



Nortel CS1000E Release 6.0 using SIP trunk to Cisco Unified Communications Manager Release 8.5

February 15, 2011 – Initial revision

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Introduction

This document describes the steps and configurations necessary for Cisco Unified Communications Manager (Cisco UCM) release 8.5 to interoperate with the Nortel CS1000E using SIP Early-Offer.

The following items were tested:

- Basic call between the two systems and verification of voice path, using both IP phones and digital phones on the Nortel side, and SIP and SCCP IP phones on the Cisco side.
- CLIP/CLIR/CNIP/CNIR features: calling party name and number delivery (allowed and restricted).
- COLP/CONP/COLR/CONR features: connected name and number delivery (allowed and restricted).
- Call transfer: attended, and early attended.
- Call forwarding: call forward all (CFA), call forward busy (CFB), and call forward no answer (CFNA).
- Hold and resume with music on hold.
- Three-way conferencing.
- Voice messaging and MWI activation-deactivation.
- DTMF-relay via RFC2833.

Listed below are the highlights of the integration issues:

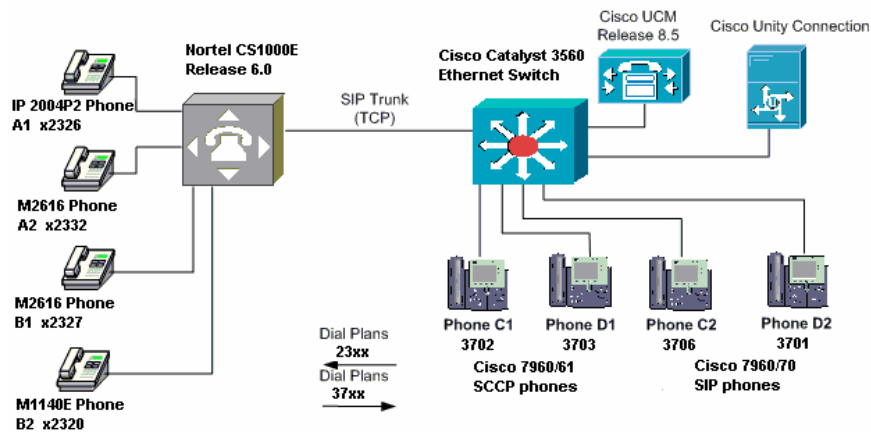
- Basic calls worked from Cisco UCM to Nortel CS1000 and vice versa.
- CLIR/CNIR—the Nortel CS1000 SIP trunk does not support calling/connected name and number restriction. Restriction of calling number on Nortel CS1000 Unistim phones is achieved by configuring the Nortel Unistim station configuration page and not the SIP trunk page. This restriction is honored by Cisco UCM.
- COLR/CONR—as with calling name and number presentation restrictions, the Nortel CS1000 does not support connected name and number restriction on SIP trunks. Cisco UCM, on the other hand, restricts the connected name and number information the same way as for calling name and number restriction—by setting the SIP PRIVACY to “id” in the SIP trunk configuration page. Thus, the SIP privacy setting covers all outgoing message presentation restrictions, whether for inbound or outbound calls.
- Both systems support call forwarding and call transfer features. There are some call forward and transfer scenarios where the calling name and number and/or connected name and number are not updated after the call has been transferred or forwarded. This issue is found primarily when a Nortel phone is forwarding or transferring party. Cisco phones display the forwarding information only when it is a locally forwarded call.
- Typically, Nortel PBX uses the History-Info field to send redirecting number information, while the Cisco UCM uses the Diversion header. This affects how calls are treated when redirected to a voice mail system over an SIP trunk. Cisco Unified Communications Manager release 8.5 provides the ability to translate either Diversion headers into History-Info headers or History-Info headers to Diversion headers via SIP Normalization Script. Information on how to configure a SIP Normalization Script converting History-Info headers into Diversion headers and vice versa is provided within this document.

Below are the key results:

- Basic call, call transfer, call forwarding, conference call, and hold and resume work successfully.
- DTMF-relay using RFC2833 worked bi-directionally.
- Centralized voicemail, using Unity Connection server integrated to Cisco UCM via SCCP and Call Pilot integrated to Nortel CS1000E were used for testing. This voicemail solution can provide centralized voicemail services, supporting both Nortel and Cisco end-users.

Network Topology

Figure 1. Network Topology/Test bed Setup



Limitations

These are the known limitations, caveats, or integration issues:

- Centralized Nortel CS1000E Call Pilot voicemail and Cisco Unity/Unity Connection integrated to Cisco UCM are supported, so long as Diversion header is passed to Cisco Unified Communications Manager and History info header is passed to Nortel\\. This can be achieved by using a SIP Normalization Script converting History-info headers into Diversion headers and Diversion headers to History info headers.

System Components

Hardware Requirements

The following hardware is required:

- Cisco Unified Communications Manager (Cisco UCM) MCS -7835 server
- Cisco Unity Connection MCS-7835 server
- Catalyst switch 3560
- Cisco 7960, 7961 and 7970 IP phones
- Nortel CS1000E



- Nortel-2004P2 and M1140E series IP phones and M2616 series digital station phones

Software Requirements

The following software is required:

- Cisco Unified Communications Manager release 8.5
- Catalyst 3560 release: 12.2(35)SE5
- Cisco Unity Connection release 8.5
- Nortel CS1000E release 6.0

Features

This section lists supported and unsupported features. Please see the Limitations section on page 4 for more information.

Features Supported

- CLIP—calling line (number) identification presentation.
- CLIR—calling line (number) identification restriction.
- CNIP—calling name identification presentation.
- CNIR—calling name identification restriction.
- Alerting name.
- Attended call transfer.
- Early attended call transfer.
- CFU—call forwarding unconditional.
- CFB—call forwarding busy.
- CFNA—call forwarding no answer.
- COLP—connected line (number) identification presentation.
- COLR—connected line (number) identification restriction.
- CONP—connected name identification presentation.
- CONR—connected name identification restriction.
- Hold and resume.
- Conference call.
- DTMF-relay using RFC2833.

Features Not Supported

- Call completion (callback, automatic callback).



Configuration

Configuration Sequence and Tasks

Configuring the Nortel PBX

Configuring the Nortel Communication Server 1000 PBX

1. LD 17—Configure the IP D-channel (signaling channel) between the call server and the signaling server.
2. LD 14—Configure the SIP virtual trunks to the signal.
3. LD 11—Configure for the virtual lines for the Nortel IP phone (i200x series).
4. LD 16—Configure the SIP route.
5. LD 86—Configure the route list block for the virtual trunk route.
6. LD 87—Configure CDP steering codes.
7. LD 21—List trunk member.

Signaling Server Setup via the Nortel Node Summary

1. Configure a new IP telephony node summary.
2. Configure the VGW and IP phone codec profile section.
3. Configure the quality of service (QoS) section.
4. Configure the LAN configuration section.
5. Configure the SIP GW setting section.
6. Configure the SIP URI map section.
7. Configure the card section for the MC-32 VGMC card section.
8. Configure the signaling server section.

Network Routing Server

1. Configure the system-wide settings.
2. Configure the NRS server settings.
3. Configure a service domain.
4. Configure an L1 domain (UDP).
5. Configure an L0 domain (CDP).
6. Configure a gateway endpoint gateway.
7. Configure the routing entries.

Cisco Unified Communications Manager (Cisco UCM):

1. Cisco UCM software release.
2. Cisco UCM Regional configuration.
3. Cisco UCM Device Pool configuration.
4. Media Resource Group and Media Resource Group List.
5. Cisco UCM Media Termination Point.
6. SIP trunk security profile.
7. Device setting SIP profile.
8. SIP trunk to the Nortel CS1000E PBX.
9. SIP and SCCP phones device configuration.
10. Route pattern to the Nortel CS1000E PBX.
11. Cisco UCM Service Parameter “Duplex Streaming Enabled” set to “True”.
12. SIP Trunk Normalization Script



LD 17 – Configure the IP D-channel (signaling channel) between the Call Server and the Signaling Server

```
>LD 22
PT2000
REQ PRT
TYPE ADAN DCH 30
ADAN DCH 30
CTYP DCIP
DES SIP_Trunk
USR ISLD
ISLM 4000
SSRC 1800
OTBF 32
NASA YES
IFC SL1
CNEG 1
RLS ID 4
RCAP MWI ND3 CPK
MBGA NO
H323
OVLN NO
OVLN NO
```

LD 14 – Configure the SIP Virtual Trunks to the Signaling Server (One trunk = one line connection)

```
>LD 20
PT0000
REQ: PRT
TYPE: TNB
TN 020 0 3 7
DATE
PAGE
DES
DES SIP_TRUNK
TN 020 0 03 07 VIRTUAL
TYPE IPTI
CDEN 8D
CUST 0
XTRK VTRK
ZONE 000
LDOP BOP
TIMP 600
BIMP 600
AUTO_BIMP NO
NMUS NO
TRK ANLG
NCOS 0
RTMB 30 8
CHID 8
TGAR 1
STRI/STRO IMM IMM
SUPN YES
AST NO
IAPG 0
CLS CTD DTN CND ECD WTA LPR APN THFD SPCD MSBT
P10 NTC MID
TKID
AACR NO
DATE 27 JUN 2008
```

LD 11 – Configure for the Virtual lines for the Nortel IP phones (phone A and phone B)

