\*

Enabled

PC Voice VLAN Access\*

Enabled

Video Capabilities\*

Disabled

Auto Line Select\*

Disabled

Web Access\*

Enabled

Span to PC Port\*

Disabled

Logging Display\*

PC Controlled

Load Server

Save

Delete

Copy

Reset

Add New

i

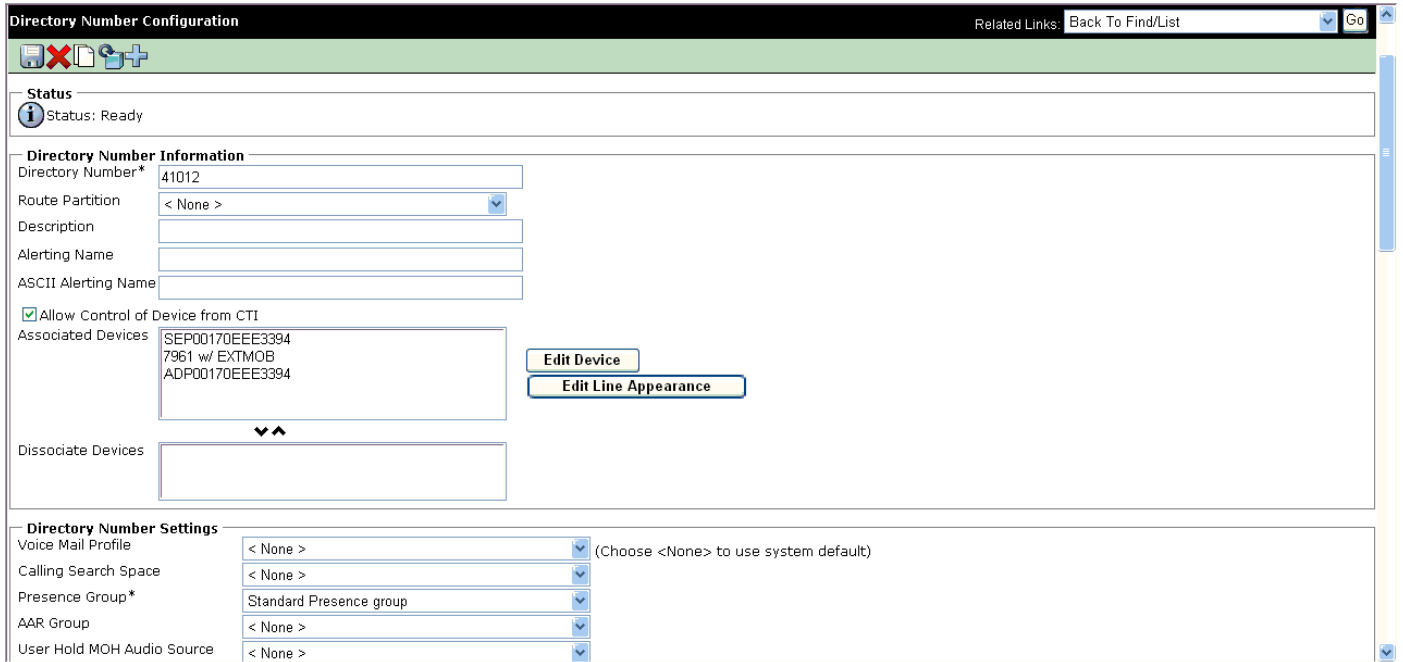
\*- indicates required item.

i

\*\* - Device reset is not required for changes to Packet Capture Mode and Packet Capture Duration.

i

\*\*\*Note: Security Profile Contains Addition CAPF Settings.





|  |                             |   |                               |
|--|-----------------------------|---|-------------------------------|
| Network Hold MOH Audio Source                  | < None >                    |   |                               |
| Auto Answer*                                   | Auto Answer Off             |   |                               |
| <b>Call Forward and Call Pickup Settings</b>   |                             |   |                               |
|  | Voice Mail                  | Destination   | Calling Search Space          |
| Forward All                                    | <input type="checkbox"/> or |   | < None >                      |
| Secondary Calling Search Space for Forward All |                             |   | < None >                      |
| Forward Busy Internal                          | <input type="checkbox"/> or |   | < None >                      |
| Forward Busy External                          | <input type="checkbox"/> or |   | < None >                      |
| Forward No Answer Internal                     | <input type="checkbox"/> or |   | < None >                      |
| Forward No Answer External                     | <input type="checkbox"/> or |   | < None >                      |
| Forward No Coverage Internal                   | <input type="checkbox"/> or |   | < None >                      |
| Forward No Coverage External                   | <input type="checkbox"/> or |   | < None >                      |
| Forward on CTI Failure                         | <input type="checkbox"/> or |   | < None >                      |
| No Answer Ring Duration (seconds)              |                             |   |                               |
| Call Pickup Group                              | < None >                    |   |                               |
| <b>MLPP Alternate Party Settings</b>           |                             |   |                               |
| Target (Destination)                           |                             |   |                               |
| MLPP Calling Search Space                      | < None >                    |   |                               |
| MLPP No Answer Ring Duration (seconds)         |                             |   |                               |
| <b>Line 1 on Device SEP00170EEE3394</b>        |                             |   |                               |
|  | Value                       |   | Update Shared Device Settings |
| Display (Internal Caller ID)                   | Pool3B                      | 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. | <input type="checkbox"/>      |
| ASCII Display                                  | Pool3B                      |   | <input type="checkbox"/>      |



| Line 1 on Device SEP00170EEE3394   |   | Update Shared Device Settings                     |
|------------------------------------|---|---|
| Display (Internal Caller ID)       | Pool3B<br>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. | <input type="checkbox"/>                          |
| ASCII Display (Internal Caller ID) | Pool3B  | <input type="checkbox"/>                          |
| Line Text Label                    | Pool3B  | <input type="checkbox"/>                          |
| ASCII Line Text Label              | Pool3B  | <input type="checkbox"/>                          |
| External Phone Number Mask         |   | <input type="checkbox"/>                          |
| Message Waiting Lamp Policy*       | Use System Policy   | <input type="checkbox"/>                          |
| Ring Setting (Phone Idle)*         | Use System Default  | <input type="checkbox"/>                          |
| Ring Setting (Phone Active)        | Use System Default<br>Applies to this line when any line on the phone has a call in progress.   | <input type="checkbox"/>                          |
|                                    |   | <input type="button" value="Propagate Selected"/> |

