



# Microsoft Live Communication Server 2005 Enterprise Edition with SP1 to Cisco Unified Presence 6.0(1) and Cisco Unified Communications Manager 5.1(1)

July 27, 2007 Initial Version

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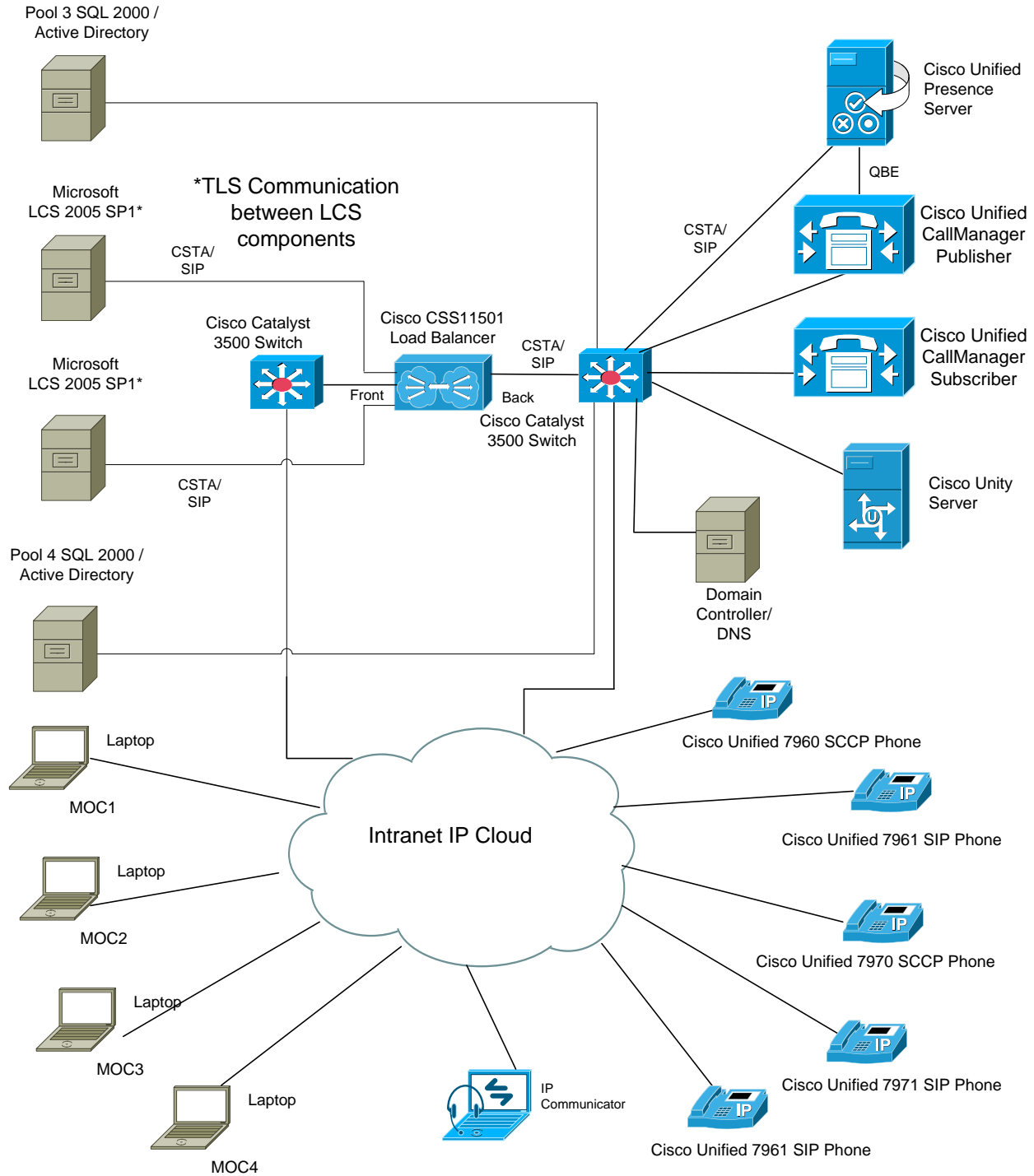
## Introduction

This document was issued to show feature interoperability and to document the steps and configurations necessary for Cisco Unified Communications Manager (CUCM) 5.1.1 and Cisco Unified Presence (CUP) 6.0(1) 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 Communications Manager (CUCM) 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 CUCM, 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 CSS1501 load balancer front-ended to the CUPS.

## Network Topology

Figure 1. Network Topology or Test Setup





## Limitations

**Multiple Point of Presence (MPOP):** As of the CUPS release 6.0(1), 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 Communications Manager (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 Communications Manager 5.1.1

Cisco Unfied Presence 6.0(1)

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 Supported

#### 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 Communications Manager (CUCM) 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 Communications Manager (CUCM) Configuration

1. Cisco Unified Communications 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 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 Communications 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. Cisco Content Switch CSS11501 Load Balancer Configuration

### D. LCS Enterprise Edition Configuration

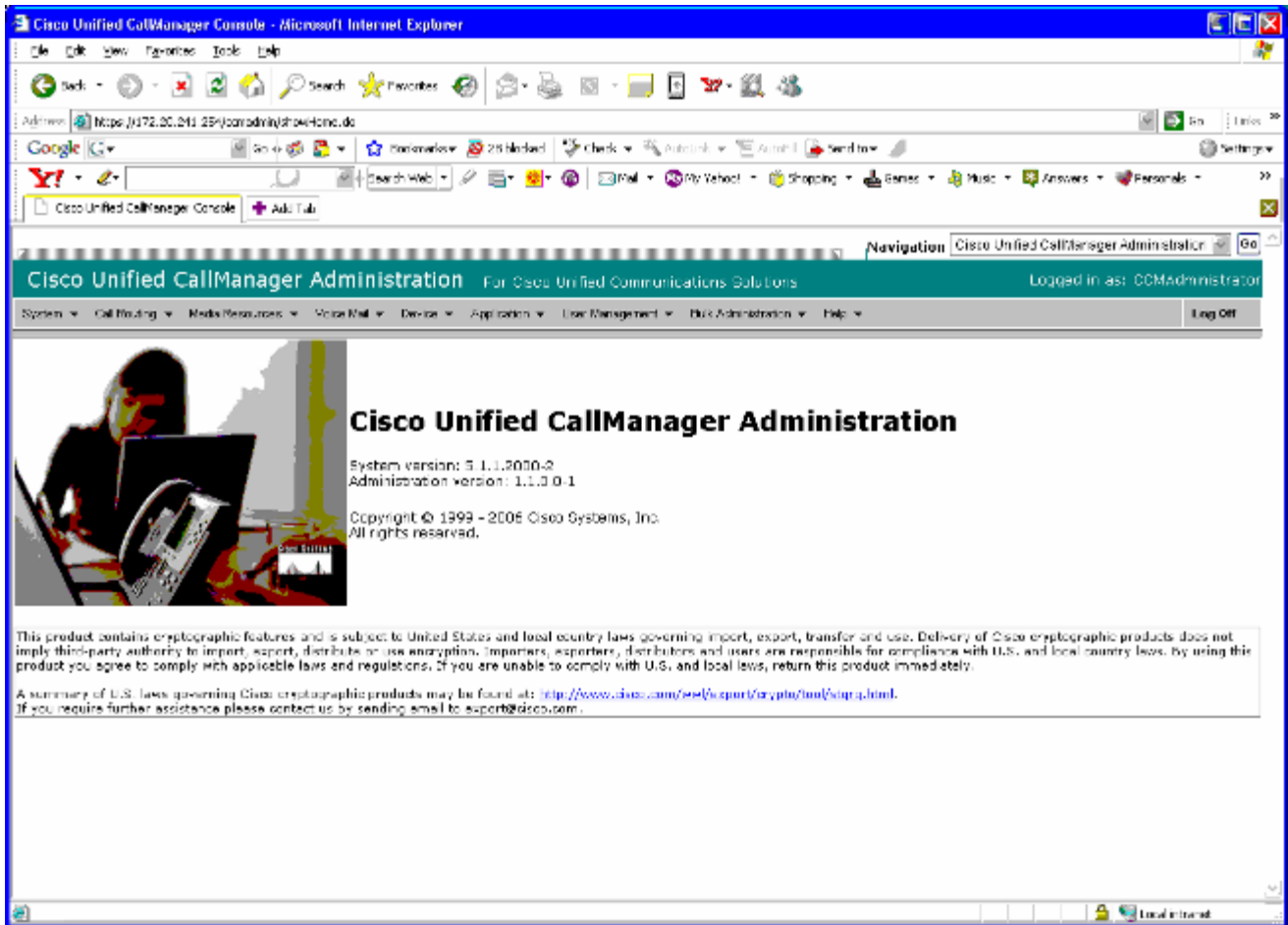
1. Domain Name Server
2. Pool Properties
3. Static Route
4. Authorized Host
5. Server Properties
6. Pool Users
7. User Configuration
8. Microsoft Office Communicator (MOC) Configuration