Phone A1 (i2004)

```
>ld 11
```



SL1000
MEM AVAIL: (U/P): 99165853 USED U P: 5049370 54598 TOT: 104269821
DISK SPACE NEEDED: 47 KBYTES
DIGITAL TELEPHONES AVAIL: 3 USED: 5 TOT: 8
IP USERS AVAIL: 18 USED: 6 TOT: 24
BASIC IP USERS AVAIL: 7 USED: 1 TOT: 8
TEMPORARY IP USERS AVAIL: 0 USED: 0 TOT: 0
ACD AGENTS AVAIL: 10 USED: 0 TOT: 10
PCA AVAIL: 4 USED: 1 TOT: 5
AST AVAIL: 4 USED: 1 TOT: 5
SIP CONVERGED DESKTOPS AVAIL: 0 USED: 0 TOT: 0
SIP CTI TR87 AVAIL: 4 USED: 1 TOT: 5
TNS AVAIL: 32546 USED: 214 TOT: 32760
DATA PORTS AVAIL: 32760 USED: 0 TOT: 32760
REQ: prt
TYPE: tnb
TN 020 0 0 03
DATE
PAGE
DES
DES OCSTST
TN 020 0 00 03 VIRTUAL
TYPE 2004P2
CDEN 8D
CTYP XDLC
CUST 0
NUID
NHTN
CFG_ZONE 000
CUR_ZONE 000
ERL 0
ECL 0
FDN 2327
TGAR 0
LDN NO
NCOS 0
SGRP 0
RNPG 0
SCI 0
SSU
XLST
CLS CTD FBA WTA LPR MTD FNA HTA TDD HFD CRPD
MWA LMPN RMMD SMWD AAD IMD XHD IRD NID OLD VCE DRG1
POD DSX VMD SLKD CCSD SWD LND CNDD
CFTD SFD MRD DDV CNID CDCA MSID DAPA BFED RCBD
ICDD CDMD LLCN MCTD CLBD AUTU
GPUD DPUD DNDD CFXD ARHD CLTD ASCD
CPFA CPTA ABDD CFHD FICD NAID BUZZ AGRD MOAD
AHD DDGA NAMA
DRDD EXR0
USMD USRD ULAD RTDD RBDD RBHD PGND FLXD FTTC DNDY DNO3 MCBN
VOLLA VOUD CDMR ICRD MCDD T87A KEM2 MSNV FRA PKCH
CPND_LANG ENG
RCO 0
HUNT 2327
LHK 0
PLEV 02
DANI NO
AST 00
IAPG 0
AACS NO
ITNA NO
DGRP
MLWU_LANG 0



MLNG ENG
DNDR 0
KEY 00 SCR 2326 0 MARP
CPND
NAME Ri_2326
XPLN 13
DISPLAY_FMT FIRST, LAST
01
02
03
04
05
06
07
08
09
10
11
12
13
14
15
16
17 TRN
18 AO6
19 CFW 16 2500
20 RGA
21 PRK
22 RNP
23
24 PRS
25 CHG
26 CPN
27
28
29
30
31
DATE 29 SEP 200

Phone A2 (2616):

REQ: prt
TYPE: 2616
TN 0 0 7 2
DATE
PAGE
DES
DES T2325
TN 000 0 07 02 VIRTUAL
TYPE 2616
CDEN 8D
CTYP XDLC
CUST 0
AOM 0
ERL 0
FDN 2328
TGAR 1
LDN NO
NCOS 0
SGRP 0
RNP 0
SCI 0
SSU
XLST



```
CLS CTD FBA WTA LPR MTD FNA HTA ADD HFD
MWA LMPN RMMD SMWD AAD IMD XHD IRD NID OLD VCE DRG1
POD DSX VMD SLKD CCSD SWD LND CNDD
CFTD SFD MRD DDV CNID CDCA MSID DAPA BFED RCBF
ICDD CDMD LLCN MCTD CLBD AUTU
GPUD DPUD DNDD CFXA ARHD CLTD ASCD
CPFA CPTA ABDD CFHD FICD NAID BUZZ AGRD MOAD
AHD DDGA NAMA
DRDD EXR0
USMD USRD ULAD RTDD RBDD RBHD PGND FLXD FTTC DNDY DNO3 MCBN
CDMR MCDD T87D PKCH
CPND_LANG ENG
RCO 0
HUNT 2326
LHK 0
PLEV 02
DANI NO
AST
IAPG 0
AACS NO
ITNA NO
DGRP
MLWU_LANG 0
DNDR 0
KEY 00 SCR 2327 0 MARP
CPND
NAME Ri_2327
XPLN 13
DISPLAY_FMT FIRST, LAST
01
02
03 CFW 4 2500
04 AO6
05 TRN
06
07
08
09
10
11
12
13
14
15
DATE 29 SEP 2008
NACT
```

LD 16 – Configure the SIP route

```
>LD 21
PT1000
REQ: PRT
TYPE: RDB
CUST 0
ROUT 30
TYPE RDB
CUST 00
ROUT 30
DES SIP_TRUNK
TKTP TIE
M911P NO
ESN NO
CNVT NO
SAT NO
```



RCLS EXT
VTRK YES
ZONE 000
PCID SIP
CRID YES
NODE 104
DTRK NO
ISDN YES
MODE ISLD
DCH 30
IFC SL1
PNI 00001
NCNA YES
NCRD YES
TRO NO
FALT NO
CTYP UKWN
INAC NO
ISAR NO
DAPC NO
PTYP ATT
AUTO NO
DNIS NO
DCDR NO
ICOG IAO
SRCH LIN
TRMB YES
STEP
ACOD 430
TCPP NO
TARG 01
CLEN 1
BILN NO
OABS
INST
ANTK
SIGO STD
STYP SDAT
ICIS YES
TIMR ICF 512
OGF 512
EOD 13952
DSI 34944
NRD 10112
DDL 70
ODT 4096
RGV 640
GRD 896
SFB 3
NBS 2048
NBL 4096
IENB 5
TFD 0
PAGE 002
VSS 0
VGD 6
SST 5 0
NEDC ORG
FEDC ORG
CPDC NO
DLTN NO
HOLD 02 02 40
SEIZ 02 02
SVFL 02 02



DRNG NO
CDR NO
VRAT NO
MUS NO
MANO NO
OHQ NO
OHQT 00
CBQ NO
AUTH NO
TDET NO
TTBL 0
ATAN NO
OHTD NO
PLEV 2
ALRM NO
ART 0
SGRP 0
ARDN NO
AACR NO

LD 86 – Configure the Route List Block for the Virtual Trunk route

```
>LD 86
ESN000
MEM AVAIL: (U/P): 99165853 USED U P: 5049370 54598 TOT: 104269821
DISK SPACE NEEDED: 47 KBYTES
REQ PRT
CUST 0
FEAT RLB
RLI 3
RLI 3
ENTR 0
LTER NO
ROUT 30
TOD 0 ON 1 ON 2 ON 3 ON
4 ON 5 ON 6 ON 7 ON
VNS NO
SCNV NO
CNV NO
EXP NO
FRL 0
DMI 0
ISDM 0
FCI 0
FSNI 0
DORG NO
SBOC NRR
IDBB DEB
IOHQ NO
OHQ NO
CBQ NO
ISET 0
NALT 5
MFRL 0
OVLL 0
MEM AVAIL: (U/P): 99165853 USED U P: 5049370 54598 TOT: 104269821
DISK SPACE NEEDED: 47 KBYTES
```

LD 87 – Configure CDP steering codes

```
>LD 87
ESN000
MEM AVAIL: (U/P): 99165853 USED U P: 5049370 54598 TOT: 104269821
DISK SPACE NEEDED: 47 KBYTES
REQ PRT
```



```
CUST 0
FEAT CDP
TYPE DSC
DSC 37
DSC 37
FLEN 0
DSP LSC
RLI 3
NPA
NXX
```

LD 21 – List Trunk Members

```
>LD 21
PT1000
REQ: LTM
CUST 0
ROUT 30
TYPE TLST
TKTP TIE
ROUT 30
DES SIP_TRUNK
TN 020 0 03 00 MBER 1 SIP_TRUNK
TN 020 0 03 01 MBER 2 SIP_TRUNK
TN 020 0 03 02 MBER 3 SIP_TRUNK
TN 020 0 03 03 MBER 4 SIP_TRUNK
TN 020 0 03 04 MBER 5 SIP_TRUNK
TN 020 0 03 05 MBER 6 SIP_TRUNK
TN 020 0 03 06 MBER 7 SIP_TRUNK
TN 020 0 03 07 MBER 8 SIP_TRUNK
```



Nortel CS1000E Element Manager

Host Name: cs104ss1.pbxmlab.org Software Version: 02.10.0010.04(3393) User Name admin

Elements

New elements are registered into the security framework, or may be added as simple hyperlinks. Click an element name to launch its management service. You can optionally filter the list by entering a search term.

<input type="checkbox"/>	Element Name	Element Type ▲	Release	Address	Description ▲
<input checked="" type="checkbox"/>	EM on cs104ss1	CS1000	6.0	172.30.13.101	New element.
<input checked="" type="checkbox"/>	172.30.13.101	Call Server	6.0	172.30.13.101	New element.
<input checked="" type="checkbox"/>	cs104ss2.pbxmlab.org (backup)	Linux Base	6.0	172.30.11.107	Base OS element.
<input checked="" type="checkbox"/>	cs104ss1.pbxmlab.org (primary)	Linux Base	6.0	172.30.11.103	Base OS element.
<input checked="" type="checkbox"/>	172.30.13.105	Media Gateway Controller	6.0	172.30.13.105	New element.
<input checked="" type="checkbox"/>	NRSM on cs104ss1	Network Routing Service	6.0	172.30.13.103	New element.

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Element Manager-System Overview



Managing: **172.30.13.101** Username: admin
System Overview

System Overview

IP Address: 172.30.13.101
Type: Nortel Communication Server 1000E CPPM
Version: 4021
Release: 600 R +

[Active Sessions](#)

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Element Manager - Node Details

Node Details (ID: 104 - LTPS, Gateway (SIPGw, H323Gw))

Node ID: * (0-9999)
Call Server IP Address: *

Telephony LAN (TLAN)
Node IP Address: *
Subnet Mask: *

Embedded LAN (ELAN)
Gateway IP address: *
Subnet Mask: *

IP Telephony Node Properties

- [Voice Gateway \(VGW\) and Codecs](#)
- [Quality of Service \(QoS\)](#)
- [LAN](#)

Applications (click to edit configuration)

- [SIP Line](#)
- [Terminal Proxy Server \(TPS\)](#)
- [Gateway \(SIPGw & H323Gw\)](#)

* Required Value.