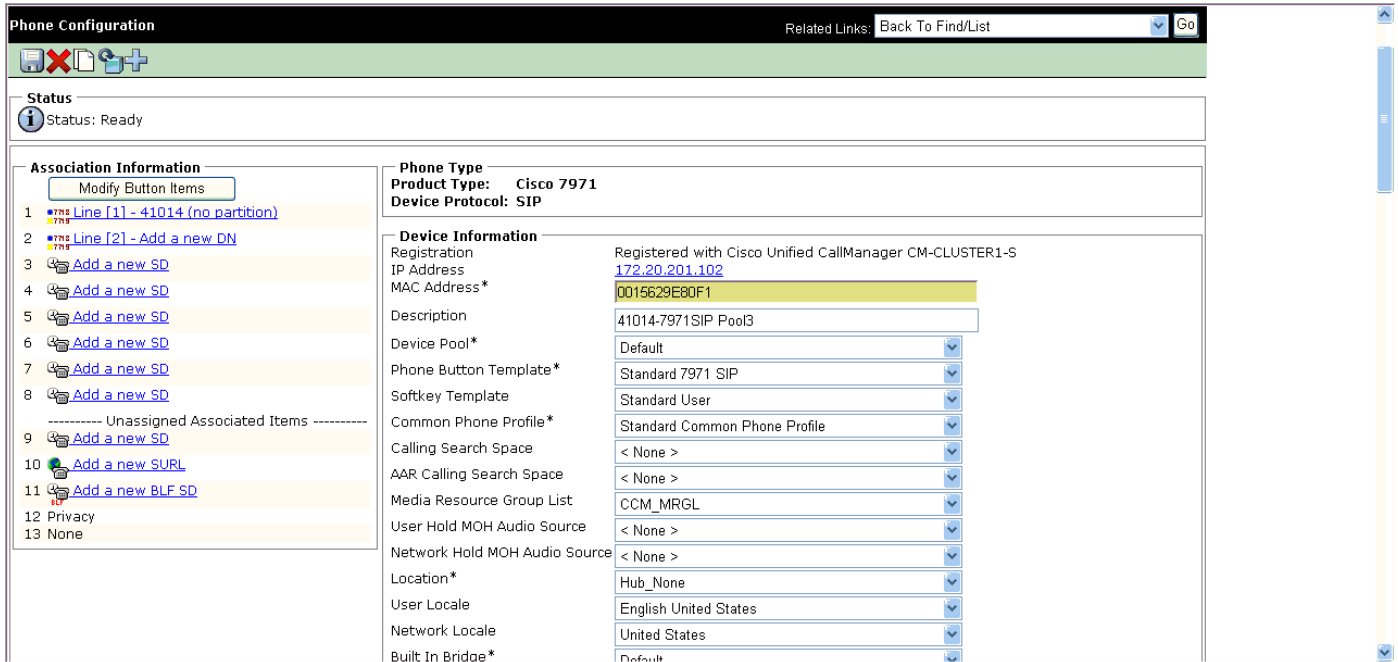
  

**Multiple Call/Call Waiting Settings on Device SEP00170EEE3394**  
 Note: The range to select the Max Number of calls is: 1-200  
 Maximum Number of Calls\*   
 Busy Trigger\*  (Less than or equal to Max. Calls)

**Forwarded Call Information Display on Device SEP00170EEE3394**  
☒ Caller Name  
☒ Caller Number  
☒ Redirected Number  
☒ Dialed Number







|   |  |
|---|--|
| Privacy*  | Default                                      |
| Owner User ID   | < None >                                     |
| Phone Load Name   |  |
| <input type="checkbox"/> Ignore Presentation Indicators (internal calls only) |  |
| <input checked="" type="checkbox"/> Allow Control of Device from CTI          |  |
| <b>Protocol Specific Information</b>  |  |
| Packet Capture Mode*  | None   |
| Packet Capture Duration   | 0  |
| Presence Group*   | Standard Presence group                      |
| SIP Dial Rules  | < None >                                     |
| MTP Preferred Originating Codec*  | 711 ulaw                                     |
| 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   | < None >                                     |
| <input type="checkbox"/> Media Termination Point Required                     |  |
| <input type="checkbox"/> Unattended Port                                      |  |
| <input type="checkbox"/> Require DTMF Reception                               |  |
| <b>Certification Authority Proxy Function (CAPF) Information</b>              |  |
| 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 <input type="text" value="2007"/> <input type="text" value="1"/> <input type="text" value="13"/> <input type="text" value="12"/> (YYYY:MM:DD:HH) |  |
| Certificate Operation Status: None<br>Note: Security Profile Contains Addition CAPF Settings.   |  |
| <b>External Data Locations Information (Leave blank to use default)</b>   |  |
| Information   | <input type="text"/>   |
| Directory   | <input type="text"/>   |
| Messages  | <input type="text"/>   |
| Services  | <input type="text"/>   |
| Authentication Server   | <input type="text"/>   |
| Proxy Server  | <input type="text"/>   |
| Idle  | <input type="text"/>   |
| Idle Timer (seconds)  | <input type="text"/>   |
| <b>Extension Information</b>  |  |
| <input checked="" type="checkbox"/> Enable Extension Mobility   |  |
| Log Out Profile   | -- Use Current Device Settings -- <input type="button" value="v"/> |
| Log in User ID  | < None >   |
| Log in Time   | < None >   |
| Log out Time  | < None >   |
| <b>MLPP Information</b>   |  |
| MLPP Domain   | < None > <input type="button" value="v"/>                          |
| <b>Secure Shell Information</b>   |  |
| Secure Shell User   | <input type="text"/>   |
| Secure Shell Password   | <input type="text"/>   |
| <b>Product Specific Configuration Layout</b>  |  |



Product Specific Configuration Layout

☐ Disable Speakerphone

☐ Disable Speakerphone and Headset

PC Port \*

Enabled

Settings Access\*

Enabled

Gratuitous ARP\*

Enabled

PC Voice VLAN Access\*

Enabled

Video Capabilities\*

Disabled

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

?

Save

Delete

Copy

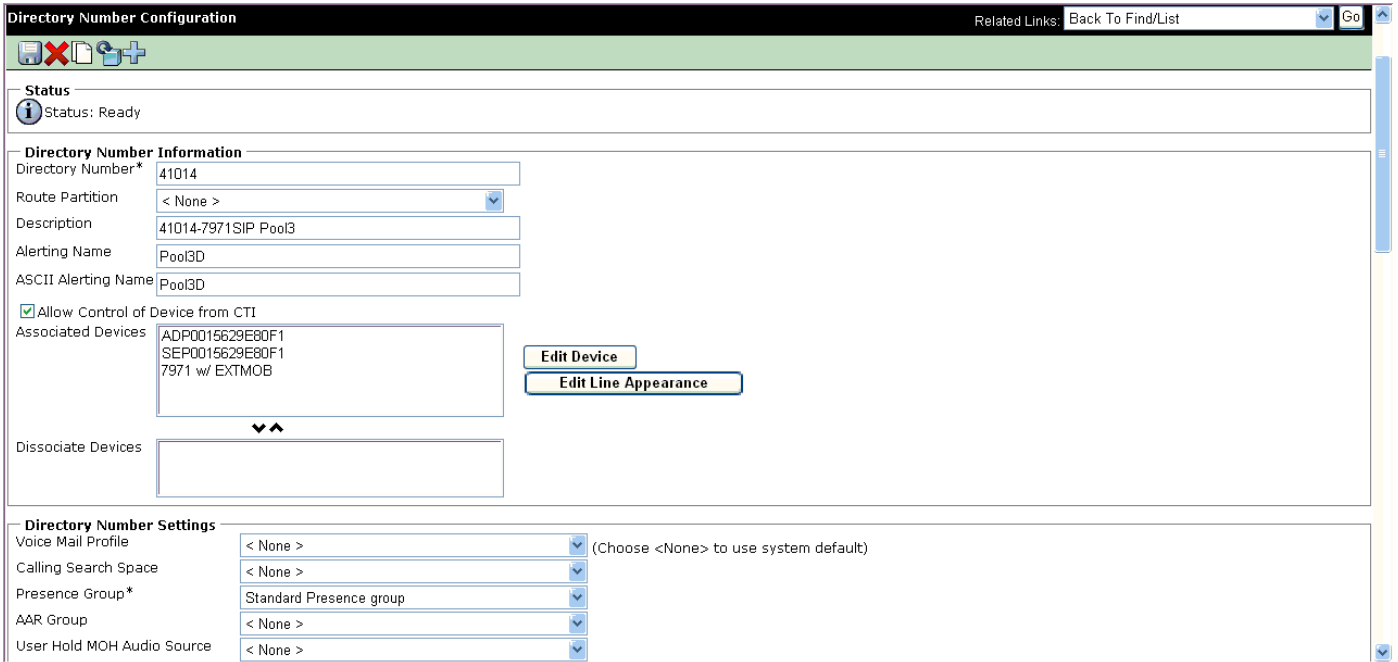
Reset

Add New

\*- indicates required item.

\*\* - Device reset is not required for changes to Packet Capture Mode and Packet Capture Duration.

