



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

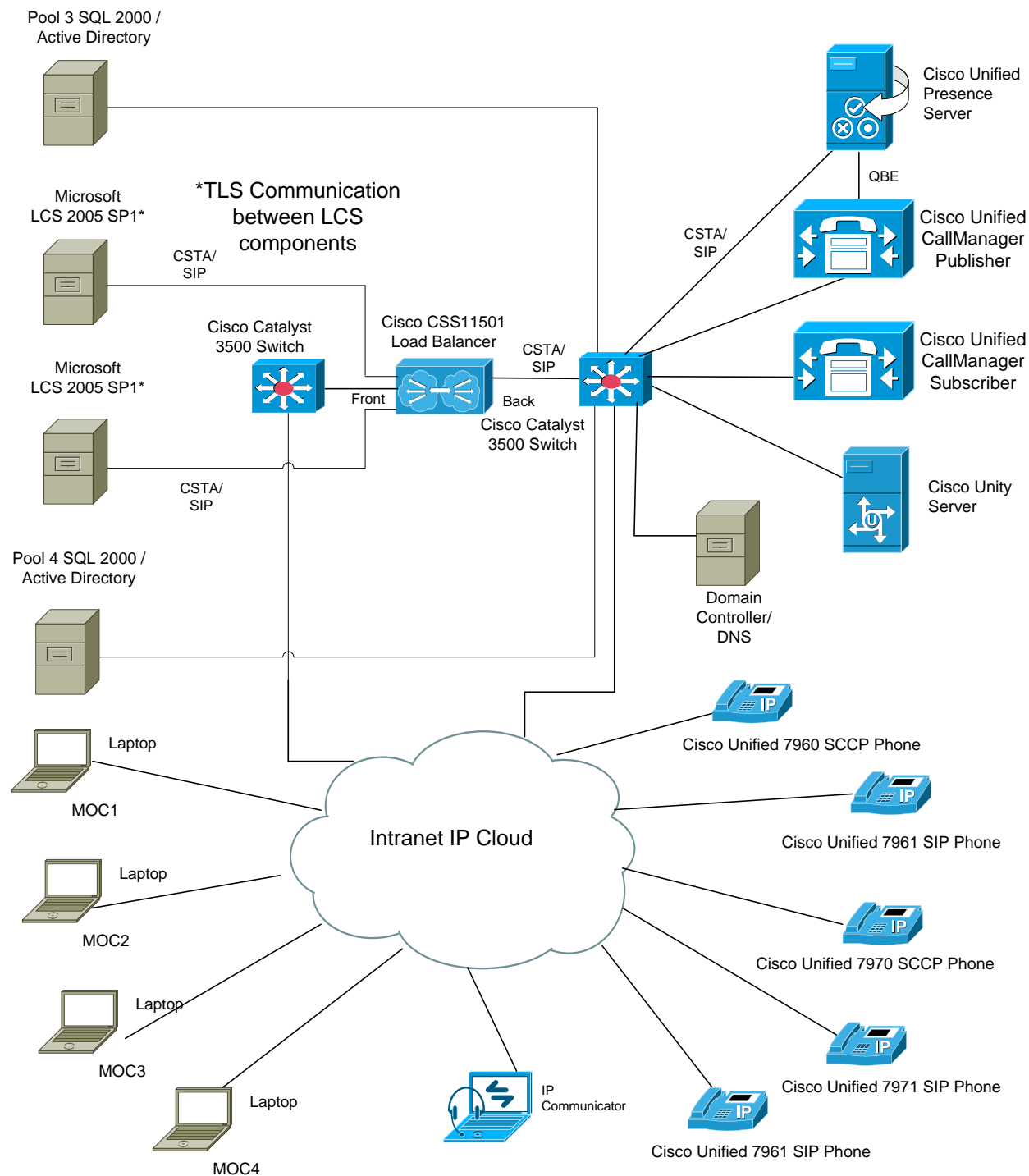
This document was issued to show feature interoperability and to document the steps and configurations necessary for Cisco Unified Communications Manager (CUCM) 5.1.1 and Cisco Unified Presence (CUP) 6.0(1) to interoperate with the Microsoft Live Communication Server (LCS) 2005 Enterprise Edition SP1. 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/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