Associated Signaling Servers & Cards

Select to add [Print](#) | [Refresh](#)

Hostname	Type	Deployed Applications	ELAN IP	TLAN IP	Role
<input checked="" type="checkbox"/> cs104ss1	Signaling Server	LTPS, Gateway, PD	172.30.13.103	172.30.11.103	Leader

Note: Only server(s) that are not part of any other IP telephony node and deployed application(s) that match the service(s) selected for this node are

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Element Manager - Voice Gateway and Codec



Managing: 172.30.13.101 Username: admin
System » IP Network » IP Telephony Nodes

Node ID: 104 - Voice Gateway (VGW) and Codecs

General | Voice Codecs | Fax

General

Echo Cancellation: Use canceller, with tail delay: 128
 Dynamic attenuation

Voice Activity Detection Threshold: -17 (-20 - +10 DBM)
Idle Noise Level: -65 (-327 - +327 DBM)

Signaling Options: DTMF Tone Detection
 Low latency mode
 Remove DTMF delay (squelch DTMF from TDM to IP)
 Modem/Fax pass-through
 V.21 Fax Tone Detection

Voice Codecs

Codec G711: Enabled (required)
Voice payload size: 20 (milliseconds per frame)
Voice Playback (jitter buffer) delay: 40 80 (milliseconds)

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Node ID: 104 - Voice Gateway (VGW) and Codecs

General | Voice Codecs | Fax

General

Echo Cancellation: Use canceller, with tail delay: 128
 Dynamic attenuation

Voice Activity Detection Threshold: -17 (-20 - +10 DBM)
Idle Noise Level: -65 (-327 - +327 DBM)

Signaling Options: DTMF Tone Detection
 Low latency mode
 Remove DTMF delay (squelch DTMF from TDM to IP)
 Modem/Fax pass-through
 V.21 Fax Tone Detection

Voice Codecs

Codec G711: Enabled (required)
Voice payload size: 20 (milliseconds per frame)
Voice Playback (jitter buffer) delay: 40 80 (milliseconds)
Nominal Maximum

* Required Value. Note: Changes made on this page will NOT be saved.

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Node ID: 104 - Voice Gateway (VGW) and Codecs

General | **Voice Codecs** | Fax

Nominal settings.

Voice activity detection (VAD)

Codec G729: Enabled

Voice payload size: 20 (milliseconds per frame)

Voice Playback (jitter buffer) delay: 40 80 (milliseconds)

Nominal Maximum
Maximum delay may be automatically adjusted based on Nominal settings.

Voice activity detection (VAD)

Codec G723.1: Enabled

Voice payload size: 30 (milliseconds per frame)

Voice Playback (jitter buffer) delay: 60 120 (milliseconds)

Nominal Maximum
Maximum delay may be automatically adjusted based on Nominal settings.

Coding rate: 5.3 (kbps)

* Required Value. Note: Changes made on this page will NOT be

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NORTEL CS 1000 ELEMENT MANAGER Help | Logout

Node ID: 104 - Voice Gateway (VGW) and Codecs

General | **Voice Codecs** | Fax

Codec G723.1: Enabled

Voice payload size: 30 (milliseconds per frame)

Voice Playback (jitter buffer) delay: 60 120 (milliseconds)

Nominal Maximum
Maximum delay may be automatically adjusted based on Nominal settings.

Coding rate: 5.3 (kbps)

Fax

Codec name: T.38 FAX

Maximum rate: 14400 (bps)

Fax TCF method: 2

Fax Playback Nominal Delay: 80 (0 - 300 milliseconds)

FAX No Activity Timeout: 20 (10 - 32000 milliseconds)

Packet size: 30 (bps)

* Required Value. Note: Changes made on this page will NOT be transmitted until the Node is also saved.

Element Manager - Service Domain



«UCM Network Services»

- System
 - NRS Server
 - Database
 - System Wide Settings
- Numbering Plans
 - Domains
 - Endpoints
 - Routes
 - Network Post-Translation
 - Collaborative Servers
- Tools
 - SIP Phone Context
 - Routing Tests
 - H.323
 - SIP
 - Backup
 - Restore
 - GK/NRS Data upgrade

Managing: Active database **172.30.13.103**
 Standby database [Numbering Plans » Domains » Service Domains](#)

Edit Service Domain

Domain name: *

Domain description:

* Required value.

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Element Manager - Domain L1

«UCM Network Services»

- System
 - NRS Server
 - Database
 - System Wide Settings
- Numbering Plans
 - Domains
 - Endpoints
 - Routes
 - Network Post-Translation
 - Collaborative Servers
- Tools
 - SIP Phone Context
 - Routing Tests
 - H.323
 - SIP
 - Backup
 - Restore
 - GK/NRS Data upgrade

Managing: Active database **172.30.13.103**
 Standby database [Numbering Plans » Domains » L1 Domain](#)

Edit L1 Domain (pbxlab.org)

Domain name: *

Domain description:

Endpoint authentication enabled:

Authentication password:

E.164 country code:

E.164 area code:

E.164 international dialing access code:

E.164 international dialing code length: (0-99)

E.164 national dialing access code:

E.164 national dialing code length: (0-99)

E.164 local (subscriber) dialing access code:

E.164 local (subscriber) dialing code length: (0-99)

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«UCM Network Services

- System
 - NRS Server
 - Database
 - System Wide Settings
- Numbering Plans
 - Domains
 - Endpoints
 - Routes
 - Network Post-Translation
 - Collaborative Servers
- Tools
 - SIP Phone Context
 - Routing Tests
 - H.323
 - SIP
 - Backup
 - Restore
 - GK/NRS Data upgrade

Managing: Active database 172.30.13.103
 Standby database [Numbering Plans » Domains » L1 Domain](#)

Edit L1 Domain (pbxlab.org)

E.164 country code:
E.164 area code:
E.164 international dialing access code:
E.164 international dialing code length: (0-99)
E.164 national dialing access code:
E.164 national dialing code length: (0-99)
E.164 local (subscriber) dialing access code:
E.164 local (subscriber) dialing code length: (0-99)
Private L1 domain (UDP location) dialing access code:
Private L1 domain (UDP location) dialing code length: (0-99)
Special number:
Special number dialing code length: (0-31)
Emergency service access prefix:

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Domain L0 Interops

«UCM Network Services

- System
 - NRS Server
 - Database
 - System Wide Settings
- Numbering Plans
 - Domains
 - Endpoints
 - Routes
 - Network Post-Translation
 - Collaborative Servers
- Tools
 - SIP Phone Context
 - Routing Tests
 - H.323
 - SIP
 - Backup
 - Restore
 - GK/NRS Data upgrade

Managing: Active database 172.30.13.103
 Standby database [Numbering Plans » Domains » L0 Domain](#)

Edit L0 Domain (pbxlab.org / rtp)

Domain name: *

Domain description:

Endpoint authentication enabled:

Authentication password:

E.164 country code:
E.164 area code:
Private unqualified number label:
E.164 international dialing access code:
E.164 international dialing code length: (0-99)
E.164 national dialing access code:
E.164 national dialing code length: (0-99)
E.164 local (subscriber) dialing access code:

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Edit L0 Domain (pbxlab.org / rtp)

E.164 country code:

E.164 area code:

Private unqualified number label:

E.164 international dialing access code:

E.164 international dialing code length: (0-99)

E.164 national dialing access code:

E.164 national dialing code length: (0-99)

E.164 local (subscriber) dialing access code:

E.164 local (subscriber) dialing code length: (0-99)

Private L1 domain (UDP location) dialing access code:

Private L1 domain (UDP location) dialing code length: (0-99)

Special number:

Special number dialing code length: (0-31)

Emergency service access prefix:

* Required value. Cancel

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System Wide Setting

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Managing: 172.30.13.103
System » System Wide Settings

System Wide Settings

SIP registration time to live timer: (30-3600 Seconds)

H.323 gatekeeper registration time to live timer: (30-3600 Seconds)

H.323 alias name: *

Auto backup time: (HH.MM)

Auto backup to secure FTP site enabled:

Auto backup to secure FTP site's IP address:

Auto backup secure FTP site's path:

Auto backup secure FTP user name:

Auto backup secure FTP password:

* Required value. Save Cancel

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Network Routing Services (NRS).

NRS- Gateway End Points



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Managing: Active database 172.30.13.103
 Standby database [Numbering Plans](#) » [Endpoints](#) » [Gateway Endpoint](#)

Edit Gateway Endpoint (pbxlab.org / rtp / interop)

End point name: *

Description: 172.20.170.254

Trust Node:

Tandem gateway endpoint name:

Endpoint authentication enabled:

Authentication password:

E.164 country code:

E.164 area code:

E.164 international dialing access code:

E.164 international dialing code length: (0-99)

E.164 national dialing access code:

E.164 national dialing code length: (0-99)

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Managing: Active database 172.30.13.103
 Standby database [Numbering Plans](#) » [Endpoints](#) » [Gateway Endpoint](#)

Edit Gateway Endpoint (pbxlab.org / rtp / interop)

E.164 national dialing code length: (0-99)

E.164 local (subscriber) dialing access code:

E.164 local (subscriber) dialing code length: (0-99)

Private L1 domain (UDP location) dialing access code:

Private L1 domain (UDP location) dialing code length: (0-99)

Private Special number 1:

Private Special number 1 dialing code length: (0-31)

Private Special number 2:

Private Special number 2 dialing code length: (0-31)

Static endpoint address type:

Static endpoint address:

H.323 support:

SIP support:

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Edit Gateway Endpoint (pbxlab.org / rtp / interop)

SIP support:

SIP Mode: Proxy Mode Redirect Mode

SIP TCP transport enabled:

SIP TCP port:

SIP UDP transport enabled:

SIP UDP port:

SIP TLS transport enabled:

SIP TLS port:

Persistent TCP support enabled:

End to end security support:

Network Connection Server enabled:

Redundancy enabled:

Main endpoint name:

Redundant endpoint name:

* Required value

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Cancel

Network Routing Services-Gateway End Points

Search for Endpoints

Enter an endpoint ID (use * for all) and click Search. You may narrow the search by specifying a particular domain.

Endpoint ID:

Limit results to Domain: / /

Results per page:

Gateway Endpoints (13) User Endpoints (0)

SIP phone context...