\*\*\*Note: Security Profile Contains Additional CAPF Settings





|  |                             |   |                               |
|--|-----------------------------|---|-------------------------------|
| Network Hold MOH Audio Source                  | < None >                    |   |                               |
| Auto Answer*                                   | Auto Answer Off             |   |                               |
| <b>Call Forward and Call Pickup Settings</b>   |                             |   |                               |
|  | Voice Mail                  | Destination   | Calling Search Space          |
| Forward All                                    | <input type="checkbox"/> or |   | < None >                      |
| Secondary Calling Search Space for Forward All |                             |   | < None >                      |
| Forward Busy Internal                          | <input type="checkbox"/> or |   | < None >                      |
| Forward Busy External                          | <input type="checkbox"/> or |   | < None >                      |
| Forward No Answer Internal                     | <input type="checkbox"/> or |   | < None >                      |
| Forward No Answer External                     | <input type="checkbox"/> or |   | < None >                      |
| Forward No Coverage Internal                   | <input type="checkbox"/> or |   | < None >                      |
| Forward No Coverage External                   | <input type="checkbox"/> or |   | < None >                      |
| Forward on CTI Failure                         | <input type="checkbox"/> or |   | < None >                      |
| No Answer Ring Duration (seconds)              |                             |   |                               |
| Call Pickup Group                              | < None >                    |   |                               |
| <b>MLPP Alternate Party Settings</b>           |                             |   |                               |
| Target (Destination)                           |                             |   |                               |
| MLPP Calling Search Space                      | < None >                    |   |                               |
| MLPP No Answer Ring Duration (seconds)         |                             |   |                               |
| <b>Line 1 on Device SEP0015629E80F1</b>        |                             |   |                               |
|  | Value                       |   | Update Shared Device Settings |
| Display (Internal Caller ID)                   | Pool3D                      | 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. | <input type="checkbox"/>      |
| ASCII Display                                  | Pool3D                      |   | <input type="checkbox"/>      |



|  |   |   |
|--|---|---|
| ASCII Display<br>(Internal Caller<br>ID) | <input type="text" value="Pool3D"/>   | <input type="checkbox"/>                          |
| Line Text Label                          | <input type="text" value="Pool3D"/>   | <input type="checkbox"/>                          |
| ASCII Line Text<br>Label                 | <input type="text" value="Pool3D"/>   | <input type="checkbox"/>                          |
| External Phone<br>Number Mask            | <input type="text"/>  | <input type="checkbox"/>                          |
| Message Waiting<br>Lamp Policy*          | <input type="button" value="Use System Policy"/>  | <input type="checkbox"/>                          |
| Ring Setting<br>(Phone Idle)*            | <input type="button" value="Use System Default"/>   | <input type="checkbox"/>                          |
| Ring Setting<br>(Phone Active)           | <input type="button" value="Use System Default"/> Applies to this line when any line on the phone has a call in progress. | <input type="checkbox"/>                          |
|  |   | <input type="button" value="Propagate Selected"/> |

**Multiple Call/Call Waiting Settings on Device SEP0015629E80F1**  
Note: The range to select the Max Number of calls is: 1-50

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

**Forwarded Call Information Display on Device SEP0015629E80F1**

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

**i** \*- indicates required item.  
**i** \*\*- Changes to Line or Directory Number settings require restart.



## End User Configuration

End User Configuration

Related Links: [Back to Find List Users](#)

Status

Status: Ready

User Information

User ID\*

Pool3A

Password\*

Confirm Password\*

PIN\*

Confirm PIN\*

Last name\*

pool3A

Middle name

First name

Telephone Number

Mail ID

Manager User ID

Department

User Locale

English United States

Associated PC

Digest Credentials

Confirm Digest Credentials

Device Associations

Controlled Devices





|                                    |                 |
|------------------------------------|-----------------|
| <b>Device Associations</b>         |                 |
| Controlled Devices                 | SEP0011219E5721 |
| <a href="#">Device Association</a> |                 |

|  |   |
|--|---|
| <b>Extension Mobility</b>  |   |
| Available Profiles   | 7961 w/ EXTMOB<br>7970 w/ EXTMOB<br>7970 w/ EXTMOB Pool4<br>7971 w/ EXTMOB<br>IPPhone w/ EXTMOB |
| Controlled Profiles  | 7960 w/ EXTMOB  |
| Default Profile  | < None >  |
| Presence Group*  | Standard Presence group   |
| SUBSCRIBE Calling Search Space                                       | < None >  |
| <input checked="" type="checkbox"/> Allow Control of Device from CTI |   |

|                                      |       |
|--------------------------------------|-------|
| <b>Directory Number Associations</b> |       |
| Primary Extension                    | 41015 |

|                              |  |
|------------------------------|--|
| <b>CAPF Information</b>      |  |
| Associated CAPF Profiles     |  |
| <a href="#">View Details</a> |  |



|   |   |
|---|---|
| Default Profile   | <div>&lt; None &gt;</div>                                     |
| Presence Group*   | <div>Standard Presence group</div>                            |
| SUBSCRIBE Calling Search Space  | <div>&lt; None &gt;</div>                                     |
| <div><input checked="" type="checkbox"/> Allow Control of Device from CTI</div> |   |
| <div><b>Directory Number Associations</b></div>                                 |   |
| Primary Extension   | <div>41015</div>  |
| <div><b>CAPF Information</b></div>  |   |
| Associated CAPF Profiles  | <div><div></div><div><a href="#">View Details</a></div></div> |
| <div><b>Permissions Information</b></div>                                       |   |
| Groups  | <div><div></div><div><a href="#">View Details</a></div></div> |
| Roles   | <div><div></div><div><a href="#">View Details</a></div></div> |
| <div><div>Save</div><div>Delete</div><div>Add New</div></div>                   |   |
| <div><div> *- indicates required item.</div></div>                              |   |



## Licensing Capabilities Assignments

Navigation Cisco Unified CallManager Administration Go

Cisco Unified CallManager Administration For Cisco Unified Communications Solutions Logged in as: CCMAAdministrator

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

Capabilities Assignment Configuration Related Links: Back To Find/List Go

Status

Status: Ready

User Information

User ID: Pool3A

Capabilities Assignment Information

☒ Enable UPS (Unified Presence Server)  
☐ Enable UPC (Unified Personal Communicator)

Save

i

 \*- indicates required item.



## Phone Services

Navigation Cisco Unified CallManager Administration Go

Cisco Unified CallManager Administration For Cisco Unified Communications Solutions Logged in as: CCMAAdministrator

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

IP Phone Services Configuration Related Links: Back To Find/List Go

**Status**  
 Status: Ready

**Service Information**

|                     |   |
|---------------------|---|
| Service Name*       | ASCII Service Name*                                   |
| EXTMOB              | EXTMOB  |
| Service Description | Service URL*  |
| Extension Mobility  | http://172.20.241.253:8080/emapp/EMAppServlet?device= |

**Service Parameter Information**

Parameters

New

Edit

Delete

Save

Delete

Update Subscriptions

Add New

- indicates required item.