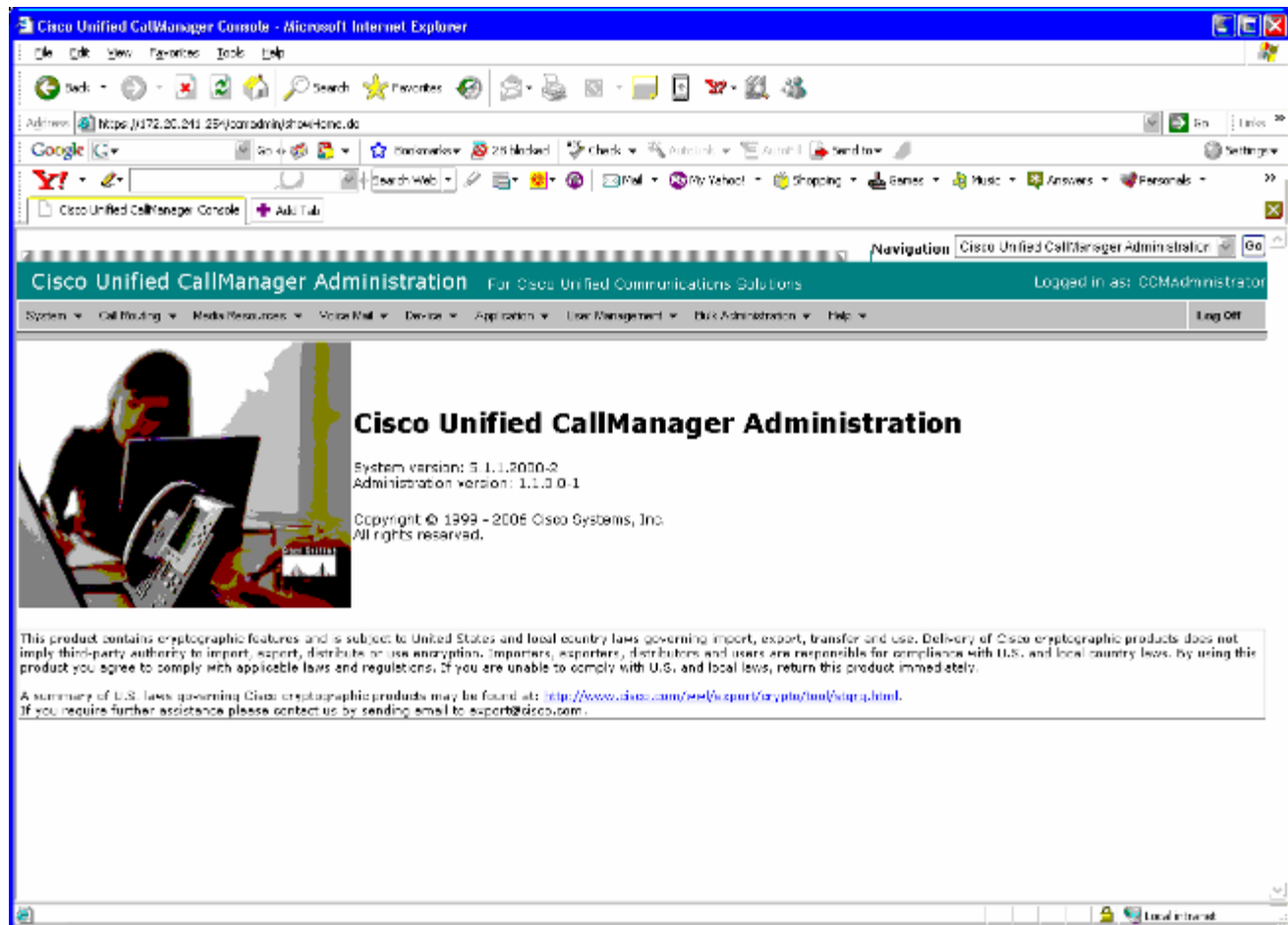
1. Domain Name Server
2. Pool Properties
3. Static Route
4. Authorized Host
5. Server Properties
6. Pool Users
7. User Configuration
8. Microsoft Office Communicator (MOC) Configuration



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

Back Forward Stop Reload Home Search Favorites RSS Print Mail News Groups Shopping Games Music

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

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

Back Forward Stop Reload Home Search Favorites Print Mail News RSS Feeds

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

Google Go Bookmarks 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

*- indicates required item.

**- 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

Phone Configuration - Microsoft Internet Explorer

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

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

Phone Configuration Related Links: Back To Find/List

Status: Ready

Association Information

Modify Button Items

- Line [1] - 41015 (no partition)
- Line [2] - Add a new DN
- Add a new SD
- Add a new SD
- Add a new SD
- Add a new SD
- Unassigned Associated Items
- Add a new SD
- Add a new SURL
- Add a new BLF SD
- Privacy
- None

Phone Type

Product Type: Cisco 7960

Device Protocol: SCCP

Device Information

Registration: Registered with Cisco Unified CallManager CM-CLUSTER1-S

IP Address: 172.20.201.118

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 RSS Feeds Print Mail Phone

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

Google Go Bookmarks 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	

Generate String

Done Local intranet



Phone Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites AutoLink AutoFill Send to Settings

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

Google

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

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites AutoLink AutoFill Send to Settings