ID	Name	Mode	IP	Domain	Port	Context
6	CM_RILAB09	Redirect Mode	172.20.148.254	CUCM RILAB09	172.20.148.254	3
7	CM_VANLAB01	Redirect Mode	172.20.170.254	CUCM VANLAB01	172.20.170.254	9
8	CS104	Redirect Mode	172.30.11.100	Node 104		1
9	IRSC2	Redirect Mode	172.20.110.152	IRSC2		3

1 - 13 of 13 Gateway Endpoint(s) Page 1 of 1 First| Previous| Next| Last

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Managing: Active database 172.30.13.103
 Standby database [Numbering Plans](#) » [Endpoints](#) » [Gateway Endpoint](#)

Edit Gateway Endpoint (pbxlab.org / rtp / interop)

End point name: *

Description:

Trust Node:

Tandem gateway endpoint name:

Endpoint authentication enabled:

Authentication password:

E.164 country code:

E.164 area code:

E.164 international dialing access code:

E.164 international dialing code length: (0-99)

E.164 national dialing access code:

E.164 national dialing code length: (0-99)

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Managing: Active database 172.30.13.103
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Edit Gateway Endpoint (pbxlab.org / rtp / interop)

E.164 national dialing code length: (0-99)

E.164 local (subscriber) dialing access code:

E.164 local (subscriber) dialing code length: (0-99)

Private L1 domain (UDP location) dialing access code:

Private L1 domain (UDP location) dialing code length: (0-99)

Private Special number 1:

Private Special number 1 dialing code length: (0-31)

Private Special number 2:

Private Special number 2 dialing code length: (0-31)

Static endpoint address type:

Static endpoint address:

H.323 support:

SIP support:

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Edit Gateway Endpoint (pbxlab.org / rtp / interop)

SIP support:

SIP Mode: Proxy Mode Redirect Mode

SIP TCP transport enabled:

SIP TCP port:

SIP UDP transport enabled:

SIP UDP port:

SIP TLS transport enabled:

SIP TLS port:

Persistent TCP support enabled:

End to end security support:

Network Connection Server enabled:

Redundancy enabled:

Main endpoint name:

Redundant endpoint name:

* Required value

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Cancel

NRS Routes

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Managing: Active database 172.30.13.103
 Standby database [Numbering Plans » Routes](#)

Search for Routing Entries Hide

Enter a DnPrefix and Dn Type (use * for all) and click Search. You may narrow the search by specifying a particular domain.

DN Prefix: DN Type:

Limit results to Domain: / /

Endpoint Name:

Results per page: 50

Routing Entries (9) **Default Routes (0)**

	DN Prefix	DN Type	Route Cost	SIP URI Phone Context	Context
1	1408	E.164 international	1	+	pbxlab.org / rtp / interop / CM_VANLAB01
2	1800	E.164 international	1	+	pbxlab.org / rtp / interop / CM_VANLAB01

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Enter a DnPrefix and Dn Type (use * for all) and click Search. You may narrow the search by specifying a particular domain.

DN Prefix: * DN Type: All DN Types

Limit results to Domain: pbxlab.org / rtp / interop

Endpoint Name: CM_VANLAB01

Results per page: 50 Search

Routing Entries (9) Default Routes (0)

Routing test... Export... Refresh

3	<input type="checkbox"/>	370	Private level 0 regional (CDP steering code)	1	interop.rtp	pbxlab.org / rtp / interop / CM_VANLAB01
4	<input type="checkbox"/>	408	E.164 international	1	+	pbxlab.org / rtp / interop / CM_VANLAB01
5	<input type="checkbox"/>	4444	Private level 0 regional (CDP steering code)	1	interop.rtp	pbxlab.org / rtp / interop / CM_VANLAB01
6	<input type="checkbox"/>	4447	Private level 0 regional (CDP steering code)	1	interop.rtp	pbxlab.org / rtp / interop / CM_VANLAB01

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Enter a DnPrefix and Dn Type (use * for all) and click Search. You may narrow the search by specifying a particular domain.

DN Prefix: * DN Type: All DN Types

Limit results to Domain: pbxlab.org / rtp / interop

Endpoint Name: CM_VANLAB01

Results per page: 50 Search

Routing Entries (9) Default Routes (0)

Routing test... Export... Refresh

	<input type="checkbox"/>	DN Prefix	DN Type	Route Cost	SIP URI Phone Context	Context
7	<input type="checkbox"/>	701	Private level 0 regional (CDP steering code)	1	interop.rtp	pbxlab.org / rtp / interop / CM_VANLAB01
8	<input type="checkbox"/>	789	Private level 0 regional (CDP steering code)	1	interop.rtp	pbxlab.org / rtp / interop / CM_VANLAB01
9	<input type="checkbox"/>	888	Private level 0 regional (CDP steering code)	1	interop.rtp	pbxlab.org / rtp / interop / CM_VANLAB01

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Configuring the Cisco Unified Communications Manager

Cisco Unified Communications Manager –Software Release

The screenshot shows the Cisco Unified CM Administration interface. At the top, there is a navigation bar with the Cisco logo and the text "Cisco Unified CM Administration For Cisco Unified Communications Solutions". Below this is a secondary navigation bar with menu items: System, Call Routing, Media Resources, Advanced Features, Device, Application, User Management, Bulk Administration, and Help. The main content area features a large blue banner with the text "Cisco Unified CM Administration" and "System version: 8.5.1.10000-26". To the right of the banner is a photograph of server racks. Below the banner, there is a logon timestamp: "Last Successful Logon: Jan 10, 2011 3:57:01 PM". The footer contains copyright information: "Copyright © 1999 - 2011 Cisco Systems, Inc. All rights reserved." and several informational paragraphs regarding cryptographic features and legal compliance.

Cisco Unified Communications Manager –Regional Configurations

The screenshot displays the "Find and List Regions" page in the Cisco Unified CM Administration interface. The top navigation bar is identical to the previous screenshot. Below the navigation bar, there are action buttons: "Add New", "Select All", "Clear All", and "Delete Selected". A "Status" section indicates "3 records found". The main area is titled "Regions (1 - 3 of 3)" and includes a search filter: "Find Regions where Name begins with" followed by a text input field, "Find", and "Clear Filter" buttons. Below the search filter is a table with three rows, each representing a region. The table has a checkbox in the first column and a "Name" column. The regions listed are "Default", "G711_region", and "G729-region". At the bottom of the table area, there are buttons for "Add New", "Select All", "Clear All", and "Delete Selected".

<input type="checkbox"/>	Name ^
<input type="checkbox"/>	Default
<input type="checkbox"/>	G711_region
<input type="checkbox"/>	G729-region



Cisco UCM Regional Configurations: G729 region for G729 codec configurations

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration Go

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Region Configuration Related Links: Back To Find/List Go

Save Delete Reset Apply Config Add New

Region Information
Name* G729-region

Region Relationships

Region	Max Audio Bit Rate	Max Video Call Bit Rate (Includes Audio)	Link Loss Type
G711_region	64 kbps (G.722, G.711)	384	Use System Default
G729-region	8 kbps (G.729)	384	Use System Default
NOTE: Region(s) not displayed	Use System Default	Use System Default	Use System Default

Modify Relationship to other Regions

Regions	Max Audio Bit Rate	Max Video Call Bit Rate (Includes Audio)	Link Loss Type
Default G711_region G729-region	Keep Current Setting	<input checked="" type="radio"/> Keep Current Setting <input type="radio"/> Use System Default <input type="radio"/> None <input type="radio"/> _____ kbps	Keep Current Setting

Save Delete Reset Apply Config Add New

Cisco UCM Regional Configurations: G711 region for G711 codec configurations

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Region Configuration Related Links: Back To Find/List Go

Save Delete Reset Apply Config Add New

Region Information
Name* REGION_SME_G711

Region Relationships

Region	Max Audio Bit Rate	Max Video Call Bit Rate (Includes Audio)	Link Loss Type
Default	64 kbps (G.722, G.711)	384	Use System Default
REGION_SME_G711	64 kbps (G.722, G.711)	384	Use System Default
REGION_SME_G729	8 kbps (G.729)	384	Use System Default
NOTE: Region(s) not displayed	Use System Default	Use System Default	Use System Default

Modify Relationship to other Regions

Regions	Max Audio Bit Rate	Max Video Call Bit Rate (Includes Audio)	Link Loss Type
Default REGION_SME_G711 REGION_SME_G729	8 kbps (G.729)	<input checked="" type="radio"/> Keep Current Setting <input type="radio"/> Use System Default <input type="radio"/> None <input type="radio"/> _____ kbps	Keep Current Setting

Save Delete Reset Apply Config Add New



Cisco Unified Communications Manager – Device Pool Configurations

Cisco Unified CM Administration
For Cisco Unified Communications Solutions

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Find and List Device Pools

Status
3 records found

Device Pool (1 - 3 of 3) Rows per Page 50

Find Device Pool where Device Pool Name begins with

<input type="checkbox"/>	Name ^	Cisco Unified CM Group	Region	Date/Time Group	Copy
<input type="checkbox"/>	DP_SME-G711	Default	REGION_SME_G711	CMLocal	<input type="button" value="Copy"/>
<input type="checkbox"/>	DP_SME_G729	Default	REGION_SME_G729	CMLocal	<input type="button" value="Copy"/>
<input type="checkbox"/>	Default	Default	Default	CMLocal	<input type="button" value="Copy"/>

Cisco Unified Communications Manager – Device Pool Configurations G711

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Device Pool Configuration

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

Device Pool Information
Device Pool: DP_SME-G711 (3 members**)

Device Pool Settings

Device Pool Name*	DP_SME-G711
Cisco Unified Communications Manager Group*	Default
Calling Search Space for Auto-registration	< None >
Adjunct CSS	< None >
Reverted Call Focus Priority	Default
Local Route Group	< None >
Intercompany Media Services Enrolled Group	< None >

Roaming Sensitive Settings

Date/Time Group*	CMLocal
Region*	REGION_SME_G711
Media Resource Group List	MRGL
Location	< None >
Network Locale	< None >



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Device Pool Configuration Related Links: Back To Find/List | Go

Save | Delete | Copy | Reset | Apply Config | Add New

Network Locale: < None >
 SRST Reference*: Use Default Gateway
 Connection Monitor Duration***:
 Single Button Barge*: Default
 Join Across Lines*: Default
 Physical Location: < None >
 Device Mobility Group: < None >

Device Mobility Related Information****

Device Mobility Calling Search Space: < None >
 AAR Calling Search Space: < None >
 AAR Group: < None >
 Calling Party Transformation CSS: < None >
 Called Party Transformation CSS: < None >

Geolocation Configuration

Geolocation: < None >
 Geolocation Filter: < None >

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Device Pool Configuration Related Links: Back To Find/List | Go

Save | Delete | Copy | Reset | Apply Config | Add New

Call Routing Information

Incoming Calling Party Settings

If the administrator sets the prefix to Default this indicates call processing will use prefix at the next level setting (DevicePool/Service Parameter). Otherwise, the value configured is used as the prefix unless the field is empty in which case there is no prefix assigned.