© 2007 Cisco Systems, Inc. All rights reserved.  
Important notices, privacy statements, and trademarks of Cisco Systems, Inc. can be found on [cisco.com](http://cisco.com)  
Page 44 of 90



## Phone URL Services

|   |                                |       |
|---|--------------------------------|-------|
| <a href="#">Use Standard VM Handling For Precedence Calls *</a> | <input type="checkbox"/> False | False |
|---|--------------------------------|-------|

**Security Parameters**

|  |      |      |
|--|------|------|
| <a href="#">Cluster Security Mode *</a>            | 0    |      |
| <a href="#">CAPF Phone Port *</a>                  | 3804 | 3804 |
| <a href="#">CAPF Operation Expires in (days) *</a> | 10   | 10   |

**Phone URL Parameters**

|  |  |   |
|--|--|---|
| <a href="#">URL Authentication</a>     | <input type="text" value="http://172.20.241.253:8080/ccmcip/authenticate.jsp"/>          |   |
| <a href="#">URL Directories</a>        | <input type="text" value="http://172.20.241.253:8080/ccmcip/xmlldirectory.jsp"/>         |   |
| <a href="#">URL Idle</a>               | <input type="text"/>   |   |
| <a href="#">URL Idle Time</a>          | <input type="text" value="0"/>   | 0 |
| <a href="#">URL Information</a>        | <input type="text" value="http://172.20.241.253:8080/ccmcip/GetTelecasterHelpText.jsp"/> |   |
| <a href="#">URL Messages</a>           | <input type="text"/>   |   |
| <a href="#">IP Phone Proxy Address</a> | <input type="text"/>   |   |
| <a href="#">URL Services</a>           | <input type="text" value="http://172.20.241.253:8080/ccmcip/getservicesmenu.jsp"/>       |   |

**User Search Parameters**

|  |  |      |
|--|--|------|
| <a href="#">Enable All User Search *</a> | <input checked="" type="checkbox"/> True | True |
| <a href="#">User Search Limit *</a>      | 64                                       | 64   |




**CCM Web Services Parameters**


|  |     |     |
|--|-----|-----|
| <a href="#">Allowed Performance Queries Per Minute *</a>   | 50  | 50  |
| <a href="#">Allowed Device Queries Per Minute *</a>        | 15  | 15  |
| <a href="#">Performance Queue Limit *</a>                  | 100 | 100 |
| <a href="#">Maximum Performance Counters Per Session *</a> | 100 | 100 |



## Application User Configuration

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



**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 

ATA000025613642  
ATA00127FD0CB10  
SEP000B82073374  
SEP0011219E5721  
SEP001422A9DFAD

SEP00170EEE3394  
SEP00152B360947  
SEP0015629E80F1  
SEP00192F07EE84

[Find more Phones](#)  
[Find more Route Points](#)  
[Find more Pilot Points](#)

v ^

SEP00170EEE3394  
SEP00152B360947  
SEP0015629E80F1  
SEP00192F07EE84

**CAPF Information**  
Associated CAPF Profiles

[Edit Profile](#)

v ^

**Permissions Information**  
Groups

Standard CTI Allow Control of All Devices  
Standard CTI Enabled

[Edit Group](#)

v ^

**Roles**

Standard CTI Allow Control of All Devices  
Standard CTI Enabled

[Edit Role](#)

v ^

[Save](#)
[Delete](#)
[Copy](#)
[Add New](#)

*i* \*- indicates required item.



**Application User Configuration**

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

**Status**

Status: Ready

**Application User Information**

User ID\*

PhoneMessenger

Password\*

.....

Confirm Password\*

.....

Digest Credentials

Confirm Digest Credentials

Presence Group\*

Standard Presence group

☐ Accept Presence Subscription

☐ Accept Out-of-dialog REFER

☐ Accept Unsolicited Notification

☐ Accept Replaces Header

**Device Information**

Available Devices

ATA000025613642

ATA00127FD0CB10

SEP000B82073374

SEP001422A9DFAD

SEP00152B8F351B

SEP0011219E5721

SEP00146A9C3C1F

SEP00152B360947

SEP00170EE3394

SEP0015629F80F1

Find more Phones

Find more Route Points

Find more Pilot Points





▼ ▲

SEP0011219E5721  
SEP00146A9C3C1F  
SEP00152B360947  
SEP00170EEE3394  
SEP0015629E80F1

▲ ▼

**CAPF Information**  
Associated CAPF Profiles

▼ ▲

▲ ▼

Edit Profile

**Permissions Information**  
Groups

▼ ▲

▲ ▼

Edit Group

  
Roles

▼ ▲

▲ ▼

Edit Role

Save Delete Copy Add New

i

 \*- indicates required item.



## Dial Rules Configuration

Navigation

Cisco Unified CallManager Administration

Go

Cisco Unified CallManager Administration For Cisco Unified Communications Solutions

Logged in as: CCMAAdministrator

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

Log Off

Application Dial Rule Configuration

Related Links: Back To Find/List Go

Status

Update successful

Application Dial Rule Information

Name\*

LCS-CUPS-CHAR

Description

Character \*

Number Begins With

\*5

Number of Digits\*

5

Total Digits to be Removed\*

2

Prefix With Pattern

41

Application Dial Rule Priority

| Name           | Number Begins With | Number of Digits | Total Digits to be Removed | Prefix With Pattern | Up | Down |
|----------------|--------------------|------------------|----------------------------|---------------------|----|------|
| LCS_CUPS DR    | 4201               | 5                | 4                          | 4101                | ⬆  | ⬇    |
| LCS-CUPS-CHAR  | *5                 | 5                | 2                          | 41                  | ⬆  | ⬇    |
| LCS-CUPS Char2 | #5                 | 5                | 2                          | 41                  | ⬆  | ⬇    |
| LCS-CUPS Char3 | +5                 | 5                | 2                          | 41                  | ⬆  | ⬇    |
| LCS-CUPS Char4 | 05                 | 5                | 2                          | 41                  | ⬆  | ⬇    |

Save

Delete

Add New

\* indicates required item



## Conference Bridge Configuration

System

Call Routing

Media Resources

Voice Mail

Device

Application

User Management

Bulk Administration

Help

Log Off

Media Resource Group Configuration

Related Links: Back To Find/List Go

Status

Status: Ready

Media Resource Group Status

Media Resource Group: CCM\_MRG (used by 8 devices)

Media Resource Group Information

Name\* CCM\_MRG

Description

Devices for this Group

Available Media Resources\*\*

ANN\_5  
CFB\_5  
MOH\_5  
MTP\_5

Selected Media Resources\*

ANN\_2 (ANN)  
ANN\_4 (ANN)  
CFB\_2 (CFB)  
CFB\_4 (CFB)  
MOH\_2 (MOH)

☐ Use Multicast for MOH Audio (If at least one multicast MOH resource is available)

Save

Delete

Copy

Reset

Add New

\*- indicates required item.



## Meet-Me Number

Navigation

Cisco Unified CallManager Administration

Go

Cisco Unified CallManager Administration For Cisco Unified Communications Solutions

Logged in as: CCMAAdministrator

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

Log Off

Meet-Me Number Configuration

Related Links: Back To Find/List Go

Status

Status: Ready

Meet-Me Configuration

Directory Number or Pattern\* 52XX

Description Meetme LCS/CUPS

Partition < None >

Save Delete Copy Add New

\*- indicates required item.



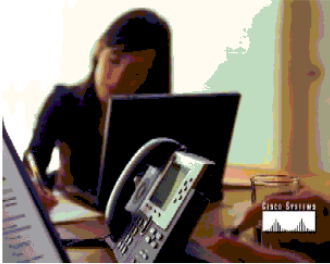
## Cisco Unified Presence (CUPS) Configuration

### CUPS Version

Navigation Cisco Unified Presence Server Administration Go

Cisco Unified Presence Server Administration For Cisco Unified Communications Solutions Logged in as: CCMAAdministrator

System Cisco Unified Presence Server Application User Management Bulk Administration Help Log Off



### Cisco Unified Presence Server Administration

System version: 1.0.3.1000-8  
Administration version: 1.1.0.0-1  
Cisco Unified CallManager publisher address: 172.20.241.254

Copyright © 1999 - 2006 Cisco Systems, Inc.  
All rights reserved.

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 summary of U.S. laws governing Cisco cryptographic products may be found at: <http://www.cisco.com/wwl/export/crypto/tool/starg.html>.  
If you require further assistance please contact us by sending email to [export@cisco.com](mailto:export@cisco.com).