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

Google

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

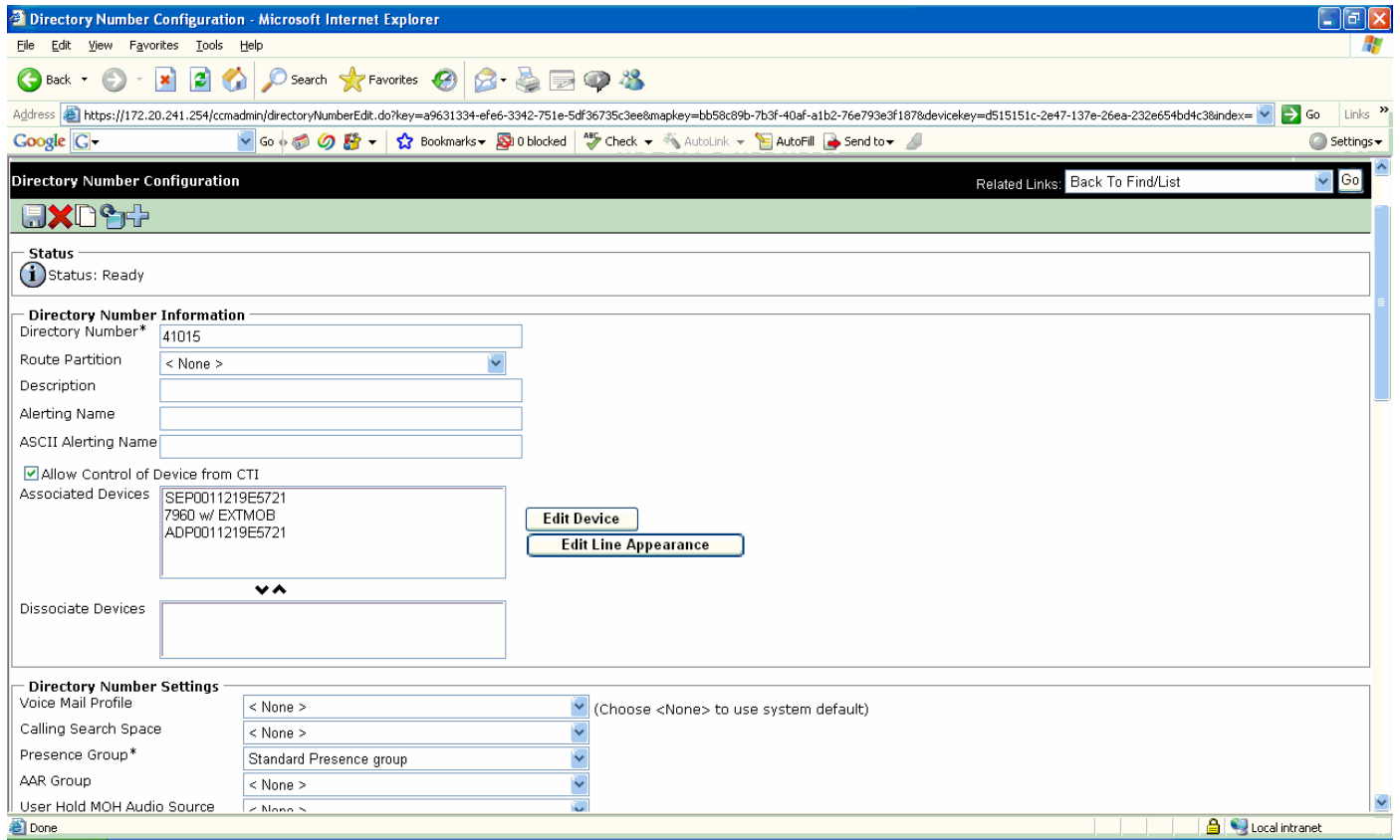
Product Specific Configuration Layout

☐ 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](#)

i *- indicates required item.
i **-. 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 Reload Home Search Favorites Print Mail News RSS Feeds

Address <https://172.20.241.254/ccadmin/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

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	<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 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

Save Delete Copy Reset Add New

Done Local Intranet



7970 SCCP Phone

Phone Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites RSS Feeds Print Mail Chat

Address: https://172.20.241.254/ccmadmin/phoneEdit.do?key=b5bc9bf4-3a47-af09-5df1-3535a218d1bf Go Links

Google Go Bookmarks 0 blocked Check AutoLink AutoFill Send to Settings

Phone Configuration Related Links: Back To Find/List Go

Status
Status: Ready

Association Information
Modify Button Items

- 7970 Line [1] - 41016 (no partition)
- 7970 Line [2] - Add a new DN
- 7970 Add a new SD
- Add a new SD
- Add a new SD
- Add a new SD
- Add a new SD
- Add a new SD
- Unassigned Associated Items -----
- Add a new SD
- Add a new SURF
- Add a new BLF SD
- Privacy
- 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

Local intranet



Phone Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites RSS Feeds Print Mail Chat

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

Google G 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 Reload Home Search Favorites RSS Feeds Print Mail Chat

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

Google Bookmarks 0 blocked Check AutoLink AutoFill Send to 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

☒ 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 >

MLPP Indication* Default

MLPP Preemption* Default

Done Local intranet



Phone Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites AutoLink AutoFill Send to Settings

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

Google Go Bookmarks 28 blocked Check AutoLink AutoFill Send to Settings

Search Web Mail My Yahoo! Shopping Games Music Answers Personals

Phone Configuration Add Tab

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* Enabled

Auto Line Select* Disabled

Web Access* Enabled

Days Display Not Active Sunday Monday Tuesday

Display On Time 07:30

Display On Duration 10:30

Display Idle Timeout 01:00

Span to PC Port* Disabled

Logging Display* PC Controlled

Load Server

Recording Tone* Disabled

Recording Tone Local Volume* 100

Recording Tone Remote Volume* 50

Recording Tone Duration

Display On When Incoming Call* Disabled

RTCP* Disabled

"more" Soft Key Timer 5

Auto Call Select* Enabled

Log Server

Advertise G.722 Codec* Use System Default

Done Local intranet



Directory Number Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites RSS Print Mail News Chat

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> Go Links

Google Go Bookmarks 0 blocked AMP Check AutoLink AutoFill Send to Settings

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

Status
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

[Edit Device](#)

[Edit Line Appearance](#)

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 >

Done Local Intranet



Directory Number Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites RSS Feeds Print Mail AutoLink AutoFill Send to Settings

Address <https://172.20.241.254/ccmadmin/directoryNumberEdit.do?key=481a173a-755a-6a9b-1a76-ece0e1d46066&mapkey=9fa20ac0-3a3d-b69b-a45c-af9a987284dc&devicekey=b5bc9bf4-3a47-af09-5df1-3535a218d1bf&index=1> Go Links

Google

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 >

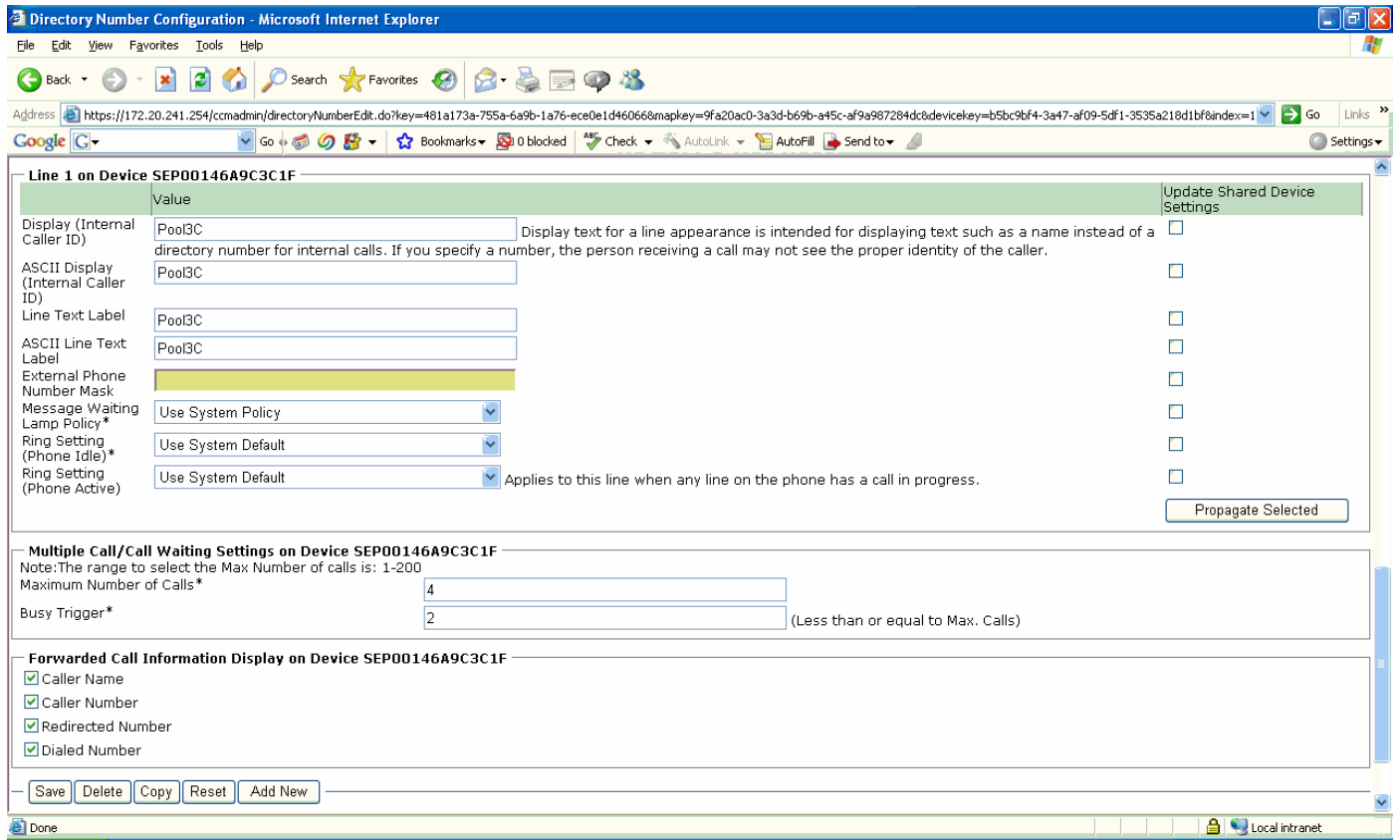
MLPP No Answer Ring Duration (seconds):