## Configuration Menus and Commands

Cisco Unified Communications Manager (CUCM) Configuration

Cisco Unified Communications Manager Version





## SIP Trunk

Trunk Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <https://172.20.241.254/ccadmin/trunkEdit.do?key=9c5ff3d8-e79d-b9d8-f71d-79bc81848732>

Google G- Go 26 blocked Check AutoLink AutoFill Send to Settings

Y! Search Web Mail My Yahoo! Shopping Games Music

Trunk Configuration Add Tab

**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**

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:

Done Local intranet



Trunk Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <https://172.20.241.254/ccadmin/trunkEdit.do?key=9c5ff3d8-e79d-b9d8-f71d-79bc81b48732>

Google G- Go 26 blocked Check AutoLink AutoFill Send to Settings

Y! Search Web Mail My Yahoo! Shopping Games Music

Trunk Configuration Add Tab

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\* EPAS2.pbxlab.org

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

**i** \*- indicates required item.

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

Done Local intranet



## Cisco IP Phone Configuration

### 7960 SCCP Phone

The screenshot shows the Cisco Unified CallManager Administration web interface in Microsoft Internet Explorer. The browser address bar shows the URL: <https://172.20.241.254/ccmadmin/phoneEdit.do?key=d515151c-2e47-137e-26ea-232e654bd4c3>. The page title is "Phone Configuration - Microsoft Internet Explorer".

The main content area is titled "Cisco Unified CallManager Administration" and shows the user is logged in as "CCMAdministrator". The navigation menu includes: System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The "Phone Configuration" section is active, showing a "Status: Ready" message.

The configuration details are as follows:

Association Information	Phone Type																										
<ul style="list-style-type: none"><li>1 <a href="#">Line [1] - 41015 (no partition)</a></li><li>2 <a href="#">Line [2] - Add a new DN</a></li><li>3 <a href="#">Add a new SD</a></li><li>4 <a href="#">Add a new SD</a></li><li>5 <a href="#">Add a new SD</a></li><li>6 <a href="#">Add a new SD</a></li><li>7 ----- Unassigned Associated Items -----</li><li>7 <a href="#">Add a new SD</a></li><li>8 <a href="#">Add a new SURL</a></li><li>9 <a href="#">Add a new BLF SD</a></li><li>10 Privacy</li><li>11 None</li></ul>	<p><b>Product Type:</b> Cisco 7960 <b>Device Protocol:</b> SCCP</p> <p><b>Device Information</b></p> <table><tr><td>Registration</td><td>Registered with Cisco Unified CallManager CM-CLUSTER1-S</td></tr><tr><td>IP Address</td><td><a href="#">172.20.201.118</a></td></tr><tr><td>MAC Address*</td><td>0011219E5721</td></tr><tr><td>Description</td><td>41015-7960SCCP</td></tr><tr><td>Device Pool*</td><td>Default</td></tr><tr><td>Phone Button Template*</td><td>Standard 7960 SCCP</td></tr><tr><td>Softkey Template</td><td>Standard User</td></tr><tr><td>Common Phone Profile*</td><td>Standard Common Phone Profile</td></tr><tr><td>Calling Search Space</td><td>&lt; None &gt;</td></tr><tr><td>AAR Calling Search Space</td><td>&lt; None &gt;</td></tr><tr><td>Media Resource Group List</td><td>CCM_MRGL</td></tr><tr><td>User Hold MOH Audio Source</td><td>&lt; None &gt;</td></tr><tr><td>Network Hold MOH Audio Source</td><td>&lt; None &gt;</td></tr></table>	Registration	Registered with Cisco Unified CallManager CM-CLUSTER1-S	IP Address	<a href="#">172.20.201.118</a>	MAC Address*	0011219E5721	Description	41015-7960SCCP	Device Pool*	Default	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	CCM_MRGL	User Hold MOH Audio Source	< None >	Network Hold MOH Audio Source	< None >
Registration	Registered with Cisco Unified CallManager CM-CLUSTER1-S																										
IP Address	<a href="#">172.20.201.118</a>																										
MAC Address*	0011219E5721																										
Description	41015-7960SCCP																										
Device Pool*	Default																										
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	CCM_MRGL																										
User Hold MOH Audio Source	< None >																										
Network Hold MOH Audio Source	< None >																										



Phone Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Phone

Address <https://172.20.241.254/ccmadmin/phoneEdit.do?key=d515151c-2e47-137e-26ea-232e654bd4c3> Go Links

Google 0 blocked Check AutoLink AutoFill Send to Settings

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	

**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"/>	

Done Local intranet



Phone Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Chat

Address <https://172.20.241.254/ccmadmin/phoneEdit.do?key=d515151c-2e47-137e-26ea-232e654bd4c3> Go Links

Google Go blocked AutoLink AutoFill Send to Settings

### 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

Done Local intranet



Phone Configuration - Microsoft Internet Explorer

Address: https://172.20.241.254/ccmadmin/phoneEdit.do?key=d515151c-2e47-137e-26ea-232e654bd4c3

**Extension Information**

Enable Extension Mobility  
Log Out Profile: -- Use Current Device Settings -- **Log Out**  
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**

Disable Speakerphone  
 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.

Done Local intranet



Directory Number Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop

Address <https://172.20.241.254/ccmadmin/directoryNumberEdit.do?key=a9631334-efe6-3342-751e-5df36735c3ee&mapkey=bb58c89b-7b3f-40af-a1b2-76e793e3f187&devicekey=d515151c-2e47-137e-26ea-232e654bd4c3&index=> Go Links

Google Go Bookmarks 0 blocked Check AutoLink AutoFill Send to Settings

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

**Status**  
Status: Ready

**Directory Number Information**

Directory Number\* 41015

Route Partition < None >

Description

Alerting Name

ASCII Alerting Name

Allow Control of Device from CTI

Associated Devices

SEP0011219E5721
7960 w/ EXTMOB
ADP0011219E5721

v v

Dissociate Devices

**Directory Number Settings**

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

Calling Search Space < None >

Presence Group\* Standard Presence group

AAR Group < None >

User Hold MOH Audio Source < None >

Done Local intranet



Directory Number Configuration - Microsoft Internet Explorer

Address: https://172.20.241.254/ccmadmin/directoryNumberEdit.do?key=a9631334-efe6-3342-751e-5df36735c3ee&mapkey=bb58c89b-7b3f-40af-a1b2-76e793e3f187&devicekey=d515151c-2e47-137e-26ea-232e654bd4c3&index=

### Line 1 on Device SEP0011219E5721

Value	Update Shared Device Settings
Display (Internal Caller ID) Pool3A <small>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.</small>	<input type="checkbox"/>
ASCII Display (Internal Caller ID) Pool3A	<input type="checkbox"/>
Line Text Label Pool3A	<input type="checkbox"/>
ASCII Line Text Label Pool3A	<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 <small>Applies to this line when any line on the phone has a call in progress.</small>	<input type="checkbox"/>

### 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



## 7970 SCCP Phone

Phone Configuration - Microsoft Internet Explorer

Address: <https://172.20.241.254/cmadmin/phoneEdit.do?key=b5bc9bf4-3a47-af09-5df1-3535a218d1bf>