## CUPS Method / Event – Based Routing Entries

Navigation

Cisco Unified Presence Server Administration

Go

Cisco Unified Presence Server Administration For Cisco Unified Communications Solutions Logged in as: CCMAAdministrator

System Cisco Unified Presence Server Application User Management Bulk Administration Help Log Off

Find and List Method/Event-Based Routing Entries

Status

4 records found

Search Options

Find Method/Event-Based Routing where Name begins with Find Search Within Results

Search Results

| Name  | Description              | Content Token | Destination Address | Destination Port | Copy |
|---|--------------------------|---------------|---------------------|------------------|------|
| <input type="checkbox"/> <a href="#">SystemPublish</a>    | System Managed Publish   | PUBLISH       | 172.20.245.40       | 5070             |      |
| <input type="checkbox"/> <a href="#">SystemSubscribe</a>  | System Managed Subscribe | SUBSCRIBE     | 172.20.245.40       | 5070             |      |
| <input type="checkbox"/> <a href="#">UPCCN_ChgNotif</a>   | Change Notification      | DBChangePkg   | 172.20.245.40       | 5065             |      |
| <input type="checkbox"/> <a href="#">UPCCN_LoginNotif</a> | Multi-Login Notification | LoginPkg      | 172.20.245.40       | 5065             |      |

Add New

Select All

Clear All

Delete Selected

Rows per Page 50



## CUPS Method / Event – Based Routing Configuration

Navigation

Cisco Unified Presence Server Administration

Go

Cisco Unified Presence Server Administration For Cisco Unified Communications Solutions

Logged in as: CCMAAdministrator

System Cisco Unified Presence Server Application User Management Bulk Administration Help

Log Off

Method/Event-Based Routing Configuration

Related Links: Back To Find/List Go

Status

Status: Ready

Method/Event-Based Routing Information

Name\*

SystemPublish

Description

System Managed Publish

Content Token\*

PUBLISH

Content Category\*

Method-Based

Destination Address\*

172.20.245.40

Destination Port\*

5070

Protocol Type\*

TCP

Save

Delete

Copy

Add New

\*- indicates required item.







## CTI Gateway Configuration

Navigation

Cisco Unified Presence Server Administration

Go

Cisco Unified Presence Server Administration For Cisco Unified Communications Solutions Logged in as: CCMAAdministrator

System Cisco Unified Presence Server Application User Management Bulk Administration Help Log Off

CTI Gateway Settings

Status

Status: Ready

Application Settings

Application Status\*

On

Application Username\*

CtiGW

Application Password\*

Confirm Password\*

CTI Address

172.20.241.254

CTI Address (Failover)

172.20.241.253

Heartbeat Interval (seconds)\*

8

Session Timer (seconds)\*

1810

Save

\*- indicates required item.



## MOC Assignments

**Find and List MOC Assignments**

**Status**  
17 records found

**MOC Usage**  
17 MOC users assigned

**Search Options**  
Find MOC Assignment(s) where  begins with  **Find** ☐ Search Within Results  
(enduser.userid begins with any)

**Search Results**

|                          | User ID                 | Last Name | Manager | Department | MOC Enabled |
|--------------------------|-------------------------|-----------|---------|------------|-------------|
| <input type="checkbox"/> | <a href="#">4100</a>    | 4100      |         |            | ✓           |
| <input type="checkbox"/> | <a href="#">4101</a>    | 4101      |         |            | ✓           |
| <input type="checkbox"/> | <a href="#">4112</a>    | 4112      |         |            | ✓           |
| <input type="checkbox"/> | <a href="#">LCSTEST</a> | TEST      |         |            | ✓           |
| <input type="checkbox"/> | <a href="#">Pool3A</a>  | pool3A    |         |            | ✓           |
| <input type="checkbox"/> | <a href="#">Pool3B</a>  | Pool3B    |         |            | ✓           |
| <input type="checkbox"/> | <a href="#">Pool3C</a>  | Pool3C    |         |            | ✓           |
| <input type="checkbox"/> | <a href="#">Pool3D</a>  | Pool3D    |         |            | ✓           |
| <input type="checkbox"/> | <a href="#">Pool3E</a>  | Pool3E    |         |            | ✓           |
| <input type="checkbox"/> | <a href="#">Pool4B</a>  | Pool4     |         |            | ✓           |
| <input type="checkbox"/> | <a href="#">Pool4C</a>  | Pool4     |         |            | ✓           |
| <input type="checkbox"/> | <a href="#">Pool4D</a>  | 4D        |         |            | ✓           |
| <input type="checkbox"/> | <a href="#">RobWest</a> | Westover  |         |            | ✓           |
| <input type="checkbox"/> | <a href="#">foruz</a>   | Cruz      |         |            | ✓           |
| <input type="checkbox"/> | <a href="#">pool4A</a>  | pool4     |         |            | ✓           |
| <input type="checkbox"/> | <a href="#">...</a>     | ...       |         |            | ✓           |



## AXL Information

Navigation

Cisco Unified Presence Server Administration

Go

Cisco Unified Presence Server Administration For Cisco Unified Communications Solutions Logged in as: CCMAAdministrator

System Cisco Unified Presence Server Application User Management Bulk Administration Help Log Off

AXL Configuration

Status

Status: Ready

AXL Information

AXL Username\* CCMAAdministrator

AXL Password\*

Confirm Password\*

Save

i

\*- indicates required item.



## Privacy ACL Entry (Allowed Destination Host)

NavigationCisco Unified Presence Server AdministrationGo

Cisco Unified Presence Server AdministrationFor Cisco Unified Communications SolutionsLogged in as: CCMAAdministrator

SystemCisco Unified Presence ServerApplicationUser ManagementBulk AdministrationHelpLog Off

Find and List Allowed Destination Hosts

Status

5 records found

Search Options

Find Privacy ACL Entry wherebegins withFindSearch Within Results  
(address begins with any)

Search Results

|                          | Address Pattern                | Description | Copy |
|--------------------------|--------------------------------|-------------|------|
| <input type="checkbox"/> | <a href="#">172.20.191.150</a> |             |      |
| <input type="checkbox"/> | <a href="#">172.20.245.85</a>  |             |      |
| <input type="checkbox"/> | <a href="#">192.168.101.10</a> |             |      |
| <input type="checkbox"/> | <a href="#">192.168.1.10</a>   |             |      |
| <input type="checkbox"/> | <a href="#">172.20.191.151</a> |             |      |

Add NewSelect AllClear AllDelete Selected

Rows per Page



## Proxy ACL Entry (Allowed Incoming Host)

Navigation

Cisco Unified Presence Server Administration

Go

Cisco Unified Presence Server Administration

For Cisco Unified Communications Solutions

Logged in as: CCMAAdministrator

System

Cisco Unified Presence Server

Application

User Management

Bulk Administration





Help

Log Off


Privacy Access Control List Configuration

Related Links: Back To Find/List

Go



Status

 Status: Ready

Privacy ACL Information

Description


Address Pattern\* 172.20.245.85

Save

Delete

Copy

Add New

 \*- indicates required item.



## IP Phone Messenger Setting

Navigation Cisco Unified Presence Server Administration Go

Cisco Unified Presence Server Administration For Cisco Unified Communications Solutions Logged in as: CCMAAdministrator

System Cisco Unified Presence Server Application User Management Bulk Administration Help Log Off

IP Phone Messenger Settings

Status  
Status: Ready

Application Settings  
IPPM Application Status\* On  
Application Username PhoneMessenger  
Application Password  
Confirm Password  
Max Contact List Size\* 100  
Max Instant Message History Size\* 25  
Subscription timeout (seconds)\* 3600  
Publish timeout (seconds)\* 3600



Save


\*- indicates required item.