Line 1 on Device SEP00146A9C3C1F

	Value	Update Shared Device Settings
Display (Internal Caller ID)	P0013C	<input type="checkbox"/>
ASCII Display	Pnn13C	<input type="checkbox"/>

Done

Local intranet





7961 SIP Phone

Phone Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites RSS Feeds Print Mail Chat

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

Google Go Bookmarks 0 blocked Check AutoLink AutoFill Send to Settings

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

Status
Status: Ready

Association Information
Modify Button Items

- Line [1] - 41012 (no partition)
- Line [2] - Add a new DN
- Add a new SD
- Add a new SD
- Add a new SD
- Add a new SD
- Unassigned Associated Items
- Add a new SD
- Add a new SURL
- Add a new BLF SD
- Privacy
- None

Phone Type
Product Type: Cisco 7961
Device Protocol: SIP

Device Information

Registration	Registered with Cisco Unified CallManager CM-CLUSTER1-S
IP Address	172.20.201.101
MAC Address*	00170EEE3394
Description	41012-7961SIP Pool3
Device Pool*	Default
Phone Button Template*	Standard 7961 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	< None >
Network Locale	< None >
Built In Bridge*	Default

Done Local intranet



Phone Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites RSS Feeds Mail Print Phone

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

Google Go 0 blocked Check AutoLink AutoFill Send to Settings

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	

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 >
<input type="checkbox"/> Media Termination Point Required	
<input type="checkbox"/> Unattended Port	
<input type="checkbox"/> Require DTMF Reception	

Certification Authority Proxy Function (CAPF) Information

Certificate Operation*	No Pending Operation
Authentication Mode*	By Null String
Authentication String	

Generate String

Done Local intranet



Phone Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites RSS Mail Print Chat

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

Google Go Bookmarks 0 blocked Check AutoLink AutoFill Send to Settings

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

File Edit View Favorites Tools Help

Address <https://172.20.241.254/ccadmin/phoneEdit.do?key=36620e52-cc99-64db-4e9e-c0c931865e8b>

Google Search Bookmarks 28 blocked Check AutoLink AutoFill Send to Settings

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 Reload Print Mail News RSS Feeds

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> 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