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

Status: Ready

Association Information	Phone Type																																		
<p>Modify Button Items</p> <ol style="list-style-type: none"><li>Line [1] - 41016 (no partition)</li><li>Line [2] - Add a new DN</li><li>Add a new SD</li><li>Add a new SD</li><li>Add a new SD</li><li>Add a new SD</li><li>Add a new SD</li><li>Add a new SD</li><li>Unassigned Associated Items</li><li>Add a new SD</li><li>Add a new SURL</li><li>Add a new BLF SD</li><li>Privacy</li><li>None</li></ol>	<p>Product Type: Cisco 7970 Device Protocol: SCCP</p> <p>Device Information</p> <table><tr><td>Registration</td><td>Registered with Cisco Unified CallManager CM-CLUSTER1-S</td></tr><tr><td>IP Address</td><td>172.20.201.103</td></tr><tr><td>MAC Address*</td><td>00146A9C3C1F</td></tr><tr><td>Description</td><td>41016-7970SCCP</td></tr><tr><td>Device Pool*</td><td>Default</td></tr><tr><td>Phone Button Template*</td><td>Standard 7970 SCCP</td></tr><tr><td>Softkey Template</td><td>Standard User</td></tr><tr><td>Common Phone Profile*</td><td>Standard Common Phone Profile</td></tr><tr><td>Calling Search Space</td><td>&lt; None &gt;</td></tr><tr><td>AAR Calling Search Space</td><td>&lt; None &gt;</td></tr><tr><td>Media Resource Group List</td><td>CCM_MRGL</td></tr><tr><td>User Hold MOH Audio Source</td><td>&lt; None &gt;</td></tr><tr><td>Network Hold MOH Audio Source</td><td>&lt; None &gt;</td></tr><tr><td>Location*</td><td>Hub_None</td></tr><tr><td>User Locale</td><td>English United States</td></tr><tr><td>Network Locale</td><td>&lt; None &gt;</td></tr><tr><td>Built In Bridge*</td><td>Default</td></tr></table>	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
Registration	Registered with Cisco Unified CallManager CM-CLUSTER1-S																																		
IP Address	172.20.201.103																																		
MAC Address*	00146A9C3C1F																																		
Description	41016-7970SCCP																																		
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User Locale	English United States																																		
Network Locale	< None >																																		
Built In Bridge*	Default																																		





Phone Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Phone

Address <https://172.20.241.254/ccmadmin/phoneEdit.do?key=b5bc9bf4-3e47-af09-5df1-3535a218d1bf> Go Links

Google Bookmarks 0 blocked Check AutoLink AutoFill Send to Settings

Built In Bridge\* Default

Privacy\* Default

Owner User ID < None >

Phone Load Name

Retry Video Call as Audio

Ignore Presentation Indicators (internal calls only)

Allow Control of Device from CTI

**Protocol Specific Information**

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 >

Unattended Port

Require DTMF Reception

RFC2833 Disabled

**Certification Authority Proxy Function (CAPF) Information**

Certificate Operation\* No Pending Operation

Authentication Mode\* By Null String

Authentication String

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.

Local intranet



Phone Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Chat

Address <https://172.20.241.254/ccmadmin/phoneEdit.do?key=b5bc9bf4-3e47-af09-5df1-3535a218d1bf> Go Links

Google Bookmarks 0 blocked Check AutoLink AutoFill Send to 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

Login in User ID

Log in Time

Log out Time

### MLPP Information

MLPP Domain

MLPP Indication\*

MLPP Preemption\*

Done Local intranet



Phone Configuration - Microsoft Internet Explorer

Address: https://172.20.241.254/cnadmin/phoneEdit.do?key=b5bc9bf4-3e47-af09-5df1-3535a216d1bf

### Product Specific Configuration Layout

- Disable Speakerphone
- Disable Speakerphone and Headset
- Forwarding Delay\*
- PC Port\*
- Settings Access\*
- Gratuitous ARP\*
- PC Voice VLAN Access\*
- Video Capabilities\*
- Auto Line Select\*
- Web Access\*
- Days Display Not Active
- Display On Time
- Display On Duration
- Display Idle Timeout
- Span to PC Port\*
- Logging Display\*
- Load Server
- Recording Tone\*
- Recording Tone Local Volume\*
- Recording Tone Remote Volume\*
- Recording Tone Duration
- Display On When Incoming Call\*
- RTCP\*
- "more" Soft Key Timer
- Auto Call Select\*
- Log Server
- Advertise G.722 Codec\*



Directory Number Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address: https://172.20.241.254/ccmadmin/directoryNumberEdit.do?key=481a173a-755a-6a9b-1a76-ecce0e1d4606&mapkey=9fa20ac0-3a3d-b69b-a45c-af9a987284dc&devicekey=b5bc9bf4-3a47-af09-5df1-3535a218d1bf&index=1

Directory Number Configuration

Status: Ready

**Directory Number Information**

Directory Number\* 41016

Route Partition < None >

Description Pool4A

Alerting Name Pool4A

ASCII Alerting Name Pool4A

Allow Control of Device from CTI

Associated Devices

SEP00146A9C3C1F
7970 w/ EXTMOB
ADP00146A9C3C1F

Dissociate Devices

**Directory Number Settings**

Voice Mail Profile	Default	(Choose <None> to use system default)
Calling Search Space	< None >	
Presence Group*	Standard Presence group	
AAR Group	< None >	
User Hold MOH Audio Source	< None >	



Directory Number Configuration - Microsoft Internet Explorer

Address: https://172.20.241.254/ccmadmin/directoryNumberEdit.do?key=481a173a-755a-6a9b-1a76-ece0e1d46068&mapkey=9fa20ac0-3a3d-b69b-a45c-af9a987284dc&devicekey=b5bc9bf4-3a47-af09-5df1-3535a218d1bf&index=1

Network Hold MOH Audio Source: < None >

Auto Answer\*: Auto Answer Off

**Call Forward and Call Pickup Settings**

	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 >

**MLPP Alternate Party Settings**

Target (Destination):

MLPP Calling Search Space: < None >

MLPP No Answer Ring Duration (seconds):

**Line 1 on Device SEP00146A9C3C1F**

	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	Pnnl3C	<input type="checkbox"/>

Done



Directory Number Configuration - Microsoft Internet Explorer

Address: https://172.20.241.254/ccadmin/directoryNumberEdit.do?key=481a173a-755a-6a9b-1a76-ec0e1d46066&mapkey=9fa20ac0-3a3d-b69b-a45c-af9a987284dc&devicekey=b5bc9bf4-3a47-af09-5df1-3535a218d1bf&index=1

### Line 1 on Device SEP00146A9C3C1F

Value	Update Shared Device Settings
Display (Internal Caller ID) Pool3C <small>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.</small>	<input type="checkbox"/>
ASCII Display (Internal Caller ID) Pool3C	<input type="checkbox"/>
Line Text Label Pool3C	<input type="checkbox"/>
ASCII Line Text Label Pool3C	<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 <small>Applies to this line when any line on the phone has a call in progress.</small>	<input type="checkbox"/>

### 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



## 7961 SIP Phone

Phone Configuration - Microsoft Internet Explorer

Address: <https://172.20.241.254/ccadmin/phoneEdit.do?key=36628e52-cc99-64db-4e9e-c0c931865e8b>

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

Status: Ready

Association Information	Phone Type
<p>Modify Button Items</p> <ol style="list-style-type: none"><li>Line [1] - 41012 (no partition)</li><li>Line [2] - Add a new DN</li><li>Add a new SD</li><li>Add a new SD</li><li>Add a new SD</li><li>Add a new SD</li><li>Unassigned Associated Items</li><li>Add a new SD</li><li>Add a new SURL</li><li>Add a new BLF SD</li><li>Privacy</li><li>None</li></ol>	<p><b>Product Type:</b> Cisco 7961 <b>Device Protocol:</b> SIP</p> <p><b>Device Information</b></p> <p>Registered with Cisco Unified CallManager CM-CLUSTER1-S</p> <p>IP Address: <a href="#">172.20.201.101</a></p> <p>MAC Address*: 00170EEE3394</p> <p>Description: 41012-7961SIP Pool3</p> <p>Device Pool*: Default</p> <p>Phone Button Template*: Standard 7961 SIP</p> <p>Softkey Template: Standard User</p> <p>Common Phone Profile*: Standard Common Phone Profile</p> <p>Calling Search Space: &lt; None &gt;</p> <p>AAR Calling Search Space: &lt; None &gt;</p> <p>Media Resource Group List: CCM_MRGL</p> <p>User Hold MOH Audio Source: &lt; None &gt;</p> <p>Network Hold MOH Audio Source: &lt; None &gt;</p> <p>Location*: Hub_None</p> <p>User Locale: &lt; None &gt;</p> <p>Network Locale: &lt; None &gt;</p> <p>Built In Bridge*: Default</p>



Phone Configuration - Microsoft Internet Explorer

Address: https://172.20.241.254/ccmadmin/phoneEdit.do?key=36628e52-cc99-64db-4e9e-c0c931865e8b

Built In Bridge\* Default

Privacy\* Default

Owner User ID < None >

Phone Load Name

Ignore Presentation Indicators (internal calls only)

Allow Control of Device from CTI

**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 < None >

Media Termination Point Required

Unattended Port

Require DTMF Reception

**Certification Authority Proxy Function (CAPF) Information**

Certificate Operation\* No Pending Operation

Authentication Mode\* By Null String

Authentication String

Generate String





Phone Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Chat

Address <https://172.20.241.254/ccmadmin/phoneEdit.do?key=36628e52-cc99-64db-4e9e-c0c931865e8b> Go Links

Google

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.