## IP Phone Messenger User

**Find and List IP Phone Messenger Users**



**Status**  
 17 records found

**Search Options**  
Find IP Phone Messenger Status where     ☐ Search Within Results  
(userid begins with any)





**Search Results**


|                          | User-ID  | First Name | Last Name | Manager | Department | Login Status |
|--------------------------|----------|------------|-----------|---------|------------|--------------|
| <input type="checkbox"/> | 4100     |            | 4100      |         |            |              |
| <input type="checkbox"/> | 4101     |            | 4101      |         |            |              |
| <input type="checkbox"/> | 4112     |            | 4112      |         |            |              |
| <input type="checkbox"/> | LCSTEST  |            | TEST      |         |            |              |
| <input type="checkbox"/> | Pool3A   |            | pool3A    |         |            |              |
| <input type="checkbox"/> | Pool3B   |            | Pool3B    |         |            |              |
| <input type="checkbox"/> | Pool3C   |            | Pool3C    |         |            |              |
| <input type="checkbox"/> | Pool3D   |            | Pool3D    |         |            |              |
| <input type="checkbox"/> | Pool3E   |            | Pool3E    |         |            |              |
| <input type="checkbox"/> | Pool4B   |            | Pool4     |         |            |              |
| <input type="checkbox"/> | Pool4C   |            | Pool4     |         |            |              |
| <input type="checkbox"/> | Pool4D   | Pool       | 4D        |         |            |              |
| <input type="checkbox"/> | RobWest  | Rob        | Westover  |         |            |              |
| <input type="checkbox"/> | foruz    | Filli      | Cruz      |         |            |              |
| <input type="checkbox"/> | pool4A   |            | pool4     |         |            |              |
| <input type="checkbox"/> | smasters | Steve      | Masters   |         |            |              |
| <input type="checkbox"/> | tvore    | Terry      | Vore      |         |            |              |



## Application User Configuration

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



**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 

▼ ▲

[Find more Phones](#)  
[Find more Route Points](#)  
[Find more Pilot Points](#)





▼ ▲

**CAPF Information**  
Associated CAPF Profiles

▼ ▲

**Edit Profile**

**Permissions Information**

Groups

▼ ▲

**Edit Group**

Roles

▼ ▲

**Edit Role**

▼ ▲

Save

Delete

Copy

Add New

**i**

\*- indicates required item.



**Application User Configuration**

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

**Status**

Status: Ready

**Application User Information**

User ID\*

PhoneMessenger

Password\*

.....

Confirm Password\*

.....

Digest Credentials

Confirm Digest Credentials

Presence Group\*

Standard Presence group

☒ Accept Presence Subscription

☒ Accept Out-of-dialog REFER

☒ Accept Unsolicited Notification

☒ Accept Replaces Header

**Device Information**

Available Devices

Find more Phones

Find more Route Points

Find more Pilot Points



▼ ▲

**CAPF Information**  
Associated CAPF Profiles

▼ ▲

**Edit Profile**

**Permissions Information**

Groups

▼ ▲

**Edit Group**

Roles

▼ ▲

**Edit Role**

▼ ▲

Save

Delete

Copy

Add New

\*- indicates required item.



## Cisco Content Switch CSS11501 Load Balancer Configuration

```
CSS11501# sh run
```

```
!Generated on 12/29/2006 11:33:39
```

```
!Active version: sg0810106
```

```
configure
```

```
!***** GLOBAL *****
```

```
ip management route 172.20.2.0 255.255.255.0 172.20.201.1
```

```
ip route 0.0.0.0 0.0.0.0 172.20.191.1 1
```

```
!***** INTERFACE *****
```

```
interface e1
```

```
bridge vlan 5
```

```
description "LCS-POOL3"
```

```
interface e2
```

```
bridge vlan 2
```

```
interface e5
```

```
bridge vlan 10
```

```
description "LCS-POOL4"
```



```
interface e8
```

```
description "NETWORK"
```

```
bridge vlan 4
```

```
!***** CIRCUIT *****
```

```
circuit VLAN5
```

```
ip address 192.168.1.1 255.255.255.0
```

```
circuit VLAN4
```

```
ip address 172.20.191.2 255.255.255.0
```

```
circuit VLAN10
```

```
ip address 192.168.101.1 255.255.255.0
```

```
!***** SERVICE *****
```

```
service LCSPool3_135
```

```
ip address 192.168.1.10
```

```
port 135
```

```
protocol tcp
```

```
keepalive type none
```

```
active
```



service LCSPool3\_5060

ip address 192.168.1.10

port 5060

protocol tcp

keepalive port 5060

keepalive type none

active

service LCSPool3\_5061

ip address 192.168.1.10

port 5061

protocol tcp

keepalive port 5061

keepalive type none

active

service LCSPool4\_5060

ip address 192.168.101.10

port 5060

protocol tcp

keepalive type none

active

service LCSPool4\_5061

ip address 192.168.101.10



port 5061

protocol tcp

keepalive type none

active

!\*\*\*\*\* OWNER \*\*\*\*\*

owner LCSPool3

content LCSPool3\_135

add service LCSPool3\_135

port 135

protocol tcp

vip address 172.20.191.10

active

content LCSPool3\_5060

add service LCSPool3\_5060

protocol tcp

port 5060

vip address 172.20.191.10

active

content LCSPool3\_5061

protocol tcp

add service LCSPool3\_5061



port 5061

vip address 172.20.191.10

active

owner LCSPool4

content LCSPool4\_5060

add service LCSPool4\_5060

vip address 172.20.191.100

protocol tcp

port 5060

active

content LCSPool4\_5061

add service LCSPool4\_5061

vip address 172.20.191.100

protocol tcp

port 5061

active

!\*\*\*\*\* GROUP \*\*\*\*\*

group backend

add service LCSPool4\_5060

vip address 172.20.191.150

active





```
group backend2
```

```
add service LCSPool3_5060
```

```
vip address 172.20.191.151
```

```
active
```

```
CSS11501#
```

```
CSS11501#
```

```
CSS11501#
```

```
CSS11501# sh ver
```

```
Version:          sg0810106 (08.10.1.06)
```

```
Flash (Locked):   08.10.1.06
```

```
Flash (Operational): 08.10.1.06
```

```
Type:            PRIMARY
```

```
Licensed Cmd Set(s): Standard Feature Set
```