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites RSS Mail Print Chat

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> Go Links

Google Go Bookmarks 0 blocked Check AutoLink AutoFill Send Settings

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 >	

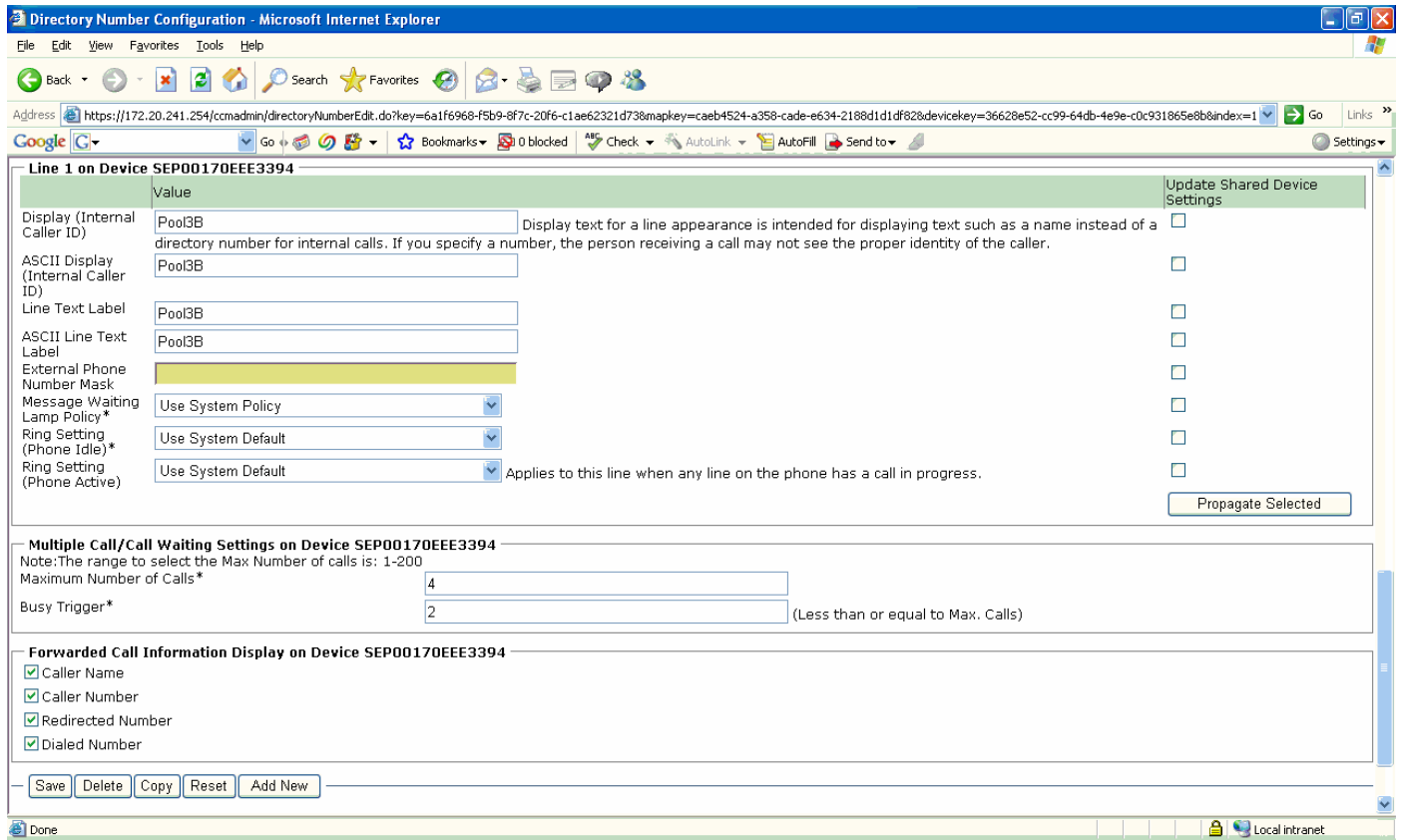
MLPP Alternate Party Settings

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





Phone Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites RSS Feeds Print Mail Chat

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

Google Go 0 blocked Check AutoLink AutoFill Send Settings

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

Status
Status: Ready

Association Information
Modify Button Items

- 7912 Line [1] - 41014 (no partition)
- 7912 Line [2] - Add a new DN
- Add a new SD
- Add a new SD
- Add a new SD
- Add a new SD
- Add a new SD
- Add a new SD
- Unassigned Associated Items -----
- Add a new SD
- Add a new SURL
- Add a new BLF SD
- Privacy
- None

Phone Type
Product Type: Cisco 7971
Device Protocol: SIP

Device Information

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

Local intranet



Phone Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites RSS Feeds Mail Print Phone

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

Google Go 0 blocked Check AutoLink AutoFill Send to Settings

Privacy*

Owner User ID Default

Phone Load Name < None >

☐ 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 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 Reload Home Search Favorites RSS Mail Print Chat

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

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

Product Specific Configuration Layout

Local intranet



Phone Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Print Mail AutoLink AutoFill Send to Settings

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

Google Go Bookmarks 28 blocked Check AutoLink AutoFill Send to Settings

Y! Search Web Mail My Yahoo! Shopping Games Music Answers Personals

Phone Configuration Add Tab

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

Days Display Not Active Sunday Monday Tuesday

Display On Time 07:30

Display On Duration 10:30

Display Idle Timeout 01:00

Span to PC Port* Disabled

Logging Display* PC Controlled

Load Server

Recording Tone* Disabled

Recording Tone Local Volume* 100

Recording Tone Remote Volume* 50

Recording Tone Duration

Display On When Incoming Call* Disabled

RTCP* Disabled

"more" Soft Key Timer 5

Auto Call Select* Enabled

Log Server

Advertise G.722 Codec* Use System Default

Local intranet



Directory Number Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites RSS Print Mail News Groups

Address <https://172.20.241.254/ccmadmin/directoryNumberEdit.do?key=e48b7bcb-d3f8-fae1-8718-59396299c8b2&mapkey=2f5281c5-8b34-499b-a910-cbdecdb8ceab&devicekey=e179d3df-1b94-24f7-640b-b2879b666f0d&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* 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

[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

File Edit View Favorites Tools Help

Address <https://172.20.241.254/ccmadmin/directoryNumberEdit.do?key=e48b7bcb-d3f8-fae1-8718-59396299c8b2&mapkey=2f5281c5-8b34-499b-a910-cbdecdb8ceab&devicekey=e179d3df-1b94-24f7-640b-b2879b666f0d&index=1> Go Links

Google

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

Local intranet



Directory Number Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites RSS Mail Print Chat

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> Go Links

Google Go Bookmarks 0 blocked Check AutoLink AutoFill Send to Settings

ASCII Display (Internal Caller ID)	<input type="text" value="Pool3D"/>	<input type="checkbox"/>
Line Text Label	<input type="text" value="Pool3D"/>	<input type="checkbox"/>
ASCII Line Text Label	<input type="text" value="Pool3D"/>	<input type="checkbox"/>
External Phone Number Mask	<input type="text"/>	<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"/>

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

*- indicates required item.

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

Done Local intranet



End User Configuration

End User Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail News RSS Feeds

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

End User Configuration Related Links: [Back to Find List Users](#) Go

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: 0

Done Local intranet



End User Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites RSS Print Mail Chat

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

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 Reload Home Search Favorites RSS Mail Print Chat

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

Capabilities Assignment Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites RSS Feeds Print Mail Chat

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

Google Go 0 blocked Check AutoLink AutoFill Send to Settings

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

*- indicates required item.

Done Local intranet



Phone Services

IP Phone Services Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites RSS Feeds Print Mail Chat

Address <https://172.20.241.254/ccmadmin/phoneServicesEdit.do?key=c7ef89d8-2ceb-7a96-b4e6-fc99cb0235c5> Go Links

Google Go Bookmarks 0 blocked Check AutoLink AutoFill Send to Settings

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

i - indicates required item.