Clear Prefix Settings | Default Prefix Settings

Number Type	Prefix	Strip Digits	Calling Search Space
National Number	Default		< None >
International Number	Default		< None >
Unknown Number	Default		< None >
Subscriber Number	Default		< None >

Incoming Called Party Settings

If the administrator sets the prefix to Default this indicates call processing will use prefix at the next level setting (DevicePool/Service Parameter). Otherwise, the value configured is used as the prefix unless the field is empty in which case there is no prefix assigned.

Clear Prefix Settings | Default Prefix Settings

Number Type	Prefix	Strip Digits	Calling Search Space
National Number	Default	0	< None >



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Device Pool Configuration Related Links: Back To Find/List Go

Save Delete Copy Reset Apply Config Add New

Incoming Called Party Settings

If the administrator sets the prefix to Default this indicates call processing will use prefix at the next level setting (DevicePool/Service Parameter). Otherwise, the value configured is used as the prefix unless the field is empty in which case there is no prefix assigned.

Clear Prefix Settings Default Prefix Settings

Number Type	Prefix	Strip Digits	Calling Search Space
National Number	Default	0	< None >
International Number	Default	0	< None >
Unknown Number	Default	0	< None >
Subscriber Number	Default	0	< None >

Connected Party Settings

Connected Party Transformation CSS < None >

Save Delete Copy Reset Apply Config Add New

*- indicates required item.



Cisco Unified Communications Manager – Device Pool Configurations-G729

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For Cisco Unified Communications Solutions

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Device Pool Configuration Related Links:

Device Pool Information
Device Pool: DP_SME_G729 (3 members**)

Device Pool Settings

Device Pool Name*	DP_SME_G729
Cisco Unified Communications Manager Group*	Default
Calling Search Space for Auto-registration	< None >
Adjunct CSS	< None >
Reverted Call Focus Priority	Default
Local Route Group	< None >
Intercompany Media Services Enrolled Group	< None >

Roaming Sensitive Settings

Date/Time Group*	CMLocal
Region*	REGION_SME_G729
Media Resource Group List	< None >
Location	< None >
Network Locale	< None >

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Device Pool Configuration Related Links:

Network Locale	< None >
SRST Reference*	Use Default Gateway
Connection Monitor Duration***	
Single Button Barge*	Default
Join Across Lines*	Default
Physical Location	< None >
Device Mobility Group	< None >

Device Mobility Related Information****

Device Mobility Calling Search Space	< None >
AAR Calling Search Space	< None >
AAR Group	< None >
Calling Party Transformation CSS	< None >
Called Party Transformation CSS	< None >

Geolocation Configuration

Geolocation	< None >
Geolocation Filter	< None >



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Device Pool Configuration Related Links:

Incoming Calling Party Settings

If the administrator sets the prefix to Default this indicates call processing will use prefix at the next level setting (DevicePool/Service Parameter). Otherwise, the value configured is used as the prefix unless the field is empty in which case there is no prefix assigned.

Number Type	Prefix	Strip Digits	Calling Search Space
National Number	Default		< None >
International Number	Default		< None >
Unknown Number	Default		< None >
Subscriber Number	Default		< None >

Incoming Called Party Settings

If the administrator sets the prefix to Default this indicates call processing will use prefix at the next level setting (DevicePool/Service Parameter). Otherwise, the value configured is used as the prefix unless the field is empty in which case there is no prefix assigned.

Number Type	Prefix	Strip Digits	Calling Search Space
National Number	Default	0	< None >
International Number	Default	0	< None >

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Device Pool Configuration Related Links:

Incoming Called Party Settings

If the administrator sets the prefix to Default this indicates call processing will use prefix at the next level setting (DevicePool/Service Parameter). Otherwise, the value configured is used as the prefix unless the field is empty in which case there is no prefix assigned.

Number Type	Prefix	Strip Digits	Calling Search Space
National Number	Default	0	< None >
International Number	Default	0	< None >
Unknown Number	Default	0	< None >
Subscriber Number	Default	0	< None >

Connected Party Settings

Connected Party Transformation CSS

Footnote:

* - indicates required item.

**Number of devices that have to be reset when this device pool is updated. To see a detailed list of these devices and other dependencies, click on



Cisco Unified Communications Manager - Media Termination Points Configurations

Cisco Unified CM Administration For Cisco Unified Communications Solutions

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Find and List Media Termination Points

Status
2 records found

Media Termination Point (1 - 2 of 2)

Rows per Page 50

Find Media Termination Point where Name begins with

<input type="checkbox"/>	Name ^	Description	Device Pool	Status	IP Address	Copy
<input type="checkbox"/>	 MTP_2	MTP_CM-RILAB09	Default	Registered with CM-RILAB09	172.20.148.254	Not Allowed
<input type="checkbox"/>	 mtp112233445566		DP_SME_G729	Unknown	Unknown	



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Media Termination Point Configuration

Related Links: Back To Find/List Go

Save Reset Apply Config

Status
Status: Ready

Media Termination Point Information

Registration	Registered with Cisco Unified Communications Manager CM-VANLAB01
IP Address	172.20.170.254
Media Termination Point Type*	Cisco Media Termination Point Software
Host Server*	CM-VANLAB01
Media Termination Point Name*	MTP_2
Description	MTP_CM-VANLAB01
Device Pool*	Default

Trusted Relay Point

Save Reset Apply Config

* - indicates required item.

Cisco Unified Communications Manager – Media Resource Group Lists configurations

Cisco Unified CM Administration
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Media Resource Group List Configuration

Related Links: Back To Find/List Go

Save Delete Copy Add New

Media Resource Group List Status
Media Resource Group List: MRGL (used by 20 devices)

Media Resource Group List Information

Name* MRGL

Media Resource Groups for this List

Available Media Resource Groups

Selected Media Resource Groups: MRG

Save Delete Copy Add New

Cisco Unified Communications Manager – Media Resource Group configurations



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Media Resource Group Configuration

Related Links: Back To Find/List Go

Save ~~Delete~~ Copy + Add New

Media Resource Group Status
Media Resource Group: MRG (used by 27 devices)

Media Resource Group Information

Name* MRG
Description MRG

Devices for this Group

Available Media Resources**
ANN_2
CFB_2
MOH_2

Selected Media Resources*
MTP0015F90D0990 (XCODE)
MTP_2 (MTP)

Use Multi-cast for MOH Audio (If at least one multi-cast MOH resource is available)

Save Delete Copy Add New



Cisco Unified Communications Manager – Route Patterns

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Find and List Route Patterns				
<input type="button" value="Add New"/> <input type="button" value="Select All"/> <input type="button" value="Clear All"/> <input type="button" value="Delete Selected"/>				
<input type="checkbox"/>	1800XXXXXX	SIP route to ASR enterprise	TO ASR or ACME RL	
<input type="checkbox"/>	23XX	route to cs104	Nortel_Node104	
<input type="checkbox"/>	2500	Outbound to Call Pilot	Nortel_Node104	
<input type="checkbox"/>	34XX	route to cs103	Nortel_Node103	
<input type="checkbox"/>	35XX	outbound to CME 192.103 35XX	Phones	
<input type="checkbox"/>	37XX	Outbound to CUCM RILAB09	ASRSME TO CUCM_G729	
<input type="checkbox"/>	3803	Outbound to rilab09 UNITY	CM_VANLAB01_H323 ICTTOCUCM	
<input type="checkbox"/>	390X	Route to CUCM RILAB09	CM_VANLAB01_H323 ICTTOCUCM	
<input type="checkbox"/>	399X	sme Outbound to CUCM CM_RILAB09	S0/SU2/DS1-0@router	
<input type="checkbox"/>	39XX	Outbound to CUCM RILAB09	ASRSME TO CUCM_G729	
<input type="checkbox"/>	41XX	outbound to CME 192.102 41xx	S0/SU2/DS1-0@router	
<input type="checkbox"/>	5050	outbound to AVAYA AUTO ATT	S0/SU2/DS1-0@router	
<input type="checkbox"/>	511	SIP route to ASR enterprise	S0/SU2/DS1-1@Ri104	
<input type="checkbox"/>	680X	Outbound to CUE or CS101 or CUCM Titanic	Phones	
<input type="checkbox"/>	799X	Outbound to rilab09 UNITY	S0/SU2/DS1-0@router	

Route pattern from Cisco UCM to PBX Nortel

(Route Pattern 23XX → Nortel_Node104 (SIP Trunk should select Device Pool codec(G711/G729) and select MRGL for Transcoder and MTP2/Hardware MTP)

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Route Pattern Configuration	
Related Links: Back To Find/List Go	
<input type="button" value="Save"/> <input type="button" value="Delete"/> <input type="button" value="Copy"/> <input type="button" value="Add New"/>	
Pattern Definition	
Route Pattern*	23XX
Route Partition	< None >
Description	route to cs104
Numbering Plan	-- Not Selected --
Route Filter	< None >
MLPP Precedence*	Default
Resource Priority Namespace Network Domain	< None >
Route Class*	Default
Gateway/Route List*	Nortel_Node104 (Edit)
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern No Error
Call Classification*	OnNet
<input type="checkbox"/> Allow Device Override <input type="checkbox"/> Provide Outside Dial Tone <input type="checkbox"/> Allow Overlap Sending <input type="checkbox"/> Urgent Priority <input type="checkbox"/> Require Forced Authorization Code	



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Save Delete Copy Add New

Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation* Default

Calling Name Presentation* Default

Calling Party Number Type* Cisco CallManager

Calling Party Numbering Plan* Cisco CallManager

Connected Party Transformations

Connected Line ID Presentation* Default

Connected Name Presentation* Default

Called Party Transformations

Discard Digits < None >

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

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Called Party Transformations

Discard Digits < None >

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

Called Party Number Type* Cisco CallManager

Called Party Numbering Plan* Cisco CallManager

ISDN Network-Specific Facilities Information Element

Network Service Protocol -- Not Selected --

Carrier Identification Code

Network Service	Service Parameter Name	Service Parameter Value
-- Not Selected --	< Not Exist >	

Save Delete Copy Add New

i *- indicates required item.