**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 -- Use Current Device Settings --

Login in User ID < None >

Log in Time < None >

Log out Time < None >

**MLPP Information**

MLPP Domain < None >

**Secure Shell Information**

Secure Shell User

Secure Shell Password

Done Local intranet



Phone Configuration - Microsoft Internet Explorer

Address: https://172.20.241.254/ccadmin/phoneEdit.do?key=36628e52-cc99-64db-4e9e-c0c931865e8b

Phone Configuration Add Tab

Log out Time < None >

**MLPP Information**  
MLPP Domain < None >

**Secure Shell Information**  
Secure Shell User  
Secure Shell Password

**Product Specific Configuration Layout**

- Disable Speakerphone
- Disable Speakerphone and Headset
- Forwarding Delay\* Disabled
- 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
- Recording Tone\* Disabled
- Recording Tone Local Volume\* 100
- Recording Tone Remote Volume\* 50
- Recording Tone Duration
- RTCP\* Disabled
- "more" Soft Key Timer 5
- Auto Call Select\* Enabled
- Log Server
- Advertise G.722 Codec\* Use System Default

Done Local intranet



Directory Number Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop

Address <https://172.20.241.254/ccadmin/directoryNumberEdit.do?key=6a1f6968-f5b9-8f7c-20f6-c1ae62321d73&mapkey=caeb4524-a358-cade-e634-2188d1d1df82&devicekey=36628e52-cc99-64db-4e9e-c0c931865e8b&index=1> Go Links

Google Go Bookmarks 0 blocked Check AutoLink AutoFill Send to Settings

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

Status  
Status: Ready

**Directory Number Information**

Directory Number\* 41012

Route Partition < None >

Description

Alerting Name

ASCII Alerting Name

Allow Control of Device from CTI

Associated Devices  
SEP00170EEE3394  
7961 w/ EXTMOB  
ADP00170EEE3394

[Edit Device](#)

[Edit Line Appearance](#)

Dissociate Devices

**Directory Number Settings**

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

Calling Search Space < None >

Presence Group\* Standard Presence group

AAR Group < None >

User Hold MOH Audio Source < None >

Done Local intranet



Directory Number Configuration - Microsoft Internet Explorer

Address: https://172.20.241.254/ccmadmin/directoryNumberEdit.do?key=6a1f6968-f5b9-8f7c-20f6-c1ae62321d73&mapkey=caeb4524-a358-cade-e634-2188d1d1df82&devicekey=36628e52-cc99-64db-4e9e-c0c931865e8b&index=1

Network Hold MOH Audio Source: < None >

Auto Answer\*: Auto Answer Off

### Call Forward and Call Pickup Settings

	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 >

### MLPP Alternate Party Settings

Target (Destination):

MLPP Calling Search Space: < None >

MLPP No Answer Ring Duration (seconds):

### Line 1 on Device SEP00170EEE3394

	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 (Internal Caller ID)	Pool3B	<input type="checkbox"/>

Done

Local intranet



Directory Number Configuration - Microsoft Internet Explorer

Address: https://172.20.241.254/cmadmin/directoryNumberEdit.do?key=6a1f6968-f5b9-8f7c-20f6-c1ae62321d73&mapkey=caeb4524-a358-cade-e634-2188d1d1df82&devicekey=36628e52-cc99-64db-4e9e-c0c931865e8b&index=1

### Line 1 on Device SEP00170EEE3394

Value	Update Shared Device Settings
Display (Internal Caller ID) Pool3B <small>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.</small>	<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 <small>Applies to this line when any line on the phone has a call in progress.</small>	<input type="checkbox"/>

### 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



Phone Configuration - Microsoft Internet Explorer

Address: https://172.20.241.254/ccmadmin/phoneEdit.do?key=e179d3df-1b94-24f7-640b-b2879b666f0d

Phone Configuration

Status: Ready

Association Information	Phone Type																																		
<p>Modify Button Items</p> <ol style="list-style-type: none"><li>Line [1] - 41014 (no partition)</li><li>Line [2] - Add a new DN</li><li>Add a new SD</li><li>Add a new SD</li><li>Add a new SD</li><li>Add a new SD</li><li>Add a new SD</li><li>Add a new SD</li><li>Unassigned Associated Items -----</li><li>Add a new SD</li><li>Add a new SURL</li><li>Add a new BLF SD</li><li>Privacy</li><li>None</li></ol>	<p>Product Type: Cisco 7971 Device Protocol: SIP</p> <p><b>Device Information</b></p> <table><tr><td>Registration</td><td>Registered with Cisco Unified CallManager CM-CLUSTER1-S</td></tr><tr><td>IP Address</td><td>172.20.201.102</td></tr><tr><td>MAC Address*</td><td>0015629E80F1</td></tr><tr><td>Description</td><td>41014-7971SIP Pool3</td></tr><tr><td>Device Pool*</td><td>Default</td></tr><tr><td>Phone Button Template*</td><td>Standard 7971 SIP</td></tr><tr><td>Softkey Template</td><td>Standard User</td></tr><tr><td>Common Phone Profile*</td><td>Standard Common Phone Profile</td></tr><tr><td>Calling Search Space</td><td>&lt; None &gt;</td></tr><tr><td>AAR Calling Search Space</td><td>&lt; None &gt;</td></tr><tr><td>Media Resource Group List</td><td>CCM_MRGL</td></tr><tr><td>User Hold MOH Audio Source</td><td>&lt; None &gt;</td></tr><tr><td>Network Hold MOH Audio Source</td><td>&lt; None &gt;</td></tr><tr><td>Location*</td><td>Hub_None</td></tr><tr><td>User Locale</td><td>English United States</td></tr><tr><td>Network Locale</td><td>United States</td></tr><tr><td>Built In Bridge*</td><td>Default</td></tr></table>	Registration	Registered with Cisco Unified CallManager CM-CLUSTER1-S	IP Address	172.20.201.102	MAC Address*	0015629E80F1	Description	41014-7971SIP Pool3	Device Pool*	Default	Phone Button Template*	Standard 7971 SIP	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	United States	Built In Bridge*	Default
Registration	Registered with Cisco Unified CallManager CM-CLUSTER1-S																																		
IP Address	172.20.201.102																																		
MAC Address*	0015629E80F1																																		
Description	41014-7971SIP Pool3																																		
Device Pool*	Default																																		
Phone Button Template*	Standard 7971 SIP																																		
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	United States																																		
Built In Bridge*	Default																																		



Phone Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Phone

Address <https://172.20.241.254/ccmadmin/phoneEdit.do?key=e179d3df-1b94-24f7-640b-b2879b666f0d> Go Links

Google Bookmarks 0 blocked Check AutoLink AutoFill Send to Settings

Privacy\* Default  
Owner User ID < None >  
Phone Load Name  
 Ignore Presentation Indicators (internal calls only)  
 Allow Control of Device from CTI

**Protocol Specific Information**

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 >  
 Media Termination Point Required  
 Unattended Port  
 Require DTMF Reception

**Certification Authority Proxy Function (CAPF) Information**

Certificate Operation\* No Pending Operation  
Authentication Mode\* By Null String  
Authentication String  
Generate String  
Key Size (Bits)\* 1024

Local intranet



Phone Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Phone

Address <https://172.20.241.254/ccmadmin/phoneEdit.do?key=e179d3df-1b94-24f7-640b-b2879b666f0d> Go Links

Google Go blocked Check AutoLink AutoFill Send to Settings

Operation Completes By     (YYYY:MM:DD:HH)  
Certificate Operation Status: None  
Note: Security Profile Contains Addition CAPF Settings.