Done Local intranet



Phone URL Services

Enterprise Parameters Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites RSS Feeds Print Mail Chat

Address <https://172.20.241.254/ccmadmin/serviceParamEdit.do?service=11> Go Links

Google Go 0 blocked Check AutoLink AutoFill Send to Settings

Use Standard VM Handling For Precedence Calls * False False

Security Parameters

Cluster Security Mode *	0	
CAPF Phone Port *	3804	3804
CAPF Operation Expires in (days) *	10	10

Phone URL Parameters

URL Authentication	http://172.20.241.253:8080/ccmcip/authenticate.jsp	
URL Directories	http://172.20.241.253:8080/ccmcip/xmldirectory.jsp	
URL Idle		
URL Idle Time	0	0
URL Information	http://172.20.241.253:8080/ccmcip/GetTelecasterHelpText.jsp	
URL Messages		
IP Phone Proxy Address		
URL Services	http://172.20.241.253:8080/ccmcip/getservicesmenu.jsp	

User Search Parameters

Enable All User Search *	True	True
User Search Limit *	64	64

CCM Web Services Parameters

Allowed Performance Queries Per Minute *	50	50
Allowed Device Queries Per Minute *	15	15
Performance Queue Limit *	100	100
Maximum Performance Counters Per Session *	100	100

Done Local intranet



Application User Configuration

Application User Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites RSS Print Mail Chat

Address: https://172.20.241.254/ccmadmin/appuserEdit.do?key=9c8f3976-e5e7-e70b-e991-838eb0ceafe9 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* CtiGW

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

SEP0011219E5721

SEP001422A9DFAD

SEP00170EEE3394

SEP00152B360947

SEP0015629E80F1

SEP00192F07EE84

Find more Phones

Find more Route Points

Find more Pilot Points

Done Local intranet



Application User Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites RSS Print Mail Chat

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

Google Go 0 blocked Check AutoLink AutoFill Send to Settings

SEP00170EEE3394
SEP00152B360947
SEP0015629E80F1
SEP00192F07EE84

CAPF Information
Associated CAPF Profiles

Edit Profile

Permissions Information
Groups
Standard CTI Allow Control of All Devices
Standard CTI Enabled

Edit Group

Roles
Standard CTI Allow Control of All Devices
Standard CTI Enabled

Edit Role

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 Reload Home Search Favorites RSS Print Mail Chat

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

Google Go 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* **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	Find more Phones
ATA00127FD0CB10	
SEP000B82073374	
SEP001422A9DFAD	
SEP00152B8F351B	Find more Route Points
v ^	
SEP0011219E5721	Find more Pilot Points
SEP00146A9C3C1F	
SEP00152B360947	
SEP00170EEE3394	
SEP00115679F80F1	

Done Local intranet



Application User Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites RSS Print Mail Chat

Address <https://172.20.241.254/ccmadmin/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

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites RSS Mail Print Chat

Address <https://172.20.241.254/ccmadmin/appdialrulesSave.do?redirect=1&pkid=fea6c6d5-2a83-0a14-e1b8-550853df768c> Go Links

Google Go Bookmarks 0 blocked Check AutoLink AutoFill Send to Settings

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

Done Local intranet



Conference Bridge Configuration

Media Resource Group Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites RSS Feeds Mail Print Chat

Address <https://172.20.241.254/ccmadmin/mrsrcGroupEdit.do?key=203d0e4e-528e-86f9-0b12-69a4ba934df4> Go Links

Google Go 0 blocked Check AutoLink AutoFill Send to Settings

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.

Done Local intranet



Meet-Me Number

Meet-Me Number Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites RSS Mail Print Chat

Address <https://172.20.241.254/ccmadmin/meetMeEdit.do?key=c4b798bc-ea73-6242-2397-9f11c5db3497> Go Links

Google Go Bookmarks 0 blocked Check AutoLink AutoFill Send to Settings

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

Save Delete Copy Add New

Status
Status: Ready

Meet-Me Configuration
Directory Number or Pattern* f2XX
Description Meetme LCS/CUPS
Partition < None >

*- indicates required item.

Done 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/www/export/crypto/tool/starg.html>.
If you require further assistance please contact us by sending email to export@cisco.com.

Cisco Unified Communications Manager Publisher Address: 172.20.241.254



CUPS Method / Event – Based Routing Entries

Find and List Method/Event-Based Routing Entries - Microsoft Internet Explorer

Address: <https://172.20.245.40:8443/ccadmin/contentRoutingFindList.do?<%=reqParams%>&recCnt=0&colCnt=7>

Navigation: Cisco Unified Presence Administration

CCMAdministrator | About | What's New | Logout

System > Cisco Unified Presence > Application > User Management > Bulk Administration > Help >

Find and List Method/Event-Based Routing Entries

+ Add New Select All Clear All Delete Selected

Status
Records found: 3

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

Find Method/Event-Based Routing where Name begins with Find Clear Filter

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

Add New Select All Clear All Delete Selected

Done Local intranet



CUPS Method / Event – Based Routing Configuration

Method/Event-Based Routing Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites RSS Feeds Print Mail Chat

Address <https://172.20.245.40/ccadmin/contentRoutingEdit.do?key=23621839-30d0-4373-abec-c1b58eaffa8d> Go Links

Google Go 0 blocked Check AutoLink AutoFill Send to Settings

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

Save Delete Add New

Status
Status: Ready

Method/Event-Based Routing Information

Name*	SystemPublish
Description	System Managed Publish
Content Token*	PUBLISH
Content Category*	Method-Based
Destination Address*	172.20.245.40
Destination Port*	5070
Protocol Type*	TCP

*- indicates required item.

Done Local intranet



Unified Communications Manager Presence Gateway Configuration

Presence Gateway Configuration - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites

Address <https://172.20.245.40:8443/ccmadmin/backendGatewayEdit.do?key=1e9831d5-66bd-bd95-9d24-1a0118522305> Go Links

Google Go Bookmarks 28 blocked Check AutoLink AutoFill Send to Settings

Search Web Mail My Yahoo! Shopping Games Music Answers Personals

Presence Gateway Configuration + Add Tab

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

Presence Gateway Configuration Related Links: Back To Find/List Go

Save Delete Add New

Status
Status: Ready

Presence Gateway Settings (Cisco Unified Communications Manager)

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

Presence Gateway Type* CUCM

Description* CM-CLUSTER GW

Presence Gateway* CM-cluster1-p.pbxlab.org

Save Delete Add New

* indicates required item.