Cisco UCM SIP Trunk:

Cisco UCM SIP trunk to Nortel PBX

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Trunk Configuration Related Links: Back To Find/List **Go**

Save Delete Reset Add New

Device Information

Product:	SIP Trunk
Device Protocol:	SIP
Trunk Service Type	None(Default)
Device Name*	Nortel_Node104
Description	Outbound to CS104
Device Pool*	Default
Common Device Configuration	< None >
Call Classification*	Use System Default
Media Resource Group List	MRGL
Location*	Hub_None
AAR Group	< None >
Tunneled Protocol*	None
QSIG Variant*	No Changes
ASN.1 ROSE OID Encoding*	No Changes
Packet Capture Mode*	None
Packet Capture Duration	0

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Trunk Configuration Related Links: Back To Find/List **Go**

Save Delete Reset Add New

Packet Capture Duration: 0

- Media Termination Point Required
- Retry Video Call as Audio
- Path Replacement Support
- Transmit UTF-8 for Calling Party Name
- Transmit UTF-8 Names in QSIG APDU
- Unattended Port
- SRTP Allowed - When this flag is checked, Encrypted TLS needs to be configured in the network to provide end to end security. Failure to do so will expose keys and other information.

Consider Traffic on This Trunk Secure*

Route Class Signaling Enabled*

Use Trusted Relay Point*

- PSTN Access
- Run On All Active Unified CM Nodes

Intercompany Media Engine (IME)



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

Save Delete Add New

Multilevel Precedence and Preemption (MLPP) Information

MLPP Domain

Call Routing Information

Remote-Party-Id

Asserted-Identity

Asserted-Type*

SIP Privacy*

Inbound Calls

Significant Digits*

Connected Line ID Presentation*

Connected Name Presentation*

Calling Search Space

AAR Calling Search Space

Prefix DN

Redirecting Diversion Header Delivery - Inbound

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

Save Delete Add New

Incoming Calling Party Settings

If the administrator sets the prefix to Default this indicates call processing will use prefix at the next level setting (DevicePool/Service Parameter). Otherwise, the value configured is used as the prefix unless the field is empty in which case there is no prefix assigned.

Number Type	Prefix	Strip Digits	Calling Search Space	Use Device Pool CSS
Incoming Number	<input type="text" value="Default"/>	<input type="text" value="0"/>	<input type="text" value="< None >"/>	<input checked="" type="checkbox"/>

Connected Party Settings

Connected Party Transformation CSS

Use Device Pool Connected Party Transformation CSS

Outbound Calls

Called Party Transformation CSS

Use Device Pool Called Party Transformation CSS

Calling Party Transformation CSS

Use Device Pool Calling Party Transformation CSS



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Trunk Configuration

Related Links: Back To Find/List Go

Save Delete Reset Add New

Use Device Pool Calling Party Transformation CSS

Calling Party Selection* Originator

Calling Line ID Presentation* Allowed

Calling Name Presentation* Allowed

Caller ID DN

Caller Name

Redirecting Diversion Header Delivery - Outbound

SIP Information

Destination

Destination Address is an SRV

	Destination Address	Destination Address IPv6	Destination Port
1*	172.30.11.100		5060

MTP Preferred Originating Codec* 711ulaw

Presence Group* Standard Presence group

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Trunk Configuration

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MTP Preferred Originating Codec* 711ulaw

Presence Group* Standard Presence group

SIP Trunk Security Profile* SIP Trunks

Rerouting Calling Search Space < None >

Out-Of-Dialog Refer Calling Search Space < None >

SUBSCRIBE Calling Search Space < None >

SIP Profile* Early Offer SIP Profile

DTMF Signaling Method* OOB and RFC 2833

Normalization Script

Normalization Script nortel_cs1000ev3

Enable Trace

	Parameter Name	Parameter Value
1		

Geolocation Configuration



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Trunk Configuration Related Links: Back To Find/List **Go**

Save **X** Delete Reset Add New

Normalization Script

Normalization Script: nortel_cs1000ev3

Enable Trace

Parameter Name	Parameter Value
1	

Geolocation Configuration

Geolocation: < None >

Geolocation Filter: < None >

Send Geolocation Information

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.

Cisco UCM - Voice mail-Unity Connection uses as Voice mail Center

Cisco Unity Connection - Voice mail ports

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Find and List Voice Mail Ports

Add New Select All Clear All **X** Delete Selected Reset Selected Apply Config to Selected

Voice Mail Port (1 - 8 of 8) Rows per Page 50

Find Voice Mail Port where Device Name begins with Find Clear Filter

Select item or enter search text

Device Name	Description	Device Pool	Device Security Mode	Calling Search Space	Extension	Partition	Status	IP Address	Copy
CiscoUM1-VI1	CM_VANLAB01	Default	Non Secure Voice Mail Port	PhoneCSS	6901	Phones	Unknown	Unknown	Copy
CiscoUM1-VI2	CM_VANLAB01	Default	Non Secure Voice Mail Port	PhoneCSS	6902	Phones	Unknown	Unknown	Copy
CiscoUM1-VI3	CM_VANLAB01	Default	Non Secure Voice Mail Port	PhoneCSS	6903	Phones	Unknown	Unknown	Copy
CiscoUM1-VI4	CM_VANLAB01	Default	Non Secure Voice Mail Port	PhoneCSS	6904	Phones	Unknown	Unknown	Copy
CiscoUM2-VI1	Unity Conn 172.20.238.250	Default	Non Secure Voice Mail Port		8891		Registered with CM-VANLAB01	172.20.238.250	Copy
CiscoUM2-VI2	Unity Conn 172.20.238.250	Default	Non Secure Voice Mail Port		8892		Registered with CM-VANLAB01	172.20.238.250	Copy
CiscoUM2-VI3	Unity Conn 172.20.238.250	Default	Non Secure Voice Mail Port		8893		Registered with CM-VANLAB01	172.20.238.250	Copy
CiscoUM2-VI4	Unity Conn 172.20.238.250	Default	Non Secure Voice Mail Port		8894		Registered with CM-VANLAB01	172.20.238.250	Copy



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Voice Mail Port Configuration Related Links: Back To Find/List Go

Save Delete Copy Reset Apply Config Add New

Device Information

Registration	Registered with Cisco Unified Communications Manager CM-VANLAB01
IP Address	172.20.238.250
<input checked="" type="checkbox"/> Device is trusted	
Port Name*	CiscoUM2-V11
Description	Unity Conn 172.20.238.250
Device Pool*	Default
Common Device Configuration	< None >
Calling Search Space	< None >
AAR Calling Search Space	< None >
Location*	Hub_None
Device Security Mode*	Non Secure Voice Mail Port
Use Trusted Relay Point*	Default
Geolocation	< None >

Directory Number Information

Directory Number* 8891

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Voice Mail Port Configuration Related Links: Back To Find/List Go

Save Delete Copy Reset Apply Config Add New

Use Trusted Relay Point* Default

Geolocation < None >

Directory Number Information

Directory Number*	8891
Partition	< None >
Calling Search Space	< None >
AAR Group	< None >
Internal Caller ID Display	VoiceMail
Internal Caller ID Display (ASCII format)	VoiceMail
External Number Mask	

Save Delete Copy Reset Apply Config Add New

i *- indicates required item.

Cisco Unity Connection-Voice mail Message Waiting



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Find and List Message Waiting Numbers

Status
2 records found

Message Waiting Numbers (1 - 2 of 2) Rows per Page 50

Find Message Waiting Numbers where Directory Number begins with and where Message Waiting Indicator is Both

<input type="checkbox"/>	Directory Number ^	Description	Partition	Calling Search Space	Copy
<input type="checkbox"/>	4200	MWI ON			<input type="button" value="Copy"/>
<input type="checkbox"/>	4201	MWI OFF			<input type="button" value="Copy"/>

Cisco Unity Connection Voice mail Pilot

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Find and List Voice Mail Pilots

Status
4 records found

Voice Mail Pilot (1 - 4 of 4) Rows per Page 50

Find Voice Mail Pilot where Voice Mail Pilot Number begins with

<input type="checkbox"/>	Pilot Number ^	Description	Calling Search Space
<input type="checkbox"/>		No Voice Mail	
<input type="checkbox"/>	2500	NT CALL PILOT	
<input type="checkbox"/>	7890	VM pilot for Uconnect	
<input type="checkbox"/>	8999	Default OR UNITY	PhoneCSS



The screenshot shows the Cisco Unified CM Administration interface for the 'Voice Mail Pilot Configuration' page. The page title is 'Voice Mail Pilot Configuration' and it includes a 'Related Links' section with a 'Back To Find/List' button. The 'Status' section shows 'Status: Ready'. The 'Voice Mail Pilot Information' section contains the following fields: 'Voice Mail Pilot Number' (7890), 'Calling Search Space' (< None >), and 'Description' (VM pilot for Uconnect). There is a checkbox labeled 'Make this the default Voice Mail Pilot for the system' which is checked. At the bottom, there are buttons for 'Save', 'Delete', and 'Add New', and a note: '*- indicates required item.'

Cisco Unity Connection-Voice mail Profile

The screenshot shows the Cisco Unified CM Administration interface for the 'Voice Mail Profile Configuration' page. The page title is 'Voice Mail Profile Configuration' and it includes a 'Related Links' section with a 'Back To Find/List' button. The 'Status' section shows 'Update successful'. The 'Voice Mail Profile Information' section contains the following fields: 'Voice Mail Profile' (Default (used by 6 devices)), 'Voice Mail Profile Name*' (Default), 'Description' (Default voice messaging profile), 'Voice Mail Pilot**' (7890/< None >), and 'Voice Mail Box Mask'. There is a checkbox labeled 'Make this the default Voice Mail Profile for the System' which is checked. At the bottom, there are buttons for 'Save', 'Delete', 'Copy', 'Reset', 'Apply Config', and 'Add New', and two notes: '*- indicates required item.' and '**- The Voice Mail Pilot is comprised of the Voice Mail Pilot Number and it's corresponding Calling Search Space Name (< Voice Mail Pilot Number >/< Calling Search Space >).