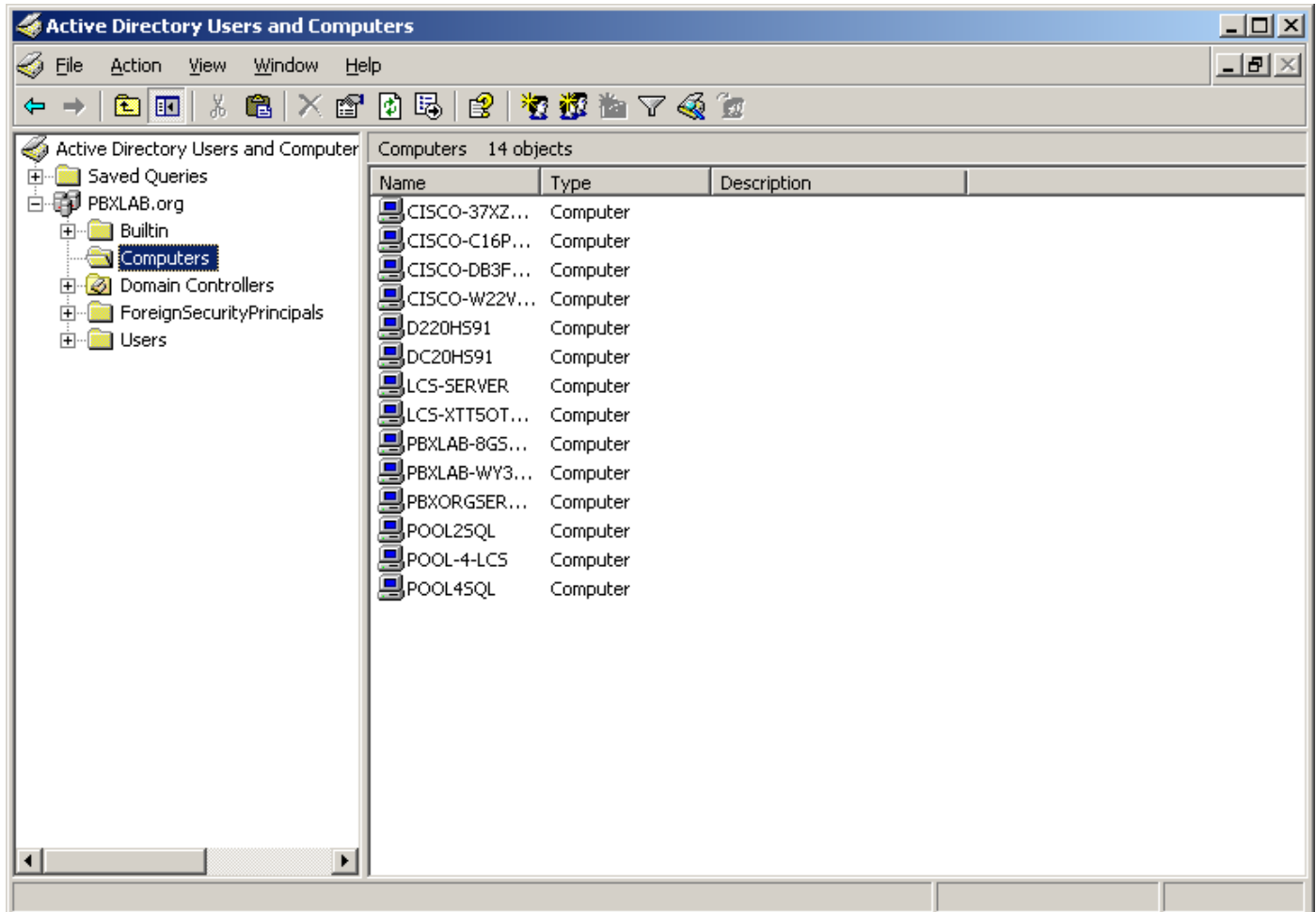
```
Enhanced Feature Set
```

```
CSS11501#
```



## LCS Enterprise Edition Configuration

### Domain Name Server






## Pool Properties

**pool3 Properties** [X]

Federation   Host Authorization   Archiving   Address Book

General   Routing   Compression   Authentication

 pool3

Display Name:

Back-End Server address:


Maximum contacts per user

OK   Cancel   Apply   Help

**pool4 Properties** [X]

Federation   Host Authorization   Archiving   Address Book

General   Routing   Compression   Authentication

 pool4

Display Name:

Back-End Server address:

Maximum contacts per user

OK   Cancel   Apply   Help



## Static Route

**Edit Static Route** [X]

Matching URI (Uniform Resource Identifier)  
Wildcard characters can be used in the user and domain names.

User:

Domain:

☐ Phone URI

Next hop

☐ Network address:

☒ IP address:

Transport:

Port:

☐ Replace host in request URI

Note: If this route requires a certificate, please make sure that each server in this pool has a valid certificate that can be used with this route. Use the 'Security' tab on the server property sheet to configure the certificate.

OK Cancel Help



## Authorized Host

**pool3 Properties** [X]

General   Routing   Compression   Authentication  
Federation   Host Authorization   Archiving   Address Book

Specify authorized hosts such as gateways, application servers, special clients that need additional bandwidth and so forth.

| Servers       | Outbound Only | Throttle As Se... | Treat As A |
|---------------|---------------|-------------------|------------|
| 172.20.245.40 | No            | Yes               | Yes        |

Add...   Edit...   Remove

OK   Cancel   Apply   Help

**Edit Authorized Host** [X]

Server

☐ Network address:    172 . 20 . 245 . 40

☒ IP address:

Settings

☐ Outbound Only

☒ Throttle As Server

☒ Treat As Authenticated


OK   Cancel   Help



## Server Properties

**pbxorgserver.pbxmlab.org Properties**

General | Security | Logging

 Live Communications Server

Server:  
pbxorgserver.pbxmlab.org

Connections  
Specify how this server handles inbound connections

| Address                                 | Port | Transport  |
|---|------|------------|
| <input checked="" type="checkbox"/> All | 5061 | Mutual TLS |
| <input checked="" type="checkbox"/> All | 5060 | TCP        |

Add... Edit... Remove

OK Cancel Apply Help



## Pool Users

Microsoft Office Live Communications Server 2005

File Help

Forest - PBXLAB.org

- Domains
  - PBXLAB.org
    - Live Communications servers and pools
      - pbxlab-8gs8ps3j
      - lcs-server
        - Users
          - lcs-server.pbxmlab.org
            - pool1
              - pool3
                - Users
                  - pbxorgserver.pbxmlab.org
                    - pool4
  - Archiving Services
  - Proxy Servers
  - Unassigned users
  - Live Communications Server 2003

| Enabled | Display name  | SIP URI                  | Type |
|---------|---------------|--------------------------|------|
| Enabled | 4100 4100     | sip:4100@pbxmlab.org     | User |
| Enabled | LCSTEST       | sip:LCSTEST@pbxmlab.org  | User |
| Enabled | Rob Westover  | sip:robwest@pbxmlab.org  | User |
| Enabled | Steve Masters | sip:smasters@pbxmlab.org | User |
| Enabled | Terry Vore    | sip:Tvore@pbxmlab.org    | User |
| Enabled | 4112          | sip:4112@pbxmlab.org     | User |
| Enabled | Pool3A        | sip:Pool3A@pbxmlab.org   | User |
| Enabled | Pool3C        | sip:Pool3C@pbxmlab.org   | User |
| Enabled | Pool3B        | sip:Pool3B@pbxmlab.org   | User |
| Enabled | Pool3D        | sip:Pool3D@pbxmlab.org   | User |
| Enabled | Pool3E        | sip:Pool3E@pbxmlab.org   | User |





## User Configuration

**User Pool3E Properties** [X]

Live Communications

☒ Enable Live Communications for this user

SIP URI:   
Example: sip:user@domain.com

User sign-in name: Pool3E@pbxlab.org

Server or pool:  ▼

Allow and block list:

**User Advanced Settings** [X]

**Federation Settings**

☐ Enable federation

☐ Enable public IM connectivity

☐ Enable remote user access

☒ Enable Remote Call Control

Device URI of the user's phone:

☐ SIP URI:

☒ TEL URI:

Remote Call Control SIP URI:

**Archiving Settings**

☒ Use global default archiving setting

☐ Archive all communications

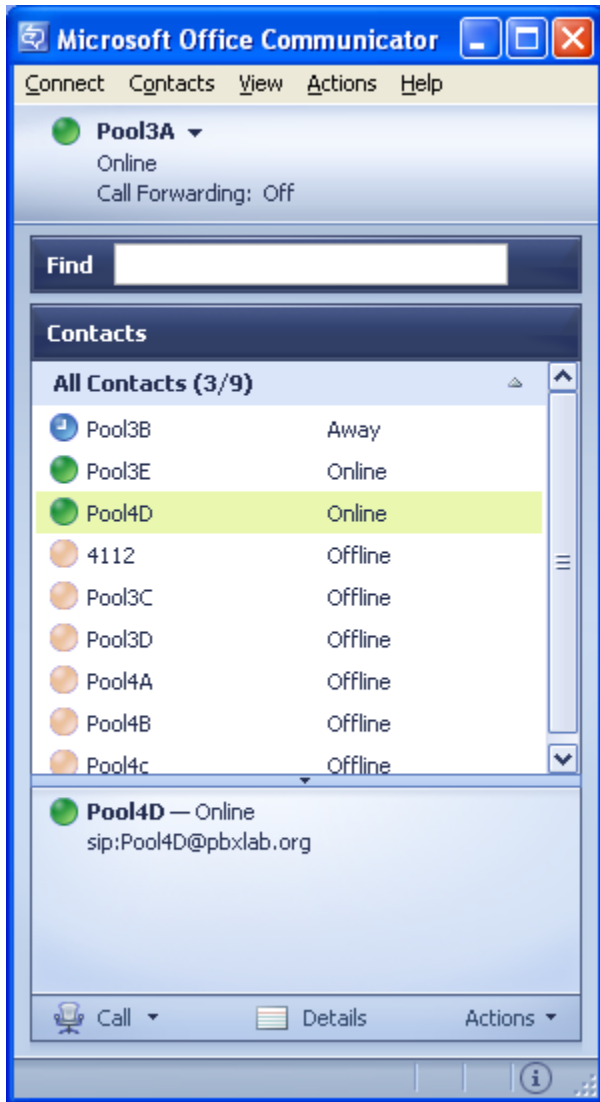
☐ Archive all communications without message body