**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 -- Use Current Device Settings --  
Login in User ID < None >  
Log in Time < None >  
Log out Time < None >

**MLPP Information**

MLPP Domain < None >

**Secure Shell Information**

Secure Shell User   
Secure Shell Password

**Product Specific Configuration Layout**

Local intranet





Phone Configuration - Microsoft Internet Explorer

Address: https://172.20.241.254/cmadmin/phoneEdit.do?key=179d3df-1b94-24f7-640b-b2879b666f0d

### Product Specific Configuration Layout

- Disable Speakerphone
- Disable Speakerphone and Headset
- Forwarding Delay\*
- PC Port\*
- Settings Access\*
- Gratuitous ARP\*
- PC Voice VLAN Access\*
- Video Capabilities\*
- Auto Line Select\*
- Web Access\*
- Days Display Not Active
- Display On Time
- Display On Duration
- Display Idle Timeout
- Span to PC Port\*
- Logging Display\*
- Load Server
- Recording Tone\*
- Recording Tone Local Volume\*
- Recording Tone Remote Volume\*
- Recording Tone Duration
- Display On When Incoming Call\*
- RTCP\*
- "more" Soft Key Timer
- Auto Call Select\*
- Log Server
- Advertise G.722 Codec\*



Directory Number Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Chat

Address: https://172.20.241.254/cmadmin/directoryNumberEdit.do?key=e48b7bcb-d3f8-fae1-8718-59396299c8b2&mapkey=2f5281c5-8b34-499b-a910-cbdecdbceab&devicekey=e179d3df-1b94-24f7-640b-b2879b666f0d&index=1

Google Bookmarks 0 blocked Check AutoLink AutoFill Send to Settings

Directory Number Configuration Related Links: Back To Find/List

Status  
Status: Ready

**Directory Number Information**

Directory Number\* 41014

Route Partition < None >

Description 41014-7971 SIP Pool3

Alerting Name Pool3D

ASCII Alerting Name Pool3D

Allow Control of Device from CTI

Associated Devices  
ADP0015629E80F1  
SEP0015629E80F1  
7971 w/ EXTMOB

Dissociate Devices

**Directory Number Settings**

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

Calling Search Space < None >

Presence Group\* Standard Presence group

AAR Group < None >

User Hold MOH Audio Source < None >

Done Local intranet



Directory Number Configuration - Microsoft Internet Explorer

Address: https://172.20.241.254/ccmadmin/directoryNumberEdit.do?key=e48b7bcb-d3f8-fae1-8718-59396299c8b2&mapkey=2f5281c5-8b34-499b-a910-cbdec8bceab8&devicekey=e179d3df-1b94-24f7-640b-b2879b666f0d&index=1

Network Hold MOH Audio Source: < None >

Auto Answer\*: Auto Answer Off

### Call Forward and Call Pickup Settings

	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 >

### MLPP Alternate Party Settings

Target (Destination):

MLPP Calling Search Space: < None >

MLPP No Answer Ring Duration (seconds):

### Line 1 on Device SEP0015629E80F1

	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 (Internal Caller ID)	Pool3D	<input type="checkbox"/>

Done



Directory Number Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Chat

Address: https://172.20.241.254/ccmadmin/directoryNumberEdit.do?key=e48b7bcb-d3f8-fae1-8718-59396299c8b2&mapkey=2f5281c5-8b34-499b-a910-cbdecdbceab&devicekey=e179d3df-1b94-24f7-640b-b2879b666f0d&index=1

Google

ASCII Display (Internal Caller ID)	Pool3D	<input type="checkbox"/>
Line Text Label	Pool3D	<input type="checkbox"/>
ASCII Line Text Label	Pool3D	<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	<input type="checkbox"/>

Applies to this line when any line on the phone has a call in progress.

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\*

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

**Forwarded Call Information Display on Device SEP0015629E80F1**

Caller Name

Caller Number

Redirected Number

Dialed Number

Save Delete Copy Reset Add New

**i** \*- indicates required item.

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

Done Local intranet



## End User Configuration

The screenshot shows a web browser window titled "End User Configuration - Microsoft Internet Explorer". The address bar contains the URL: `https://172.20.241.254/ccadmin/userEdit.do?key=5756a78d-26fa-87b2-d1dd-086ec8367096`. The page content is as follows:

- Status:** Status: Ready
- User Information:**
  - User ID\*: Pool3A
  - Password\*: [Redacted]
  - Confirm Password\*: [Redacted]
  - PIN\*: [Redacted]
  - Confirm PIN\*: [Redacted]
  - Last name\*: pool3A
  - Middle name: [Empty]
  - First name: [Empty]
  - Telephone Number: [Redacted]
  - Mail ID: [Empty]
  - Manager User ID: [Empty]
  - Department: [Empty]
  - User Locale: English United States
  - Associated PC: [Empty]
  - Digest Credentials: [Empty]
  - Confirm Digest Credentials: [Empty]
- Device Associations:** Controlled Devices [Empty]



End User Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop

Address <https://172.20.241.254/ccmadmin/userEdit.do?key=5756a78d-26fa-87b2-d1dd-086ec8367096> Go Links

Google Bookmarks 0 blocked Check AutoLink AutoFill Send to Settings

**Device Associations**  
Controlled Devices SEP0011219E5721 Device Association

**Extension Mobility**  
Available Profiles  
7961 w/ EXTMOB  
7970 w/ EXTMOB  
7970 w/ EXTMOB Pool4  
7971 w/ EXTMOB  
IPPhone w/ EXTMOB  
Controlled Profiles  
7960 w/ EXTMOB  
Default Profile < None >  
Presence Group\* Standard Presence group  
SUBSCRIBE Calling Search Space < None >  
 Allow Control of Device from CTI

**Directory Number Associations**  
Primary Extension 41015

**CAPF Information**  
Associated CAPF Profiles  
[View Details](#)

Done Local intranet



End User Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop

Address <https://172.20.241.254/ccmadmin/userEdit.do?key=5756a78d-26fa-87b2-d1dd-086ec8367096> Go Links

Google Go Bookmarks 0 blocked Check AutoLink AutoFill Send to Settings

Default Profile < None >

Presence Group\* Standard Presence group

SUBSCRIBE Calling Search Space < None >

Allow Control of Device from CTI

**Directory Number Associations**

Primary Extension 41015

**CAPF Information**

Associated CAPF Profiles

[View Details](#)

**Permissions Information**

Groups

[View Details](#)

Roles

[View Details](#)

Save Delete Add New

\*- indicates required item.

Done Local intranet



## Licensing Capabilities Assignments

The screenshot shows a web browser window titled "Capabilities Assignment Configuration - Microsoft Internet Explorer". The address bar shows the URL: <https://172.20.241.254/ccadmin/capassignEdit.do?key=S756a78d-26fa-87b2-d1dd-086ec8367096>. The page content includes:

- Navigation:** Cisco Unified CallManager Administration | Go
- Page Header:** Cisco Unified CallManager Administration For Cisco Unified Communications Solutions | Logged in as: CCAdministrator
- System Menu:** System | Call Routing | Media Resources | Voice Mail | Device | Application | User Management | Bulk Administration | Help | Log Off
- Page Title:** 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)
- Buttons:** Save
- Footnote:** \*- indicates required item.





## Phone Services

The screenshot shows the Cisco Unified CallManager Administration interface for IP Phone Services Configuration. The browser window title is "IP Phone Services Configuration - Microsoft Internet Explorer". The address bar shows the URL: <https://172.20.241.254/ccmadmin/phoneServicesEdit.do?key=c7ef89d8-2ceb-7a96-b4e6-fc99cb0235c5>. The page header includes "Cisco Unified CallManager Administration" and "Logged in as: CCMAdministrator". A navigation menu is visible with options like System, Call Routing, Media Resources, Voice Mail, Device, Application, User Management, Bulk Administration, and Help. The main content area is titled "IP Phone Services Configuration" and includes a "Status" section showing "Status: Ready". Below this is the "Service Information" section with a table:

Service Name*	ASCII Service Name*
EXTMOB	EXTMOB
Service Description	Service URL*
Extension Mobility	<a href="http://172.20.241.253:8080/emapp/EMAppServlet?device=">http://172.20.241.253:8080/emapp/EMAppServlet?device=</a>

Below the table is the "Service Parameter Information" section with a "Parameters" table and buttons for "New", "Edit", and "Delete". At the bottom of the form are buttons for "Save", "Delete", "Update Subscriptions", and "Add New". A note at the bottom left states: "i - indicates required item."