Cisco Unity Connection-Hunt Pilot



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For Cisco Unified Communications Solutions

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Find and List Hunt Pilots

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

Status
2 records found

Hunt Pilots (1 - 2 of 2) Rows per Page 50

Find Hunt Pilots where Pattern begins with Find Clear Filter

<input type="checkbox"/>	Pattern	Description	Partition	Route Filter	Hunt List	Copy
<input type="checkbox"/>	7890				Unity_conn huntlist	
<input type="checkbox"/>	8999	VANLAB01 HUNTLIST			RI VM HUNTLIST	

Add New | Select All | Clear All | Delete Selected

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

Save | Delete | Copy | Add New

Pattern Definition

Hunt Pilot* 7890

Route Partition < None >

Description

Numbering Plan < None >

Route Filter < None >

MLPP Precedence* Default

Hunt List* [Unity_conn_huntlist](#) (Edit)

Alerting Name unity connection

ASCII Alerting Name unity connection

Route Option
 Route this pattern
 Block this pattern No Error

Provide Outside Dial Tone Urgent Priority

Hunt Forward Settings



Cisco Unified CM Administration
For Cisco Unified Communications Solutions

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Hunt Pilot Configuration Related Links:

Save Delete Copy Add New

Hunt Forward Settings

	Use Personal Preferences	Destination	Calling Search Space
Forward Hunt No Answer	<input type="checkbox"/> or	<input type="text"/>	< None >
Forward Hunt Busy	<input type="checkbox"/> or	<input type="text"/>	< None >
Call Pickup Group	< None >		
Maximum Hunt Timer	<input type="text"/>		

Park Monitoring

	Destination	Calling Search Space
Park Monitoring Forward No Retrieve Destination	<input type="text"/>	< None >

A blank value means to use the parker's Park Monitoring Forward No Retrieve Destination settings.

Calling Party Transformations

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

Cisco Unified CM Administration
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Hunt Pilot Configuration Related Links:

Save Delete Copy Add New

Calling Party Transform Mask

Prefix Digits (Outgoing Calls)

Calling Line ID Presentation*

Calling Name Presentation*

Calling Party Number Type*

Calling Party Numbering Plan*

Connected Party Transformations

Connected Line ID Presentation*

Connected Name Presentation*

Called Party Transformations

Discard Digits

Called Party Transform Mask

Prefix Digits (Outgoing Calls)

Called Party Number Type*



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Save **X** Delete Copy Add New

Connected name presentation: Default

Called Party Transformations

Discard Digits: < None >

Called Party Transform Mask: _____

Prefix Digits (Outgoing Calls): _____

Called Party Number Type*: Cisco CallManager

Called Party Numbering Plan*: Cisco CallManager

AAR Group Settings

AAR Group: < None >

External Number Mask: _____

Save Delete Copy Add New

i *- indicates required item.

Cisco Unity Connection-Hunt list

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Find and List Hunt Lists

Add New Select All Clear All **X** Delete Selected Reset Selected Apply Config to Selected

Status

i 2 records found

Hunt List (1 - 2 of 2) Rows per Page 50

Find Hunt List where Name begins with Find Clear Filter + -

<input type="checkbox"/>	Name ^	Description	Enabled	Status
<input type="checkbox"/>	RI VM HUNTLIST	RI VM HUNTLIST	true	Registered with CM-VANLAB01
<input type="checkbox"/>	Unity_conn_huntlist	Unity_conn_huntlist	true	Registered with CM-VANLAB01

Add New Select All Clear All Delete Selected Reset Selected Apply Config to Selected



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Hunt List Configuration Related Links: Back To Find/List Go

Save Delete Copy Reset Apply Config Add New

Hunt List Information

Device is trusted

Name*

Description

Cisco Unified Communications Manager Group*

Enable this Hunt List (change effective on Save; no reset required)

For Voice Mail Usage

Hunt List Member Information

Add Line Group

Selected Groups**

Removed Groups***

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Hunt List Configuration Related Links: Back To Find/List Go

Save Delete Copy Reset Apply Config Add New

Selected Groups**

Removed Groups***

Hunt List Details

[Unity_Conn_linegrp](#)

Save Delete Copy Reset Apply Config Add New

*- indicates required item.

**ordered by highest priority

Cisco Unity Connection-Line Group



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Line Group Configuration Related Links: Back To Find/List Go

Save Delete Add New

Line Group Information

Line Group Name* Unity_Conn_linegrp
RNA Reversion Timeout* 10
Distribution Algorithm* Longest Idle Time

Hunt Options

No Answer* Try next member; then, try next group in Hunt List
Busy** Try next member; then, try next group in Hunt List
Not Available** Try next member; then, try next group in Hunt List

Line Group Member Information

Find Directory Numbers to Add to Line Group

Partition < None >
Directory Number Contains Find
Available DN/Route Partition 1000 3213 3213/Phones

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Line Group Configuration Related Links: Back To Find/List Go

Save Delete Add New

Available DN/Route Partition 3701 3702 3703 3704 3704/Phones
Add to Line Group

Current Line Group Members

Reverse Order of Selected DN/Route Partitions

Selected DN/Route Partition 8891 8892 8893 8894
Removed DN/Route Partition



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Line Group Configuration

Related Links: Back To Find/List Go

Save Delete Add New

Selected DN/Route Partition: 8891, 8892, 8893, 8894

Removed DN/Route Partition:

Directory Numbers

- 7715 8891 (no partition)
- 7715 8892 (no partition)
- 7715 8893 (no partition)
- 7715 8894 (no partition)

Save Delete Add New

Cisco UCM- Unity Connection-Directory Numbers

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Directory Number Configuration

Related Links: Back To Find/List Go

Save Delete Copy Reset Apply Config Add New

Directory Number Information

Directory Number*: 8891

Route Partition: < None >

Description:

Alerting Name: VoiceMail

ASCII Alerting Name:

Line Group: Unity_Conn_linegrp [Edit Line Group](#)

Associated Devices: CiscoUM2-VI1 [Edit Device](#)

[Edit Line Appearance](#)

Dissociate Devices:

Directory Number Settings



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Directory Number Configuration Related Links:

Save Delete Copy Reset Apply Config Add New

Directory Number Settings

Voice Mail Profile	<input type="text" value="NoVoiceMail"/>	(Choose <None> to use system default)
Calling Search Space	<input type="text" value="< None >"/>	
Presence Group*	<input type="text" value="Standard Presence group"/>	
User Hold MOH Audio Source	<input type="text" value="< None >"/>	
Network Hold MOH Audio Source	<input type="text" value="< None >"/>	

AAR Settings

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

Retain this destination in the call forwarding history

Call Forward and Call Pickup Settings

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

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Directory Number Configuration Related Links:

Save Delete Copy Reset Apply Config Add New

Forward All or

Secondary Calling Search Space for Forward All

Forward Busy Internal or

Forward Busy External or

Forward No Answer Internal or

Forward No Answer External or

Forward No Coverage Internal or

Forward No Coverage External or

Forward on CTI Failure or

Forward Unregistered Internal or

Forward Unregistered External or

No Answer Ring Duration (seconds)

Call Pickup Group



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Directory Number Configuration Related Links: Back To Find/List Go

Save Delete Copy Reset Apply Config Add New

Park Monitoring

	Voice Mail	Destination	Calling Search Space
Park Monitoring Forward No Retrieve Destination External	<input type="checkbox"/> or		< None > A blank value means to call the parker's line.
Park Monitoring Forward No Retrieve Destination Internal	<input type="checkbox"/> or		< None > A blank value means to call the parker's line.
Park Monitoring Reversion Timer		parameter	A blank value will use value set in Park Monitoring Reversion Timer service

MLPP Alternate Party Settings

Target (Destination)

MLPP Calling Search Space < None >

MLPP No Answer Ring Duration (seconds)

Line Settings for All Devices

Hold Reversion Ring Duration (seconds)

Setting the Hold Reversion Ring Duration to zero will disable the

feature

Hold Reversion Notification Interval (seconds)

Setting the Hold Reversion Notification Interval to zero will disable the

feature

Party Entrance Tone* Default

Save Delete Copy Reset Apply Config Add New

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

Cisco UCM Service Parameter "Duplex Streaming Enabled" set to "True". This Duplex Streaming feature with SIP profile Send Send-receive SDP in Mid-call INVITE in Trunk Specific config. will activate MOH.



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Service Parameter Configuration Related Links: Parameters for All Servers **Go**

Save Set to Default Advanced

Clusterwide Parameters (Service)

Default Network Hold MOH Audio Source ID *	1	1
Default User Hold MOH Audio Source ID *	1	1
Duplex Streaming Enabled *	True	False
Media Exchange Interface Capability Timer *	8	8
Send Multicast MOH in H.245 OLC Message *	True	True
Media Exchange Timer *	12	12
Media Exchange Stop Streaming Timer *	8	8
Open Video Channel Response Timer for SIP Interop *	500	500
Port Received Timer After Call Connection *	500	500
Media Resource Allocation Timer *	12	12
MTP and Transcoder Resource Throttling Percentage *	95	95
Intercluster Capabilities Mismatch Timer *	1000	1000
Silence Suppression *	False	False
Silence Suppression for Gateways *	False	False

Cisco UCM- SIP Trunk Profiles

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SIP Profile Configuration Related Links: Back To Find/List **Go**

Save Delete Copy Reset Apply Config Add New

SIP Profile Information

Name* Early Offer SIP Profile

Description Early Offer SIP Profile

Default MTP Telephony Event Payload Type* 101

Resource Priority Namespace List < None >

Early Offer for G.Clear Calls* Disabled

Redirect by Application

Disable Early Media on 180

Outgoing T.38 INVITE include audio mline

Enable ANAT

Require SDP Inactive Exchange for Mid-Call Media Change

Parameters used in Phone

Timer Invite Expires (seconds)* 180

Timer Register Delta (seconds)* 5

Timer Register Expires (seconds)* 3600



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Timer T1 (msec)*	500
Timer T2 (msec)*	4000
Retry INVITE*	6
Retry Non-INVITE*	10
Start Media Port*	16384
Stop Media Port*	32766
Call Pickup URI*	x-cisco-serviceuri-pickup
Call Pickup Group Other URI*	x-cisco-serviceuri-opickup
Call Pickup Group URI*	x-cisco-serviceuri-gpickup
Meet Me Service URI*	x-cisco-serviceuri-meetme
User Info*	None
DTMF DB Level*	Nominal
Call Hold Ring Back*	Off
Anonymous Call Block*	Off
Caller ID Blocking*	Off

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

Save ~~Delete~~ Copy Reset Apply Config Add New

Do Not Disturb Control*	User
Telnet Level for 7940 and 7960*	Disabled
Timer Keep Alive Expires (seconds)*	120
Timer Subscribe Expires (seconds)*	120
Timer Subscribe Delta (seconds)*	5
Maximum Redirections*	70
Off Hook To First Digit Timer (milliseconds)*	15000
Call Forward URI*	x-cisco-serviceuri-cfwdall
Speed Dial (Abbreviated Dial) URI*	x-cisco-serviceuri-abbrdial

Conference Join Enabled
 RFC 2543 Hold
 Semi Attended Transfer
 Enable VAD
 Stutter Message Waiting



Cisco UCM- SIP Normalization configurations

- 1-Copy the SIP Normalization Script (below) and paste it to a note pad and save as text. Make sure that the script is in text format and not corrupted.
- 2- Access to the SIP Normalization Script Configuration in Cisco UCM and upload to the Script. Give the loaded script a short name so that the name will be assigned to the SIP Trunk.
- 3- Assign the script name to the SIP Trunk in the SIP Trunk configuration-SIP Normalization section.