☐ Do not archive communications

OK Cancel Help



## Microsoft Office Communicator (MOC) Configuration



**Options**

Personal General Instant Messages Alerts Permissions Phones Accounts Rules

**My phone numbers**

To enter or edit your phone numbers, click the Phone button (Work, Mobile, Home, or Other) next to each phone number. Select the Publish this phone number check box next to each phone number you want to share with others.

|                 |       |   |
|-----------------|-------|---|
| Work Phone...   | 41015 | <input checked="" type="checkbox"/> Publish this phone number |
| Mobile Phone... | 41015 | <input checked="" type="checkbox"/> Publish this phone number |
| Home Phone...   |       | <input type="checkbox"/> Publish this phone number            |
| Other Phone...  | 51003 | <input type="checkbox"/> Publish this phone number            |

**Select your personal information manager**

☒ Windows Address Book (Contacts)

☐ Microsoft Office Outlook (Contacts, Calendar, Out of Office, missed-call e-mail, etc.)

☐ None

OK Cancel Help

Options

Personal

General

Instant Messages

Alerts

Permissions

Phones

Accounts

Rules

Permission settings

This list displays the permissions you have set for your contacts. You can use permission settings to determine whether an individual or a domain can add you to contact lists, see your status, or send instant messages to you.

Permissions list

| Person or Domain          | Permission Type |
|---------------------------|-----------------|
| 4112                      | Allow           |
| Pool3B                    | Allow           |
| Pool3C                    | Allow           |
| Pool3D                    | Allow           |
| Pool3E                    | Allow           |
| Pool4A                    | Allow           |
| Pool4B                    | Allow           |
| Pool4c                    | Allow           |
| Pool4D                    | Allow           |
| <b>All Other Contacts</b> | <b>Notifv</b>   |

New...

Edit...

Delete

☒ Block instant messages from federated contacts who are not allowed to see my status

OK

Cancel

Help

Options

Personal

General

Instant Messages

Alerts

Permissions

Phones

Accounts

Rules

My account name

Sign-in name: pool3A@pbxlab.org

Advanced...

Phone integration

☐ Enable phone integration
 

Communicator can place and receive phone calls. If you need to change the automatic phone configuration, select Manual configuration and then click Configure.

☒ Automatic Configuration
 ☐ Manual configuration
 

Configure...

Conferencing information

Conference ID:

Leader code:

Participant code:

Domain:

Toll:

Toll free:

OK

Cancel

Help



**Advanced Connection Settings** ✕

Select which method should be used to configure your connection to a communications service:

☐ Automatic configuration

☒ **Configure settings**

Server name or IP address:

Connect using:

☒ ICP

☐ TLS



## Acronyms

|        |  |
|--------|--|
| CTI    | Computer Telephony Interface                           |
| CUPS   | 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 LCS | Microsoft Live Communication Server (EE SP1)           |
| 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   |





## Important Information

THE SPECIFICATIONS AND INFORMATION REGARDING THE PRODUCTS IN THIS MANUAL ARE SUBJECT TO CHANGE WITHOUT NOTICE. ALL STATEMENTS, INFORMATION, AND RECOMMENDATIONS IN THIS MANUAL ARE BELIEVED TO BE ACCURATE BUT ARE PRESENTED WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. USERS MUST TAKE FULL RESPONSIBILITY FOR THEIR APPLICATION OF ANY PRODUCTS.

IN NO EVENT SHALL CISCO OR ITS SUPPLIERS BE LIABLE FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES, INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR LOSS OR DAMAGE TO DATA ARISING OUT OF THE USE OR INABILITY TO USE THIS MANUAL, EVEN IF CISCO OR ITS SUPPLIERS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.



#### Corporate Headquarters

Cisco Systems, Inc.  
170 West Tasman Drive  
San Jose, CA 95134-1706  
USA  
www.cisco.com  
Tel: 408 526-4000  
800 553-NETS (6387)  
Fax: 408 526-4100

#### European Headquarters

Cisco Systems International  
BV  
Haarlerbergpark  
Haarlerbergweg 13-19  
1101 CH Amsterdam  
The Netherlands  
www-europe.cisco.com  
Tel: 31 0 20 357 1000  
Fax: 31 0 20 357 1100

#### Americas Headquarters

Cisco Systems, Inc.  
170 West Tasman Drive  
San Jose, CA 95134-1706  
USA  
www.cisco.com  
Tel: 408 526-7660  
Fax: 408 527-0883

#### Asia Pacific Headquarters

Cisco Systems, Inc.  
Capital Tower  
168 Robinson Road  
#22-01 to #29-01  
Singapore 068912  
www.cisco.com  
Tel: +65 317 7777  
Fax: +65 317 7799

Cisco Systems has more than 200 offices in the following countries and regions. Addresses, phone numbers, and fax numbers are listed on the Cisco Web site at [www.cisco.com/go/offices](http://www.cisco.com/go/offices).

Argentina • Australia • Austria • Belgium • Brazil • Bulgaria • Canada • Chile • China PRC • Colombia • Costa Rica • Croatia • Czech Republic • Denmark • Dubai, UAE • Finland • France • Germany • Greece • Hong Kong SAR • Hungary • India • Indonesia • Ireland • Israel • Italy • Japan • Korea • Luxembourg • Malaysia • Mexico • The Netherlands • New Zealand • Norway • Peru • Philippines • Poland • Portugal • Puerto Rico • Romania • Russia • Saudi Arabia • Scotland • Singapore • Slovakia • Slovenia • South Africa • Spain • Sweden • Switzerland • Taiwan • Thailand • Turkey • Ukraine • United Kingdom • United States • Venezuela • Vietnam • Zimbabwe

© 2007 Cisco Systems, Inc. All rights reserved.

CCVP, the Cisco logo, and the Cisco Square Bridge logo are trademarks of Cisco Systems, Inc.; Changing the Way We Work, Live, Play, and Learn is a service mark of Cisco Systems, Inc.; and Access Registrar, Aironet, BPX, Catalyst, CCDA, CCDP, CCIE, CCIP, CCNA, CCNP, CCSP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Cisco Unity, Enterprise/Solver, EtherChannel, EtherFast, EtherSwitch, Fast Step, Follow Me Browsing, FormShare, GigaDrive, HomeLink, Internet Quotient, IOS, iPhone, IP/TV, iQ Expertise, the iQ logo, iQ Net Readiness Scorecard, iQuick Study, LightStream, Linksys, MeetingPlace, MGX, Networking Academy, Network Registrar, Packet, PIX, ProConnect, ScriptShare, SMARTnet, StackWise, The Fastest Way to Increase Your Internet Quotient, and TransPath are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.

All other trademarks mentioned in this document or Website are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0705R)