## Phone URL Services

Enterprise Parameters Configuration - Microsoft Internet Explorer

Address: <https://172.20.241.254/ccadmin/serviceParamEdit.do?service=11>

Use Standard VM Handling For Precedence Calls *	False	False
<b>Security Parameters</b>		
Cluster Security Mode *	0	
CAPF Phone Port *	3804	3804
CAPF Operation Expires in (days) *	10	10
<b>Phone URL Parameters</b>		
URL Authentication	<input type="text" value="http://172.20.241.253:8080/ccmcip/authenticate.jsp"/>	
URL Directories	<input type="text" value="http://172.20.241.253:8080/ccmcip/xmldirectory.jsp"/>	
URL Idle	<input type="text"/>	
URL Idle Time	<input type="text" value="0"/>	0
URL Information	<input type="text" value="http://172.20.241.253:8080/ccmcip/GetTelecasterHelpText.jsp"/>	
URL Messages	<input type="text"/>	
IP Phone Proxy Address	<input type="text"/>	
URL Services	<input type="text" value="http://172.20.241.253:8080/ccmcip/getservicesmenu.jsp"/>	
<b>User Search Parameters</b>		
Enable All User Search *	True	True
User Search Limit *	64	64
<b>CCM Web Services Parameters</b>		
Allowed Performance Queries Per Minute *	<input type="text" value="50"/>	50
Allowed Device Queries Per Minute *	<input type="text" value="15"/>	15
Performance Queue Limit *	<input type="text" value="100"/>	100
Maximum Performance Counters Per Session *	<input type="text" value="100"/>	100

Done Local Intranet



## 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

[Find more Phones](#)

[Find more Route Points](#)

[Find more Pilot Points](#)

- SEP00170EEE3394
- SEP00152B360947
- SEP0015629E80F1
- SEP00192F07EE84

Done Local intranet



Application User Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites

Address <https://172.20.241.254/ccmadmin/appuserEdit.do?key=9c8f3976-e5e7-e70b-e991-838eb0ceafe9> Go Links

Google Go blocked Check AutoLink AutoFill Send to Settings

v v

SEP00170EEE3394  
SEP00152B360947  
SEP0015629E80F1  
SEP00192F07EE84

**CAPF Information**  
Associated CAPF Profiles

[Edit Profile](#)

v v

**Permissions Information**

Groups

Standard CTI Allow Control of All Devices  
Standard CTI Enabled

[Edit Group](#)

v v

Roles

Standard CTI Allow Control of All Devices  
Standard CTI Enabled

[Edit Role](#)

v v

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

\*- indicates required item.

Done Local intranet



Application User Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop

Address <https://172.20.241.254/ccadmin/appuserEdit.do?key=d43e7dd7-177d-4ae2-a6b6-c47c88eecdcd> Go Links

Google Go Bookmarks 0 blocked Check AutoLink AutoFill Send to Settings

### 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
SEP001422A9DFAD
SEP00152B8F351B

Find more Phones  
Find more Route Points  
Find more Pilot Points

SEP0011219E5721  
SEP00146A9C3C1F  
SEP00152B360947  
SEP00170EEE3394  
SEP0015679F80F1

Done Local intranet



Application User Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop

Address <https://172.20.241.254/ccadmin/appuserEdit.do?key=d43e7dd7-177d-4ae2-a6b6-c47c88eecdcd> Go Links

Google Go 0 blocked Check AutoLink AutoFill Send to Settings

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

\*- indicates required item.

Done Local intranet



## Dial Rules Configuration

Application Dial Rule Configuration - Microsoft Internet Explorer

Address: https://172.20.241.254/ccadmin/appdialrulesSave.do?redirect=1&pkid=feaec6d5-2a83-0a14-e1b8-550853df768c

Navigation: Cisco Unified CallManager Administration

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

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

Media Resource Group Configuration - Microsoft Internet Explorer

Address: <https://172.20.241.254/ccadmin/mrsrcGroupEdit.do?key=203d0e4e-528e-86f9-0b12-69e4ba934df4>

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\*   
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)

\*- indicates required item.





## Meet-Me Number

The screenshot shows a Microsoft Internet Explorer browser window displaying the Cisco Unified CallManager Administration web interface. The browser's address bar shows the URL: `https://172.20.241.254/ccadmin/meetMeEdit.do?key=c4b798bc-ea73-6242-2397-9f11c5db3497`. The page title is "Meet-Me Number Configuration - Microsoft Internet Explorer".

The web interface has a navigation bar at the top with the following elements:

- Navigation: Cisco Unified CallManager Administration
- Logged in as: CCMAdministrator
- System | Call Routing | Media Resources | Voice Mail | Device | Application | User Management | Bulk Administration | Help
- Log Off

The main content area is titled "Meet-Me Number Configuration" and includes the following sections:

- Status:** Status: Ready
- Meet-Me Configuration:**
  - Directory Number or Pattern\*:
  - Description:
  - Partition:
- Buttons: Save, Delete, Copy, Add New
- Info: \*- indicates required item.

The browser's status bar at the bottom shows "Done" and "Local intranet".



## Cisco Unified Presence (CUPS) Configuration

### CUPS Version

Cisco Unified Presence Administration  
For Cisco Unified Communications Solutions

Navigation Cisco Unified Presence Administration GO

CCMAdministrator About What's New Logout

System Cisco Unified Presence Application User Management Bulk Administration Help

# Cisco Unified Presence Administration

System version: 6.0.0.9911-12

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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).

Cisco Unified Communications Manager Publisher Address: [172.20.241.254](https://172.20.241.254)



## CUPS Method / Event – Based Routing Entries

The screenshot shows the Cisco Unified Presence Administration web interface in Microsoft Internet Explorer. The browser address bar shows the URL: `https://172.20.245.40:8443/ccadmin/content/RoutingFindList.do?<%=reqParams%>#recCnt=0&colCnt=7`. The page title is "Find and List Method/Event-Based Routing Entries".

The interface includes a navigation menu with "CCMAdministrator", "About", "What's New", and "Logout". Below the navigation is a breadcrumb trail: "System > Cisco Unified Presence > Application > User Management > Bulk Administration > Help".

The main content area is titled "Find and List Method/Event-Based Routing Entries". It features a toolbar with "Add New", "Select All", "Clear All", and "Delete Selected" buttons. A status bar indicates "Records found: 3".

The table below displays the routing entries:

Name	Description	Content Token	Content Category	Destination Address	Destination Port
<a href="#">ProfileConfig</a>	Multi-Login/Change Notification	profileconfig	Event Type-Based	172.20.245.40	5070
<a href="#">SystemPublish</a>	System Managed Publish	PUBLISH	Method-Based	172.20.245.40	5070
<a href="#">SystemSubscribe</a>	System Managed Subscribe	SUBSCRIBE	Method-Based	172.20.245.40	5070

At the bottom of the interface, there are buttons for "Add New", "Select All", "Clear All", and "Delete Selected". The status bar at the very bottom shows "Done" and "Local intranet".



## CUPS Method / Event – Based Routing Configuration

The screenshot shows the Cisco Unified Presence Server Administration web interface in Microsoft Internet Explorer. The browser address bar shows the URL: <https://172.20.245.40/ccmadmin/contentRoutingEdt.do?key=23621839-30d0-4373-abec-c1b58eaffa8d>. The page title is "Method/Event-Based Routing Configuration - Microsoft Internet Explorer".

The main content area is titled "Method/Event-Based Routing Configuration" and includes the following elements:

- 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
- Buttons:** Save, Delete, Copy, Add New
- Legend:** \* - indicates required item.

The interface also features a navigation menu at the top with options like System, Cisco Unified Presence Server, Application, User Management, Bulk Administration, and Help. A "Log Off" button is also present.



## Unified Communications Manager Presence Gateway Configuration



## CTI Gateway Configuration

The screenshot shows the Cisco Unified Presence Administration web interface in Microsoft Internet Explorer. The browser address bar shows the URL: `https://172.20.245.40:8443/ccmadmin/ctiSettingsEdit.do`. The page title is "CTI Gateway Settings - Microsoft Internet Explorer".

The interface includes a navigation menu with the following items: System, Cisco Unified Presence, Application, User Management, Bulk Administration, and Help. The current page is "CTI Gateway Settings".

The main content area is titled "CTI Gateway Settings" and contains the following sections:

- Status:** Status: Ready
- CTI Gateway Application Settings:**
  - Application Status\*: On
  - Application Username: CtiGW
  - Application Password: [Redacted]
  - Confirm Password: [Redacted]
  - Heartbeat Interval (seconds)\*: 8
  - Session Timer (seconds)\*: 1810
  - Cisco Unified Communications Manager Address (1 of 8): 172.20.241.254
  - Cisco Unified Communications Manager Address (2 of 8): 172.20.241.253
  - Cisco Unified Communications Manager Address (3 of 8): [Empty]
  - Cisco Unified Communications Manager Address (4 of 8): [Empty]
  - Cisco Unified Communications Manager Address (5 of 8): [Empty]
  - Cisco Unified Communications Manager Address (6 of 8): [Empty]
  - Cisco Unified Communications Manager Address (7 of 8): [Empty]
  - Cisco Unified Communications Manager Address (8 of 8): [Empty]

A "Save" button is located at the bottom of the settings section. A note at the bottom left states: "i \* indicates required item."