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SIP Normalization Script Configuration Related Links: Back To Find/List Go

Save Delete Reset Add New Import File

SIP Normalization Script Info

Name*	nortel_cs1000ev3
Description	SME script to Nortel
Content*	<pre>Nortel = {} trace.enable() -- Tested with Nortel CS1000E release 5.0 Nortel.allowHeaders = {"History-Info"} local mwi_number = scriptParameters.getValue("mwi-number") if not mwi_number then mwi_number = "1000" end</pre>
Script Execution Error Recovery Action*	Message Rollback Only
System Resource Error Recovery Action*	Disable Script
Memory Threshold*	50 kilobytes
Lua Instruction Threshold*	1000 instructions

CTI Route Point
Gatekeeper
Gateway
Phone
Trunk
Remote Destination
Device Settings

Device Defaults
Firmware Load Information
Default Device Profile
Device Profile
Phone Button Template
Softkey Template
Phone Services
SIP Profile
Common Device Configuration
Common Phone Profile
Remote Destination Profile
Feature Control Policy
Recording Profile
SIP Normalization Script

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SIP Normalization Script Configuration Related Links: Back To Find/List Go

Save Delete Reset Add New Import File

SIP Normalization Script Info

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Script Execution Error Recovery Action*	Message Rollback Only
System Resource Error Recovery Action*	Disable Script
Memory Threshold*	50 kilobytes
Lua Instruction Threshold*	1000 instructions

SIP Trunk configuration- SIP Normalization section.



Destination Address

	Destination Address	Destination Address IPv6	Destination Port
1*	172.30.11.100		5060

MTP Preferred Originating Codec* 711ulaw
Presence Group* Standard Presence group
SIP Trunk Security Profile* SIP Trunks
Rerouting Calling Search Space < None >
Out-Of-Dialog Refer Calling Search Space < None >
SUBSCRIBE Calling Search Space < None >
SIP Profile* Early Offer SIP Profile
DTMF Signaling Method* OOB and RFC 2833

Normalization Script
Normalization Script nortel_cs1000ev3
 Enable Trace

	Parameter Name	Parameter Value
1		

Cisco UCM- Software Script

The Cisco UCM-Software Script should be applied at SME SIP trunk toward Nortel PBX for UC Voice Mail center MWI, Move Allow Option and Update. For now, please copy and paste to note pad and save it using txt format. Review the script to ensure that it is not corrupted before upload to the normalization section.

Here is the details Normalization script for your information.

```
Nortel = {}
```

```
trace.enable()
```

```
-- Tested with Nortel CS1000E release 5.0
```

```
Nortel.allowHeaders = {"History-Info"}
```

```
local mwi_number = scriptParameters.getValue("mwi-number")
```

```
if not mwi_number
```

```
then
```

```
    mwi_number = "1000"
```

```
end
```

```
local function adjustRedirectInfo(msg)
```

```
    local di = msg.getHeader("Diversion")
```

```
    if not di
```

```
    then
```

```
        return
```




```
end

msg:convertDiversionToHI()

msg:removeHeader("Diversion")

local historyInfos = msg:getHeaderValues("History-Info")
msg:removeHeader("History-Info")

-- For debugging purposes, dump out what the Diversion header contained and dump out the list of History-Info

headers
-- produced by msg:convertDiversionToHI. These extra headers will help debug but should be ignored by Avaya.

Trace
-- should be disabled via Admin UI unless a problem is being debugged. Therefore, under normal operating conditions,
-- the debug headers won't be included in the message.
if trace.enabled()
then
  msg:addHeader("X-Debug-Diversion", di)
  for i, hi in ipairs(historyInfos)
  do
    msg:addHeader("X-Debug-History-Info", hi)
  end
end
end

-- Example:
-- Original Diversion header generated natively by CUCM might have been this:
--   Diversion: <sip:1002@10.10.10.100>;reason=unconditional;privacy=off;screen=yes
--
-- The call to convertDiversionToHI will produce these:
--   History-Info: <sip:1002@10.10.10.100:5060?Reason=sip;cause=302;text="unconditional">;index=1
--   History-Info: <sip:2400@10.10.10.200:5060>;index=1.1
--
-- However, Nortel needs something that looks like this:
--   History-Info:
<sip:1002@10.10.10.100?reason=sip%3Bcause%3D302%3Btext%3D%22Moved%20Temporarily%22>;index=1
--   History-Info: <sip:2400@10.10.10.200>;index=2
--
-- This loop generates the additional History-Info header and uses the index value for the first header generated by
-- convertDiversionToHI. Each header uses the index from the next. The last header uses the last value plus one.
-- While processing each header, it also removes the port number from the URI and does any necessary conversion of
-- to special characters to the escaped value for the embedded header.
for i, hi in ipairs(historyInfos)
do
  local uri = string.match(hi, '<(.*?)%?') or string.match(hi, "<(.*?)>;index=.*") or ""
  -- Strip out the port number.
  uri = string.gsub(uri, "@(.*):%d+", "@%1")

  -- Get the embedded header but without the ?Reason=sip part.
  local embed_header = string.match(hi, "%?Reason=sip(.*?)>")

  if embed_header
  then
    embed_header = string.gsub(embed_header, "unconditional", "Moved Temporarily")
    embed_header = string.gsub(embed_header, ":", "%3B")
  end
end
```



```
    embed_header = string.gsub(embed_header, "=", "%%3D")
    embed_header = string.gsub(embed_header, "\", "%%22")
    embed_header = string.gsub(embed_header, " ", "%%20")

    embed_header = string.format("?reason=sip%s", embed_header)
end

hi = string.format("<%s%s>;index=%s", uri, embed_header or "", i)
msg:addHeader("History-Info", hi)
end
end

-- Remove OPTIONS from outbound INVITE requests.
-- Convert Diversion to History-Info.
function Nortel.outbound_INVITE(msg)
    msg:removeHeaderValue("Allow", "OPTIONS")

    adjustRedirectInfo(msg)
end

-- Remove OPTIONS from any outbound request.
function Nortel.outbound_ANY(msg)
    msg:removeHeaderValue("Allow", "OPTIONS")
end

-- Remove OPTIONS from any outbound response to any request.
function Nortel.outbound_ANY_ANY(msg)
    msg:removeHeaderValue("Allow", "OPTIONS")
end

-- Modify the From header so that the userpart is numeric. CUCM will natively send
-- 'voicemail' as the userpart. Nortel does not handle that. This code changes
-- the user part to 1000 or the value of the configured script parameter: mwi-number.
function Nortel.outbound_NOTIFY(msg)
    msg:removeHeaderValue("Allow", "OPTIONS")

    local from = msg:getHeader("From")
    if from
    then
        from = from:gsub("voicemail", mwi_number)
        msg:modifyHeader("From", from)
        msg:addHeaderUriParameter("From", "user", "phone")
    end
end

-- Convert History-Info to Diversion for inbound invites. Also, remove the
-- phone-context userpart parameter and user=phone URI parameter if either
-- is present.
function Nortel.inbound_INVITE(msg)
    msg:removeHeaderValue("Allow", "UPDATE")

    local hist = msg:getHeader("History-Info")
    if not hist
    then
        return
    end
end
```



```
msg:convertHIToDiversion()
msg.removeHeader("History-Info")

local diversion = msg.getHeader("Diversion")
if diversion
then
  -- This first regex will remove the phone-context userpart parameter if there
  -- are other parameters after it but before the @.
  diversion = diversion:gsub(";phone%-context=[^;]*;([^@]*)@", ";%1@")
  -- This second regex will remove the phone-context userpart parameter if it
  -- is immediately before the @.
  diversion = diversion:gsub(";phone%-context=[^@]*@", "@")
  -- Remove user=phone URI parameter.
  diversion = diversion:gsub(";user=phone", "")
  -- Save the changes.
  msg.modifyHeader("Diversion", diversion)
end
end

function Nortel.inbound_ANY_INVITE(msg)
  msg.removeHeaderValue("Allow", "UPDATE")
end

function Nortel.outbound_ANY_INVITE(msg)
  msg.removeHeaderValue("Allow", "OPTIONS")
end

return Nortel
```



Acronyms

Acronym	Definition
CCBS	Call Completion to Busy Subscriber
CCNR	Call Completion on No Reply
CFB	Call Forwarding on Busy
CFNR	Call Forwarding No Reply
CFU	Call Forwarding Unconditional
CLIP	Calling Line (Number) Identification Presentation
CLIR	Calling Line (Number) Identification Restriction
CNIP	Calling Name Identification Presentation
CNIR	Calling Name Identification Restriction
COLP	Connected Line (Number) Identification Presentation
COLR	Connected Line (Number) Identification Restriction
CONP	Connected Name Identification Presentation
CONR	Connected Name Identification Restriction
CT	Call Transfer
Cisco UCM	Cisco Unified Communications Manager
DNS	Domain Name Server
FQDN	Fully Qualified Domain Name
MWI	Message Waiting Indicator
MRGL	Media Resource Group List
MTP	Media Termination Point
PSTN	Public Switched Telephone Network
SIP	Session Initiated Protocol



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