CTI Gateway Configuration

CTI Gateway Settings - Microsoft Internet Explorer

Address: https://172.20.245.40:8443/ccmadmin/ctiSettingsEdit.do

Navigation: Cisco Unified Presence Administration

CCMAdministrator | About | What's New | Logout

System > Cisco Unified Presence > Application > User Management > Bulk Administration > Help >

CTI Gateway Settings

Save

Status

Status: Ready

CTI Gateway Application Settings

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

Application Status*	On
Application Username	CtiGW
Application Password
Confirm Password
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)	
Cisco Unified Communications Manager Address (4 of 8)	
Cisco Unified Communications Manager Address (5 of 8)	
Cisco Unified Communications Manager Address (6 of 8)	
Cisco Unified Communications Manager Address (7 of 8)	
Cisco Unified Communications Manager Address (8 of 8)	

Save

* - indicates required item.

Done Local intranet



MOC Assignments

Find and List MOC Assignments - Microsoft Internet Explorer

Address: https://172.20.245.40:8443/ccmadmin/ctsAssignmentFindList.do?<%=reqParams%>&recCnt=0&colCnt=6

Navigation: Cisco Unified Presence Administration | Go

CCMAdministrator | About | What's New | Logout

System > Cisco Unified Presence > Application > User Management > Bulk Administration > Help >

Find and List MOC Assignments

Select All Clear All Bulk Assignment

Microsoft Office Communicator Usage

17 MOC users assigned

Licensed Cisco Unified Presence Users (1 - 17 of 17) Rows per Page: 50

Find Licensed Cisco Unified Presence Users where User ID begins with Find Clear Filter

	User ID ^	Last Name	Manager	Department	MOC Enabled
<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	4D			✓
<input type="checkbox"/>	RobWest	Westover			✓
<input type="checkbox"/>	fcruz	Cruz			✓
<input type="checkbox"/>	pool4A	pool4			✓
<input type="checkbox"/>	smasters	Masters			✓
<input type="checkbox"/>	tvore	Vore			✓

Select All Clear All Bulk Assignment



AXL Information

Sync Agent AXL Configuration - Microsoft Internet Explorer

Address: https://172.20.245.40:8443/ccadmin/axlPrefsEdit.do

Navigation: Cisco Unified Presence Administration | Go

CCMAdministrator | About | What's New | Logout

System | Cisco Unified Presence | Application | User Management | Bulk Administration | Help

Sync Agent AXL Configuration

Save

Status

Status: Ready

AXL Credential Information

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

AXL Username*

AXL Password*

Confirm Password*

Save

* - indicates required item.



Privacy ACL Entry (Allowed Destination Host)

Find and List Allowed Destination Hosts - Microsoft Internet Explorer

Address: <https://172.20.245.40:8443/ccmadmin/privacyAcFindList.do?<%=reqParams%>&recCnt=0&colCnt=3>

Navigation: Cisco Unified Presence Administration Go

CCMAAdministrator | About | What's New | Logout

System ▾ Cisco Unified Presence ▾ Application ▾ User Management ▾ Bulk Administration ▾ Help ▾

Find and List Allowed Destination Hosts

+ Add New Select All Clear All Delete Selected

Status
Records found: 5

Outgoing ACL Entry (1 - 5 of 5)

Find Outgoing ACL Entry where Address Pattern begins with Find Clear Filter

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

Add New Select All Clear All Delete Selected

Local intranet



Proxy ACL Entry (Allowed Incoming Host)

Find and List Allowed Incoming Hosts - Microsoft Internet Explorer

Address: <https://172.20.245.40:8443/ccmadmin/proxyAcFindList.do?<%=reqParams%>%recCnt=0&colCnt=3>

Navigation: Cisco Unified Presence Administration | Go

CCMAdministrator | About | What's New | Logout

System | Cisco Unified Presence | Application | User Management | Bulk Administration | Help

Find and List Allowed Incoming Hosts

+ Add New | Select All | Clear All | Delete Selected

Status
Records found: 5

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

Find Incoming ACL Entry where Address Pattern begins with Find Clear Filter

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

Add New | Select All | Clear All | Delete Selected



IP Phone Messenger Setting

IP Phone Messenger Settings - Microsoft Internet Explorer

Address: https://172.20.245.40:8443/ccmadmin/ppmPrefsEdit.do

Navigation: Cisco Unified Presence Administration Go

CCMAdministrator About What's New Logout

System Cisco Unified Presence Application User Management Bulk Administration Help

IP Phone Messenger Settings

Save

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

*- indicates required item.

Done Local intranet



IP Phone Messenger User

Find and List IP Phone Messenger Users - Microsoft Internet Explorer

Address: <https://172.20.245.40:8443/ccadmin/ppmStatusFindList.do?<%=reqParams%>&recCnt=0&colCnt=6>

Navigation: Cisco Unified Presence Administration

CCMAdministrator | About | What's New | Logout

System > Cisco Unified Presence > Application > User Management > Bulk Administration > Help >

Find and List IP Phone Messenger Users

Select All Clear All Logout Broadcast

Status: Records found: 17

IP Phone Messenger Status (1 - 17 of 17)

Rows per Page: 50

Find IP Phone Messenger Status where User-ID begins with Find Clear Filter

	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			

Select All Clear All Logout Broadcast Message:



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 LCSPPOOL3_5060

ip address 192.168.1.10

port 5060

protocol tcp

keepalive port 5060

keepalive type none

active

service LCSPPOOL3_5061

ip address 192.168.1.10

port 5061

protocol tcp

keepalive port 5061

keepalive type none

active

service LCSPPOOL4_5060

ip address 192.168.101.10

port 5060

protocol tcp

keepalive type none

active

service LCSPPOOL4_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
```

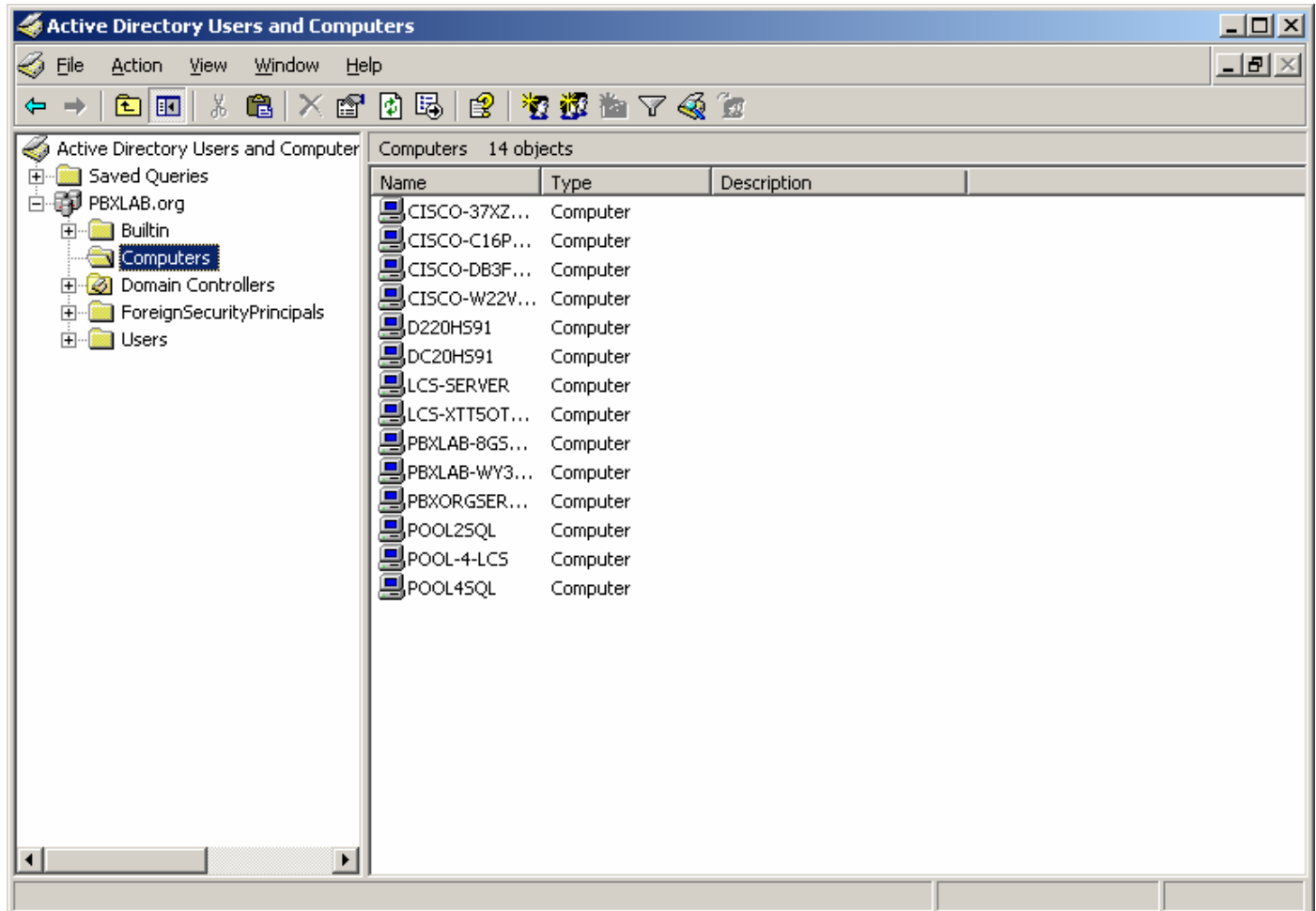
```
Enhanced Feature Set
```

```
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

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

epas2.pbxmlab.org

172 . 20 . 245 . 40

TCP

5060

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

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Authorized Host

pool3 Properties

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

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

The screenshot displays the Microsoft Office Live Communications Server 2005 console. The left pane shows the hierarchy: Forest - PBXLAB.org > Domains > PBXLAB.org > Live Communications servers and pools > pbxlab-8gs8ps3j > lcs-server > Users. The right pane shows a list of users with columns: Enabled, Display name, SIP URI, and Type.

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:

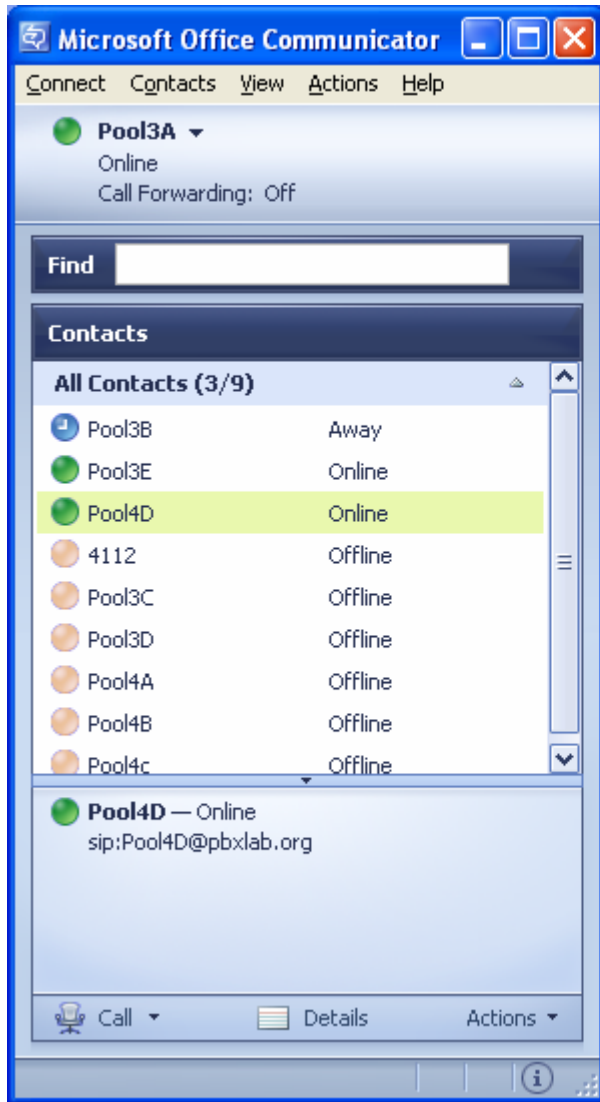
Archiving Settings

- ☒ 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

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
All Other Contacts	Notifv

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

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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