## MOC Assignments

The screenshot shows the Cisco Unified Presence Administration web interface in Microsoft Internet Explorer. The page title is "Find and List MOC Assignments". The breadcrumb navigation is: System > Cisco Unified Presence > Application > User Management > Bulk Administration > Help. The main content area is titled "Find and List MOC Assignments" and includes a "Microsoft Office Communicator Usage" summary showing "17 MOC users assigned". Below this is a table of "Licensed Cisco Unified Presence Users (1 - 17 of 17)". The table has columns for checkboxes, User ID, Last Name, Manager, Department, and MOC Enabled. The "MOC Enabled" column contains checkmarks for all listed users. At the bottom of the table are buttons for "Select All", "Clear All", and "Bulk Assignment".

<input type="checkbox"/>	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="#">fcruz</a>	Cruz			✓
<input type="checkbox"/>	<a href="#">pool4A</a>	pool4			✓
<input type="checkbox"/>	<a href="#">smasters</a>	Masters			✓
<input type="checkbox"/>	<a href="#">tvore</a>	Vore			✓



## AXL Information

The screenshot shows a Microsoft Internet Explorer browser window displaying the Cisco Unified Presence Administration web interface. The browser's address bar shows the URL: `https://172.20.245.40:8443/ccadmin/axlPrefsEdit.do`. The page title is "Sync Agent AXL Configuration - Microsoft Internet Explorer".

The interface features a navigation bar with the Cisco logo and the text "Cisco Unified Presence Administration For Cisco Unified Communications Solutions". The user is logged in as "CCAdministrator". The main content area is titled "Sync Agent AXL Configuration" and includes a "Save" button. Below this, there is a "Status" section showing "Status: Ready".

The "AXL Credential Information" section provides instructions: "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." Below the instructions are three input fields: "AXL Username\*" (containing "CCAdministrator"), "AXL Password\*" (masked with dots), and "Confirm Password\*" (masked with dots). A "Save" button is located below these fields.

A note at the bottom of the form states: "i \*- indicates required item."





Privacy ACL Entry (Allowed Destination Host)

The screenshot shows the Cisco Unified Presence Administration web interface in Microsoft Internet Explorer. The browser title is "Find and List Allowed Destination Hosts - Microsoft Internet Explorer". The address bar shows the URL: <https://172.20.245.40:8443/cmadmin/privacyAcFindList.do?<%=reqParams%>&recCnt=0&colCnt=3>. The page header includes the Cisco logo and "Cisco Unified Presence Administration For Cisco Unified Communications Solutions". The navigation menu shows "CCMAAdministrator", "About", "What's New", and "Logout". The main content area is titled "Find and List Allowed Destination Hosts" and includes buttons for "Add New", "Select All", "Clear All", and "Delete Selected". A "Status" section indicates "Records found: 5". Below this is a search section for "Outgoing ACL Entry (1 - 5 of 5)" with a search filter set to "Address Pattern" and "begins with". A table displays the results:

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

At the bottom of the table, there are buttons for "Add New", "Select All", "Clear All", and "Delete Selected". The status bar at the bottom of the browser shows "Local intranet".



Proxy ACL Entry (Allowed Incoming Host)

The screenshot shows the Cisco Unified Presence Administration web interface in Microsoft Internet Explorer. The browser address bar shows the URL: `https://172.20.245.40:8443/ccmadmin/proxyAcFindList.do?<%=reqParams%>&recCnt=0&colCnt=3`. The page title is "Find and List Allowed Incoming Hosts".

The interface includes a navigation menu with "Cisco Unified Presence Administration" and "GO" button. Below the navigation, there are tabs for "System", "Cisco Unified Presence", "Application", "User Management", "Bulk Administration", and "Help".

The main content area is titled "Find and List Allowed Incoming Hosts" and contains the following elements:

- Buttons: Add New, Select All, Clear All, Delete Selected
- Status: Records found: 5
- Section: Incoming ACL Entry (1 - 5 of 5) with "Rows per Page" set to 50.
- Search: Find Incoming ACL Entry where Address Pattern begins with [input field] Find Clear Filter [input field]
- Table with columns: Address Pattern and Description.
- Buttons: Add New, Select All, Clear All, Delete Selected

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



## IP Phone Messenger Setting

The screenshot shows the IP Phone Messenger Settings page in a Microsoft Internet Explorer browser. The browser's address bar displays the URL: `https://172.20.245.40:8443/ccmadmin/ppmPrefsEdit.do`. The page title is "IP Phone Messenger Settings - Microsoft Internet Explorer".

The page content includes the following sections:

- Navigation:** Cisco Unified Presence Administration, For Cisco Unified Communications Solutions. User: CCMAdministrator. Links: About, What's New, Logout.
- System:** Cisco Unified Presence, Application, User Management, Bulk Administration, Help.
- 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*	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:** A button to save the settings.
- Footnote:** \* - indicates required item.



## IP Phone Messenger User

The screenshot shows the Cisco Unified Presence Administration web interface in Microsoft Internet Explorer. The page title is "Find and List IP Phone Messenger Users". The address bar shows the URL: <https://172.20.245.40:8443/ccadmin/ppmStatusFindList.do?<%=reqParams%>&recCnt=0&colCnt=6>. The page header includes the Cisco logo and "Cisco Unified Presence Administration For Cisco Unified Communications Solutions". The navigation menu shows "CCMAdministrator", "About", "What's New", and "Logout". The main content area displays "Find and List IP Phone Messenger Users" with a status bar indicating "Records found: 17". Below this is a table titled "IP Phone Messenger Status (1 - 17 of 17)" with a "Rows per Page" dropdown set to 50. The table has columns for checkboxes, User-ID, First Name, Last Name, Manager, Department, and Login Status. The table contains 17 rows of user data. At the bottom of the table, there are buttons for "Select All", "Clear All", "Logout", and "Broadcast", along with a "Message:" input field.

<input type="checkbox"/>	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"/>	fcruz	Filli	Cruz			
<input type="checkbox"/>	pool4A		pool4			
<input type="checkbox"/>	smasters	Steve	Masters			
<input type="checkbox"/>	tvore	Terry	Vore			



## 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 LCSPPOOL3
```

```
content LCSPPOOL3_135  
add service LCSPPOOL3_135  
port 135  
protocol tcp  
vip address 172.20.191.10  
active
```

```
content LCSPPOOL3_5060  
add service LCSPPOOL3_5060  
protocol tcp  
port 5060  
vip address 172.20.191.10  
active
```

```
content LCSPPOOL3_5061  
protocol tcp  
add service LCSPPOOL3_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
```

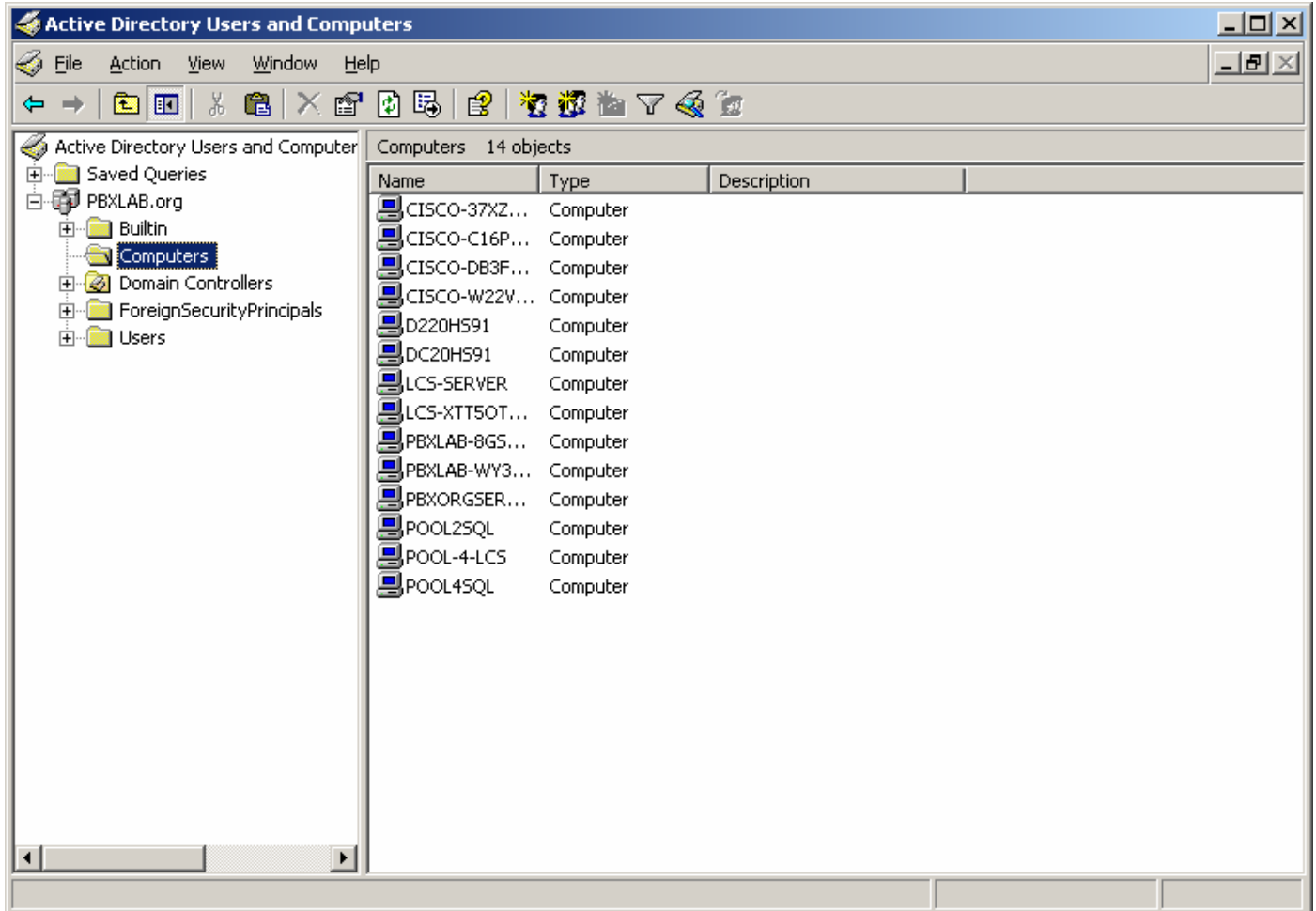
```
Enhanced Feature Set
```

```
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:

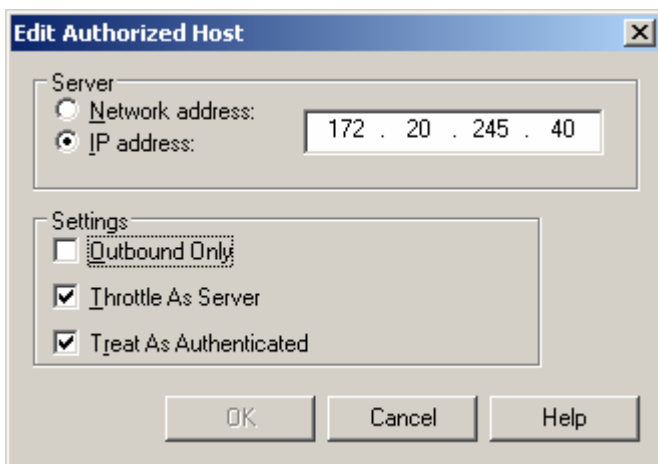
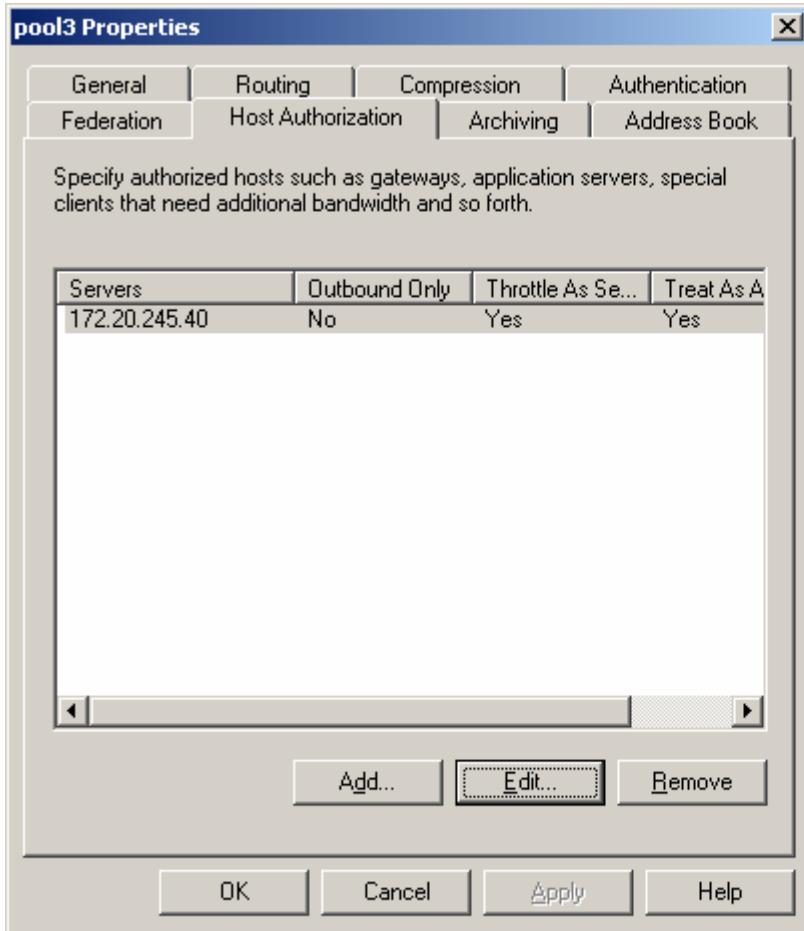
Replace host in request URI

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





Server Properties

pbxorgserver.pbxlab.org Properties

General Security Logging

Live Communications Server

Server:  
pbxorgserver.pbxlab.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

The screenshot shows the Microsoft Office Live Communications Server 2005 interface. On the left is a tree view of the server hierarchy, including domains, servers, and user pools. The main pane displays a table of users, with the 'Users' folder under 'pool3' selected. The table lists various users, including a 4100 extension, several named users, and five pool users (Pool3A through Pool3E).

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

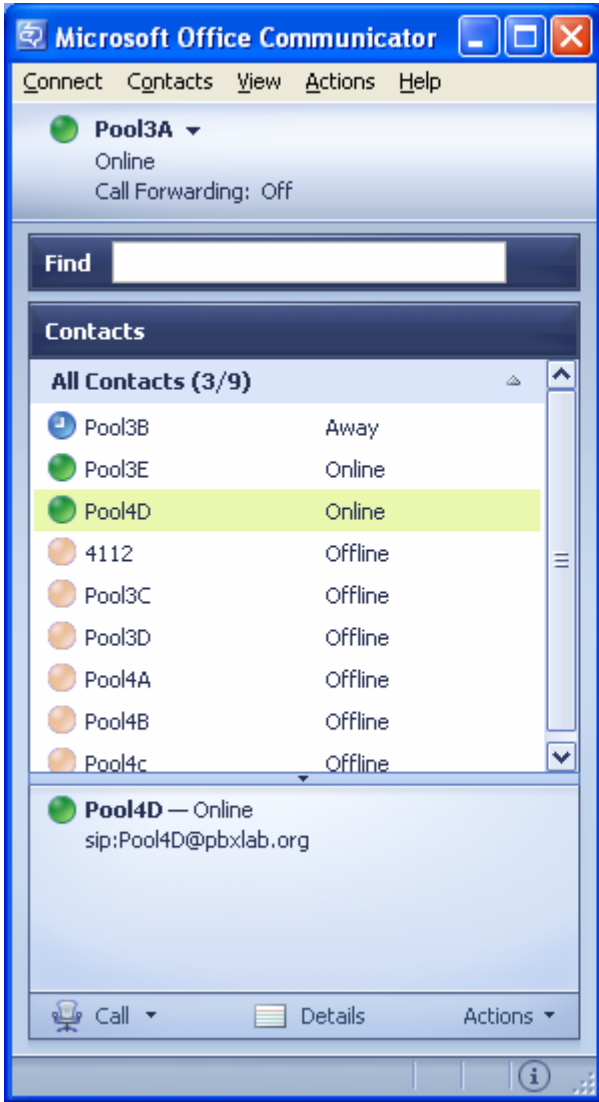
Archiving Settings

- 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** [X]

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** [Close]

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>Notify</b>

[New...] [Edit...] [Delete]

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

[OK] [Cancel] [Help]

**Options** [X]

Personal | General | Instant Messages | Alerts | Permissions | Phones | **Accounts** | Rules

**My account name**

Sign-in name:

**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

**Conferencing information**

**C**onference ID:

**L**eader code:

**P**articipant code:

**D**omain:

**T**oll:

**T**oll free:

**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

CUCM	Cisco Unified Communications Manager
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	Skinny 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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